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The following report contains a description of the request, request specifications, and results from the modular program run(s).

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#### Overview for Request icd10\_mpl1r\_wp002\_nsdp\_v01

**Request ID:** icd10\_mpl1r\_wp002\_nsdp\_v01

**Request Description:** This report contains estimates of the frequency of diagnoses for a selection of health outcomes using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes. Two health outcomes were investigated: hypertension and diabetes.

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, Version 3.3.2

**Data Source:** Data from October 1, 2010 to August 31, 2016 from 11 health plans contributing to the Sentinel Distributed Database (SDD) were included in this report. The report includes three separate monitoring periods: 1) October 1, 2010 to August 31, 2016; 2) January 1, 2015 to March 31, 2015; and 3) January 1, 2016 to March 31, 2016. This request was distributed on January 18, 2017 to nine Data Partners and on March 20, 2017 to two Data Partners. See Appendix A for a list of the latest dates of available data for each Data Partner.

<u>Study Design</u>: This request was designed to identify events of interest. The number of qualifying patients with the event of interest were calculated overall and stratified by age group, sex, year, and year-month.

**Events of Interest:** The events of interest were hypertension diagnosis and diabetes diagnosis that occurred in any care setting. Diagnoses were defined using ICD-9-CM as well as ICD-10-CM diagnosis codes. The Centers for Medicare and Medicaid Services (CMS) General Equivalence Mappings (GEMs) were used to determine appropriate ICD-10-CM codes using Simple Forward Mapping (with and without cluster logic) and Forward Backward Mapping.\* Cluster logic involves combinations of codes using "and" logic to create one diagnostic event from multiple codes. See Appendices B-H for specific codes and clusters.

<u>Cohort Eligibility Criteria</u>: Patients were required to be continuously enrolled in plans with medical coverage for at least six months (183 days) before their diagnosis date, during which gaps in coverage of up to 45 days were allowed. The following age groups were included in the cohort: 0-17, 18-49, 50-64, 65+ years.

### Please refer to Appendices I and J for detailed specifications of parameters used in the analyses for this request.

<u>Notes:</u> Please contact the Sentinel Operations Center Query Fulfillment Team (qf@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

#### **References:**

\* Fung KW, Richesson R, Smerek M, et al. Preparing for the ICD-10-CM Transition: Automated Methods for Translating ICD Codes in Clinical Phenotype Definitions. EGEMS (Washington, DC) 2016;4:1211.



	Table of Contents
Glossary	List of Terms Found in this Report and their Definitions
<u>Table 1a</u> <u>Table 1b</u>	Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm,
	Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Age Group
<u>Table 1c</u>	Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Sex
<u>Table 1d</u>	Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year
<u>Table 1e</u>	Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year-Month
<u>Figures 1a-1e</u> <u>Figures 1f-1i</u>	Figures Displaying Number of Hypertension Diagnoses by Monitoring Period, Code Type, Code Source, and Washout Period Figures Displaying Number of Incident Hypertension Diagnoses per 1,000 Eligible Members by Monitoring Period, Code Type, Code Source, and Washout
Table 2a	Period Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple
<u>Table 2b</u>	Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Age Group
<u>Table 2c</u>	Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Sex
<u>Table 2d</u>	Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year
<u>Table 2e</u>	Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year-Month
Figure 2a-2e	Figures Displaying Number of Diabetes Diagnoses by Monitoring Period, Code Type, Code Source, and Washout Period
Figures 2f-2i	Figures Displaying Number of Incident Diagnoses per 1,000 Eligible Members of Diabetes by Monitoring Period, Code Type, Code Source, and Washout Period
Appendix A	Latest Date of Available Data for Each Data Partner up to Request End Date
Appendix B	List of Codes Used to Define Hypertension, Algorithm
Appendix C	List of Codes Used to Define Hypertension, Simple Forward Mapping (SFM)
Appendix D	List of Codes Used to Define Hypertension, Forward Backward Mapping (FBM)
Appendix E	List of Codes Used to Define Diabetes, Algorithm
Appendix F	List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM)
Appendix G	List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM) with Clusters
Appendix H	Generalized Equivalence Mappings (GEMs) - 2017 Cluster Mapping for Diabetes
Appendix I	List of Codes Used to Define Diabetes, Forward Backward Mapping (FBM)
<u>Appendix J</u>	Cohort Identification and Descriptive Analysis (CIDA) Specifications for International Classification of Diseases, Tenth Revision (ICD-10) Level 1 Request Part Two: Hypertension
<u>Appendix K</u>	Cohort Identification and Descriptive Analysis (CIDA) Specifications for International Classification of Diseases, Tenth Revision (ICD-10) Level 1 Request Part Two: Diabetes



### Glossary of Terms for Analyses Using Cohort Identification and Descriptive Analysis (CIDA) Tool\*

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. This is equivalent to the "RxAmt" value in the Sentinel Common Data Model.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

**Care Setting** - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). Along with the Principal Diagnosis Indicator, forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

**Emergency Department (ED)** - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

**Non-Acute Institutional Stay (IS)** - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

**Other Ambulatory Visit (OA)** - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

**Cohort Definition (drug/exposure)** - indicates how the cohort will be defined: (1) 01: Cohort includes only the first valid treatment episode during the query period; (2) 02: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (1) 01: Cohort includes all valid treatment episodes during the query period; (2) 02: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 03: Cohort includes all valid treatment episodes during the query period; (3) 0

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

**Episodes** - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode **Eligible Members** - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

**Episode Gap** - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment **Event Deduplication** - specifies how events are counted by the MP algorithm: (0) 0: Counts all occurrences of an HOI during an exposure episode; (1) 1: de-duplicates occurrences of the same HOI code and code type on the same day; (2) 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

**Exposure Extension Period** - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions days are added after any episode gaps have been bridged.

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Lookback Period (pre-existing condition) - number of days wherein a member is required to have evidence of pre-existing condition

Member-Years - sum of all days of enrollment with medical and drug coverage\*\* in the query period preceded by an exposure washout period all

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

**Minimum Episode Duration** - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Maximum Episode Duration** - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter. **Query Period** - period in which the modular program looks for exposures and outcomes of interest.

**Treatment Episode Truncation Indicator** - indicates whether observation of the incident query code during follow-up requires truncation of valid treatment episodes. A value of Y indicates that the treatment episodes should be truncated at the first occurrence of an incident query code. A value of N indicates that the treatment episodes should not be truncated at the occurrence of the incident query code.

**Users** - number of members with exposure during the query period. Member must have no evidence of exposure(s) of interest (defined by incidence criteria) in the prior washout period. A user may only be counted once in a query period.

**Washout Period** (drug/exposure)\*\* - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

**Washout Period (event/outcome)\*\*** - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

\*all terms may not be used in this report

\*\*incident treatment episodes must be incident to both the exposure and the event



Table 1a. Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period

<u>2010-2016</u>					Number of Instant
	Number of Incident	Number of			Number of Incident Diagnoses / 1K
	Diagnoses	Diagnoses	Eligible Members	Member-Years	Eligible Members
CD-9-CM codes from an Algorithm, 183 day washout					
	21,225,160	21,225,160	126,827,167	250,178,638.5	167.35
CD-9-CM codes from SFM, 183 day washout					
	21,225,048	21,225,048	126,828,668	250,180,822.2	167.35
CD-9-CM codes from FBM, 183 day washout					
	21,225,048	21,225,048	126,827,326	250,179,404.6	167.35
CD-10-CM codes from an Algorithm, 183 day washout					
	5,456,996	5,456,996	126,827,167	268,566,115.2	43.03
CD-10-CM codes from SFM, 183 day washout	· ·				
	5,451,135	5,451,135	126,828,668	268,569,967.4	42.98
CD-10-CM codes from FBM, 183 day washout	5,151,155	5, 151,155	120,020,000	200,303,307.4	72.30
CD-10-CIVI Codes ITOIII FBIVI, 183 day Washout	E 4E7 042	F 4F7 042	426 027 226	200 500 500 7	42.02
	5,457,043	5,457,043	126,827,326	268,566,536.7	43.03
CD-9-CM codes from an Algorithm, 0 day washout					
	25,658,526	227,217,362	131,346,603	319,813,419.4	195.35
CD-9-CM codes from SFM and FBM, 0 day washout					
	25,658,253	227,213,170	131,346,603	319,813,419.4	195.35
CD-10-CM codes from an Algorithm, 0 day washout					
	10,763,241	30,879,774	131,346,603	319,813,419.4	81.95
CD-10-CM codes from SFM, 0 day washout				· ·	
	10,752,552	30,818,132	131,346,603	319,813,419.4	81.86
CD-10-CM codes from FBM, 0 day washout	10,752,552	50,010,152	131,340,005	515,015,415.4	01.00
CD-10-CIVI Codes ITOIN PDIVI, 0 day washout	10,763,275	30,879,844	121 246 602	210 012 410 4	01.05
	10,705,275	50,679,644	131,346,603	319,813,419.4	81.95
2015					
CD-9-CM codes from an Algorithm, 90 day washout	A 133 E0C	1 122 506	EE E01 034	12 127 602 4	74.07
	4,133,586	4,133,586	55,581,824	12,137,692.4	74.37
ICD-9-CM codes from SFM and FBM, 90 day washout	4,133,577	4,133,577		12 127 000 4	74.07
	4,155,577	4,155,577	55,581,844	12,137,699.1	74.37
2016					
2016					
ICD-10-CM codes from an Algorithm, 90 day washout	1 241 460	4 241 460	FF 204 477	12 276 440 7	70.50
	4,341,469	4,341,469	55,304,177	12,276,118.7	78.50
ICD-10-CM codes from SFM, 90 day washout	4 227 040	4 227 042	FE 000 005	10.077.070 -	70.40
	4,337,848	4,337,848	55,308,607	12,277,979.5	78.43

4,341,485

4,341,485

55,304,172

12,276,116.0

78.50

ICD-10-CM codes from FBM, 90 day washout



Table 1b. Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Age Group

	Number of Incident				Number of Incider Diagnoses / 1K
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Eligible Members
9-9-CM codes from an Algo					
0-17 Years	105,943	105,943	29,846,115	64,718,608.4	3.55
18-49 Years	5,868,795	5,868,795	68,083,589	126,699,397.8	86.20
50-64 Years	8,650,464	8,650,464	27,227,908	44,452,780.5	317.71
65+ Years	6,599,958	6,599,958	11,604,330	14,307,851.7	568.75
)-9-CM codes from SFM, 18					
0-17 Years	105,900	105,900	29,846,189	64,718,828.1	3.55
18-49 Years	5,868,703	5,868,703	68,084,002	126,700,259.3	86.20
50-64 Years	8,650,414	8,650,414	27,228,413	44,453,405.6	317.70
65+ Years	6,600,031	6,600,031	11,604,933	14,308,329.2	568.73
0-9-CM codes from FBM, 18		105.000	20.946.115	64 719 702 6	2 55
0-17 Years	105,900	105,900	29,846,115	64,718,702.6	3.55
18-49 Years 50-64 Years	5,868,703 8,650,414	5,868,703 8,650,414	68,083,623 27,227,940	126,699,662.8 44,452,977.5	86.20 317.70
65+ Years	6,600,031	6,600,031	11,604,452	14,308,061.6	568.75
0-10-CM codes from an Alg		0,000,031	11,004,432	14,308,001.0	508.75
0-17 Years	15,320	15,320	29,846,115	64,824,741.0	0.51
18-49 Years	1,200,872	1,200,872	68,121,192	131,643,777.6	17.63
50-64 Years	2,242,290	2,242,290	28,197,328	52,154,843.2	79.52
65+ Years	1,998,514	1,998,514	12,517,244	19,942,753.4	159.66
-10-CM codes from SFM, 1		1,550,511	12/01//211	2010 1217 0011	100100
0-17 Years	14,871	14,871	29,846,189	64,824,979.7	0.50
18-49 Years	1,198,470	1,198,470	68,121,632	131,644,936.8	17.59
50-64 Years	2,240,213	2,240,213	28,197,934	52,156,150.3	79.45
65+ Years	1,997,581	1,997,581	12,517,962	19,943,900.6	159.58
-10-CM codes from FBM, 1	183 day washout				
0-17 Years	15,321	15,321	29,846,115	64,824,769.2	0.51
18-49 Years	1,200,898	1,200,898	68,121,216	131,643,874.3	17.63
50-64 Years	2,242,296	2,242,296	28,197,354	52,154,957.6	79.52
65+ Years	1,998,528	1,998,528	12,517,368	19,942,935.6	159.66
-9-CM codes from an Algo	rithm, 0 day washout				
0-17 Years	112,180	320,356	29,854,260	64,911,877.6	3.76
18-49 Years	6,730,659	32,271,469	69,118,516	140,553,482.7	97.38
50-64 Years	11,167,126	76,700,993	30,357,747	71,475,208.9	367.85
65+ Years	9,457,689	117,924,544	14,919,540	42,872,850.2	633.91
-9-CM codes from SFM an					
0-17 Years	112,137	320,289	29,854,260	64,911,877.6	3.76
18-49 Years	6,730,544	32,270,724	69,118,516	140,553,482.7	97.38
50-64 Years	11,167,047	76,699,797	30,357,747	71,475,208.9	367.85
65+ Years	9,457,637	117,922,360	14,919,540	42,872,850.2	633.91
0-10-CM codes from an Alg				<u></u>	0.55
0-17 Years	19,311	41,662	29,854,260	64,911,877.6	0.65
18-49 Years	1,884,789	4,021,150	69,118,516	140,553,482.7	27.27
50-64 Years	4,132,392	10,155,636	30,357,747	71,475,208.9	136.12
65+ Years	4,788,410	16,661,326	14,919,540	42,872,850.2	320.95
0-10-CM codes from SFM, C 0-17 Years	18,621	39,027	20 854 260	64,911,877.6	0.62
0-17 Years 18-49 Years	18,621 1,881,278	39,027 4,008,544	29,854,260 69,118,516	64,911,877.6 140,553,482.7	27.22
50-64 Years	4,128,619	4,008,544	30,357,747	71,475,208.9	136.00
65+ Years	4,128,619	16,634,428	14,919,540	42,872,850.2	320.76
0-10-CM codes from FBM, (	· ·	10,004,420	17,313,340	72,072,030.2	520.70
0-17 Years	19,312	41,667	29,854,260	64,911,877.6	0.65
18-49 Years	1,884,817	4,021,187	69,118,516	140,553,482.7	27.27
50-64 Years	4,132,396	10,155,641	30,357,747	71,475,208.9	136.12
30 0 1 1 CUI 3	7,132,330	10,100,071	30,337,777	, 1, 1, 3,200.5	130.12



	Number of Incident Diagnoses	t Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligible Members
5			0		0
9-CM codes from an Algorithn	n, 90 day washout				
0-17 Years	6,460	6,460	11,504,218	2,681,902.0	0.56
18-49 Years	728,588	728,588	25,528,131	5,748,936.7	28.54
50-64 Years	1,589,913	1,589,913	12,336,351	2,538,975.4	128.88
65+ Years	1,808,625	1,808,625	6,650,918	1,167,878.3	271.94
9-CM codes from SFM and FBI	M, 90 day washout				
0-17 Years	6,457	6,457	11,504,218	2,681,902.6	0.56
18-49 Years	728,587	728,587	25,528,133	5,748,937.9	28.54
50-64 Years	1,589,910	1,589,910	12,336,354	2,538,976.7	128.88
65+ Years	1,808,623	1,808,623	6,650,933	1,167,882.0	271.94
10-CM codes from an Algorith					
- 10-CM codes from an Algorith 0-17 Years	7,493	7,493	11,311,022	2,686,435.4	0.66
- <b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years	7,493 778,514	778,514	25,451,691	5,826,709.7	30.59
- 10-CM codes from an Algorith 0-17 Years	7,493				
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years	7,493 778,514 1,675,777 1,879,685	778,514	25,451,691	5,826,709.7	30.59
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b>	7,493 778,514 1,675,777 1,879,685 y washout	778,514 1,675,777 1,879,685	25,451,691 12,374,598 6,599,921	5,826,709.7 2,584,056.9 1,178,916.7	30.59 135.42 284.80
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b> 0-17 Years	7,493 778,514 1,675,777 1,879,685 y washout 7,234	778,514 1,675,777 1,879,685 7,234	25,451,691 12,374,598 6,599,921 11,311,215	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1	30.59 135.42 284.80 0.64
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b> 0-17 Years 18-49 Years	7,493 778,514 1,675,777 1,879,685 y washout 7,234 777,238	778,514 1,675,777 1,879,685 7,234 777,238	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1	30.59 135.42 284.80 0.64 30.54
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b> 0-17 Years 18-49 Years 50-64 Years	7,493 778,514 1,675,777 1,879,685 <b>y washout</b> 7,234 777,238 1,674,484	778,514 1,675,777 1,879,685 7,234 777,238 1,674,484	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671 12,376,129	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1 2,584,703.1	30.59 135.42 284.80 0.64 30.54 135.30
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years	7,493 778,514 1,675,777 1,879,685 <b>y washout</b> 7,234 777,238 1,674,484 1,878,892	778,514 1,675,777 1,879,685 7,234 777,238	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1	30.59 135.42 284.80 0.64 30.54
<b>10-CM codes from an Algorith</b> 0-17 Years 18-49 Years 50-64 Years 65+ Years <b>10-CM codes from SFM, 90 da</b> 0-17 Years 18-49 Years 50-64 Years	7,493 778,514 1,675,777 1,879,685 <b>y washout</b> 7,234 777,238 1,674,484 1,878,892	778,514 1,675,777 1,879,685 7,234 777,238 1,674,484	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671 12,376,129	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1 2,584,703.1	30.59 135.42 284.80 0.64 30.54 135.30
10-CM codes from an Algorith 0-17 Years 18-49 Years 50-64 Years 65+ Years 10-CM codes from SFM, 90 da 0-17 Years 18-49 Years 50-64 Years 65+ Years 10-CM codes from FBM, 90 da	7,493 778,514 1,675,777 1,879,685 <b>y washout</b> 7,234 777,238 1,674,484 1,878,892 <b>y washout</b>	778,514 1,675,777 1,879,685 7,234 777,238 1,674,484 1,878,892	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671 12,376,129 6,601,722	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1 2,584,703.1 1,179,518.2	30.59 135.42 284.80 0.64 30.54 135.30 284.61
10-CM codes from an Algorith 0-17 Years 18-49 Years 50-64 Years 65+ Years 10-CM codes from SFM, 90 da 0-17 Years 18-49 Years 50-64 Years 65+ Years 10-CM codes from FBM, 90 da 0-17 Years	7,493 778,514 1,675,777 1,879,685 <b>y washout</b> 7,234 777,238 1,674,484 1,878,892 <b>y washout</b> 7,493	778,514 1,675,777 1,879,685 7,234 777,238 1,674,484 1,878,892 7,493	25,451,691 12,374,598 6,599,921 11,311,215 25,452,671 12,376,129 6,601,722 11,311,022	5,826,709.7 2,584,056.9 1,178,916.7 2,686,537.1 5,827,221.1 2,584,703.1 1,179,518.2 2,686,435.4	30.59 135.42 284.80 0.64 30.54 135.30 284.61 0.66



Table 1c. Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Sex

<u>10-2016</u>					Number of Incide
	Number of Inciden	+			Diagnoses / 1K
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Eligible Member
D-9-CM codes from an Algo	.0	Humber of Blaghoses	Engliste titeritisers	includer reals	Englisic memoer
Female	10,455,786	10,455,786	64,403,718	128,675,039.1	162.35
Male	10,768,361	10,768,361	62,416,782	121,493,248.3	172.52
Unknown	1,013	1,013	6,667	10,351.1	151.94
D-9-CM codes from SFM, 18	,	_/	-,		
Female	10,455,726	10,455,726	64,404,433	128,676,188.9	162.34
Male	10,768,309	10,768,309	62,417,568	121,494,282.2	172.52
Unknown	1,013	1,013	6,667	10,351.1	151.94
D-9-CM codes from FBM, 18	83 day washout	· ·	·	·	
Female	10,455,726	10,455,726	64,403,809	128,675,456.9	162.35
Male	10,768,309	10,768,309	62,416,850	121,493,596.6	172.52
Unknown	1,013	1,013	6,667	10,351.1	151.94
D-10-CM codes from an Alg	orithm, 183 day washout				
Female	2,683,225	2,683,225	64,403,718	137,685,948.9	41.66
Male	2,773,596	2,773,596	62,416,782	130,868,932.6	44.44
Unknown	175	175	6,667	11,233.6	26.25
D-10-CM codes from SFM, 1	L83 day washout				
Female	2,680,199	2,680,199	64,404,433	137,687,906.8	41.62
Male	2,770,761	2,770,761	62,417,568	130,870,826.7	44.39
Unknown	175	175	6,667	11,234.0	26.25
D-10-CM codes from FBM, 1	183 day washout				
Female	2,683,254	2,683,254	64,403,809	137,686,184.6	41.66
Male	2,773,614	2,773,614	62,416,850	130,869,118.5	44.44
Unknown	175	175	6,667	11,233.6	26.25
D-9-CM codes from an Algo	· · · · · · · · · · · · · · · · · · ·				
Female	12,744,565	119,116,903	66,720,608	163,721,251.5	191.01
Male	12,912,770	108,086,761	64,619,123	156,078,303.4	199.83
Unknown	1,191	13,698	6,872	13,864.6	173.31
D-9-CM codes from SFM an					
Female	12,744,418	119,114,637	66,720,608	163,721,251.5	191.01
Male	12,912,644	108,084,835	64,619,123	156,078,303.4	199.83
Unknown	1,191	13,698	6,872	13,864.6	173.31
D-10-CM codes from an Alg					
Female	5,416,725	16,105,316	66,720,608	163,721,251.5	81.19
Male	5,346,110	14,773,271	64,619,123	156,078,303.4	82.73
Unknown	406	1,187	6,872	13,864.6	59.08
D-10-CM codes from SFM, (					
Female	5,411,364	16,073,776	66,720,608	163,721,251.5	81.10
Male	5,340,783	14,743,172	64,619,123	156,078,303.4	82.65
Unknown	405	1,184	6,872	13,864.6	58.93
D-10-CM codes from FBM, (			66 <b>70</b> 6 555	100 70	
Female	5,416,746	16,105,357	66,720,608	163,721,251.5	81.19
Male	5,346,123	14,773,300	64,619,123	156,078,303.4	82.73
Unknown	406	1,187	6,872	13,864.6	59.08



	Number of Incident				Number of Incident Diagnoses / 1K
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Eligible Members
<u>2015</u>					
CD-9-CM codes from an Algo	prithm. 90 day washout				
Female	2,065,451	2,065,451	28,348,983	6,197,197.2	72.86
Male	2,067,944	2,067,944	27,230,619	5,940,020.3	75.94
Unknown	191	191	2,222	475.0	85.96
CD-9-CM codes from SFM an	nd FBM, 90 day washout		·		
Female	2,065,442	2,065,442	28,348,991	6,197,200.8	72.86
Male	2,067,944	2,067,944	27,230,631	5,940,023.4	75.94
Unknown	191	191	2,222	475.0	85.96
2016					
CD-10-CM codes from an Alg	orithm, 90 day washout				
Female	2,169,899	2,169,899	28,185,729	6,271,185.1	76.99
Male	2,171,421	2,171,421	27,116,156	6,004,471.8	80.08
Unknown	149	149	2,292	461.8	65.01
CD-10-CM codes from SFM,	90 day washout				
Female	2,168,143	2,168,143	28,187,951	6,272,113.4	76.92
Male	2,169,556	2,169,556	27,118,363	6,005,404.1	80.00
Unknown	149	149	2,293	462.0	64.98
CD-10-CM codes from FBM,	90 day washout				
Female	2,169,906	2,169,906	28,185,726	6,271,183.5	76.99
Male	2,171,430	2,171,430	27,116,154	6,004,470.6	80.08
Unknown	149	149	2,292	461.8	65.01



Table 1d. Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year

2010-2016					Number of Incident
	Number of Incident				Diagnoses / 1K Eligible
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
ICD-9-CM codes from a	n Algorithm, 183 day washou	<u> </u>	Engine memoers	Weinber Tears	Wielinders
2010	2,136,588	2,136,588	52,722,370	12,110,338.4	40.53
2011	7,146,736	7,146,736	63,032,152	46,227,058.4	113.38
2012	4,140,692	4,140,692	58,419,422	44,623,273.8	70.88
2012	3,114,664	3,114,664	57,183,307	44,023,273.8	54.47
2013	2,725,173	2,725,173	57,545,776	43,445,111.2	47.36
2014	1,961,280	1,961,280	57,377,704	43,635,437.5	34.18
2015	27	27	45,736,542	15,990,741.3	0.00
ICD-9-CM codes from S		27	43,730,34Z	13,330,741.3	0.00
2010	2,136,581	2,136,581	52,722,671	12,110,412.6	40.52
2011	7,146,805	7,146,805	63,032,390	46,227,230.2	113.38
2012	4,140,635	4,140,635	58,419,502	44,623,395.9	70.88
2013	3,114,624	3,114,624	57,183,411	44,146,798.9	54.47
2013	2,725,108	2,725,108	57,545,869	43,445,230.2	47.36
2015	1,961,268	1,961,268	57,378,211	43,635,829.5	34.18
2016	27	27	45,739,308	15,991,925.0	0.00
ICD-9-CM codes from F			13,733,500	13,331,323.0	0.00
2010	2,136,581	2,136,581	52,722,671	12,110,412.6	40.52
2011	7,146,805	7,146,805	63,032,390	46,227,230.2	113.38
2012	4,140,635	4,140,635	58,419,502	44,623,395.9	70.88
2013	3,114,624	3,114,624	57,183,411	44,146,798.9	54.47
2014	2,725,108	2,725,108	57,545,869	43,445,230.0	47.36
2015	1,961,268	1,961,268	57,377,828	43,635,563.4	34.18
2016	27	27	45,736,642	15,990,773.6	0.00
	an Algorithm, 183 day washo		-//-		
2010	1	1	52,722,370	12,110,338.4	0.00
2011	7	7	64,425,224	47,100,096.3	0.00
2012	22	22	64,585,629	47,582,259.9	0.00
2013	40	40	65,191,062	48,076,220.9	0.00
2014	107	107	66,298,162	47,787,097.9	0.00
2015	2,271,245	2,271,245	66,472,132	48,218,086.1	34.17
2016	3,185,574	3,185,574	52,239,570	17,692,015.6	60.98
ICD-10-CM codes from	SFM, 183 day washout	· ·	· ·		
2010	1	1	52,722,671	12,110,412.6	0.00
2011	7	7	64,425,416	47,100,245.3	0.00
2012	22	22	64,585,696	47,582,330.9	0.00
2013	40	40	65,191,111	48,076,281.1	0.00
2014	106	106	66,298,193	47,787,141.8	0.00
2015	2,267,636	2,267,636	66,473,004	48,218,722.2	34.11
2016	3,183,323	3,183,323	52,247,473	17,694,833.5	60.93
ICD-10-CM codes from	FBM, 183 day washout				
2010	1	1	52,722,671	12,110,412.6	0.00
2011	7	7	64,425,416	47,100,245.3	0.00
2012	22	22	64,585,696	47,582,330.9	0.00
2013	40	40	65,191,111	48,076,281.1	0.00
2014	107	107	66,298,192	47,787,141.3	0.00
2015	2,271,264	2,271,264	66,472,162	48,218,116.5	34.17
2016	3,185,602	3,185,602	52,239,564	17,692,008.8	60.98



	Number of Incident				Number of Incident Diagnoses / 1K Eligible
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
	n Algorithm, 0 day washout				
2010	6,121,687	10,765,681	59,827,304	14,362,660.8	102.32
2011	12,393,902	43,429,523	68,676,077	55,982,537.1	180.47
2012	12,517,676	44,640,943	68,904,822	56,651,029.5	181.67
2013	12,677,823	46,364,541	69,659,404	57,248,942.9	182.00
2014	12,732,608	46,725,133	70,996,865	56,961,254.2	179.34
2015	11,227,980	35,290,518	71,140,657	57,427,315.9	157.83
2016	819	1,023	59,085,093	21,179,678.9	0.01
	FM and FBM, 0 day washout	1,010	33,000,000	=1,1,5,6,6,6	0101
2010	6,121,409	10,765,017	59,827,304	14,362,660.8	102.32
2011	12,393,783	43,428,367	68,676,077	55,982,537.1	180.47
2012	12,517,591	44,640,101	68,904,822	56,651,029.5	181.66
2012	12,677,749	46,363,696	69,659,404	57,248,942.9	181.00
2014	12,732,535	46,724,723	70,996,865	56,961,254.2	179.34
2015	11,227,949	35,290,243	71,140,657	57,427,315.9	157.83
2016	819	1,023	59,085,093	21,179,678.9	0.01
	an Algorithm, 0 day washout				
2010	10	10	59,827,304	14,362,660.8	0.00
2011	84	84	68,676,077	55,982,537.1	0.00
2012	168	169	68,904,822	56,651,029.5	0.00
2013	400	403	69,659,404	57,248,942.9	0.01
2014	1,221	1,267	70,996,865	56,961,254.2	0.02
2015	6,712,711	12,665,505	71,140,657	57,427,315.9	94.36
2016	8,010,646	18,212,336	59,085,093	21,179,678.9	135.58
D-10-CM codes from	· · ·	-, ,		, -,	
2010	10	10	59,827,304	14,362,660.8	0.00
2011	84	84	68,676,077	55,982,537.1	0.00
2012	164	165	68,904,822	56,651,029.5	0.00
2012	400	403	69,659,404	57,248,942.9	0.00
2013					0.01
	1,217	1,262	70,996,865	56,961,254.2	
2015	6,704,634	12,639,645	71,140,657	57,427,315.9	94.24
2016	8,001,792	18,176,563	59,085,093	21,179,678.9	135.43
D-10-CM codes from		10	50 007 004		0.00
2010	10	10	59,827,304	14,362,660.8	0.00
2011	84	84	68,676,077	55,982,537.1	0.00
2012	168	169	68,904,822	56,651,029.5	0.00
2013	400	403	69,659,404	57,248,942.9	0.01
2014	1,221	1,267	70,996,865	56,961,254.2	0.02
2015	6,712,720	12,665,530	71,140,657	57,427,315.9	94.36
2016	8,010,677	18,212,381	59,085,093	21,179,678.9	135.58
<u>)15</u>					
	n Algorithm, 90 day washout				
2015	4,133,586	4,133,586	55,581,824	12,137,692.4	74.37
D-9-CM codes from S	FM and FBM, 90 day washout				
2015	4,133,577	4,133,577	55,581,844	12,137,699.1	74.37
016					
	an Algorithm, 90 day washout	i i			
2016	4,341,469	4,341,469	55,304,177	12,276,118.7	78.50
D-10-CM codes from	SFM, 90 day washout				
2016	4,337,848	4,337,848	55,308,607	12,277,979.5	78.43
	FBM, 90 day washout		, , , -, -	, , ,	
2016	4,341,485	4,341,485	55,304,172	12,276,116.0	78.50



Table 1e. Summary of Incident Hypertension Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year-Month

<u>2010-2016</u>						
		Number of Incident				Number of Incident Diagnoses / 1K Eligible
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
	les from an Alg	orithm, 183 day washout				
2010	October	724,941	724,941	49,441,391	4,076,849.0	14.66
	November	725,254	725,254	48,831,844	3,943,000.5	14.85
	December	686,393	686,393	49,982,147	4,090,489.0	14.85
2011	December	080,393	080,333	49,982,147	4,090,489.0	15.75
2011	January	707,340	707,340	46,838,557	3,843,699.8	15.10
	February	661,378	661,378	46,111,260	3,477,710.2	14.34
	March	755,501	755,501	46,396,444	3,862,046.7	16.28
	April	648,061	648,061	46,136,362	3,735,960.6	14.05
	May	622,403	622,403	45,780,369	3,833,722.1	13.60
	June	600,317	600,317	45,318,520	3,677,402.8	13.25
	July	542,092	542,092	48,715,773	4,061,828.4	11.13
	August	588,893	588,893	48,866,539	4,048,742.1	12.05
	September	559,535	559,535	47,822,865	3,883,280.6	11.70
	October	531,099	531,099	48,089,741	3,988,237.5	11.04
	November	487,339	487,339	47,275,161	3,842,615.6	10.31
	December	442,778	442,778	48,238,755	3,971,812.2	9.18
2012						
	January	439,643	439,643	44,872,263	3,708,488.6	9.80
	February	407,004	407,004	44,049,954	3,464,138.7	9.24
	March	394,023	394,023	43,970,467	3,691,007.4	8.96
	April	353,352	353,352	43,885,143	3,573,703.5	8.05
	May	346,534	346,534	43,663,363	3,673,547.3	7.94
	June	310,412	310,412	43,431,283	3,540,588.7	7.15
	July	324,872	324,872	46,490,513	3,902,534.5	6.99
	August	337,961	337,961	46,867,558	3,886,253.7	7.21
	September	305,715	305,715	45,985,763	3,746,633.1	6.65
	October	342,035	342,035	46,357,152	3,856,791.8	7.38
	November December	306,873 272,268	306,873 272,268	45,680,326 46,600,524	3,724,591.4	6.72 5.84
2013	December	272,200	272,200	40,000,324	3,854,995.3	5.64
2013	January	301,557	301,557	44,053,706	3,630,928.8	6.85
	February	259,564	259,564	43,330,405	3,298,801.9	5.99
	March	263,802	263,802	43,746,808	3,678,516.0	6.03
	April	270,604	270,604	43,616,879	3,556,361.6	6.20
	May	248,602	248,602	43,455,590	3,662,012.7	5.72
	June	219,262	219,262	43,109,645	3,519,632.8	5.09
	July	260,476	260,476	46,221,669	3,874,172.9	5.64
	August	262,447	262,447	46,426,611	3,864,758.7	5.65
	September	257,035	257,035	45,566,663	3,716,287.8	5.64
	October	285,285	285,285	45,943,226	3,827,274.9	6.21
	November	249,360	249,360	45,297,556	3,695,259.1	5.50
	December	236,670	236,670	46,279,544	3,822,670.5	5.11
2014						
	January	241,871	241,871	42,933,068	3,555,227.9	5.63
	February	214,318	214,318	42,240,173	3,218,122.6	5.07
	March	223,147	223,147	42,419,441	3,572,016.5	5.26
	April	220,116	220,116	42,386,150	3,457,183.9	5.19
	May	200,699	200,699	42,212,133	3,558,810.9	4.75
	June	192,946	192,946	42,168,480	3,442,187.3	4.58
	July	238,590	238,590	46,120,783	3,861,357.3	5.17
	August September	227,393 245,780	227,393 245,780	46,284,587	3,811,650.6	4.91 5.46
	September October	245,780 261,509	245,780 261,509	45,034,864 45,846,381	3,673,469.8 3,802,006.5	5.46
	November	201,309	222,335	45,167,977	3,685,601.0	4.92
	December	236,469	236,469	46,060,999	3,807,476.9	5.13
	2000.000			.0,000,000	0,007,470.0	0.10



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligib Members
2015		2.48.10000				
2015	January	222,444	222,444	43,014,064	3,560,943.9	5.17
	February	204,644	204,644	42,342,867	3,195,270.7	4.83
				, ,		
	March	229,378	229,378	42,487,675	3,573,460.6	5.40
	April	219,494	219,494	42,499,864	3,464,958.6	5.16
	May	192,282	192,282	42,393,770	3,574,026.9	4.54
	June	200,581	200,581	42,374,732	3,459,176.5	4.73
	July	230,503	230,503	46,056,802	3,858,035.8	5.00
	August	224,522	224,522	46,491,420	3,852,293.1	4.83
	September	237,378	237,378	45,638,510	3,723,181.8	5.20
	October	25	25	46,145,461	3,836,466.5	0.00
	November	17	17	45,451,195	3,707,912.0	0.00
	December	12	12	46,274,204	3,829,711.0	0.00
2016						
	January	9	9	42,677,792	3,538,615.5	0.00
	February	8	8	42,007,422	3,312,877.8	0.00
	March	5	5	42,277,728	3,544,876.1	0.00
	April	1	1	30,097,174	2,454,597.1	0.00
	May	2	2	14,723,229	1,243,711.5	0.00
	June	1	- 1	14,756,120	1,206,889.1	0.00
	July	1	1		404,428.2	0.00
				4,795,437		
	August	0	0	3,812,398	284,746.2	0.00
	des from SFM, 1	83 day washout				
2010						
	October	724,937	724,937	49,441,691	4,076,873.9	14.66
	November	725,261	725,261	48,832,137	3,943,024.8	14.85
	December	686,383	686,383	49,982,441	4,090,513.9	13.73
2011				- , ,	,	
2011	January	707,378	707,378	46,838,847	2 012 777 6	15.10
	•				3,843,722.6	
	February	661,403	661,403	46,111,515	3,477,728.6	14.34
	March	755,522	755,522	46,396,655	3,862,064.5	16.28
	April	648,076	648,076	46,136,544	3,735,975.1	14.05
	May	622,406	622,406	45,780,530	3,833,735.8	13.60
	June	600,327	600,327	45,318,672	3,677,414.8	13.25
	July	542,089	542,089	48,715,920	4,061,841.1	11.13
	August	588,891	588,891	48,866,681	4,048,754.4	12.05
	September	559,526	559,526	47,823,001	3,883,292.2	11.70
	October	531,084	531,084	48,089,873	3,988,249.4	11.04
	November	487,336	487,336	47,275,297	3,842,627.2	10.31
	December	442,767	442,767	48,238,891	3,971,824.3	9.18
2012						
	January	439,649	439,649	44,872,385	3,708,498.9	9.80
	February	406,996	406,996	44,050,060	3,464,147.9	9.24
	March	394,015	394,015			8.96
				43,970,581	3,691,017.4	
	April	353,342	353,342	43,885,259	3,573,713.7	8.05
	May	346,529	346,529	43,663,486	3,673,558.1	7.94
	June	310,409	310,409	43,431,408	3,540,599.0	7.15
	July	324,874	324,874	46,490,641	3,902,545.2	6.99
	August	337,958	337,958	46,867,672	3,886,263.8	7.21
	September	305,702	305,702	45,985,872	3,746,642.9	6.65
	October				3,856,802.4	7.38
		342,025	342,025	46,357,269		
	November	306,871	306,871	45,680,444	3,724,601.4	6.72
	December	272,265	272,265	46,600,639	3,855,005.1	5.84
2013						
	January	301,550	301,550	44,053,811	3,630,938.0	6.85
	February	259,552	259,552	43,330,516	3,298,810.6	5.99
	March	263,803	263,803	43,746,931	3,678,526.6	6.03
	April	270,601	270,601	43,617,002	3,556,371.8	6.20
	May	248,600	248,600	43,455,710	3,662,023.2	5.72
	June	219,260	219,260	43,109,768	3,519,642.8	5.09
	July	260,475	260,475	46,221,798	3,874,183.8	5.64
	August	262,446	262,446	46,426,735	3,864,769.4	5.65
	September	257,031	257,031	45,566,781	3,716,297.8	5.64
	October	285,284	285,284	45,943,347	3,827,285.1	6.21
	November	249,351	249,351	45,297,671	3,695,269.0	5.50
	December	236,671	236,671	46,279,667	3,822,680.8	5.11



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incide Diagnoses / 1K Elig Members
2014		Diagnoses	runner of plagnoses	Engine members	memori- i cais	Wielinders
	January	241,867	241,867	42,933,176	3,555,237.2	5.63
	February	214,318	214,318	42,240,279	3,218,130.9	5.07
	March	223,137	223,137	42,419,544	3,572,025.7	5.26
	April	220,114	220,114	42,386,261	3,457,193.3	5.19
	-					
	May	200,695	200,695	42,212,242	3,558,820.4	4.75
	June	192,937	192,937	42,168,588	3,442,196.5	4.58
	July	238,577	238,577	46,120,899	3,861,367.6	5.17
	August	227,392	227,392	46,284,713	3,811,661.2	4.91
	September	245,774	245,774	45,034,988	3,673,480.1	5.46
	October	261,503	261,503	45,846,506	3,802,017.6	5.70
	November	222,329	222,329	45,168,104	3,685,611.6	4.92
	December	236,465	236,465	46,061,131	3,807,488.3	5.13
2015	December	230,403	230,403	40,001,151	5,007,400.5	5.15
2015	lanuary	222,445	222 445	13 01/ 103	3 560 954 7	5.17
	January		222,445	43,014,193	3,560,954.7	
	February	204,641	204,641	42,342,994	3,195,280.5	4.83
	March	229,376	229,376	42,487,802	3,573,471.5	5.40
	April	219,491	219,491	42,499,991	3,464,969.1	5.16
	May	192,282	192,282	42,393,901	3,574,038.1	4.54
	June	200,576	200,576	42,374,860	3,459,187.2	4.73
	July	230,505	230,505	46,056,936	3,858,047.2	5.00
	-					
	August	224,519	224,519	46,491,546	3,852,304.0	4.83
	September	237,379	237,379	45,638,638	3,723,192.4	5.20
	October	25	25	46,145,646	3,836,508.9	0.00
	November	17	17	45,452,157	3,708,010.0	0.00
	December	12	12	46,275,877	3,829,865.9	0.00
2016	December				5,025,00515	0.00
2010	January	9	9	42,680,043	3,538,811.3	0.00
	•					
	February	8	8	42,010,279	3,313,110.7	0.00
	March	5	5	42,281,307	3,545,178.1	0.00
	April	1	1	30,099,988	2,454,838.3	0.00
	May	2	2	14,724,290	1,243,806.1	0.00
	June	1	1	14,757,196	1,206,982.7	0.00
	July	1	1	4,795,585	404,441.9	0.00
	August	0	0			0.00
	August			3,812,521	284,756.0	0.00
CM co	-		-			
	des from FBM, 1					
- <b>CM co</b> 2010	des from FBM, 1	83 day washout		40.444.004	4.076.072.0	11.55
	des from FBM, 1 October	83 day washout 724,937	724,937	49,441,691	4,076,873.9	14.66
	des from FBM, 1	83 day washout		49,441,691 48,832,137	4,076,873.9 3,943,024.8	14.66 14.85
	des from FBM, 1 October	83 day washout 724,937	724,937		, ,	
	des from FBM, 1 October November	83 day washout 724,937 725,261	724,937 725,261	48,832,137	3,943,024.8	14.85
2010	des from FBM, 1 October November	83 day washout 724,937 725,261	724,937 725,261	48,832,137	3,943,024.8	14.85
2010	des from FBM, 1 October November December January	83 day washout 724,937 725,261 686,383 707,378	724,937 725,261 686,383 707,378	48,832,137 49,982,441 46,838,847	3,943,024.8 4,090,513.9 3,843,722.6	14.85 13.73 15.10
2010	des from FBM, 1 October November December January February	83 day washout 724,937 725,261 686,383 707,378 661,403	724,937 725,261 686,383 707,378 661,403	48,832,137 49,982,441 46,838,847 46,111,515	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6	14.85 13.73 15.10 14.34
2010	des from FBM, 1 October November December January February March	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522	724,937 725,261 686,383 707,378 661,403 755,522	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5	14.85 13.73 15.10 14.34 16.28
2010	des from FBM, 1 October November December January February March April	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076	724,937 725,261 686,383 707,378 661,403 755,522 648,076	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1	14.85 13.73 15.10 14.34 16.28 14.05
2010	des from FBM, 1 October November December January February March April May	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8	14.85 13.73 15.10 14.34 16.28 14.05 13.60
2010	des from FBM, 1 October November December January February March April	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076	724,937 725,261 686,383 707,378 661,403 755,522 648,076	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1	14.85 13.73 15.10 14.34 16.28 14.05
2010	des from FBM, 1 October November December January February March April May	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8	14.85 13.73 15.10 14.34 16.28 14.05 13.60
2010	des from FBM, 1 October November December January February March April May June July	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13
2010	des from FBM, 1 October November December January February March April May June July August	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05
2010	des from FBM, 1 October November December January February March April May June June July August September	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70
2010	des from FBM, 1 October November December January February March April May June June July August September October	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04
2010	des from FBM, 1 October November December January February March April May June July August September October November	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31
2010	des from FBM, 1 October November December January February March April May June July August September October November December	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04
2010	des from FBM, 1 October November December January February March April May June July August September October November December	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 542,089 588,891 559,526 531,084 487,336	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31
2010	des from FBM, 1 October November December January February March April May June July August September October November December	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 542,089 588,891 559,526 531,084 487,336	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31
2010	des from FBM, 1 October November December January February March April May June July August September October November December	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March April	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7	$14.85 \\ 13.73 \\ 15.10 \\ 14.34 \\ 16.28 \\ 14.05 \\ 13.60 \\ 13.25 \\ 11.13 \\ 12.05 \\ 11.70 \\ 11.04 \\ 10.31 \\ 9.18 \\ 9.80 \\ 9.24 \\ 8.96 \\ 8.05 \\ 10.75 \\ 1$
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4	$\begin{array}{c} 14.85\\ 13.73\\ \\ 15.10\\ 14.34\\ 16.28\\ 14.05\\ 13.60\\ 13.25\\ 11.3\\ 12.05\\ 11.70\\ 11.04\\ 10.31\\ 9.18\\ \\ 9.80\\ 9.24\\ 8.96\end{array}$
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March April	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March April May June June June	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408 46,490,641	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0 3,902,545.2	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15 6.99
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408 46,490,641 46,867,672	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0 3,902,545.2 3,886,263.8	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15 6.99 7.21
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June June June June June June	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408 46,490,641 46,867,672 45,985,872	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0 3,902,545.2 3,886,263.8 3,746,642.9	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15 6.99 7.21 6.65
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June Juny September December January February March April May Sune June June June June June June June Cotober	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702 342,025	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702 342,025	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408 46,490,641 46,867,672 45,985,872 46,357,269	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0 3,902,545.2 3,886,263.8 3,746,642.9 3,856,802.4	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15 6.99 7.21 6.65 7.38
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June June June June June June	83 day washout 724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702	724,937 725,261 686,383 707,378 661,403 755,522 648,076 622,406 600,327 542,089 588,891 559,526 531,084 487,336 442,767 439,649 406,996 394,015 353,342 346,529 310,409 324,874 337,958 305,702	48,832,137 49,982,441 46,838,847 46,111,515 46,396,655 46,136,544 45,780,530 45,318,672 48,715,920 48,866,681 47,823,001 48,089,873 47,275,297 48,238,891 44,872,385 44,050,060 43,970,581 43,885,259 43,663,486 43,431,408 46,490,641 46,867,672 45,985,872	3,943,024.8 4,090,513.9 3,843,722.6 3,477,728.6 3,862,064.5 3,735,975.1 3,833,735.8 3,677,414.8 4,061,841.1 4,048,754.4 3,883,292.2 3,988,249.4 3,842,627.2 3,971,824.3 3,708,498.9 3,464,147.9 3,691,017.4 3,573,713.7 3,673,558.1 3,540,599.0 3,902,545.2 3,886,263.8 3,746,642.9	14.85 13.73 15.10 14.34 16.28 14.05 13.60 13.25 11.13 12.05 11.70 11.04 10.31 9.18 9.80 9.24 8.96 8.05 7.94 7.15 6.99 7.21 6.65



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligik Members
2013		Diagnoses	Number of Blaghoses	Englane memoers	Member Tears	members
	January	301,550	301,550	44,053,811	3,630,938.0	6.85
	February	259,552	259,552	43,330,516	3,298,810.6	5.99
	March	263,803	263,803	43,746,931	3,678,526.6	6.03
	April	270,601	270,601	43,617,002	3,556,371.8	6.20
	-	248,600	248,600	43,455,710		5.72
	May				3,662,023.2	
	June	219,260	219,260	43,109,768	3,519,642.8	5.09
	July	260,475	260,475	46,221,798	3,874,183.8	5.64
	August	262,446	262,446	46,426,735	3,864,769.4	5.65
	September	257,031	257,031	45,566,781	3,716,297.8	5.64
	October	285,284	285,284	45,943,347	3,827,285.1	6.21
	November	249,351	249,351	45,297,671	3,695,269.0	5.50
	December	236,671	236,671	46,279,667	3,822,680.8	5.11
2014		,	·			
	January	241,867	241,867	42,933,176	3,555,237.2	5.63
	February			42,240,279		5.07
		214,318	214,318		3,218,130.9	
	March	223,137	223,137	42,419,544	3,572,025.6	5.26
	April	220,114	220,114	42,386,260	3,457,193.2	5.19
	May	200,695	200,695	42,212,241	3,558,820.3	4.75
	June	192,937	192,937	42,168,588	3,442,196.5	4.58
	July	238,577	238,577	46,120,899	3,861,367.6	5.17
	August	227,392	227,392	46,284,713	3,811,661.2	4.91
	September	245,774	245,774	45,034,988	3,673,480.1	5.46
	October	261,503	261,503	45,846,506	3,802,017.6	5.70
					, ,	
	November	222,329	222,329	45,168,104	3,685,611.6	4.92
	December	236,465	236,465	46,061,131	3,807,488.3	5.13
2015						
	January	222,445	222,445	43,014,193	3,560,954.7	5.17
	February	204,641	204,641	42,342,994	3,195,280.5	4.83
	March	229,376	229,376	42,487,802	3,573,471.5	5.40
	April	219,491	219,491	42,499,991	3,464,969.1	5.16
	May	192,282	192,282	42,393,901	3,574,038.1	4.54
	June	200,576		42,374,860		4.73
			200,576		3,459,187.2	
	July	230,505	230,505	46,056,936	3,858,047.2	5.00
	August	224,519	224,519	46,491,546	3,852,304.0	4.83
	September	237,379	237,379	45,638,637	3,723,192.2	5.20
	October	25	25	46,145,586	3,836,477.0	0.00
	November	17	17	45,451,315	3,707,921.6	0.00
	December	12	12	46,274,314	3,829,720.4	0.00
2016						
	January	9	9	42,677,890	3,538,623.9	0.00
	-			, ,		
	February	8	8	42,007,514	3,312,884.9	0.00
	March	5	5	42,277,818	3,544,883.4	0.00
	April	1	1	30,097,222	2,454,600.9	0.00
	May	2	2	14,723,266	1,243,714.4	0.00
	June	1	1	14,756,151	1,206,891.5	0.00
	July	1	1	4,795,440	404,428.4	0.00
	August	0	0	3,812,397	284,746.2	0.00
10-CM co		orithm, 183 day washou		. ,	,	
2010		,,,				
2010	October	0	0	10 111 201	1 076 940 0	0.00
	October		0	49,441,391	4,076,849.0	
	November	1	1	48,831,844	3,943,000.5	0.00
	December	0	0	49,982,147	4,090,489.0	0.00
2011						
	January	0	0	46,838,557	3,843,699.8	0.00
	February	1	1	46,111,260	3,477,710.2	0.00
	March	1	1	46,396,444	3,862,046.7	0.00
	April	1	1	46,407,886	3,745,499.6	0.00
	-					
	May	1	1	46,336,384	3,867,132.6	0.00
	Lucia a	1	1	46,152,083	3,730,796.3	0.00
	June					0.00
	June July	0	0	49,830,089	4,136,162.9	0.00
			0 1	49,830,089 50,281,726	4,136,162.9 4,146,321.6	0.00
	July	0				
	July August	0 1 0	1 0	50,281,726 49,563,520	4,146,321.6 4,001,825.2	0.00 0.00
	July August September	0 1	1	50,281,726	4,146,321.6	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incide Diagnoses / 1K Elig Members
2012		Ŭ	0	0		
	January	0	0	47,429,479	3,895,043.7	0.00
	February	1	1	46,751,516	3,650,174.7	0.00
	, March	5	5	46,841,130	3,899,973.4	0.00
	April	1	1	46,918,499	3,789,281.7	0.00
	-	0	0			0.00
	May			46,847,217	3,908,688.5	
	June	3	3	46,733,003	3,779,120.4	0.00
	July	1	1	49,889,347	4,156,226.4	0.00
	August	4	4	50,478,949	4,153,664.3	0.00
	September	3	3	49,770,648	4,019,042.4	0.00
	October	0	0	50,294,347	4,148,248.7	0.00
	November	3	3	49,705,094	4,017,061.6	0.00
	December	1	1	50,750,065	4,165,734.2	0.00
2013	December	1	Ŧ	30,730,005	4,105,754.2	0.00
2015	1	2	2	40,000,007	2 022 645 2	0.00
	January	3	3	48,089,237	3,932,615.2	0.00
	February	2	2	47,369,336	3,575,632.7	0.00
	March	5	5	47,909,342	3,989,838.7	0.00
	April	3	3	47,852,464	3,864,615.4	0.00
	May	3	3	47,748,221	3,985,880.5	0.00
	June	2	2	47,446,051	3,839,234.7	0.00
	July	3	3	50,617,210	4,206,668.5	0.00
	August	1	1	50,954,240	4,206,001.2	0.00
	0					
	September	1	1	50,196,553	4,055,579.9	0.00
	October	4	4	50,703,510	4,183,913.3	0.00
	November	7	7	50,077,616	4,045,604.7	0.00
	December	6	6	51,132,130	4,190,636.0	0.00
2014						
	January	9	9	47,524,244	3,902,544.2	0.00
	February	7	7	46,819,409	3,534,865.1	0.00
	March	7	7	47,075,823	3,924,981.6	0.00
	April	6	6	47,097,627	3,802,739.5	0.00
	May	9	9	46,995,024	3,921,371.5	0.00
	June	10	10	46,945,165	3,796,936.9	0.00
	July	9	9	50,943,630	4,228,950.3	0.00
	August	11	11	51,192,860	4,182,202.7	0.00
	September	11	11	50,010,150	4,040,217.9	0.00
	October	8	8	50,941,184	4,186,894.4	0.00
	November	10	10	50,277,471	4,062,760.6	0.00
	December	10				0.00
2015	December	10	10	51,264,460	4,202,633.2	0.00
2015						
	January	44	44	47,983,206	3,938,905.9	0.00
	February	22	22	47,294,047	3,532,426.6	0.00
	March	35	35	47,402,866	3,948,488.5	0.00
	April	32	32	47,461,231	3,830,873.3	0.00
	May	55	55	47,379,334	3,955,583.8	0.00
	June	61	61	47,350,230	3,830,307.2	0.00
	July	129	129	51,084,240	4,242,869.5	0.00
	August	341	341	51,599,504	4,243,771.6	0.01
	September	3,950	3,950	50,857,942	4,109,005.9	0.08
	October	790,486	790,486	51,488,391	4,240,842.5	15.35
	November	737,208	737,208	50,796,230	4,103,195.7	14.51
	December	738,882	738,882	51,694,236	4,241,815.6	14.29
2016			,,	,00.,_00	.,= .1,010.0	17.25
2010	lanuary	711 714	711 71/	17 011 200	2 020 142 0	14.88
	January	711,714	711,714	47,814,200	3,929,442.8	
	February	721,371	721,371	47,127,320	3,679,086.2	15.31
	March	743,236	743,236	47,422,964	3,934,375.9	15.67
	April	519,934	519,934	33,771,946	2,736,275.9	15.40
	May	204,110	204,110	16,191,261	1,360,711.4	12.61
	June	196,363	196,363	16,102,504	1,311,211.7	12.19
	July	53,918	53,918	5,201,743	436,344.0	10.37
	-	34,928	34,928	4,095,756	304,567.6	8.53
0.014	August		34,920	4,053,730	304,307.0	6.35
	paes from SFM,	183 day washout				
2010						
	October	0	0	49,441,691	4,076,873.9	0.00
	March and a second	1	1	40 022 127	2 0 4 2 0 2 4 0	0.00
	November	1	1	48,832,137	3,943,024.8	0.00



		Number of Incident				Number of Incider Diagnoses / 1K Eligi
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2011						
	January	0	0	46,838,847	3,843,722.6	0.00
	February	1	1	46,111,515	3,477,728.6	0.00
	March	1	1	46,396,655	3,862,064.5	0.00
	April	1	1	46,408,057	3,745,513.7	0.00
	May	1	1	46,336,523	3,867,144.8	0.00
	June	1	1	46,152,199	3,730,805.8	0.00
	July	0	0	49,830,207	4,136,172.9	0.00
	August	1	1	50,281,833	4,146,331.1	0.00
	September	0	0	49,563,627	4,001,834.3	0.00
	October	0	0	50,133,132	4,133,260.5	0.00
	November	1	1	49,550,120	4,001,940.7	0.00
	December	0	0	50,768,167	4,153,725.6	0.00
2012	Dettermen	C C	C C	56,7 56,267	1/200//2010	0.00
2012	lanuary	0	0	47 420 559	2 805 050 2	0.00
	January			47,429,558	3,895,050.2	
	February	1	1	46,751,588	3,650,180.6	0.00
	March	5	5	46,841,203	3,899,979.9	0.00
	April	1	1	46,918,570	3,789,288.1	0.00
	May	0	0	46,847,297	3,908,695.1	0.00
	June	3	3	46,733,075	3,779,126.6	0.00
	July	1	1	49,889,427	4,156,232.5	0.00
	August	4	4	50,479,009	4,153,670.1	0.00
	September	3	3	49,770,701	4,019,047.2	0.00
	October	0	0	50,294,406	4,148,254.2	0.00
	November	3	3	49,705,163	4,017,067.0	0.00
	December	1	1	50,750,125	4,165,739.4	0.00
2013						
	January	3	3	48,089,291	3,932,620.2	0.00
	February	2	2	47,369,405	3,575,638.1	0.00
	,					
	March	5	5	47,909,417	3,989,845.2	0.00
	April	3	3	47,852,536	3,864,621.3	0.00
	May	3	3	47,748,287	3,985,886.2	0.00
	June	2	2	47,446,115	3,839,239.8	0.00
	July	3	3	50,617,278	4,206,674.2	0.00
	August	1	1	50,954,295	4,206,006.4	0.00
	September	1	1	50,196,600	4,055,584.2	0.00
	October	4	4	50,703,555	4,183,917.3	0.00
	November	7	7	50,077,656	4,045,608.4	0.00
	December	6	6	51,132,176	4,190,639.8	0.00
2014						
	January	9	9	47,524,283	3,902,547.4	0.00
	February	7	7	46,819,442	3,534,867.8	0.00
	March	6	6	47,075,856	3,924,984.5	0.00
	April	6	6	47,097,668	3,802,743.0	0.00
	May	9	9	46,995,062	3,921,375.0	0.00
	June	10	10	46,945,202	3,796,940.2	0.00
	July	9	9	50,943,665	4,228,954.0	0.00
	August	11	11	51,192,909	4,182,206.7	0.00
	September	11	11	50,010,194	4,040,221.7	0.00
	October	8	8	50,941,233	4,186,898.7	0.00
	November	10	10	50,277,521	4,062,764.9	0.00
	December	10	10	51,264,510	4,202,637.9	0.00
2015	December	10	TO	51,204,310	7,202,037.3	0.00
2013	lanuani	A A	A A	17 002 250	2 0 20 0 10 2	0.00
	January	44	44	47,983,256	3,938,910.2	0.00
	February	22	22	47,294,092	3,532,430.3	0.00
	March	35	35	47,402,906	3,948,492.0	0.00
	April	32	32	47,461,267	3,830,876.1	0.00
	May	55	55	47,379,361	3,955,586.6	0.00
	June	61	61	47,350,260	3,830,309.7	0.00
	July	129	129	51,084,272	4,242,872.2	0.00
	August	340	340	51,599,534	4,243,774.3	0.01
	September	3,939	3,939	50,857,971	4,109,008.1	0.08
	October	789,000	789,000	51,488,616	4,240,914.6	15.32
	Mauanahan	726 129	700 100	FO 700 200	4 102 200 0	14.40
	November	736,138	736,138	50,798,280	4,103,396.0	14.49



		Number of Incident				Number of Incider Diagnoses / 1K Eligi
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2016						
	January	710,949	710,949	47,819,379	3,929,875.6	14.87
	February	720,759	720,759	47,134,101	3,679,611.7	15.29
	March	742,685	742,685	47,431,781	3,935,081.3	15.66
	April	519,833	519,833	33,779,171	2,736,869.0	15.39
	May	203,973	203,973	16,193,998	1,360,948.2	12.60
	June	196,292	196,292	16,105,367	1,311,449.7	12.19
	July	53,909	53,909	5,202,304	436,392.6	10.36
	-					
	August	34,923	34,923	4,096,207	304,605.4	8.53
2010	des from FBM, 3	183 day washout				
2010	October	0	0	49,441,691	4,076,873.9	0.00
	November	1				
			1	48,832,137	3,943,024.8	0.00
	December	0	0	49,982,441	4,090,513.9	0.00
2011						
	January	0	0	46,838,847	3,843,722.6	0.00
	February	1	1	46,111,515	3,477,728.6	0.00
	March	1	1	46,396,655	3,862,064.5	0.00
	April	1	1	46,408,057	3,745,513.7	0.00
	May	1	1	46,336,523	3,867,144.8	0.00
	-					
	June	1	1	46,152,199	3,730,805.8	0.00
	July	0	0	49,830,207	4,136,172.9	0.00
	August	1	1	50,281,833	4,146,331.1	0.00
	September	0	0	49,563,627	4,001,834.3	0.00
	October	0	0	50,133,132	4,133,260.5	0.00
	November	1	1	49,550,120	4,001,940.7	0.00
	December	0	0	50,768,167	4,153,725.6	0.00
2012	December	0	0	30,708,107	4,133,723.0	0.00
2012	lanuany	0	0	47 420 559	2 805 050 2	0.00
	January			47,429,558	3,895,050.2	
	February	1	1	46,751,588	3,650,180.6	0.00
	March	5	5	46,841,203	3,899,979.9	0.00
	April	1	1	46,918,570	3,789,288.1	0.00
	May	0	0	46,847,297	3,908,695.1	0.00
	June	3	3	46,733,075	3,779,126.6	0.00
	July	1	1	49,889,427	4,156,232.5	0.00
	August	4	4	50,479,009	4,153,670.1	0.00
	-					
	September	3	3	49,770,701	4,019,047.2	0.00
	October	0	0	50,294,406	4,148,254.2	0.00
	November	3	3	49,705,163	4,017,067.0	0.00
	December	1	1	50,750,125	4,165,739.4	0.00
2013						
	January	3	3	48,089,291	3,932,620.2	0.00
	February	2	2	47,369,405	3,575,638.1	0.00
	March	5	5	47,909,417	3,989,845.2	0.00
	April	3	3	47,852,536	3,864,621.3	0.00
	-					
	May	3	3	47,748,287	3,985,886.2	0.00
	June	2	2	47,446,115	3,839,239.8	0.00
	July	3	3	50,617,278	4,206,674.2	0.00
	August	1	1	50,954,295	4,206,006.4	0.00
	September	1	1	50,196,600	4,055,584.2	0.00
	October	4	4	50,703,555	4,183,917.3	0.00
	November	7	7	50,077,656	4,045,608.4	0.00
	December	6	6			0.00
2014	December	σ	υ	51,132,176	4,190,639.8	0.00
2014	lanuary	0	0	17 534 303	2 002 547 4	0.00
	January	9	9	47,524,283	3,902,547.4	0.00
	February	7	7	46,819,442	3,534,867.8	0.00
	March	7	7	47,075,856	3,924,984.4	0.00
	April	6	6	47,097,667	3,802,742.9	0.00
	May	9	9	46,995,061	3,921,374.9	0.00
	June	10	10	46,945,201	3,796,940.1	0.00
	July	9	9	50,943,664	4,228,953.9	0.00
	-					
	August	11	11	51,192,908	4,182,206.6	0.00
	September	11	11	50,010,193	4,040,221.6	0.00
	October	8	8	50,941,233	4,186,898.7	0.00
	November	10	10	50,277,521	4,062,764.9	0.00



		Number of Incident				Number of Inciden Diagnoses / 1K Eligil
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2015						
	January	44	44	47,983,256	3,938,910.2	0.00
	February	22	22	47,294,092	3,532,430.3	0.00
	March	35	35	47,402,905	3,948,492.0	0.00
	April	32	32	47,461,266	3,830,876.0	0.00
	May	55	55	47,379,361	3,955,586.6	0.00
	June	61	61	47,350,260	3,830,309.7	0.00
	July	129	129	51,084,272	4,242,872.2	0.00
	-					
	August	341	341	51,599,534	4,243,774.2	0.01
	September	3,950	3,950	50,857,970	4,109,008.0	0.08
	October	790,492	790,492	51,488,418	4,240,844.6	15.35
	November	737,217	737,217	50,796,250	4,103,196.9	14.51
	December	738,886	738,886	51,694,243	4,241,816.0	14.29
2016						
	January	711,717	711,717	47,814,199	3,929,443.1	14.89
	February	721,377	721,377	47,127,314	3,679,085.5	15.31
	March	743,244	743,244	47,422,949	3,934,374.5	15.67
	April	519,939	519,939	33,771,928	2,736,274.1	15.40
		204,114	204,114			12.61
	May		,	16,191,246	1,360,710.0	
	June	196,365	196,365	16,102,485	1,311,210.1	12.19
	July	53,918	53,918	5,201,743	436,344.0	10.37
	August	34,928	34,928	4,095,755	304,567.6	8.53
	les from an Algo	orithm, 0 day washout				
2010	October	2 705 216	2 651 640	57 716 152	1 921 621 7	46.87
		2,705,216	3,651,649	57,716,153	4,834,624.7	
	November	2,665,854	3,598,049	57,083,139	4,676,871.8	46.70
2011	December	2,600,861	3,515,983	58,361,401	4,851,164.3	44.56
2011	1	2 550 244	2 469 465	F 4 700 2FF	4 550 000 0	46.62
	January	2,550,341	3,468,465	54,708,355	4,559,066.6	46.62
	February	2,459,502	3,310,155	54,004,537	4,128,109.5	45.54
	March	2,816,993	3,895,277	54,304,661	4,589,505.2	51.87
	April	2,571,730	3,486,140	54,376,438	4,451,813.2	47.29
	May	2,593,406	3,522,638	54,345,382	4,596,809.0	47.72
	June	2,625,092	3,567,409	54,180,080	4,437,454.8	48.45
	July	2,559,060	3,454,452	58,516,097	4,922,622.7	43.73
						47.52
	August	2,801,464	3,840,071	58,949,591	4,934,256.4	
	September	2,741,140	3,716,935	58,085,767	4,756,913.3	47.19
	October	2,802,577	3,798,153	58,676,595	4,912,248.5	47.76
	November	2,747,942	3,714,917	58,078,196	4,756,987.5	47.31
	December	2,696,274	3,654,911	59,388,173	4,936,750.4	45.40
2012						
	January	2,701,487	3,710,619	55,530,223	4,630,251.0	48.65
	February	2,647,095	3,604,239	54,876,327	4,343,731.8	48.24
	March	2,771,095	3,808,897	54,975,889	4,646,212.7	50.41
	April	2,659,723	3,607,851	55,096,138	4,512,914.6	48.27
	May	2,737,579	3,757,782	55,049,184	4,658,029.6	49.73
	-		3,533,714	54,978,230		
	June	2,604,132	, ,	, ,	4,504,350.2	47.37
	July	2,705,091	3,689,618	58,694,936	4,954,101.6	46.09
	August	2,839,243	3,912,485	59,224,748	4,948,556.2	47.94
	September	2,647,613	3,577,398	58,386,075	4,782,162.8	45.35
	October	2,972,388	4,088,718	58,911,806	4,936,312.3	50.45
	November	2,788,536	3,792,285	58,315,915	4,778,740.5	47.82
	December	2,618,784	3,557,337	59,471,414	4,955,666.4	44.03
2013		·			•	
	January	2,789,409	3,882,447	56,197,731	4,670,823.4	49.64
	February	2,554,999	3,494,385	55,542,762	4,246,777.7	46.00
	March	2,696,210	3,734,684	56,138,854	4,744,073.1	48.03
	April	2,851,691	3,996,748	56,104,107	4,595,653.8	50.83
	-					
	May	2,769,588	3,880,435	56,057,246	4,744,239.6	49.41
	June	2,568,714	3,538,293	55,778,760	4,571,072.3	46.05
	July	2,844,604	3,975,943	59,556,573	5,016,305.0	47.76
	August	2,850,079	3,982,777	59,876,675	5,015,940.4	47.60
	September	2,801,061	3,866,847	59,000,407	4,833,576.6	47.48
	October	3,095,827	4,346,018	59,493,519	4,988,077.6	52.04
	November	2,771,144	3,822,868	58,886,507		47.06
	NOVEMBEL	2.771.144	3 X / / XhX	<u>אר אר אר</u>	4,825,393.1	47.06
	December	2,764,471	3,843,096	60,055,310	4,997,010.4	46.03

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						Number of Incident
		Number of Incident				Diagnoses / 1K Eligible
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2014						
	January	2,720,780	3,820,382	55,701,673	4,645,703.0	48.85
	February	2,545,372	3,525,918	55,017,049	4,207,098.7	46.27
	March	2,736,263	3,845,031	55,271,800	4,673,920.9	49.51
	April	2,787,016	3,921,177	55,288,350	4,527,701.2	50.41
	May	2,676,484	3,771,627	55,167,407	4,668,733.3	48.52
	June	2,637,212	3,690,944	55,203,751	4,521,918.7	47.77
	July	2,885,532	4,085,315	60,017,841	5,048,903.4	48.08
	-			60,258,780		45.66
	August	2,751,464	3,877,568		4,995,827.3	
	September	2,892,130	4,077,746	58,851,445	4,821,953.3	49.14
	October	3,068,861	4,358,908	59,811,527	4,994,616.9	51.31
	November	2,661,780	3,691,352	59,123,837	4,845,527.4	45.02
	December	2,869,516	4,059,165	60,149,691	5,009,350.1	47.71
2015						
	January	2,679,308	3,788,814	56,110,525	4,678,415.9	47.75
	February	2,506,756	3,513,798	55,431,573	4,198,556.6	45.22
	March	2,856,737	4,074,785	55,562,529	4,693,730.3	51.41
	April	2,840,361	4,036,269	55,654,716	4,555,384.6	51.04
	May	2,639,473	3,734,454	55,625,323	4,706,910.3	47.45
	-					
	June	2,774,628	3,946,867	55,657,221	4,559,569.0	49.85
	July	2,897,588	4,137,767	60,121,043	5,059,633.5	48.20
	August	2,823,020	3,992,538	60,711,514	5,062,973.3	46.50
	September	2,914,101	4,061,750	59,802,370	4,899,634.6	48.73
	October	1,218	2,326	60,415,951	5,056,566.0	0.02
	November	468	715	59,733,371	4,894,566.1	0.01
	December	268	435	60,716,875	5,061,375.7	0.00
2016						
	January	207	282	56,184,879	4,690,539.7	0.00
	February	176	222	55,510,698		0.00
					4,396,218.4	
	March	123	126	55,892,627	4,707,486.7	0.00
	April	89	89	40,838,247	3,348,128.0	0.00
	May	89	90	18,931,915	1,605,398.3	0.00
	June	92	94	18,953,391	1,556,068.3	0.00
	July	69	69	6,080,161	514,545.9	0.01
	August	51	51	4,828,490	361,293.6	0.01
M cod	les from SFM ar	nd FBM, 0 day washout				
2010						
	October	2,705,076	3,651,413	57,716,153	4,834,624.7	46.87
	November	2,665,686	3,597,826	57,083,139	4,676,871.8	46.70
	December			58,361,401	4,851,164.3	44.56
		2,600,711	3,515,778			
2011		2,600,711	3,515,778			44.50
2011				5/ 708 355	4 559 066 6	
2011	January	2,550,294	3,468,382	54,708,355	4,559,066.6	46.62
2011	January February	2,550,294 2,459,443	3,468,382 3,310,067	54,004,537	4,128,109.5	46.62 45.54
2011	January February March	2,550,294 2,459,443 2,816,938	3,468,382 3,310,067 3,895,193	54,004,537 54,304,661	4,128,109.5 4,589,505.2	46.62 45.54 51.87
2011	January February March April	2,550,294 2,459,443 2,816,938 2,571,681	3,468,382 3,310,067 3,895,193 3,486,019	54,004,537 54,304,661 54,376,438	4,128,109.5 4,589,505.2 4,451,813.2	46.62 45.54 51.87 47.29
2011	January February March	2,550,294 2,459,443 2,816,938	3,468,382 3,310,067 3,895,193	54,004,537 54,304,661	4,128,109.5 4,589,505.2	46.62 45.54 51.87
2011	January February March April	2,550,294 2,459,443 2,816,938 2,571,681	3,468,382 3,310,067 3,895,193 3,486,019	54,004,537 54,304,661 54,376,438	4,128,109.5 4,589,505.2 4,451,813.2	46.62 45.54 51.87 47.29
2011	January February March April May	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497	54,004,537 54,304,661 54,376,438 54,345,382	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0	46.62 45.54 51.87 47.29 47.72
2011	January February March April May June July	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7	46.62 45.54 51.87 47.29 47.72 48.45 43.73
2011	January February March April May June July August	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52
2011	January February March April May June July August September	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19
2011	January February March April May June July August September October	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76
2011	January February March April May June July August September October November	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31
	January February March April May June July August September October	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76
	January February March April May June July August September October November December	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40
	January February March April May June July August September October November December January	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65
	January February March April May June July August September October November December	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40
	January February March April May June July August September October November December January	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65
	January February March April May June July August September October November December January February March	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40
	January February March April May June July August September October November December January February March April	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27
	January February March April May June July August September October November December January February March April May	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73
	January February March April May June July August September October November December January February March April May June	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37
	January February March April May June July August September October November December January February March April May June July	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097 2,705,059	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659 3,689,563	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230 58,694,936	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2 4,954,101.6	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37 46.09
	January February March April May June July August September October November December January February March April May June July August	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097 2,705,059 2,839,214	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659 3,689,563 3,912,416	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230 58,694,936 59,224,748	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2 4,954,101.6 4,948,556.2	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37 46.09 47.94
	January February March April May June July August September October November December January February March April May June July	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097 2,705,059	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659 3,689,563	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230 58,694,936	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2 4,954,101.6	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37 46.09
	January February March April May June July August September October November December January February March April May June July August	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097 2,705,059 2,839,214	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659 3,689,563 3,912,416	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230 58,694,936 59,224,748	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2 4,954,101.6 4,948,556.2	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37 46.09 47.94
2011	January February March April May June July August September October November December January February March April May June July August September	2,550,294 2,459,443 2,816,938 2,571,681 2,593,344 2,625,045 2,559,024 2,801,418 2,741,095 2,802,529 2,747,915 2,696,232 2,701,455 2,647,054 2,771,056 2,659,687 2,737,560 2,604,097 2,705,059 2,839,214 2,647,573	3,468,382 3,310,067 3,895,193 3,486,019 3,522,497 3,567,313 3,454,376 3,839,961 3,716,858 3,798,047 3,714,852 3,654,802 3,710,512 3,604,135 3,808,829 3,607,790 3,757,740 3,533,659 3,689,563 3,912,416 3,577,318	54,004,537 54,304,661 54,376,438 54,345,382 54,180,080 58,516,097 58,949,591 58,085,767 58,676,595 58,078,196 59,388,173 55,530,223 54,876,327 54,975,889 55,096,138 55,049,184 54,978,230 58,694,936 59,224,748 58,386,075	4,128,109.5 4,589,505.2 4,451,813.2 4,596,809.0 4,437,454.8 4,922,622.7 4,934,256.4 4,756,913.3 4,912,248.5 4,756,987.5 4,936,750.4 4,630,251.0 4,343,731.8 4,646,212.7 4,512,914.6 4,658,029.6 4,504,350.2 4,954,101.6 4,948,556.2 4,782,162.8	46.62 45.54 51.87 47.29 47.72 48.45 43.73 47.52 47.19 47.76 47.31 45.40 48.65 48.24 50.40 48.27 49.73 47.37 46.09 47.94 45.35



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligil Members
2013		2.08.0000				
	January	2,789,376	3,882,357	56,197,731	4,670,823.4	49.64
	February	2,554,961	3,494,289	55,542,762	4,246,777.7	46.00
	March	2,696,180	3,734,603	56,138,854	4,744,073.1	48.03
	April	2,851,663	3,996,676	56,104,107	4,595,653.8	50.83
	May	2,769,568	3,880,379	56,057,246	4,744,239.6	49.41
	June	2,568,687	3,538,182	55,778,760	4,571,072.3	46.05
	July	2,844,591	3,975,869	59,556,573	5,016,305.0	47.76
	August	2,850,052	3,982,716	59,876,675	5,015,940.4	47.60
	September	2,801,044	3,866,790	59,000,407	4,833,576.6	47.47
	October	3,095,812	4,345,954	59,493,519	4,988,077.6	52.04
	November	2,771,121	3,822,823	58,886,507	4,825,393.1	47.06
						46.03
2014	December	2,764,459	3,843,058	60,055,310	4,997,010.4	46.03
	January	2,720,758	3,820,344	55,701,673	4,645,703.0	48.85
	February	2,545,354	3,525,896	55,017,049	4,207,098.7	46.26
	March	2,736,245	3,845,002	55,271,800	4,673,920.9	49.51
	April	2,786,992	3,921,140	55,288,350	4,527,701.2	50.41
	May	2,676,472	3,771,609	55,167,407	4,668,733.3	48.52
	June	2,637,191	3,690,911	55,203,751	4,521,918.7	47.77
	July	2,885,507	4,085,277	60,017,841	5,048,903.4	48.08
	-	2,751,451	3,877,540	60,258,780	4,995,827.3	45.66
	August					
	September	2,892,108	4,077,693	58,851,445	4,821,953.3	49.14
	October	3,068,844	4,358,876	59,811,527	4,994,616.9	51.31
	November	2,661,759	3,691,303	59,123,837	4,845,527.4	45.02
2015	December	2,869,499	4,059,132	60,149,691	5,009,350.1	47.71
2015	January	2,679,293	3,788,780	56,110,525	4,678,415.9	47.75
	February	2,506,739	3,513,763	55,431,573	4,198,556.6	45.22
	March	2,856,718	4,074,752	55,562,529	4,693,730.3	51.41
	April	2,840,350	4,036,239	55,654,716	4,555,384.6	51.04
		2,639,459	3,734,429	55,625,323	4,706,910.3	47.45
	May					
	June	2,774,614	3,946,836	55,657,221	4,559,569.0	49.85
	July	2,897,577	4,137,732	60,121,043	5,059,633.5	48.20
	August	2,823,001	3,992,506	60,711,514	5,062,973.3	46.50
	September	2,914,091	4,061,730	59,802,370	4,899,634.6	48.73
	October	1,218	2,326	60,415,951	5,056,566.0	0.02
	November	468	715	59,733,371	4,894,566.1	0.01
	December	268	435	60,716,875	5,061,375.7	0.00
2016	January	207	282	56,184,879	4,690,539.7	0.00
	-					
	February	176	222	55,510,698	4,396,218.4	0.00
	March	123	126	55,892,627	4,707,486.7	0.00
	April	89	89	40,838,247	3,348,128.0	0.00
	May	89	90	18,931,915	1,605,398.3	0.00
	June	92	94	18,953,391	1,556,068.3	0.00
	July	69	69	6,080,161	514,545.9	0.01
	August	51 orithm, 0 day washout	51	4,828,490	361,293.6	0.01
2010	des from an Alg	orithm, 0 day washout				
	October	3	3	57,716,153	4,834,624.7	0.00
	November	5	5	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011						
	January	3	3	54,708,355	4,559,066.6	0.00
	February	7	7	54,004,537	4,128,109.5	0.00
	March	2	2	54,304,661	4,589,505.2	0.00
	April	4	4	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	9	9	54,180,080	4,437,454.8	0.00
	July	8	8	58,516,097	4,922,622.7	0.00
	August	5	5	58,949,591	4,934,256.4	0.00
	September	13	13	58,085,767	4,756,913.3	0.00
	-	7	7	58,676,595	4,912,248.5	0.00
	October					
	November	13	13	58,078,196	4,756,987.5	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incide Diagnoses / 1K Elig Members
2012						
	January	5	5	55,530,223	4,630,251.0	0.00
	February	9	9	54,876,327	4,343,731.8	0.00
	March	15	15	54,975,889	4,646,212.7	0.00
	April	13	13	55,096,138	4,512,914.6	0.00
	May	18	18	55,049,184	4,658,029.6	0.00
	June	10	10	54,978,230	4,504,350.2	0.00
	July	21	21	58,694,936	4,954,101.6	0.00
	August	17	17	59,224,748	4,948,556.2	0.00
	September	10	10	58,386,075	4,782,162.8	0.00
	October	17	17	58,911,806	4,936,312.3	0.00
	November	20	20	58,315,915	4,778,740.5	0.00
	December	14	14	59,471,414	4,955,666.4	0.00
2013						
	January	31	31	56,197,731	4,670,823.4	0.00
	February	22	22	55,542,762	4,246,777.7	0.00
	March	34	34	56,138,854	4,744,073.1	0.00
	April	35	35	56,104,107	4,595,653.8	0.00
	May	25	26	56,057,246	4,744,239.6	0.00
	June	22	22	55,778,760	4,571,072.3	0.00
	July	30	30	59,556,573	5,016,305.0	0.00
	August	23	23	59,876,675	5,015,940.4	0.00
	September	35	35	59,000,407	4,833,576.6	0.00
	October	37	37	59,493,519	4,988,077.6	0.00
	November	50	50	58,886,507	4,825,393.1	0.00
	December	57	58	60,055,310	4,997,010.4	0.00
2014						
	January	63	63	55,701,673	4,645,703.0	0.00
	February	66	68	55,017,049	4,207,098.7	0.00
	March	62	65	55,271,800	4,673,920.9	0.00
	April	62	66	55,288,350	4,527,701.2	0.00
	May	83	89	55,167,407	4,668,733.3	0.00
	June	84	87	55,203,751	4,521,918.7	0.00
	July	100	100	60,017,841	5,048,903.4	0.00
	August	122	124	60,258,780	4,995,827.3	0.00
	September	131	139	58,851,445	4,821,953.3	0.00
	October	140	140	59,811,527	4,994,616.9	0.00
	November	132	133	59,123,837	4,845,527.4	0.00
2045	December	190	193	60,149,691	5,009,350.1	0.00
2015						
	January	347	347	56,110,525	4,678,415.9	0.01
	February	286	289	55,431,573	4,198,556.6	0.01
	March	345	346	55,562,529	4,693,730.3	0.01
	April	453	458	55,654,716	4,555,384.6	0.01
	May	590	591	55,625,323	4,706,910.3	0.01
	-					
	June	812	814	55,657,221	4,559,569.0	0.01
	July	1,560	1,566	60,121,043	5,059,633.5	0.03
	August	7,748	11,172	60,711,514	5,062,973.3	0.13
	September	39,904	55,098	59,802,370	4,899,634.6	0.67
	October	3,056,803	4,352,851	60,415,951	5,056,566.0	50.60
	November	2,867,698	4,034,407	59,733,371	4,894,566.1	48.01
2010	December	2,957,544	4,207,566	60,716,875	5,061,375.7	48.71
2016			2 202 2 4 4	FC 40 - 272		
	January	2,744,677	3,888,914	56,184,879	4,690,539.7	48.85
	February	2,817,468	4,013,504	55,510,698	4,396,218.4	50.76
	March	2,995,614	4,320,030	55,892,627	4,707,486.7	53.60
	April	2,318,131	3,320,849	40,838,247	3,348,128.0	56.76
	May	802,218	1,135,288	18,931,915	1,605,398.3	42.37
	-					42.63
	June	808,060	1,140,420	18,953,391	1,556,068.3	
	July	183,533	233,865	6,080,161	514,545.9	30.19
	August	126,742	159,466	4,828,490	361,293.6	26.25
0-CM c	odes from SFM,	0 day washout				
2010						
	October	3	3	57,716,153	4,834,624.7	0.00
				· · · · ·		
	November	5	5	57,083,139	4,676,871.8	0.00



		Number of Incident				Number of Incident Diagnoses / 1K Eligib
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2011						
	January	3	3	54,708,355	4,559,066.6	0.00
	February	7	7	54,004,537	4,128,109.5	0.00
	March	2	2	54,304,661	4,589,505.2	0.00
	April	4	4	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	9	9	54,180,080	4,437,454.8	0.00
	July	8	8	58,516,097	4,922,622.7	0.00
	-		5			
	August	5		58,949,591	4,934,256.4	0.00
	September	13	13	58,085,767	4,756,913.3	0.00
	October	7	7	58,676,595	4,912,248.5	0.00
	November	13	13	58,078,196	4,756,987.5	0.00
	December	9	9	59,388,173	4,936,750.4	0.00
2012						
	January	5	5	55,530,223	4,630,251.0	0.00
	February	8	8	54,876,327	4,343,731.8	0.00
	March	14	14	54,975,889	4,646,212.7	0.00
	April	13	13	55,096,138	4,512,914.6	0.00
	May	18	18	55,049,184	4,658,029.6	0.00
	June	10	10	54,978,230	4,504,350.2	0.00
	July	21	21	58,694,936	4,954,101.6	0.00
	August	17	17	59,224,748	4,948,556.2	0.00
	September	8	8	58,386,075	4,782,162.8	0.00
	October	17	17	58,911,806	4,936,312.3	0.00
	November	20	20	58,315,915	4,778,740.5	0.00
	December	14	14			0.00
2013	December	14	14	59,471,414	4,955,666.4	0.00
2015	January	31	31	56,197,731	4,670,823.4	0.00
	February	22	22	55,542,762	4,246,777.7	0.00
	March	34	34	56,138,854	4,744,073.1	0.00
	April	35	35	56,104,107	4,595,653.8	0.00
	May	25	26	56,057,246	4,744,239.6	0.00
	June	22	22	55,778,760	4,571,072.3	0.00
	July	30	30	59,556,573	5,016,305.0	0.00
	August	23	23	59,876,675	5,015,940.4	0.00
	September	35	35	59,000,407	4,833,576.6	0.00
	October	37	37	59,493,519	4,988,077.6	0.00
	November	50	50	58,886,507	4,825,393.1	0.00
	December	57	58	60,055,310		0.00
2014	December	57	30	00,055,510	4,997,010.4	0.00
2014	January	63	63	55,701,673	4,645,703.0	0.00
	February	66	68	55,017,049	4,207,098.7	0.00
	March	60	63	55,271,800	4,673,920.9	0.00
	April	61	65	55,288,350	4,527,701.2	0.00
	May	83	89	55,167,407	4,668,733.3	0.00
	June	84	87	55,203,751	4,521,918.7	0.00
	July	100	100	60,017,841	5,048,903.4	0.00
	August	121	123	60,258,780	4,995,827.3	0.00
	September	130	138	58,851,445	4,821,953.3	0.00
	October					
		140	140	59,811,527	4,994,616.9	0.00
	November	132	133	59,123,837	4,845,527.4	0.00
201-	December	190	193	60,149,691	5,009,350.1	0.00
2015	le su	2.46	246	FC 110 FC-		0.01
	January	346	346	56,110,525	4,678,415.9	0.01
	February	286	289	55,431,573	4,198,556.6	0.01
	March	344	345	55,562,529	4,693,730.3	0.01
	April	453	458	55,654,716	4,555,384.6	0.01
	May	590	591	55,625,323	4,706,910.3	0.01
	June	812	814	55,657,221	4,559,569.0	0.01
	July	1,558	1,564	60,121,043	5,059,633.5	0.03
	-	7,739				
	August		11,163	60,711,514	5,062,973.3	0.13
	September	39,818	55,001	59,802,370	4,899,634.6	0.67
	October	3,052,061	4,343,810	60,415,951	5,056,566.0	50.52
	November	2,863,461	4,026,322	59,733,371	4,894,566.1	47.94



		Number of Incident				Number of Incider Diagnoses / 1K Eligi
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2016						
	January	2,740,424	3,881,191	56,184,879	4,690,539.7	48.78
	February	2,813,143	4,005,662	55,510,698	4,396,218.4	50.68
	March	2,990,935	4,311,144	55,892,627	4,707,486.7	53.51
	April	2,314,651	3,314,282	40,838,247	3,348,128.0	56.68
	May	800,991	1,133,041	18,931,915	1,605,398.3	42.31
	June	806,856	1,138,239	18,953,391	1,556,068.3	42.57
	July	183,373	233,619	6,080,161	514,545.9	30.16
	August	126,682	159,385	4,828,490	361,293.6	26.24
0-CM co	odes from FBM, (	) day washout				
2010						
	October	3	3	57,716,153	4,834,624.7	0.00
	November	5	5	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011						
	January	3	3	54,708,355	4,559,066.6	0.00
	February	7	7	54,004,537	4,128,109.5	0.00
	March	2	2	54,304,661	4,589,505.2	0.00
	April	4	4	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	9	9	54,180,080	4,437,454.8	0.00
	July	8	8	58,516,097	4,922,622.7	0.00
	-	8 5	5		4,934,256.4	0.00
	August			58,949,591		
	September	13	13	58,085,767	4,756,913.3	0.00
	October	7	7	58,676,595	4,912,248.5	0.00
	November	13	13	58,078,196	4,756,987.5	0.00
	December	9	9	59,388,173	4,936,750.4	0.00
2012						
	January	5	5	55,530,223	4,630,251.0	0.00
	February	9	9	54,876,327	4,343,731.8	0.00
	March	15	15	54,975,889	4,646,212.7	0.00
	April	13	13	55,096,138	4,512,914.6	0.00
	May	18	18	55,049,184	4,658,029.6	0.00
	June	10	10	54,978,230	4,504,350.2	0.00
	July	21	21	58,694,936	4,954,101.6	0.00
	August	17	17	59,224,748	4,948,556.2	0.00
	September	10	10	58,386,075	4,782,162.8	0.00
	October	17	17	58,911,806	4,936,312.3	0.00
	November	20	20	58,315,915	4,778,740.5	0.00
	December	14	14	59,471,414	4,955,666.4	0.00
2013	December	14	14	33,471,414	4,955,000.4	0.00
2015	lanuan	21	21	EC 107 721	1 670 822 4	0.00
	January	31	31	56,197,731	4,670,823.4	0.00
	February	22	22	55,542,762	4,246,777.7	0.00
	March	34	34	56,138,854	4,744,073.1	0.00
	April	35	35	56,104,107	4,595,653.8	0.00
	May	25	26	56,057,246	4,744,239.6	0.00
	June	22	22	55,778,760	4,571,072.3	0.00
	July	30	30	59,556,573	5,016,305.0	0.00
	August	23	23	59,876,675	5,015,940.4	0.00
	September	35	35	59,000,407	4,833,576.6	0.00
	October	37	37	59,493,519	4,988,077.6	0.00
	November	50	50	58,886,507	4,825,393.1	0.00
	December	57	58	60,055,310	4,997,010.4	0.00
2014						
	January	63	63	55,701,673	4,645,703.0	0.00
	February	66	68	55,017,049	4,207,098.7	0.00
	March	62	65	55,271,800	4,673,920.9	0.00
	April	62	66	55,288,350	4,527,701.2	0.00
	May	83	89	55,167,407	4,668,733.3	0.00
	-					
	June	84	87	55,203,751	4,521,918.7	0.00
	July	100	100	60,017,841	5,048,903.4	0.00
	August	122	124	60,258,780	4,995,827.3	0.00
	September	131	139	58,851,445	4,821,953.3	0.00
	October	140	140	59,811,527	4,994,616.9	0.00
	November	132	133	59,123,837	4,845,527.4	0.00



		Number of Incident			•• • ··	Diagnoses / 1K Eligi
2015		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2015	1	247	247	56 440 525	4 670 445 0	0.01
	January	347	347	56,110,525	4,678,415.9	0.01
	February	286	289	55,431,573	4,198,556.6	0.01
	March	345	346	55,562,529	4,693,730.3	0.01
	April	453 590	458 591	55,654,716	4,555,384.6	0.01
	May June	812	814	55,625,323	4,706,910.3	0.01 0.01
				55,657,221	4,559,569.0	0.01
	July	1,560	1,566	60,121,043	5,059,633.5	
	August September	7,748	11,172	60,711,514	5,062,973.3	0.13 0.67
		39,903	55,097	59,802,370	4,899,634.6	
	October	3,056,810	4,352,871	60,415,951	5,056,566.0	50.60
	November	2,867,701	4,034,413	59,733,371	4,894,566.1	48.01
2016	December	2,957,545	4,207,566	60,716,875	5,061,375.7	48.71
	January	2,744,686	3,888,925	56,184,879	4,690,539.7	48.85
	February	2,817,473	4,013,513	55,510,698	4,396,218.4	50.76
	March	2,995,623	4,320,038	55,892,627	4,707,486.7	53.60
	April	2,318,136	3,320,859	40,838,247	3,348,128.0	56.76
	May	802,222	1,135,292	18,931,915	1,605,398.3	42.37
	June	808,062	1,140,423	18,953,391	1,556,068.3	42.63
	July	183,533	233,865	6,080,161	514,545.9	30.19
	August	126,742	159,466	4,828,490	361,293.6	26.25
	es from an Algor	ithm, 90 day washout				
9-CM code	January	1,399,223	1,399,223	51,592,545	4,185,631.2	27.12
9-CM code	January February	1,399,223 1,270,632	1,270,632	50,787,987	3,756,527.5	25.02
<b>9-CM code</b> 2015	January February March	1,399,223 1,270,632 1,463,731	1,270,632 1,463,731			
9-CM code 2015 9-CM code	January February March	1,399,223 1,270,632	1,270,632 1,463,731	50,787,987	3,756,527.5	25.02
<b>9-CM code</b> 2015	January February March es from SFM and	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou	1,270,632 1,463,731	50,787,987 50,948,805	3,756,527.5 4,195,533.7	25.02 28.73
9-CM code 2015 9-CM code	January February March es from SFM and January	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220	1,270,632 1,463,731 : 1,399,220	50,787,987 50,948,805 51,592,571	3,756,527.5 4,195,533.7 4,185,633.8	25.02 28.73 27.12
9-CM code 2015 9-CM code	January February March es from SFM and	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632	1,270,632 1,463,731 : 1,399,220 1,270,632	50,787,987 50,948,805 51,592,571 50,788,009	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5	25.02 28.73
9-CM code 2015 9-CM code 2015	January February March es from SFM and January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220	1,270,632 1,463,731 : 1,399,220	50,787,987 50,948,805 51,592,571	3,756,527.5 4,195,533.7 4,185,633.8	25.02 28.73 27.12 25.02
9-CM code 2015 9-CM code	January February March es from SFM and January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632	1,270,632 1,463,731 : 1,399,220 1,270,632	50,787,987 50,948,805 51,592,571 50,788,009	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5	25.02 28.73 27.12 25.02
9-CM code 2015 9-CM code 2015	January February March es from SFM and January February March	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725	50,787,987 50,948,805 51,592,571 50,788,009	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5	25.02 28.73 27.12 25.02
9-CM code 2015 9-CM code 2015	January February March es from SFM and January February March des from an Algo	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632 1,463,725	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9	25.02 28.73 27.12 25.02 28.73
9-CM code 2015 9-CM code 2015	January February March es from SFM and January February March des from an Algo January	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632 1,463,725 writhm, 90 day washou 1,401,469	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9	25.02 28.73 27.12 25.02 28.73 27.26
9-CM code 2015 9-CM code 2015	January February March es from SFM and January February March des from an Algo January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632 1,463,725 orithm, 90 day washou 1,401,469 1,426,595	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3	25.02 28.73 27.12 25.02 28.73 27.26 28.13
9-CM code 2015 9-CM code 2015 2015 2016	January February March es from SFM and January February March January February February March	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632 1,463,725 orithm, 90 day washou 1,401,469 1,426,595 1,513,405	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9	25.02 28.73 27.12 25.02 28.73 27.26
9-CM code 2015 9-CM code 2015 2015 2016 2016	January February March es from SFM and January February March des from an Algo January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washou 1,399,220 1,270,632 1,463,725 orithm, 90 day washou 1,401,469 1,426,595 1,513,405	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3	25.02 28.73 27.12 25.02 28.73 27.26 28.13
9-CM code 2015 9-CM code 2015 2015 2016	January February March es from SFM and January February March des from an Algo January February February March des from SFM, 90	1,399,223 1,270,632 1,463,731 I FBM, 90 day washout 1,399,220 1,270,632 1,463,725 writhm, 90 day washout 1,401,469 1,426,595 1,513,405	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t t 1,401,469 1,426,595 1,513,405	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6	25.02 28.73 27.12 25.02 28.73 27.26 28.13 29.65
9-CM code 2015 9-CM code 2015 2015 2016 2016	January February March es from SFM and January February March January February February March des from SFM, 90 January	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 writhm, 90 day washour 1,401,469 1,426,595 1,513,405 D day washout 1,400,227	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595 1,513,405 1,400,227	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5	25.02 28.73 27.12 25.02 28.73 27.26 28.13 29.65 27.23
9-CM code 2015 9-CM code 2015 2015 2016 2016	January February March es from SFM and January February March des from an Algo January February March des from SFM, 9 January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 orithm, 90 day washour 1,401,469 1,426,595 1,513,405 D day washout 1,400,227 1,425,454	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595 1,513,405 1,400,227 1,425,454	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702 50,727,678	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5 3,915,789.3	25.02 28.73 27.12 25.02 28.73 28.73 27.26 28.13 29.65 27.26 28.13 29.65
9-CM code 2015 9-CM code 2015 2015 2016 10-CM code 2016	January February March es from SFM and January February March des from an Algo January February March des from SFM, 90 January February February March	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,465,725I,465,725 I,465,755I,465,755I,465,755 I,465,755I,46	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595 1,513,405 1,400,227	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5	25.02 28.73 27.12 25.02 28.73 27.26 28.13 29.65 27.23
9-CM code 2015 9-CM code 2015 2015 2016 10-CM code 2016	January February March es from SFM and January February March des from an Algo January February March des from SFM, 9 January February	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,465,725I,465,725 I,465,755I,465,755I,465,755 I,465,755I,46	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595 1,513,405 1,400,227 1,425,454	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702 50,727,678	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5 3,915,789.3	25.02 28.73 27.12 25.02 28.73 28.73 27.26 28.13 29.65 27.26 28.13 29.65
9-CM code 2015 9-CM code 2015 2015 2016 10-CM cod 2016	January February March es from SFM and January February March des from an Algo January February March des from SFM, 90 January February February March	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,463,725 I,463,725I,465,725I,465,725 I,465,755I,465,755I,465,755 I,465,755I,46	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t 1,401,469 1,426,595 1,513,405 1,400,227 1,425,454	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702 50,727,678	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5 3,915,789.3	25.02 28.73 27.12 25.02 28.73 28.73 27.26 28.13 29.65 27.26 28.13 29.65
9-CM code 2015 9-CM code 2015 2015 2016 10-CM cod 2016	January February March es from SFM and January February March des from an Algo January February March January February January February February March des from FFM, 9	1,399,223 1,270,632 1,463,731 I FBM, 90 day washour 1,399,220 1,270,632 1,463,725 writhm, 90 day washour 1,401,469 1,426,595 1,513,405 D day washout 1,400,227 1,425,454 1,512,167 D day washout	1,270,632 1,463,731 1,399,220 1,270,632 1,463,725 t t 1,401,469 1,426,595 1,513,405 1,400,227 1,425,454 1,512,167	50,787,987 50,948,805 51,592,571 50,788,009 50,948,828 51,408,361 50,721,151 51,042,803 51,414,702 50,727,678 51,049,435	3,756,527.5 4,195,533.7 4,185,633.8 3,756,529.5 4,195,535.9 4,195,535.9 4,195,535.9 4,176,157.8 3,915,195.3 4,184,765.6 4,176,780.5 3,915,789.3 4,185,409.6	25.02 28.73 27.12 25.02 28.73 27.26 28.13 29.65 27.26 28.13 29.65



#### Figures 1a-1e. Number of Hypertension Diagnoses by Monitoring Period, Code Type, Code Source, and Washout Period

















#### Figures 1f-1j. Number of Incident Hypertension Diagnoses per 1,000 Eligible Members by Monitoring Period, Code Type, Code Source, and Washout Period











Table 2a. Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period

2010-2016					Number of Incident
	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Diagnoses / 1K Eligible Members
ICD-9-CM codes from Algorithm, 183 day washout					
TED-5-CW codes non Algorithm, 165 day washout	7,202,900	7,202,900	128,443,890	292,822,708.2	56.08
ICD-9-CM codes from SFM, 183 day washout					
	7,202,851	7,202,851	128,241,380	292,759,346.9	56.17
ICD-9-CM codes from FBM, 183 day washout					
	7,202,842	7,202,842	128,206,860	292,747,436.1	56.18
ICD-10-CM codes from an Algorithm, 183 day washout	1,489,529	1,489,529	420,442,000	200 754 202 0	44.60
ICD-10-CM codes from SFM, 183 day washout	1,489,529	1,489,529	128,443,890	298,754,392.0	11.60
TCD-10-CW Codes Holli SFW, 165 day washout	1,584,077	1,584,077	128,241,380	298,593,408.5	12.35
ICD-10-CM codes from SFM with cluster logic, 183 day washout	1,504,077	1,304,077	128,241,380	298,393,408.3	12.55
	1,583,090	1,583,090	128,248,617	298,598,188.4	12.34
ICD-10-CM codes from FBM, 183 day washout					
· · · ·	1,598,679	1,598,679	128,206,860	298,561,135.7	12.47
ICD-9-CM codes from Algorithm, SFM, and FBM, 0 day washout					
	10,305,551	135,664,816	131,346,603	319,813,419.4	78.46
ICD-10-CM codes from an Algorithm, 0 day washout					
	3,881,208	11,798,574	131,346,603	319,813,419.4	29.55
ICD-10-CM codes from SFM, 0 day washout					
	4,412,589	16,669,324	131,346,603	319,813,419.4	33.59
ICD-10-CM codes from SFM with cluster logic, 0 day washout					
	4,396,434	16,481,214	131,346,603	319,813,419.4	33.47
ICD-10-CM codes from FBM, 0 day washout					
	4,505,244	18,172,333	131,346,603	319,813,419.4	34.30
2015					
2015					
ICD-9-CM codes from Algorithm, SFM, and FBM, 90 day washout	•				
	1,546,292	1,546,292	56,265,712	12,885,112.2	27.48
2016					
ICD-10-CM codes from an Algorithm, 90 day washout	1,496,853	1,496,853	56,565,054	13,226,494.9	26.46
ICD-10-CM codes from SFM, 90 day washout	1,490,835	1,490,833	50,505,054	13,220,494.9	20.40
TED-10-CW Codes Holl SPW, 30 day washout	1,630,389	1,630,389	56,158,454	13,102,104.2	29.03
ICD-10-CM codes from SFM with cluster logic, 90 day washout	· ·	· ·	,, -	-, - ,	
	1,627,135	1,627,135	56,173,536	13,106,440.1	28.97
ICD-10-CM codes from FBM, 90 day washout					



Table 2b. Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Age Group

## <u>2010-2016</u>

<u>10-2016</u>	Number of Inciden				Number of Incider Diagnoses / 1K
	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Eligible Members
D-9-CM codes from Algorithm, 183 day washout 0-17 Years	69,157	69,157	29,810,770	64,684,631.9	2.32
18-49 Years	1,968,985	1,968,985	68,493,460	135,379,602.8	28.75
50-64 Years	2,919,629	2,919,629	28,725,026	61,179,630.7	101.64
65+ Years	2,245,129	2,245,129	13,147,920	31,578,842.8	170.76
D-9-CM codes from SFM, 183 day washout	, ,			, ,	
0-17 Years	69,157	69,157	29,808,225	64,684,001.3	2.32
18-49 Years	1,968,974	1,968,974	68,462,330	135,366,235.7	28.76
50-64 Years	2,919,612	2,919,612	28,653,559	61,156,470.7	101.89
65+ Years	2,245,108	2,245,108	13,047,471	31,552,639.2	172.07
D-9-CM codes from FBM, 183 day washout	2)2 10)200	_//	10,0 17,171	51,552,65512	1, 210,
0-17 Years	69,157	69,157	29,808,203	64,683,944.1	2.32
18-49 Years	1,968,974	1,968,974	68,459,914	135,364,505.1	28.76
50-64 Years	2,919,608	2,919,608	28,643,629	61,152,814.3	101.93
		2,245,103			
65+ Years D-10-CM codes from an Algorithm, 183 day washout	2,245,103	2,243,103	13,024,836	31,546,172.6	172.37
0-17 Years	7,922	7,922	29,810,770	64,736,481.1	0.27
18-49 Years		322,731	68,509,792		4.71
	322,731			136,921,293.4	
50-64 Years	616,256	616,256	29,009,889	63,439,201.6	21.24
65+ Years	542,620	542,620	13,437,552	33,657,415.9	40.38
D-10-CM codes from SFM, 183 day washout		7.010			
0-17 Years	7,919	7,919	29,808,225	64,735,453.4	0.27
18-49 Years	357,665	357,665	68,478,071	136,891,482.2	5.22
50-64 Years	658,491	658,491	28,929,159	63,378,904.4	22.76
65+ Years	560,002	560,002	13,325,790	33,587,568.5	42.02
D-10-CM codes from SFM with cluster logic, 183 day washe					
0-17 Years	7,906	7,906	29,808,227	64,735,458.5	0.27
18-49 Years	357,102	357,102	68,478,565	136,892,022.6	5.21
50-64 Years	657,938	657,938	28,931,259	63,380,360.6	22.74
65+ Years	560,144	560,144	13,331,101	33,590,346.6	42.02
D-10-CM codes from FBM, 183 day washout					
0-17 Years	8,126	8,126	29,808,203	64,735,366.7	0.27
18-49 Years	362,765	362,765	68,475,637	136,888,083.8	5.30
50-64 Years	664,556	664,556	28,918,108	63,369,442.7	22.98
65+ Years	563,232	563,232	13,300,492	33,568,242.5	42.35
D-9-CM codes from Algorithm, SFM, and FBM, 0 day washe	out				
0-17 Years	112,242	1,244,612	29,854,260	64,911,877.6	3.76
18-49 Years	2,552,660	19,167,655	69,118,516	140,553,482.7	36.93
50-64 Years	4,403,073	46,880,885	30,357,747	71,475,208.9	145.04
65+ Years	3,961,542	68,371,664	14,919,540	42,872,850.2	265.53
D-10-CM codes from an Algorithm, 0 day washout	, ,			, ,	
0-17 Years	29,378	97,879	29,854,260	64,911,877.6	0.98
18-49 Years	661,805	1,647,015	69,118,516	140,553,482.7	9.57
50-64 Years	1,518,193	4,158,884	30,357,747	71,475,208.9	50.01
65+ Years	1,699,589	5,894,796	14,919,540	42,872,850.2	113.92
D-10-CM codes from SFM, 0 day washout	2,055,505	-,	1,515,540	,.,.,.,	113.52
		155 339	20.954.260	64 011 977 6	1.15
	34.428	155,778	29.834.200	04.711.077.0	
0-17 Years	34,428 773 297	155,778 2.361.257	29,854,260 69 118 516	64,911,877.6 140 553 482 7	
	34,428 773,297 1,729,151	2,361,257 5,841,003	29,854,260 69,118,516 30,357,747	140,553,482.7 71,475,208.9	11.19 56.96



	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligible Members
ICD-10-CM codes from SFM with cluster logic, 0 day washout			0		0
0-17 Years	34,410	155,691	29,854,260	64,911,877.6	1.15
18-49 Years	771,315	2,346,694	69,118,516	140,553,482.7	11.16
50-64 Years	1,723,935	5,788,966	30,357,747	71,475,208.9	56.79
65+ Years	1,904,408	8,189,863	14,919,540	42,872,850.2	127.65
ICD-10-CM codes from FBM, 0 day washout					
0-17 Years	34,699	156,851	29,854,260	64,911,877.6	1.16
18-49 Years	784,809	2,462,677	69,118,516	140,553,482.7	11.35
50-64 Years	1,759,703	6,247,357	30,357,747	71,475,208.9	57.97
65+ Years	1,966,100	9,305,448	14,919,540	42,872,850.2	131.78
2015					
ICD-9-CM codes from Algorithm, SFM, and FBM, 90 day washo		10.070			
0-17 Years 18-49 Years	10,379 283,733	10,379 283,733	11,490,097	2,677,765.0	0.90
50-64 Years	622,338	622,338	25,612,102 12,558,576	5,864,102.4 2,809,225.7	11.08 49.55
65+ Years	629,842	629,842	7,067,949	1,534,019.1	89.11
2016					
ICD-10-CM codes from an Algorithm, 90 day washout					
0-17 Years	10,037	10,037	11,303,211	2,683,940.9	0.89
18-49 Years	259,056	259,056 596,901	25,608,672	5,976,451.9	10.12 46.68
50-64 Years 65+ Years	596,901	630,859	12,787,487	2,926,725.6	46.68
ICD-10-CM codes from SFM, 90 day washout	630,859	030,839	7,330,507	1,639,376.5	80.00
0-17 Years	9,642	9,642	11,296,971	2,682,619.0	0.85
18-49 Years	292,716	292,716	25,545,568	5,954,995.6	11.46
50-64 Years		657,794			
	657,794	670,237	12,644,169	2,880,639.1	52.02
65+ Years CD-10-CM codes from SFM with cluster logic, 90 day washout	670,237	670,237	7,131,849	1,583,850.5	93.98
0-17 Years	9,634	9,634	11,296,973	2,682,622.2	0.85
	,				
18-49 Years	292,135	292,135	25,546,703	5,955,386.9	11.44
50-64 Years	656,573	656,573	12,648,428	2,881,894.6	51.91
65+ Years	668,793	668,793	7,141,666	1,586,536.3	93.65
ICD-10-CM codes from FBM, 90 day washout	0.700	0.720	44.205.001	2 602 504 5	0.00
0-17 Years	9,720	9,720	11,296,894	2,682,581.5	0.86
18-49 Years	295,432	295,432	25,538,665	5,952,862.1	11.57
50-64 Years	660,946	660,946	12,614,846	2,873,184.8	52.39
65+ Years	666,332	666,332	7,058,917	1,567,821.5	94.40



Table 2c. Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Sex

#### 2010-2016

	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incide Diagnoses / 1K Eligible Member
D-9-CM codes from Algorithm, 183 day washout	2108110000				
Female	3,474,233	3,474,233	65,308,771	150,643,229.6	53.20
Male	3,728,269	3,728,269	63,128,373	142,167,132.8	59.06
Unknown	398	398	6,746	12,345.8	59.00
D-9-CM codes from SFM, 183 day washout					
Female	3,474,211	3,474,211	65,211,792	150,613,622.9	53.28
Male	3,728,242	3,728,242	63,022,845	142,133,378.9	59.16
Unknown	398	398	6,743	12,345.0	59.02
D-9-CM codes from FBM, 183 day washout					
Female	3,474,206	3,474,206	65,195,020	150,607,745.6	53.29
Male	3,728,238	3,728,238	63,005,098	142,127,345.6	59.17
Unknown	398	398	6,742	12,344.9	59.03
D-10-CM codes from an Algorithm, 183 day washout					
Female	706,697	706,697	65,308,771	153,655,864.4	10.82
Male	782,772	782,772	63,128,373	145,085,896.9	12.40
Unknown	60	60	6,746	12,630.7	8.89
0-10-CM codes from SFM, 183 day washout					
Female	744,315	744,315	65,211,792	153,582,778.9	11.41
Male	839,699	839,699	63,022,845	144,998,002.6	13.32
Unknown	63	63	6,743	12,627.1	9.34
0-10-CM codes from SFM with cluster logic, 183 day washout	:				
Female	743,944	743,944	65,215,123	153,584,888.4	11.41
Male	839,083	839,083	63,026,751	145,000,672.9	13.31
Unknown	63	63	6,743	12,627.1	9.34
0-10-CM codes from FBM, 183 day washout			,	,	
Female	751,543	751,543	65,195,020	153,567,358.1	11.53
Male	847,074	847,074	63,005,098	144,981,151.1	13.44
Unknown	62	62	6,742	12,626.6	9.20
0-9-CM codes from Algorithm, SFM, and FBM, 0 day washout			-,		
Female	4,984,740	65,899,479	66,720,608	163,721,251.5	74.71
Male	5,320,298	69,755,956	64,619,123	156,078,303.4	82.33
Unknown	513	9,381	6,872	13,864.6	74.65
D-10-CM codes from an Algorithm, 0 day washout	515	5,501	0,072	15,604.0	74.05
Female	1,869,333	5,843,351	66,720,608	163,721,251.5	28.02
Male	2,011,698	5,954,694	64,619,123	156,078,303.4	31.13
Unknown	177	529	6,872	13,864.6	25.76
D-10-CM codes from SFM, 0 day washout	1//	325	0,072	15,004.0	23.70
Female	2,108,097	8,099,662	66,720,608	163,721,251.5	31.60
Male	2,304,301	8,568,959	64,619,123	156,078,303.4	35.66
Unknown		703			
0-10-CM codes from SFM with cluster logic, 0 day washout	191	/05	6,872	13,864.6	27.79
Female	2,101,091	8,017,068	66,720,608	163,721,251.5	31.49
		8,463,446			
Male	2,295,152		64,619,123	156,078,303.4	35.52
Unknown	191	700	6,872	13,864.6	27.79
D-10-CM codes from FBM, 0 day washout	2 152 044	0 007 602	66 730 600	162 724 254 5	22.25
Female	2,152,041	8,807,682	66,720,608	163,721,251.5	32.25
Male	2,353,008	9,363,895	64,619,123	156,078,303.4	36.41
Unknown	195	756	6,872	13,864.6	28.38



					Number of Incident
	Number of Incident			Manuhan Varus	Diagnoses / 1K
2015	Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Eligible Members
2015					
ICD-9-CM codes from Algorithm, SFM, and FBM, 90 day wash	out				
Female	727,051	727,051	28,752,364	6,594,317.2	25.29
Male	819,164	819,164	27,511,095	6,290,286.8	29.78
Unknown	77	77	2,253	508.2	34.18
2016					
ICD-10-CM codes from an Algorithm, 90 day washout					
Female	713,528	713,528	28,860,299	6,764,575.0	24.72
Male	783,266	783,266	27,702,419	6,461,429.3	28.27
Unknown	59	59	2,336	490.7	25.26
ICD-10-CM codes from SFM, 90 day washout					
Female	769,967	769,967	28,667,870	6,707,209.9	26.86
Male	860,359	860,359	27,488,259	6,394,406.8	31.30
Unknown	63	63	2,325	487.5	27.10
ICD-10-CM codes from SFM with cluster logic, 90 day washout	1				
Female	768,605	768,605	28,674,578	6,709,117.6	26.80
Male	858,467	858,467	27,496,633	6,396,834.9	31.22
Unknown	63	63	2,325	487.5	27.10
ICD-10-CM codes from FBM, 90 day washout					
Female	770,781	770,781	28,616,512	6,695,088.1	26.93
Male	861,587	861,587	27,431,149	6,380,875.1	31.41
Unknown	62	62	2,322	486.7	26.70



Number of Incident

Table 2d. Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year

	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligible Members
CD-9-CM codes from Algorithm, 183 day washout 2010	589,095	589,095	56,674,715	13,453,961.1	10.39
2011	2,098,523	2,098,523	65,861,059	52,159,182.5	31.86
2012	1,414,201	1,414,201	64,766,350	52,115,939.8	21.84
2013	1,173,173	1,173,173	64,849,870	52,282,431.8	18.09
2014	1,103,075	1,103,075	65,718,837	51,720,430.3	16.78
2015	824,779	824,779	65,636,631	51,939,453.6	12.57
2016	54	54	53,975,793	19,151,309.2	0.00
CD-9-CM codes from SFM, 183 day washout					
2010	589,095	589,095	56,674,715	13,453,961.1	10.39
2011	2,098,523	2,098,523	65,861,059	52,159,182.0	31.86
2012	1,414,201	1,414,201	64,766,350	52,115,939.7	21.84
2013	1,173,173	1,173,173	64,849,870	52,282,431.6	18.09
2014	1,103,074	1,103,074	65,718,837	51,720,428.2	16.78
2015	824,759	824,759	65,613,064	51,932,628.8	12.57
2016	26	26	53,741,325	19,094,775.4	0.00
CD-9-CM codes from FBM, 183 day washout					
2010	589,095	589,095	56,674,715	13,453,961.1	10.39
2011	2,098,523	2,098,523	65,861,059	52,159,182.0	31.86
2012	1,414,201	1,414,201	64,766,350	52,115,939.7	21.84
2013	1,173,172	1,173,172	64,849,870	52,282,431.4	18.09
2014	1,103,073	1,103,073	65,718,837	51,720,428.1	16.78
2015	824,754	824,754	65,608,563	51,931,007.5	12.57
2016	24	24	53,699,841	19,084,486.3	0.00
CD-10-CM codes from an Algorithm, 183 day washout				, ,	
2010	1	1	56,674,715	13,453,961.1	0.00
2011	5	5	66,202,703	52,384,824.7	0.00
2012	11	11	66,357,553	52,947,725.7	0.00
2013	19	19	67,037,345	53,475,105.7	0.00
2014	52	52	68,244,953	53,125,195.9	0.00
2015	543,408	543,408	68,414,606	53,509,941.7	7.94
2016	946,033	946,033	56,470,744	19,857,637.1	16.75
CD-10-CM codes from SFM, 183 day washout	•				
2010	1	1	56,674,715	13,453,961.1	0.00
2011	7	7	66,202,703	52,384,824.3	0.00
2012	11	11	66,357,551	52,947,724.0	0.00
2013	21	21	67,037,343	53,475,103.5	0.00
2014	59	59	68,244,949	53,125,189.4	0.00
2015	629,142	629,142	68,369,513	53,493,587.3	9.20
2016	954,836	954,836	55,957,863	19,713,018.9	17.06
CD-10-CM codes from SFM with cluster logic, 183 day washou	ut				
2010	1	1	56,674,715	13,453,961.1	0.00
2011	7	7	66,202,703	52,384,824.3	0.00
2012	11	11	66,357,551	52,947,724.0	0.00
2013	21	21	67,037,343	53,475,103.5	0.00
2014	59	59	68,244,949	53,125,189.4	0.00
2015	626,561	626,561	68,371,438	53,494,163.6	9.16
2016	956,430	956,430	55,975,719	19,717,222.5	17.09
CD-10-CM codes from FBM, 183 day washout					
		1	FC (74 71F	13,453,961.1	0.00
2010	1	1	56,674,715	13,433,901.1	
2010 2011	1 7	7	66,202,703	52,384,824.3	0.00
2011	7	7	66,202,703	52,384,824.3	0.00
2011 2012	7 11 22	7 11	66,202,703 66,357,551 67,037,343	52,384,824.3 52,947,724.0 53,475,103.3	0.00 0.00 0.00
2011 2012 2013	7 11	7 11 22	66,202,703 66,357,551	52,384,824.3 52,947,724.0	0.00 0.00

2010-2016


	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incide Diagnoses / 1K Eligible Member
D-9-CM codes from Algorithm, SFM, and FBM, 0 day washout					
2010	2,790,139	6,261,232	59,827,304	14,362,660.8	46.64
2011	4,751,079	25,535,544	68,676,077	55,982,537.1	69.18
2012	4,820,774	26,559,508	68,904,822	56,651,029.5	69.96
2013	4,920,922	27,628,561	69,659,404	57,248,942.9	70.64
2014	5,062,706	28,130,672	70,996,865	56,961,254.2	71.31
2015	4,678,219	21,548,510	71,140,657	57,427,315.9	65.76
2016	609	789	59,085,093	21,179,678.9	0.01
D-10-CM codes from an Algorithm, 0 day washout					
2010	4	4	59,827,304	14,362,660.8	0.00
2011	30	30	68,676,077	55,982,537.1	0.00
2012	70	71	68,904,822	56,651,029.5	0.00
2013	150	150	69,659,404	57,248,942.9	0.00
2014	480	495	70,996,865	56,961,254.2	0.01
2015	2,553,226	4,926,275	71,140,657	57,427,315.9	35.89
2016	2,910,479	6,871,549	59,085,093	21,179,678.9	49.26
-10-CM codes from SFM, 0 day washout	2,510,475		33,003,033	21,175,070.5	45.20
2010	4	4	59,827,304	14,362,660.8	0.00
2011	46	46	68,676,077	55,982,537.1	0.00
2012	95	96	68,904,822	56,651,029.5	0.00
2013	208	208	69,659,404	57,248,942.9	0.00
2013	640	671	70,996,865	56,961,254.2	0.01
2014		6,853,649			
	3,071,716		71,140,657	57,427,315.9	43.18
2016 -10-CM codes from SFM with cluster logic, 0 day washout	3,456,506	9,814,650	59,085,093	21,179,678.9	58.50
2010	4	4	59,827,304	14,362,660.8	0.00
2010	4	46			
		95	68,676,077	55,982,537.1	0.00
2012	94		68,904,822	56,651,029.5	0.00
2013	208	208	69,659,404	57,248,942.9	0.00
2014	636	667	70,996,865	56,961,254.2	0.01
2015	3,053,015	6,774,786	71,140,657	57,427,315.9	42.92
2016	3,438,308	9,705,408	59,085,093	21,179,678.9	58.19
-10-CM codes from FBM, 0 day washout					
2010	4	4	59,827,304	14,362,660.8	0.00
2011	48	48	68,676,077	55,982,537.1	0.00
2012	99	100	68,904,822	56,651,029.5	0.00
2013	223	223	69,659,404	57,248,942.9	0.00
2014	694	727	70,996,865	56,961,254.2	0.01
2015	3,177,017	7,407,482	71,140,657	57,427,315.9	44.66
2016	3,562,490	10,763,749	59,085,093	21,179,678.9	60.29
5					
-9-CM codes from Algorithm, SFM, and FBM, 90 day washout					
2015	1,546,292	1,546,292	56,265,712	12,885,112.2	27.48
<u>6</u>					
-10-CM codes from an Algorithm, 90 day washout					
2016 D-10-CM codes from SFM, 90 day washout	1,496,853	1,496,853	56,565,054	13,226,494.9	26.46
2016	1,630,389	1,630,389	56,158,454	13,102,104.2	29.03
-10-CM codes from SFM with cluster logic, 90 day washout					
2016	1,627,135	1 627 125	56 172 526	12 105 110 1	20.07
2016	1,027,155	1,627,135	56,173,536	13,106,440.1	28.97

1,632,430

1,632,430

56,049,983

13,076,449.9

29.12

2016



Table 2e. Summary of Incident Diabetes Diagnoses using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) versus International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes for a combination of washouts and code sources: Algorithm, Simple Forward Mapping (SFM), and Forward Backward Mapping (FBM), by Monitoring Period and Year-Month

### 2010-2016

	Number of Inciden Diagnoses	it Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligib Members
CM codes from	Algorithm, 183 day washou	•	Eligible Wembers	Wember- fears	Wembers
2010	Algorithin, 105 day washou	it .			
Octobe	200,887	200,887	54,284,189	4,529,189.7	3.70
Novem	,	198,634	53,659,168	4,380,734.9	3.70
Deceml		189,574	54,883,968	4,544,036.5	3.45
2011	105,574	103,374	54,005,500	4,544,050.5	5.45
January	192,758	192,758	51,450,286	4,270,563.7	3.75
Februar		183,552	50,753,891	3,866,589.3	3.62
March	215,068	215,068	51,049,641	4,297,763.6	4.21
April	188,105	188,105	51,030,493	4,165,902.9	3.69
May	180,875	180,875	50,910,649	4,294,949.2	3.55
June	178,241	178,241	50,666,460	4,139,401.9	3.52
July	165,864	165,864	54,641,326	4,585,733.3	3.04
August	177,758	177,758	54,980,661	4,589,256.7	3.23
Septem		166,365	54,070,033	4,418,135.3	3.08
Octobe	161,852	161,852	54,563,369	4,556,058.0	2.97
Novem		149,413	53,909,590	4,406,398.6	2.77
Deceml	,	138,672	55,105,344	4,568,429.8	2.52
2012					
January	137,516	137,516	51,458,841	4,279,938.0	2.67
Februa	y 130,638	130,638	50,763,827	4,010,856.0	2.57
March	131,540	131,540	50,819,618	4,286,583.3	2.59
April	120,366	120,366	50,872,824	4,159,874.8	2.37
May	119,574	119,574	50,767,560	4,288,483.3	2.36
June	110,222	110,222	50,641,617	4,142,834.5	2.18
July	115,163	115,163	54,083,149	4,557,493.0	2.13
August	120,667	120,667	54,551,346	4,547,644.9	2.21
Septem	ber 107,045	107,045	53,696,754	4,391,274.9	1.99
Octobe		118,696	54,163,242	4,528,982.7	2.19
Novem	,	105,974	53,542,651	4,381,197.6	1.98
Deceml	er 96,800	96,800	54,610,416	4,540,776.9	1.77
2013					
January	106,938	106,938	51,622,607	4,279,622.6	2.07
Februar		93,299	50,948,376	3,890,400.6	1.83
March	97,985	97,985	51,473,451	4,343,146.2	1.90
April	104,798	104,798	51,401,697	4,204,244.8	2.04
May	96,774	96,774	51,306,149	4,336,203.8	1.89
June	86,366	86,366	50,997,536	4,174,214.3	1.69
July	100,707	100,707	54,484,326	4,582,271.4	1.85
August	100,461 per 96,189	100,461 96,189	54,749,423	4,577,617.4	1.83 1.79
Septem Octobe	,		53,874,941	4,407,582.0	1.79
Novem		107,479 92,891	54,316,650 53,693,582	4,545,074.5 4,393,838.9	1.98
Deceml		89,286	54,785,573	4,548,215.3	1.73
2014	61 05,200	85,280	54,705,575	4,546,215.5	1.05
January	92,383	92,383	50,808,271	4,228,127.2	1.82
Februar		83,859	50,121,955	3,828,221.1	1.67
March	90,637	90,637	50,344,764	4,251,380.9	1.80
April	90,441	90,441	50,335,703	4,116,596.2	1.80
May	85,651	85,651	50,186,418	4,241,731.1	1.71
June	82,576	82,576	50,175,208	4,105,155.7	1.65
July	98,844	98,844	54,613,934	4,587,370.4	1.81
August	93,406	93,406	54,803,566	4,534,255.2	1.70
Septem		98,758	53,449,359	4,373,101.1	1.85
Octobe		104,534	54,333,332	4,527,422.8	1.92
Novem		87,870	53,643,121	4,390,278.2	1.64
Deceml		94,116	54,604,119	4,536,790.5	1.72



		Number of Incident				Number of Incident Diagnoses / 1K Eligibl
2045		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2015						
	January	90,126	90,126	50,955,392	4,238,674.2	1.77
	February	83,436	83,436	50,277,131	3,802,998.5	1.66
	March	96,393	96,393	50,401,298	4,251,427.1	1.91
	April	93,877	93,877	50,454,849	4,124,143.6	1.86
	May	83,901	83,901	50,384,949	4,258,016.5	1.67
	June	87,637	87,637	50,386,671	4,122,688.5	1.74
	July	97,762	97,762	54,499,578	4,579,627.8	1.79
	-					
	August	94,508	94,508	55,008,746	4,577,936.0	1.72
	September	97,071	97,071	54,111,064	4,427,151.5	1.79
	October	37	37	54,670,338	4,566,682.7	0.00
	November	23	23	54,008,232	4,419,696.3	0.00
	December	8	8	54,955,905	4,570,410.8	0.00
2016				,,	.,=,.==	
2010	January	8	8	50,850,884	4,234,740.3	0.00
	-					
	February	8	8	50,238,716	3,971,575.2	0.00
	March	8	8	50,668,574	4,257,207.5	0.00
	April	7	7	36,672,073	3,000,243.9	0.00
	May	8	8	17,305,250	1,465,275.4	0.00
	June	7	7	17,331,193	1,420,812.4	0.00
		6	6	5,568,211	470,594.5	0.00
	July					
	August	2	2	4,425,422	330,860.0	0.00
	des from SFM, 1	.83 day washout				
2010						
	October	200,887	200,887	54,284,189	4,529,189.7	3.70
	November	198,634	198,634	53,659,168	4,380,734.9	3.70
	December	189,574	189,574	54,883,968	4,544,036.5	3.45
2011		-				
	January	192,758	192,758	51,450,286	4,270,563.7	3.75
	February	183,552	183,552	50,753,891	3,866,589.3	3.62
	March	215,068	215,068	51,049,641	4,297,763.6	4.21
	April	188,105	188,105	51,030,493	4,165,902.9	3.69
	May	180,875	180,875	50,910,649	4,294,949.2	3.55
	June	178,241	178,241	50,666,460	4,139,401.9	3.52
	July	165,864	165,864	54,641,326	4,585,733.3	3.04
	August	177,758	177,758	54,980,660	4,589,256.6	3.23
	September	166,365	166,365	54,070,032	4,418,135.2	3.08
	October	161,852	161,852	54,563,368	4,556,058.0	2.97
	November	149,413	149,413	53,909,589	4,406,398.6	2.77
	December	138,672	138,672	55,105,343	4,568,429.7	2.52
2012		/-			//	
LUIL	January	137,516	137,516	51,458,841	4,279,937.9	2.67
	February	130,638	130,638	50,763,827	4,010,856.0	2.57
	March	131,540	131,540	50,819,618	4,286,583.3	2.59
	April	120,366	120,366	50,872,824	4,159,874.8	2.37
	May	119,574	119,574	50,767,560	4,288,483.3	2.36
	June	110,222	110,222	50,641,617	4,142,834.5	2.18
	July	115,163	115,163	54,083,149	4,557,493.0	2.13
	-					
	August	120,667	120,667	54,551,346	4,547,644.9	2.21
	September	107,045	107,045	53,696,754	4,391,274.9	1.99
	October	118,696	118,696	54,163,242	4,528,982.7	2.19
	November	105,974	105,974	53,542,651	4,381,197.6	1.98
	December	96,800	96,800	54,610,416	4,540,776.9	1.77
2013				,,	.,= .=, =.=	
2010	January	106,938	106,938	51,622,607	4,279,622.6	2.07
	February	93,299	93,299	50,948,376	3,890,400.6	1.83
	March	97,985	97,985	51,473,451	4,343,146.2	1.90
	April	104,798	104,798	51,401,697	4,204,244.8	2.04
	May	96,774	96,774	51,306,149	4,336,203.8	1.89
	June	86,366	86,366	50,997,536	4,174,214.3	1.69
	July		100,707			
	-	100,707		54,484,326	4,582,271.4	1.85
	August	100,461	100,461	54,749,423	4,577,617.4	1.83
	September	96,189	96,189	53,874,941	4,407,582.0	1.79
	October	107,479	107,479	54,316,650	4,545,074.5	1.98
	November	92,891	92,891	11.091 101	4.393 X3X X	1/3
	November December	92,891 89,286	92,891 89,286	53,693,581 54,785,572	4,393,838.8 4,548,215.2	1.73 1.63



		Number of Incident				Number of Incident Diagnoses / 1K Eligible
2014		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
2014						
	January	92,383	92,383	50,808,268	4,228,127.0	1.82
	February	83,859	83,859	50,121,951	3,828,220.7	1.67
	March	90,637	90,637	50,344,759	4,251,380.5	1.80
	April	90,441	90,441	50,335,699	4,116,595.8	1.80
	May	85,651	85,651	50,186,415	4,241,730.9	1.71
	June	82,576	82,576	50,175,206	4,105,155.4	1.65
	July	98,844	98,844			1.81
	-			54,613,931	4,587,370.2	
	August	93,405	93,405	54,803,566	4,534,255.2	1.70
	September	98,758	98,758	53,449,359	4,373,101.1	1.85
	October	104,534	104,534	54,333,332	4,527,422.8	1.92
	November	87,870	87,870	53,643,121	4,390,278.2	1.64
	December	94,116	94,116	54,604,119	4,536,790.5	1.72
2015	December	54,110	54,110	54,004,115	+,550,750.5	1.72
2015		00.100	00.400			
	January	90,126	90,126	50,955,391	4,238,674.0	1.77
	February	83,436	83,436	50,277,129	3,802,998.3	1.66
	March	96,393	96,393	50,401,296	4,251,426.9	1.91
	April	93,877	93,877	50,454,845	4,124,143.2	1.86
	•		83,899	50,384,943		
	May	83,899		, ,	4,258,016.1	1.67
	June	87,637	87,637	50,386,667	4,122,688.0	1.74
	July	97,762	97,762	54,499,572	4,579,627.1	1.79
	August	94,507	94,507	55,008,734	4,577,934.8	1.72
	September	97,060	97,060	54,111,048	4,427,149.1	1.79
	October	36	36	54,667,879	4,565,982.3	0.00
	November	20	20	53,985,555	4,417,542.3	0.00
	December	6	6	54,905,938	4,566,446.7	0.00
2016						
	January	7	7	50,767,102	4,228,739.5	0.00
	February	5	5	50,108,669	3,962,797.2	0.00
	-					
	March	4	4	50,460,093	4,243,069.2	0.00
	April	2	2	36,487,343	2,985,975.4	0.00
	May	2	2	17,240,289	1,460,006.1	0.00
	June	4	4	17,263,623	1,415,505.7	0.00
	July	1	1	5,547,271	468,853.5	0.00
	August	1	1	4,408,489	329,828.8	0.00
			1	4,400,405	525,828.8	0.00
CM co	-					
	des from FBM, 1	.83 day washout				
- <b>CM co</b> 2010	des from FBM, 1	.83 day washout	200.007	E 4 20 4 400	4 5 20 4 00 7	2.70
	des from FBM, 1 October	<b>.83 day washout</b> 200,887	200,887	54,284,189	4,529,189.7	3.70
	des from FBM, 1	.83 day washout	200,887 198,634	54,284,189 53,659,168	4,529,189.7 4,380,734.9	3.70 3.70
	des from FBM, 1 October	<b>.83 day washout</b> 200,887				
2010	des from FBM, 1 October November	83 day washout 200,887 198,634	198,634	53,659,168	4,380,734.9	3.70
	des from FBM, 1 October November December	<b>83 day washout</b> 200,887 198,634 189,574	198,634 189,574	53,659,168 54,883,968	4,380,734.9 4,544,036.5	3.70 3.45
2010	des from FBM, 1 October November December January	<b>83 day washout</b> 200,887 198,634 189,574 192,758	198,634 189,574 192,758	53,659,168 54,883,968 51,450,286	4,380,734.9 4,544,036.5 4,270,563.7	3.70 3.45 3.75
2010	des from FBM, 1 October November December January February	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552	198,634 189,574 192,758 183,552	53,659,168 54,883,968 51,450,286 50,753,891	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3	3.70 3.45 3.75 3.62
2010	des from FBM, 1 October November December January	<b>83 day washout</b> 200,887 198,634 189,574 192,758	198,634 189,574 192,758 183,552 215,068	53,659,168 54,883,968 51,450,286	4,380,734.9 4,544,036.5 4,270,563.7	3.70 3.45 3.75
2010	des from FBM, 1 October November December January February	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552	198,634 189,574 192,758 183,552	53,659,168 54,883,968 51,450,286 50,753,891	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3	3.70 3.45 3.75 3.62
2010	des from FBM, 1 October November December January February March April	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105	198,634 189,574 192,758 183,552 215,068 188,105	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9	3.70 3.45 3.75 3.62 4.21 3.69
2010	des from FBM, 1 October November December January February March April May	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875	198,634 189,574 192,758 183,552 215,068 188,105 180,875	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2	3.70 3.45 3.75 3.62 4.21 3.69 3.55
2010	des from FBM, 1 October November December January February March April May June	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52
2010	des from FBM, 1 October November December January February March April May June June July	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04
2010	des from FBM, 1 October November December January February March April May June	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23
2010	des from FBM, 1 October November December January February March April May June June July	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04
2010	des from FBM, 1 October November December January February March April May June July August September	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08
2010	des from FBM, 1 October November December January February March April May June July August September October	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97
2010	des from FBM, 1 October November December January February March April May June July August September October November	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77
2010	des from FBM, 1 October November December January February March April May June July August September October November December	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97
2010	des from FBM, 1 October November December January February March April May June July August September October November December	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52
2010	des from FBM, 1 October November December January February March April May June July August September October November December	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67
2010	des from FBM, 1 October November December January February March April May June July August September October November December	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March April May June June June	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560 50,641,617 54,083,149	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3 4,142,834.5 4,557,493.0	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36 2.18 2.13
2010	des from FBM, 1 October November December January February March April May July August September October November December January February March April May June June July August	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560 50,641,617 54,083,149 54,551,346	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3 4,142,834.5 4,557,493.0 4,547,644.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36 2.18 2.13 2.21
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June June June June June September	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667 107,045	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667 107,045	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560 50,641,617 54,083,149 54,551,346 53,696,754	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3 4,142,834.5 4,557,493.0 4,547,644.9 4,391,274.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36 2.18 2.13 2.21 1.99
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June June January February March April May June June June June June Cotober	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667 107,045 118,696	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560 50,641,617 54,083,149 54,551,346	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3 4,142,834.5 4,557,493.0 4,547,644.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36 2.18 2.13 2.21 1.99 2.19
2010	des from FBM, 1 October November December January February March April May June July August September October November December January February March April May June June June June June June June September	<b>83 day washout</b> 200,887 198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667 107,045	198,634 189,574 192,758 183,552 215,068 188,105 180,875 178,241 165,864 177,758 166,365 161,852 149,413 138,672 137,516 130,638 131,540 120,366 119,574 110,222 115,163 120,667 107,045	53,659,168 54,883,968 51,450,286 50,753,891 51,049,641 51,030,493 50,910,649 50,666,460 54,641,326 54,980,660 54,070,032 54,563,368 53,909,589 55,105,343 51,458,841 50,763,827 50,819,618 50,872,824 50,767,560 50,641,617 54,083,149 54,551,346 53,696,754	4,380,734.9 4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,165,902.9 4,294,949.2 4,139,401.9 4,585,733.3 4,589,256.6 4,418,135.2 4,556,058.0 4,406,398.6 4,568,429.7 4,279,937.9 4,010,856.0 4,286,583.3 4,159,874.8 4,288,483.3 4,142,834.5 4,557,493.0 4,547,644.9 4,391,274.9	3.70 3.45 3.75 3.62 4.21 3.69 3.55 3.52 3.04 3.23 3.08 2.97 2.77 2.52 2.67 2.57 2.59 2.37 2.36 2.18 2.13 2.21 1.99



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligible Members
2013		0				
	January	106,938	106,938	51,622,607	4,279,622.6	2.07
	February	93,299	93,299	50,948,376	3,890,400.6	1.83
	March	97,985	97,985	51,473,451	4,343,146.2	1.90
	April	104,798	104,798	51,401,697	4,204,244.8	2.04
	May	96,774	96,774	51,306,149	4,336,203.8	1.89
	June	86,366	86,366	50,997,536	4,174,214.3	1.69
	July	100,707	100,707	54,484,326	4,582,271.4	1.85
	August	100,461	100,461	54,749,423	4,577,617.4	1.83
	September	96,189	96,189	53,874,941	4,407,582.0	1.79
	October	107,479	107,479	54,316,650	4,545,074.5	1.98
	November	92,891	92,891	53,693,580	4,393,838.8	1.73
	December	89,285	89,285	54,785,571	4,548,215.1	1.63
2014	December	85,285	05,205	54,785,571	4,540,215.1	1.05
2014		02.202	02 202	50 000 000	4 220 427 0	4.02
	January	92,383	92,383	50,808,268	4,228,127.0	1.82
	February	83,859	83,859	50,121,951	3,828,220.7	1.67
	March	90,637	90,637	50,344,759	4,251,380.5	1.80
	April	90,441	90,441	50,335,699	4,116,595.8	1.80
	May	85,651	85,651	50,186,415	4,241,730.9	1.71
	June	82,576	82,576	50,175,206	4,105,155.4	1.65
	July	98,844	98,844	54,613,931	4,587,370.2	1.81
	-	93,405				1.81
	August		93,405	54,803,565	4,534,255.1	
	September	98,757	98,757	53,449,358	4,373,101.0	1.85
	October	104,534	104,534	54,333,332	4,527,422.8	1.92
	November	87,870	87,870	53,643,121	4,390,278.2	1.64
	December	94,116	94,116	54,604,119	4,536,790.5	1.72
2015						
	January	90,126	90,126	50,955,391	4,238,674.0	1.77
	February	83,436	83,436	50,277,129	3,802,998.3	1.66
	March	96,393	96,393	50,401,295	4,251,426.9	1.91
	April	93,877	93,877	50,454,844	4,124,143.1	1.86
	May	83,899	83,899	50,384,941	4,258,015.9	1.67
	June	87,637	87,637	50,386,665	4,122,687.8	1.74
	July	97,762	97,762	54,499,568	4,579,626.7	1.79
	August	94,506	94,506	55,008,730	4,577,934.4	1.72
	September	97,058	97,058	54,111,042	4,427,148.1	1.79
	October	35	35	54,667,354	4,565,801.3	0.00
	November	19	19	53,980,131	4,417,019.0	0.00
	December	6	6	54,894,856	4,565,532.0	0.00
2016						
	January	7	7	50,749,924	4,227,463.8	0.00
	February	5	5	50,084,235	3,961,090.5	0.00
	March	4	4	50,425,145	4,240,592.9	0.00
	April	1	1	36,454,461	2,983,495.5	0.00
	May	2	2	17,229,304	1,459,125.3	0.00
	-					
	June	4	4	17,252,208	1,414,616.8	0.00
	July	1	1	5,542,817	468,513.8	0.00
_	August	0	0	4,404,751	329,587.7	0.00
10-CM co	odes from an Al	gorithm, 183 day washou	t			
2010						
	October	0	0	54,284,189	4,529,189.7	0.00
	November	0	0	53,659,168	4,380,734.9	0.00
	December	1	1	54,883,968	4,544,036.5	0.00
2011	December	T	Ŧ	J4,003,500	4,344,030.3	0.00
2011	1	^	0	F4 4F0 200	4 370 500 7	0.00
	January	0	0	51,450,286	4,270,563.7	0.00
	February	0	0	50,753,891	3,866,589.3	0.00
	March	0	0	51,049,641	4,297,763.6	0.00
	April	1	1	51,099,748	4,168,379.5	0.00
	May	0	0	51,052,795	4,303,623.3	0.00
	June	2	2	50,879,223	4,153,219.3	0.00
	July	0	0	54,923,108	4,604,849.0	0.00
	August	2	2	55,338,495	4,614,169.9	0.00
	September	0	0	54,510,039	4,448,412.8	0.00
	October	0	0	55,082,696	4,593,334.2	0.00
	November	0	0	54,491,495	4,447,758.1	0.00
	December	0	0	55,760,260	4,616,162.1	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligibl Members
2012		2.08.0000				
	January	0	0	52,129,622	4,329,517.3	0.00
	February	2	2	51,484,510	4,061,215.7	0.00
	March	0	0	51,590,369	4,343,608.6	0.00
	April	1	1	51,695,082	4,219,278.4	0.00
	May	2	2	51,637,279	4,353,916.2	0.00
	June	0	0	51,551,455	4,209,710.4	0.00
		0	0			0.00
	July			55,024,254	4,629,106.4	
	August	3	3	55,552,769	4,623,328.7	0.00
	September	0	0	54,750,675	4,468,660.6	0.00
	October	2	2	55,266,444	4,612,428.8	0.00
	November	1	1	54,679,880	4,465,647.1	0.00
	December	0	0	55,795,459	4,631,307.4	0.00
2013						
	January	2	2	52,779,909	4,367,941.5	0.00
	February	1	1	52,122,018	3,972,358.5	0.00
	March	3	3	52,691,268	4,436,076.6	0.00
	April	3	3	52,646,715	4,296,812.8	0.00
	May	1	1	52,572,077	4,433,875.8	0.00
	-	1	1		4,270,927.6	0.00
	June			52,283,203		
	July	0	0	55,788,508	4,683,263.8	0.00
	August	0	0	56,094,174	4,681,364.6	0.00
	September	1	1	55,256,895	4,511,155.6	0.00
	October	1	1	55,747,748	4,654,978.7	0.00
	November	4	4	55,144,933	4,502,832.5	0.00
	December	2	2	56,270,988	4,663,517.7	0.00
2014						
	January	3	3	52,221,996	4,337,609.2	0.00
	February	3	3	51,546,500	3,928,848.4	0.00
	March	2	2	51,800,256	4,364,181.2	0.00
	April	4	4	51,811,792	4,227,480.8	0.00
	May	10	4 10		4,358,412.2	0.00
			0	51,689,064		
	June	0		51,687,546	4,220,076.0	0.00
	July	3	3	56,142,088	4,706,859.7	0.00
	August	4	4	56,360,954	4,654,626.3	0.00
	September	6	6	55,028,738	4,492,399.3	0.00
	October	7	7	55,955,407	4,653,216.3	0.00
	November	1	1	55,281,186	4,514,199.4	0.00
	December	9	9	56,280,754	4,667,287.1	0.00
2015						
	January	10	10	52,562,365	4,363,771.8	0.00
	February	6	6	51,893,798	3,915,630.0	0.00
	March	6	6	52,016,787	4,377,547.5	0.00
	April	11	11	52,091,747	4,247,782.7	0.00
	-	15	15	52,037,674		0.00
	May				4,387,457.5	
	June	19	19	52,042,673	4,249,016.9	0.00
	July	50	50	56,174,641	4,711,046.0	0.00
	August	143	143	56,710,972	4,711,454.6	0.00
	September	1,012	1,012	55,848,609	4,558,827.6	0.02
	October	183,877	183,877	56,458,283	4,706,529.6	3.26
	November	174,812	174,812	55,849,202	4,560,008.7	3.13
	December	183,447	183,447	56,882,227	4,720,868.8	3.23
2016		·	·			
	January	178,634	178,634	52,746,791	4,382,073.1	3.39
	February	196,790	196,790	52,224,382	4,116,263.3	3.77
	March	224,383	224,383	52,789,250	4,419,568.2	4.25
	April	174,441	174,441	38,289,843	3,127,099.4	4.56
	May	69,660	69,660	17,949,661	1,517,459.5	3.88
		67.000	C7 002	17 046 507	1 460 244 5	3.78
	June	67,803	67,803	17,946,597	1,469,244.5	
	June July	20,193	20,193	5,751,483	485,184.0	3.51



						Number of Incident
		Number of Incident				Diagnoses / 1K Eligible
		Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Members
ICD-10-CM c	odes from SFM,	183 day washout				
2010						
	October	0	0	54,284,189	4,529,189.7	0.00
	November	0	0	53,659,168	4,380,734.9	0.00
	December	1	1	54,883,968	4,544,036.5	0.00
2011				- ,,	,- ,	
	January	0	0	51,450,286	4,270,563.7	0.00
	February	0	0	50,753,891	3,866,589.3	0.00
	March	0	0	51,049,641	4,297,763.6	0.00
		1	1			0.00
	April			51,099,748	4,168,379.5	
	May	0	0	51,052,795	4,303,623.3	0.00
	June	2	2	50,879,223	4,153,219.3	0.00
	July	1	1	54,923,108	4,604,849.0	0.00
	August	2	2	55,338,494	4,614,169.8	0.00
	September	1	1	54,510,038	4,448,412.7	0.00
	October	0	0	55,082,695	4,593,334.1	0.00
	November	0	0	54,491,494	4,447,758.0	0.00
	December	0	0	55,760,259	4,616,162.0	0.00
2012						
	January	0	0	52,129,621	4,329,517.2	0.00
	February	2	2	51,484,509	4,061,215.7	0.00
	March	0	0	51,590,368	4,343,608.5	0.00
		1	1			0.00
	April			51,695,080	4,219,278.3	
	May	2	2	51,637,277	4,353,916.0	0.00
	June	0	0	51,551,453	4,209,710.3	0.00
	July	0	0	55,024,252	4,629,106.3	0.00
	August	3	3	55,552,767	4,623,328.5	0.00
	September	0	0	54,750,673	4,468,660.4	0.00
	October	2	2	55,266,442	4,612,428.6	0.00
	November	1	1	54,679,878	4,465,647.0	0.00
	December	0	0	55,795,457	4,631,307.2	0.00
2013						
	January	2	2	52,779,907	4,367,941.3	0.00
	February	1	1	52,122,016	3,972,358.4	0.00
	March	3	3	52,691,266	4,436,076.4	0.00
	April	3	3	52,646,713	4,296,812.6	0.00
	-		1			0.00
	May	1		52,572,075	4,433,875.6	
	June	1	1	52,283,201	4,270,927.4	0.00
	July	0	0	55,788,506	4,683,263.6	0.00
	August	0	0	56,094,172	4,681,364.4	0.00
	September	1	1	55,256,893	4,511,155.4	0.00
	October	2	2	55,747,746	4,654,978.6	0.00
	November	4	4	55,144,930	4,502,832.3	0.00
	December	3	3	56,270,985	4,663,517.4	0.00
2014						
	January	4	4	52,221,991	4,337,608.8	0.00
	February	5	5	51,546,494	3,928,847.8	0.00
	March	2	2	51,800,249	4,364,180.6	0.00
	April	4	4	51,811,786	4,227,480.3	0.00
	May	10	10	51,689,058	4,358,411.7	0.00
	June	0	0	51,687,539	4,220,075.5	0.00
	July	3	3	56,142,081	4,706,859.1	0.00
	-					
	August	5	5	56,360,947	4,654,625.7	0.00
	September	7	7	55,028,731	4,492,398.7	0.00
	October	8	8	55,955,400	4,653,215.7	0.00
	November	1	1	55,281,179	4,514,198.9	0.00
	December	10	10	56,280,747	4,667,286.5	0.00



	January	Diagnoses	Number of Diagnoses	Eligible Members		
	January			0	Member- Years	Members
		11	11	52,562,359	4,363,771.3	0.00
	February	8	8	51,893,792	3,915,629.5	0.00
	March	8	8	52,016,781	4,377,547.0	0.00
		8 14	14	52,010,781	4,247,781.9	0.00
	April May	14	14			0.00
			23	52,037,662	4,387,456.6	
	June	23		52,042,663	4,249,015.8	0.00
	July	60	60	56,174,626	4,711,044.6	0.00
	August	160	160	56,710,949	4,711,452.3	0.00
	September	1,277	1,277	55,848,576	4,558,823.6	0.02
	October	218,176	218,176	56,451,447	4,704,905.1	3.86
	November	202,086	202,086	55,792,987	4,554,873.4	3.62
	December	207,302	207,302	56,761,455	4,711,286.1	3.65
2016						
	January	198,218	198,218	52,545,435	4,367,391.1	3.77
	February	207,939	207,939	51,915,026	4,095,032.1	4.01
	March	223,385	223,385	52,309,032	4,386,273.6	4.27
	April	162,864	162,864	37,870,499	3,094,148.3	4.30
	May	66,054	66,054	17,765,362	1,502,294.7	3.72
	June	63,652	63,652	17,757,583	1,454,187.5	3.58
	July	19,417	19,417	5,665,184	477,885.2	3.43
	August	13,307	13,307	4,495,774	335,806.5	2.96
-CM co	des from SFM	with cluster logic, 183 day	washout			
2010						
	October	0	0	54,284,189	4,529,189.7	0.00
	November	0	0	53,659,168	4,380,734.9	0.00
	December	1	1	54,883,968	4,544,036.5	0.00
2011						
	January	0	0	51,450,286	4,270,563.7	0.00
	February	0	0	50,753,891	3,866,589.3	0.00
	March	0	0	51,049,641	4,297,763.6	0.00
	April	1	1	51,099,748	4,168,379.5	0.00
	May	0	0	51,052,795	4,303,623.3	0.00
	June	2	2	50,879,223	4,153,219.3	0.00
	July	1	1	54,923,108	4,604,849.0	0.00
	August	2	2	55,338,494	4,614,169.8	0.00
	September	1	1	54,510,038	4,448,412.7	0.00
	October	0	0	55,082,695	4,593,334.1	0.00
	November	0	0	54,491,494	4,447,758.0	0.00
	December	0	0	55,760,259	4,616,162.0	0.00
2012						
	January	0	0	52,129,621	4,329,517.2	0.00
	February	2	2	51,484,509	4,061,215.7	0.00
	March	0	0	51,590,368	4,343,608.5	0.00
	April	1	1	51,695,080	4,219,278.3	0.00
	May	2	2	51,637,277	4,353,916.0	0.00
	June	0	0	51,551,453	4,209,710.3	0.00
	July	0	0	55,024,252	4,629,106.3	0.00
	August	3	3	55,552,767	4,623,328.5	0.00
	September	0	0	54,750,673	4,468,660.4	0.00
	October	2	2	55,266,442	4,612,428.6	0.00
	November	1	1	54,679,878	4,465,647.0	0.00
	December	0	0	55,795,457	4,631,307.2	0.00
2013	December	0	0	55,755,457	4,031,307.2	0.00
	lanuari	n	2		1 267 044 2	0.00
	January	2	2	52,779,907	4,367,941.3	0.00
	February	1	1	52,122,016	3,972,358.4	0.00
	March	3	3	52,691,266	4,436,076.4	0.00
	April	3	3	52,646,713	4,296,812.6	0.00
	May	1	1	52,572,075	4,433,875.6	0.00
	June	1	1	52,283,201	4,270,927.4	0.00
	July	0	0	55,788,506	4,683,263.6	0.00
	August	0	0	56,094,172	4,681,364.4	0.00
	September	1	1	55,256,893	4,511,155.4	0.00
	October	2	2	55,747,746	4,654,978.6	0.00
	November	4	4	55,144,930	4,502,832.3	0.00
		3	3	56,270,985	4,663,517.4	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligik Members
2014		Ū.	Ŭ	0		
	January	4	4	52,221,991	4,337,608.8	0.00
	February	5	5	51,546,494	3,928,847.8	0.00
	March	2	2	51,800,249	4,364,180.6	0.00
		4	4			0.00
	April			51,811,786	4,227,480.3	
	May	10	10	51,689,058	4,358,411.7	0.00
	June	0	0	51,687,539	4,220,075.5	0.00
	July	3	3	56,142,081	4,706,859.1	0.00
	August	5	5	56,360,947	4,654,625.7	0.00
	September	7	7	55,028,731	4,492,398.7	0.00
	October	8	8	55,955,400	4,653,215.7	0.00
	November	1	1	55,281,179	4,514,198.9	0.00
	December	10	10	56,280,747	4,667,286.5	0.00
2015	December	10	10	30,200,747	4,007,200.5	0.00
2015	lanuari	11	11	52 562 350	4 262 771 2	0.00
	January	11	11	52,562,359	4,363,771.3	0.00
	February	8	8	51,893,792	3,915,629.5	0.00
	March	8	8	52,016,781	4,377,547.0	0.00
	April	14	14	52,091,738	4,247,781.9	0.00
	May	17	17	52,037,662	4,387,456.6	0.00
	June	23	23	52,042,663	4,249,015.8	0.00
	July	59	59	56,174,626	4,711,044.6	0.00
	August	160	160	56,710,949	4,711,452.3	0.00
	0		1,261			0.02
	September	1,261		55,848,576	4,558,823.6	
	October	217,018	217,018	56,451,759	4,704,964.2	3.84
	November	201,262	201,262	55,795,074	4,555,054.1	3.61
	December	206,720	206,720	56,765,904	4,711,622.6	3.64
2016						
	January	197,918	197,918	52,552,711	4,367,899.8	3.77
	February	207,927	207,927	51,925,666	4,095,749.8	4.00
	March	224,009	224,009	52,324,456	4,387,339.0	4.28
		163,667	163,667			4.28
	April			37,884,345	3,095,194.9	
	May	66,244	66,244	17,769,647	1,502,638.4	3.73
	June	63,866	63,866	17,761,957	1,454,527.2	3.60
	July	19,458	19,458	5,666,397	477,984.1	3.43
	August	13,341	13,341	4,496,782	335,889.3	2.97
D-CM co	odes from FBM,	183 day washout				
2010						
	October	0	0	54,284,189	4,529,189.7	0.00
	November			, ,	, ,	
		0	0	53,659,168	4,380,734,9	0.00
		0	0	53,659,168 54,883,968	4,380,734.9 4 544 036 5	0.00
2011	December	0 1	0 1	53,659,168 54,883,968	4,380,734.9 4,544,036.5	0.00 0.00
2011	December	1	1	54,883,968	4,544,036.5	0.00
2011		1 0	1 0	54,883,968 51,450,286	4,544,036.5 4,270,563.7	0.00
2011	December	1 0 0	1 0 0	54,883,968	4,544,036.5	0.00 0.00 0.00
2011	December January	1 0	1 0	54,883,968 51,450,286	4,544,036.5 4,270,563.7	0.00
2011	December January February	1 0 0	1 0 0	54,883,968 51,450,286 50,753,891	4,544,036.5 4,270,563.7 3,866,589.3	0.00 0.00 0.00
2011	December January February March April	1 0 0 0 1	1 0 0 0 1	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5	0.00 0.00 0.00 0.00 0.00
2011	December January February March April May	1 0 0 1 0	1 0 0 0 1 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3	0.00 0.00 0.00 0.00 0.00 0.00
2011	December January February March April May June	1 0 0 1 0 2	1 0 0 1 0 2	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3	0.00 0.00 0.00 0.00 0.00 0.00 0.00
2011	December January February March April May June July	1 0 0 1 0 2 1	1 0 0 1 0 2 1	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July August	1 0 0 1 0 2 1 2	1 0 0 1 0 2 1 2	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July	1 0 0 1 0 2 1 2 1 2 1	1 0 0 1 0 2 1 2 1 2 1	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July August	1 0 0 1 0 2 1 2	1 0 0 1 0 2 1 2	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July August September	1 0 0 1 0 2 1 2 1 2 1	1 0 0 1 0 2 1 2 1 2 1	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July August September October	1 0 0 1 0 2 1 2 1 2 1 0	1 0 0 1 0 2 1 2 1 2 1 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	December January February March April May June July August September October November	1 0 0 1 0 2 1 2 1 0 0 0	1 0 0 1 0 2 1 2 1 0 0 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2011	December January February March April May June July August September October November December	1 0 0 1 0 2 1 2 1 0 0 0 0	1 0 0 1 0 2 1 2 1 0 0 0 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	December January February March April May June July August September October November December January	1 0 0 1 0 2 1 2 1 0 0 0 0	1 0 0 1 0 2 1 2 1 0 0 0 0 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	December January February March April May June July August September October November December January February	1 0 0 1 0 2 1 2 1 0 0 0 0 0 0 2	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 2	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	December January February March April May June July August September October November December January February March	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 2 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 2 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5	0.00 0.00
	December January February March April May June July August September October November December January February	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 2 0 1	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 1	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	December January February March April May June July August September October November December January February March	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 2 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 2 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5	0.00 0.00
	December January February March April May June July August September October November December January February March April	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 2 0 1 2	1 0 0 1 0 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0	0.00 0.00
	December January February March April May June July August September October November December January February March April May June	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 1 2 0 1 2 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3	0.00 0.00
	December January February March April May June July August September October November December January February March April May June June June	1 0 0 0 1 0 2 1 2 1 0 0 0 0 0 0 0 0 0 1 2 0 1 2 0 1 2 0 0 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2 0 1 2 0 0 1 2 0 0 1 2 0 0 0 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453 55,024,252	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3 4,629,106.3	0.00 0.00
	December January February March April May June July August September October November December January February March April May June July August	1 0 0 0 1 0 2 1 2 1 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 3	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453 55,024,252 55,552,767	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3 4,629,106.3 4,623,328.5	0.00 0.00
	December January February March April May June July August September October November December January February March April May June July August September	1 0 0 0 1 0 2 1 2 1 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 3 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453 55,024,252 55,552,767 54,750,673	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3 4,629,106.3 4,623,328.5 4,468,660.4	0.00 0.00
	December January February March April May June July August September October November December January February March April May June July August September October	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 2 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453 55,024,252 55,552,767 54,750,673 55,266,442	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3 4,629,106.3 4,623,328.5 4,468,660.4 4,612,428.6	0.00 0.00
	December January February March April May June July August September October November December January February March April May June July August September	1 0 0 0 1 0 2 1 2 1 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 1 2 1 2 1 0 0 0 0 0 0 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 3 0	54,883,968 51,450,286 50,753,891 51,049,641 51,099,748 51,052,795 50,879,223 54,923,108 55,338,494 54,510,038 55,082,695 54,491,494 55,760,259 52,129,621 51,484,509 51,590,368 51,695,080 51,637,277 51,551,453 55,024,252 55,552,767 54,750,673	4,544,036.5 4,270,563.7 3,866,589.3 4,297,763.6 4,168,379.5 4,303,623.3 4,153,219.3 4,604,849.0 4,614,169.8 4,448,412.7 4,593,334.1 4,447,758.0 4,616,162.0 4,329,517.2 4,061,215.7 4,343,608.5 4,219,278.3 4,353,916.0 4,209,710.3 4,629,106.3 4,623,328.5 4,468,660.4	0.00 0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligib Members
2013		2.08.0000	itumber er Diagnotet			
	January	2	2	52,779,907	4,367,941.3	0.00
	February	1	1	52,122,016	3,972,358.4	0.00
	March	3	3	52,691,266	4,436,076.4	0.00
	April	3	3	52,646,713	4,296,812.6	0.00
	May	1	1	52,572,075	4,433,875.6	0.00
	June	1	1	52,283,201	4,270,927.4	0.00
	July	0	0	55,788,506	4,683,263.6	0.00
	August	0	0	56,094,172	4,681,364.4	0.00
	September	1	1	55,256,893	4,511,155.4	0.00
	October	3	3	55,747,746	4,654,978.5	0.00
	November	4	4	55,144,929	4,502,832.2	0.00
	December	3	3	56,270,984	4,663,517.4	0.00
2014	December	5	5	50,270,584	4,003,317.4	0.00
2014						0.00
	January	4	4	52,221,991	4,337,608.8	0.00
	February	5	5	51,546,494	3,928,847.8	0.00
	March	2	2	51,800,249	4,364,180.6	0.00
	April	4	4	51,811,786	4,227,480.3	0.00
	May	10	10	51,689,058	4,358,411.7	0.00
	June	0	0	51,687,539	4,220,075.5	0.00
	July	4	4	56,142,081	4,706,859.1	0.00
	August	5	5	56,360,946	4,654,625.7	0.00
	September	7	7	55,028,730	4,492,398.7	0.00
	October	8	8	55,955,400	4,653,215.7	0.00
	November	1	1	55,281,179	4,514,198.9	0.00
	December	12	12	56,280,747	4,667,286.5	0.00
2015						
	January	11	11	52,562,358	4,363,771.2	0.00
	February	9	9	51,893,791	3,915,629.5	0.00
	-					
	March	10	10	52,016,779	4,377,546.9	0.00
	April	16	16	52,091,736	4,247,781.7	0.00
	May	19	19	52,037,660	4,387,456.5	0.00
	June	26	26	52,042,661	4,249,015.5	0.00
	July	61	61	56,174,619	4,711,044.0	0.00
	August	166	166	56,710,939	4,711,451.5	0.00
	September	1,346	1,346	55,848,563	4,558,822.0	0.02
	October					4.02
		226,680	226,680	56,449,827	4,704,492.4	
	November	208,225	208,225	55,779,523	4,553,643.6	3.73
	December	212,160	212,160	56,734,392	4,709,102.6	3.74
2016						
	January	201,447	201,447	52,503,211	4,364,255.0	3.84
	February	208,948	208,948	51,854,243	4,090,807.5	4.03
	March	221,352	221,352	52,222,263	4,380,112.2	4.24
	April	159,010	159,010	37,789,113	3,087,951.3	4.21
	-					
	May	65,124	65,124	17,729,739	1,499,404.9	3.67
	June	62,268	62,268	17,720,453	1,451,281.0	3.51
	July	18,828	18,828	5,644,489	476,232.6	3.34
	August	12,870	12,870	4,478,595	334,532.1	2.87
-CM co	des from Algorit	hm, SFM, and FBM, 0 day	y washout			
2010						
	October	1,395,767	2,118,675	57,716,153	4,834,624.7	24.18
	November	1,373,840	2,077,284	57,083,139	4,676,871.8	24.07
2044	December	1,359,046	2,065,273	58,361,401	4,851,164.3	23.29
2011						
	January	1,291,778	1,973,705	54,708,355	4,559,066.6	23.61
	February	1,259,457	1,889,304	54,004,537	4,128,109.5	23.32
	March	1,431,004	2,241,430	54,304,661	4,589,505.2	26.35
	April	1,331,377	2,030,298	54,376,438	4,451,813.2	24.48
	May	1,336,802	2,049,610	54,345,382	4,596,809.0	24.60
	-					
	June	1,371,154	2,113,178	54,180,080	4,437,454.8	25.31
	July	1,376,690	2,087,356	58,516,097	4,922,622.7	23.53
	August	1,488,086	2,313,087	58,949,591	4,934,256.4	25.24
	September	1,452,215	2,226,372	58,085,767	4,756,913.3	25.00
	October	1,467,052	2,242,656	58,676,595	4,912,248.5	25.00
	November	1,438,870	2,186,652	58,078,196	4,756,987.5	24.77
	December	1,428,660	2,180,052	59,388,173	4,936,750.4	24.06



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligible Members
2012		0				
	January	1,386,763	2,152,562	55,530,223	4,630,251.0	24.97
	February	1,367,352	2,092,869	54,876,327	4,343,731.8	24.92
	March	1,436,561	2,240,539	54,975,889	4,646,212.7	26.13
	April	1,391,927	2,136,401	55,096,138	4,512,914.6	25.26
	May	1,423,677	2,219,250	55,049,184	4,658,029.6	25.86
	June	1,378,575	2,122,026	54,978,230	4,504,350.2	25.07
	July	1,455,631	2,251,932	58,694,936	4,954,101.6	24.80
	August	1,514,225	2,371,508	59,224,748	4,948,556.2	25.57
	September	1,415,284	2,155,727	58,386,075	4,782,162.8	24.24
	October	1,557,569	2,440,846	58,911,806	4,936,312.3	26.44
	November	1,459,318	2,242,862	58,315,915	4,778,740.5	25.02
	December	1,393,861	2,132,986	59,471,414	4,955,666.4	23.44
2013						
	January	1,435,366	2,272,302	56,197,731	4,670,823.4	25.54
	February	1,337,912	2,056,644	55,542,762	4,246,777.7	24.09
	March	1,421,123	2,224,638	56,138,854	4,744,073.1	25.31
	April	1,490,948	2,377,252	56,104,107	4,595,653.8	26.57
	May	1,452,527	2,308,831	56,057,246	4,744,239.6	25.91
	June	1,383,185	2,151,760	55,778,760	4,571,072.3	24.80
	July	1,520,473	2,408,155	59,556,573	5,016,305.0	25.53
	August	1,518,744	2,402,529	59,876,675	5,015,940.4	25.36
	September	1,487,805	2,319,683	59,000,407	4,833,576.6	25.22
	October	1,610,320	2,570,860	59,493,519	4,988,077.6	27.07
	November	1,451,789	2,244,179	58,886,507	4,825,393.1	24.65
	December	1,464,601	2,291,728	60,055,310	4,997,010.4	24.39
2014						
	January	1,417,125	2,247,657	55,701,673	4,645,703.0	25.44
	February	1,347,841	2,086,942	55,017,049	4,207,098.7	24.50
	March	1,450,536	2,295,046	55,271,800	4,673,920.9	26.24
	April	1,468,578	2,338,731	55,288,350	4,527,701.2	26.56
	May	1,426,490	2,264,498	55,167,407	4,668,733.3	25.86
	June	1,416,788	2,235,408	55,203,751	4,521,918.7	25.66
	July	1,564,101	2,501,306	60,017,841	5,048,903.4	26.06
	August	1,499,852	2,371,778	60,258,780	4,995,827.3	24.89
	September	1,561,319	2,482,377	58,851,445	4,821,953.3	26.53
	October	1,632,356	2,625,097	59,811,527	4,994,616.9	27.29
	November	1,433,165	2,211,419	59,123,837	4,845,527.4	24.24
	December	1,548,406	2,470,413	60,149,691	5,009,350.1	25.74
2015						
	January	1,425,649	2,272,867	56,110,525	4,678,415.9	25.41
	February	1,349,763	2,105,862	55,431,573	4,198,556.6	24.35
	March	1,531,160	2,466,998	55,562,529	4,693,730.3	27.56
	April	1,518,912	2,448,717	55,654,716	4,555,384.6	27.29
	May	1,429,534	2,275,709	55,625,323	4,706,910.3	25.70
	June	1,510,771	2,438,433	55,657,221	4,559,569.0	27.14
	July	1,602,158	2,578,831	60,121,043	5,059,633.5	26.65
	August	1,563,669	2,472,493	60,711,514	5,062,973.3	25.76
	September	1,589,448	2,485,106	59,802,370	4,899,634.6	26.58
	October	1,384	2,301	60,415,951	5,056,566.0	0.02
	November	511	778	59,733,371	4,894,566.1	0.01
	December	248	415	60,716,875	5,061,375.7	0.00
2016						
	January	158	240	56,184,879	4,690,539.7	0.00
	February	111	165	55,510,698	4,396,218.4	0.00
	March	84	85	55,892,627	4,707,486.7	0.00
	April	72	75	40,838,247	3,348,128.0	0.00
	May	57	59	18,931,915	1,605,398.3	0.00
	June	66	66	18,953,391	1,556,068.3	0.00
	July	64	64	6,080,161	514,545.9	0.01
	August	35	35	4,828,490	361,293.6	0.01



		Number of Incident	Number of Discussion	Flicible Members	Mambau Voor	Number of Incident Diagnoses / 1K Eligible
0-CM o	odes from an Al	Diagnoses gorithm, 0 day washout	Number of Diagnoses	Eligible Members	Member- Years	Members
2010	oues nom an Ai	gontinn, o day washout				
2010	October	2	2	57,716,153	4,834,624.7	0.00
	November	0	0	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011	Determber	-	-	00,001,101	1,00 1,10 110	0.00
	January	2	2	54,708,355	4,559,066.6	0.00
	February	2	2	54,004,537	4,128,109.5	0.00
	March	0	0	54,304,661	4,589,505.2	0.00
	April	2	2	54,376,438	4,451,813.2	0.00
	May	3	3	54,345,382	4,596,809.0	0.00
	June	3	3	54,180,080	4,437,454.8	0.00
	July	3	3	58,516,097	4,922,622.7	0.00
	August	5	5	58,949,591	4,934,256.4	0.00
	September	3	3	58,085,767	4,756,913.3	0.00
	October	2	2			0.00
	November	3	3	58,676,595	4,912,248.5	0.00
				58,078,196	4,756,987.5	
2012	December	2	2	59,388,173	4,936,750.4	0.00
2012	lanuar	2	2		4 620 254 0	0.00
	January	3	3	55,530,223	4,630,251.0	0.00
	February	6	6	54,876,327	4,343,731.8	0.00
	March	8	8	54,975,889	4,646,212.7	0.00
	April	8	8	55,096,138	4,512,914.6	0.00
	May	8	8	55,049,184	4,658,029.6	0.00
	June	1	1	54,978,230	4,504,350.2	0.00
	July	6	6	58,694,936	4,954,101.6	0.00
	August	7	7	59,224,748	4,948,556.2	0.00
	September	3	3	58,386,075	4,782,162.8	0.00
	October	8	8	58,911,806	4,936,312.3	0.00
	November	10	10	58,315,915	4,778,740.5	0.00
	December	3	3	59,471,414	4,955,666.4	0.00
2013						
	January	15	15	56,197,731	4,670,823.4	0.00
	February	10	10	55,542,762	4,246,777.7	0.00
	March	20	20	56,138,854	4,744,073.1	0.00
	April	18	18	56,104,107	4,595,653.8	0.00
	May	3	3	56,057,246	4,744,239.6	0.00
	June	10	10	55,778,760	4,571,072.3	0.00
	July	10	10	59,556,573	5,016,305.0	0.00
	August	10	10	59,876,675	5,015,940.4	0.00
	September	12	12	59,000,407	4,833,576.6	0.00
	October	10	10	59,493,519	4,988,077.6	0.00
	November	19	19	58,886,507	4,825,393.1	0.00
	December	13	13	60,055,310	4,997,010.4	0.00
2014		-	-		,	
	January	18	20	55,701,673	4,645,703.0	0.00
	February	18	18	55,017,049	4,207,098.7	0.00
	March	26	26	55,271,800	4,673,920.9	0.00
	April	30	30	55,288,350	4,527,701.2	0.00
	May	33	36	55,167,407	4,668,733.3	0.00
	June	34	34	55,203,751	4,521,918.7	0.00
	July	49	49	60,017,841	5,048,903.4	0.00
	-	53	58	60,258,780		0.00
	August September	53	58	58,851,445	4,995,827.3	0.00
	•				4,821,953.3	0.00
	October	54 46	54 46	59,811,527	4,994,616.9	0.00
	November December	72	73	59,123,837 60,149,691	4,845,527.4 5,009,350.1	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Incident Diagnoses / 1K Eligible Members
2015						
	January	123	123	56,110,525	4,678,415.9	0.00
	February	110	111	55,431,573	4,198,556.6	0.00
	March	143	143	55,562,529	4,693,730.3	0.00
		145	158			0.00
	April			55,654,716	4,555,384.6	
	May	213	213	55,625,323	4,706,910.3	0.00
	June	332	332	55,657,221	4,559,569.0	0.01
	July	637	641	60,121,043	5,059,633.5	0.01
	August	3,169	4,683	60,711,514	5,062,973.3	0.05
	September	14,384	20,428	59,802,370	4,899,634.6	0.24
	October	1,190,269	1,700,674	60,415,951	5,056,566.0	19.70
	November	1,103,983	1,557,080	59,733,371	4,894,566.1	18.48
	December	1,147,504	1,641,689	60,716,875	5,061,375.7	18.90
2016	December	1,117,301	1,011,005	00,710,075	3,001,373.7	10.50
2010	lanuaru	1 020 041	1 440 227	FC 104 070		10.10
	January	1,020,041	1,449,327	56,184,879	4,690,539.7	18.16
	February	1,046,930	1,490,260	55,510,698	4,396,218.4	18.86
	March	1,120,162	1,616,078	55,892,627	4,707,486.7	20.04
	April	872,948	1,249,354	40,838,247	3,348,128.0	21.38
	May	312,477	442,599	18,931,915	1,605,398.3	16.51
	June	315,721	447,286	18,953,391	1,556,068.3	16.66
	July	81,733	104,609	6,080,161	514,545.9	13.44
	-	55,691	72,036	4,828,490	361,293.6	11.53
CD4	August	,	72,030	4,020,490	301,293.0	11.55
	odes from SFM,	u day washout				
2010						
	October	2	2	57,716,153	4,834,624.7	0.00
	November	0	0	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011						
	January	2	2	54,708,355	4,559,066.6	0.00
	February	3	3	54,004,537	4,128,109.5	0.00
	March	0	0	54,304,661	4,589,505.2	0.00
	April	2	2	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	4	4	54,180,080	4,437,454.8	0.00
	July	5	5	58,516,097	4,922,622.7	0.00
	August	6	6	58,949,591	4,934,256.4	0.00
	September	7	7	58,085,767	4,756,913.3	0.00
	October	2	2	58,676,595	4,912,248.5	0.00
	November	5	5	58,078,196	4,756,987.5	0.00
	December	6	6	59,388,173	4,936,750.4	0.00
2012						
	January	3	3	55,530,223	4,630,251.0	0.00
	February	10	10	54,876,327	4,343,731.8	0.00
	March	8	8	54,975,889	4,646,212.7	0.00
	April	10	10	55,096,138	4,512,914.6	0.00
	May	9	9	55,049,184	4,658,029.6	0.00
	June	2	2	54,978,230	4,504,350.2	0.00
	July	8	8	58,694,936	4,954,101.6	0.00
	August	9	9	59,224,748	4,948,556.2	0.00
	September	5	5	58,386,075	4,782,162.8	0.00
	October	15	15	58,911,806	4,936,312.3	0.00
	November	11	11	58,315,915	4,778,740.5	0.00
	December	6	6	59,471,414	4,955,666.4	0.00
2013				,	.,,	
-919	January	18	18	56,197,731	4,670,823.4	0.00
	February	13	13	55,542,762	4,246,777.7	0.00
	March	24	24	56,138,854	4,744,073.1	0.00
	April	20	20	56,104,107	4,595,653.8	0.00
	May	6	6	56,057,246	4,744,239.6	0.00
	June	14	14	55,778,760	4,571,072.3	0.00
	July	18	18	59,556,573	5,016,305.0	0.00
	-					
	August	15	15	59,876,675	5,015,940.4	0.00
	September	21	21	59,000,407	4,833,576.6	0.00
		10	13	59,493,519	4,988,077.6	0.00
	October	13			//-	
	October November	24	24	58,886,507	4,825,393.1	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligil Members
2014				0		
	January	25	42	55,701,673	4,645,703.0	0.00
	February	28	28	55,017,049	4,207,098.7	0.00
	March	35	35	55,271,800	4,673,920.9	0.00
	April	39	39	55,288,350		0.00
	•				4,527,701.2	
	May	45	48	55,167,407	4,668,733.3	0.00
	June	37	37	55,203,751	4,521,918.7	0.00
	July	66	66	60,017,841	5,048,903.4	0.00
	August	66	71	60,258,780	4,995,827.3	0.00
	September	69	69	58,851,445	4,821,953.3	0.00
	October	76	76	59,811,527	4,994,616.9	0.00
	November	67	67	59,123,837	4,845,527.4	0.00
	December	91	93	60,149,691	5,009,350.1	0.00
2015		•-			-,,	
2015	January	164	164	56,110,525	4,678,415.9	0.00
	-					
	February	147	149	55,431,573	4,198,556.6	0.00
	March	192	192	55,562,529	4,693,730.3	0.00
	April	209	218	55,654,716	4,555,384.6	0.00
	May	290	290	55,625,323	4,706,910.3	0.01
	June	437	438	55,657,221	4,559,569.0	0.01
	July	810	815	60,121,043	5,059,633.5	0.01
	August	4,193	6,275	60,711,514	5,062,973.3	0.07
	September	19,235	27,440	59,802,370	4,899,634.6	0.32
	October					
		1,528,147	2,364,064	60,415,951	5,056,566.0	25.29
	November	1,425,178	2,164,295	59,733,371	4,894,566.1	23.86
	December	1,480,636	2,289,309	60,716,875	5,061,375.7	24.39
2016						
	January	1,343,749	2,061,946	56,184,879	4,690,539.7	23.92
	February	1,380,676	2,121,560	55,510,698	4,396,218.4	24.87
	, March	1,469,889	2,301,060	55,892,627	4,707,486.7	26.30
	April	1,148,463	1,779,331	40,838,247	3,348,128.0	28.12
	-					
	May	417,366	638,194	18,931,915	1,605,398.3	22.05
	June	421,467	646,050	18,953,391	1,556,068.3	22.24
	July	117,830	161,055	6,080,161	514,545.9	19.38
	August	77,404	105,454	4,828,490	361,293.6	16.03
-CM c	odes from SFM	with cluster logic, 0 day w	/ashout			
2010						
	October	2	2	57,716,153	4,834,624.7	0.00
	November	0	0	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011	December	-	-	00,001,101	1,001,10110	0100
2011	lanuany	2	2	54,708,355		0.00
	January	-	-		4,559,066.6	
	February	3	3	54,004,537	4,128,109.5	0.00
	March	0	0	54,304,661	4,589,505.2	0.00
	April	2	2	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	4	4	54,180,080	4,437,454.8	0.00
	July	5	5	58,516,097	4,922,622.7	0.00
	August	6	6	58,949,591	4,934,256.4	0.00
	-					
	September	7	7	58,085,767	4,756,913.3	0.00
	October	2	2	58,676,595	4,912,248.5	0.00
	November	5	5	58,078,196	4,756,987.5	0.00
	December	6	6	59,388,173	4,936,750.4	0.00
2012						
	January	3	3	55,530,223	4,630,251.0	0.00
	February	10	10	54,876,327	4,343,731.8	0.00
	March	8	8			0.00
				54,975,889	4,646,212.7	
	April	10	10	55,096,138	4,512,914.6	0.00
	•	9	9	55,049,184	4,658,029.6	0.00
	May			F 4 0 7 0 2 2 0	4,504,350.2	0.00
	•	2	2	54,978,230	.,	
	May		2 8	54,978,230 58,694,936	4,954,101.6	0.00
	May June July	2 8	8	58,694,936	4,954,101.6	
	May June July August	2 8 9	8 9	58,694,936 59,224,748	4,954,101.6 4,948,556.2	0.00
	May June July August September	2 8 9 5	8 9 5	58,694,936 59,224,748 58,386,075	4,954,101.6 4,948,556.2 4,782,162.8	0.00 0.00
	May June July August September October	2 8 9 5 15	8 9 5 15	58,694,936 59,224,748 58,386,075 58,911,806	4,954,101.6 4,948,556.2 4,782,162.8 4,936,312.3	0.00 0.00 0.00
	May June July August September	2 8 9 5	8 9 5	58,694,936 59,224,748 58,386,075	4,954,101.6 4,948,556.2 4,782,162.8	0.00 0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inciden Diagnoses / 1K Eligib Members
2013						
	January	18	18	56,197,731	4,670,823.4	0.00
	February	13	13	55,542,762	4,246,777.7	0.00
	March	24	24	56,138,854	4,744,073.1	0.00
	April	20	20	56,104,107	4,595,653.8	0.00
	May	6	6	56,057,246	4,744,239.6	0.00
	-					
	June	14	14	55,778,760	4,571,072.3	0.00
	July	18	18	59,556,573	5,016,305.0	0.00
	August	15	15	59,876,675	5,015,940.4	0.00
	September	21	21	59,000,407	4,833,576.6	0.00
	October	13	13	59,493,519	4,988,077.6	0.00
	November	24	24	58,886,507	4,825,393.1	0.00
	December	22	22	60,055,310	4,997,010.4	0.00
2014	December			00,000,010	1,557,62011	0.00
2014	lanuari	35	42	FF 701 (72)	4 645 702 0	0.00
	January	25	42	55,701,673	4,645,703.0	0.00
	February	28	28	55,017,049	4,207,098.7	0.00
	March	34	34	55,271,800	4,673,920.9	0.00
	April	39	39	55,288,350	4,527,701.2	0.00
	May	44	47	55,167,407	4,668,733.3	0.00
	June	37	37	55,203,751	4,521,918.7	0.00
	July	66	66	60,017,841	5,048,903.4	0.00
		65	70	60,258,780		0.00
	August				4,995,827.3	
	September	69	69	58,851,445	4,821,953.3	0.00
	October	76	76	59,811,527	4,994,616.9	0.00
	November	67	67	59,123,837	4,845,527.4	0.00
	December	90	92	60,149,691	5,009,350.1	0.00
2015						
	January	163	163	56,110,525	4,678,415.9	0.00
	February	145	147	55,431,573	4,198,556.6	0.00
	March	192	192	55,562,529	4,693,730.3	0.00
	April	206	215	55,654,716	4,555,384.6	0.00
	May	288	288	55,625,323	4,706,910.3	0.01
	June	434	435	55,657,221	4,559,569.0	0.01
	July	805	810	60,121,043	5,059,633.5	0.01
	August	4,163	6,236	60,711,514	5,062,973.3	0.07
	September	18,992	27,163	59,802,370	4,899,634.6	0.32
	October	1,514,447	2,334,758	60,415,951	5,056,566.0	25.07
	November	1,412,925	2,139,611	59,733,371	4,894,566.1	23.65
	December	1,468,666	2,264,768	60,716,875	5,061,375.7	24.19
2016						
	January	1,332,277	2,038,579	56,184,879	4,690,539.7	23.71
	February	1,368,714	2,097,565	55,510,698	4,396,218.4	24.66
	March	1,457,385	2,274,979	55,892,627	4,707,486.7	26.07
	April	1,137,709	1,757,565	40,838,247	3,348,128.0	27.86
	May	414,344	631,916	18,931,915	1,605,398.3	21.89
	June	418,388	639,945	18,953,391	1,556,068.3	22.07
	July	117,183	159,993	6,080,161	514,545.9	19.27
	August	77,058	104,866	4,828,490	361,293.6	15.96
0-CM c	odes from FBM,		- ,	,, - <del>-</del>	. ,	
2010		e aay masmout				
2010	October	n	n	E7 74C 4E2	1 0 1 ( 2 4 7	0.00
	October	2	2	57,716,153	4,834,624.7	0.00
	November	0	0	57,083,139	4,676,871.8	0.00
	December	2	2	58,361,401	4,851,164.3	0.00
2011						
	January	2	2	54,708,355	4,559,066.6	0.00
	February	3	3	54,004,537	4,128,109.5	0.00
	March	0	0	54,304,661	4,589,505.2	0.00
	April	2	2	54,376,438	4,451,813.2	0.00
	May	4	4	54,345,382	4,596,809.0	0.00
	June	4	4	54,180,080	4,437,454.8	0.00
	July	5	5	58,516,097	4,922,622.7	0.00
	August	7	7	58,949,591	4,934,256.4	0.00
	-	8	8	58,085,767		0.00
	September				4,756,913.3	
	October	2	2	58,676,595	4,912,248.5	0.00
		-				0.00
	November	5	5	58,078,196	4,756,987.5	0.00



		Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Number of Inci Diagnoses / 1K E Members
2012		Diagnoses	Number of Blaghoses	Ligible members	Member Tears	Wielinders
	January	3	3	55,530,223	4,630,251.0	0.00
	February	10	10	54,876,327	4,343,731.8	0.00
	March	8	8	54,975,889	4,646,212.7	0.00
		11	11	55,096,138	4,512,914.6	0.00
	April					
	May	9	9	55,049,184	4,658,029.6	0.00
	June	2	2	54,978,230	4,504,350.2	0.00
	July	9	9	58,694,936	4,954,101.6	0.00
	August	9	9	59,224,748	4,948,556.2	0.00
	September	5	5	58,386,075	4,782,162.8	0.00
	October	17	17	58,911,806	4,936,312.3	0.00
	November	11	11	58,315,915	4,778,740.5	0.00
	December	6	6	59,471,414	4,955,666.4	0.00
2013				, ,	,,	
2015	January	18	18	56,197,731	4,670,823.4	0.00
		13				
	February		13	55,542,762	4,246,777.7	0.00
	March	25	25	56,138,854	4,744,073.1	0.00
	April	21	21	56,104,107	4,595,653.8	0.00
	May	6	6	56,057,246	4,744,239.6	0.00
	June	15	15	55,778,760	4,571,072.3	0.00
	July	20	20	59,556,573	5,016,305.0	0.00
	August	16	16	59,876,675	5,015,940.4	0.00
	September	23	23	59,000,407	4,833,576.6	0.00
	October	17	17	59,493,519	4,988,077.6	0.00
	November	26	26	58,886,507	4,825,393.1	0.00
	December					
2014	December	23	23	60,055,310	4,997,010.4	0.00
	January	26	43	55,701,673	4,645,703.0	0.00
	February	29	29	55,017,049	4,207,098.7	0.00
	March	37	37	55,271,800	4,673,920.9	0.00
	April	44	44	55,288,350	4,527,701.2	0.00
	-	44	51		4,668,733.3	0.00
	May			55,167,407		
	June	42	42	55,203,751	4,521,918.7	0.00
	July	73	73	60,017,841	5,048,903.4	0.00
	August	68	73	60,258,780	4,995,827.3	0.00
	September	73	73	58,851,445	4,821,953.3	0.00
	October	77	77	59,811,527	4,994,616.9	0.00
	November	75	75	59,123,837	4,845,527.4	0.00
	December	108	110	60,149,691	5,009,350.1	0.00
2015				, -,	-,	
	January	181	181	56,110,525	4,678,415.9	0.00
	February	161	163	55,431,573	4,198,556.6	0.00
	March	210	210	55,562,529	4,693,730.3	0.00
	April	236	246	55,654,716	4,555,384.6	0.00
	-	322	323			0.01
	May			55,625,323	4,706,910.3	
	June	473	474	55,657,221	4,559,569.0	0.01
	July	881	886	60,121,043	5,059,633.5	0.01
	August	4,552	6,839	60,711,514	5,062,973.3	0.07
	September	20,492	29,633	59,802,370	4,899,634.6	0.34
	October	1,611,779	2,553,914	60,415,951	5,056,566.0	26.68
	November	1,506,494	2,339,287	59,733,371	4,894,566.1	25.22
	December	1,563,937	2,475,326	60,716,875	5,061,375.7	25.76
2016		, <u>-</u> -	, -,	, -,	, ,	0
-	January	1,425,557	2,241,506	56,184,879	4,690,539.7	25.37
	February	1,466,545	2,309,511	55,510,698	4,396,218.4	26.42
	March	1,559,336	2,505,233	55,892,627	4,707,486.7	27.90
	April	1,228,325	1,954,756	40,838,247	3,348,128.0	30.08
	May	451,144	710,877	18,931,915	1,605,398.3	23.83
	June	455,662	720,365	18,953,391	1,556,068.3	24.04
	July	135,452	194,162	6,080,161	514,545.9	22.28
	July	133,432	134,102	0,000,101	511,515.5	22.20

	Number of Incident Diagnoses	Number of Diagnoses	Eligible Members	Member- Years	Sentin Number of Incident Diagnoses / 1K Eligible Members
15					
	lgorithm, SFM, and FBM, 90 c	lay washout			
2015					
January	521,886	521,886	53,807,264	4,442,831.2	9.70
February		476,447	53,086,417	3,986,819.8	8.97
March	547,959	547,959	53,223,228	4,455,461.1	10.30
16					
	an Algorithm, 90 day washou	t			
2016					
January	477,218	477,218	54,343,771	4,496,301.5	8.78
February	492,037	492,037	53,691,244	4,216,426.7	9.16
March	527,598	527,598	54,076,355	4,513,766.7	9.76
D-10-CM codes from	SFM, 90 day washout				
2016					
January	522,776	522,776	53,891,932	4,455,284.8	9.70
February	537,088	537,088	53,225,829	4,176,848.9	10.09
March	570,525	570,525	53,589,673	4,469,970.5	10.65
D-10-CM codes from	SFM with cluster logic, 90 day	/ washout			
2016					
January	521,791	521,791	53,908,370	4,456,742.7	9.68
February	-	535,890	53,242,232	4,178,224.1	10.07
March	569,454	569,454	53,606,641	4,471,473.2	10.62
	FBM, 90 day washout				
2016					
January	523,532	523,532	53,790,844	4,446,869.5	9.73
February	538,471	538,471	53,122,220	4,168,673.2	10.14
March	570,427	570,427	53,480,935	4,460,907.1	10.67



#### Figures 2a-2e. Number of Diabetes Diagnoses by Monitoring Period, Code Type, Code Source, and Washout Period

















#### Figures 2f-2i. Number of Number of Incident Diagnoses per 1,000 Eligible Members of Diabetes by Monitoring Period, Code Type, Code Source, and Washout Period













## Appendix A. Latest Date of Available Data for Each Data Partner up to Request End Date

DP ID	Start Date	End Date
DP0001	10/1/2010	6/30/2016
DP0002	10/1/2010	4/30/2016
DP0003	10/1/2010	6/30/2016
DP0004	10/1/2010	7/31/2016
DP0005	10/1/2010	7/31/2016
DP0006	10/1/2010	6/30/2016
DP0007	10/1/2010	5/31/2016
DP0008	10/1/2010	7/31/2016
DP0009	10/1/2010	8/31/2016
DP0010	10/1/2010	3/31/2016
DP0011	10/1/2010	4/30/2016



## Appendix B. List of Codes Used to Define Hypertension, Algorithm

Code	Description	Code Type
401.0	Essential hypertension, malignant	ICD-9-CM Diagnosis
101.1	Essential hypertension, benign	ICD-9-CM Diagnosis
01.9	Unspecified essential hypertension	ICD-9-CM Diagnosis
02.0	Malignant hypertensive heart disease	ICD-9-CM Diagnosis
02.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
02.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
02.1	Benign hypertensive heart disease	ICD-9-CM Diagnosis
02.10	Benign hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
02.11	Benign hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
)2.9	Unspecified hypertensive heart disease	ICD-9-CM Diagnosis
)2.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
02.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM Diagnosis
03.0		-
15.0	Hypertensive chronic kidney disease, malignant	ICD-9-CM Diagnosis
03.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
03.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
03.1	Hypertensive chronic kidney disease, benign	ICD-9-CM Diagnosis
03.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
03.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
03.9	Hypertensive chronic kidney disease, unspecified	ICD-9-CM Diagnosis
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or	
)3.90	unspecified	ICD-9-CM Diagnosis
)3.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
04.0	Hypertensive heart and chronic kidney disease, malignant	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease	
04.00	stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
51.00	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage	
04.01	I through stage IV, or unspecified	ICD-9-CM Diagnosis
04.01	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease	ICD-5-CIVI Diagnosis
04.02	stage V or end stage renal disease	ICD 0 CM Diagnosis
04.02		ICD-9-CM Diagnosis
14.02	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage	
04.03	V or end stage renal disease	ICD-9-CM Diagnosis
04.1	Hypertensive heart and chronic kidney disease, benign	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage	
04.10	I through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I	
04.11	through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage	
04.12	V or end stage renal disease	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end	
04.13	stage renal disease	ICD-9-CM Diagnosis
04.9	Hypertensive heart and chronic kidney disease, unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease	-
04.90	stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease	-
04.91	stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease	
04.92	stage V or end stage renal disease	ICD-9-CM Diagnosis
)4.92 )4.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V	ICD-9-CM Diagnosis
)5.0	Secondary hypertension, malignant	ICD-9-CM Diagnosis
)5.01	Secondary renovascular hypertension, malignant	ICD-9-CM Diagnosis
)5.09	Other secondary hypertension, malignant	ICD-9-CM Diagnosis
)5.1	Secondary hypertension, benign	
л.т.	Secondary reportension, benign Secondary renovascular hypertension, benign	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
05.11		



## Appendix B. List of Codes Used to Define Hypertension, Algorithm

Code	Description	Code Type
405.9	Unspecified secondary hypertension, unspecified	ICD-9-CM Diagnosis
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM Diagnosis
110	Essential (primary) hypertension	ICD-10-CM Diagnosis
111	Hypertensive heart disease	ICD-10-CM Diagnosis
111.0	Hypertensive heart disease with heart failure	ICD-10-CM Diagnosis
111.9	Hypertensive heart disease without heart failure	ICD-10-CM Diagnosis
112	Hypertensive chronic kidney disease	ICD-10-CM Diagnosis
112.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM Diagnosis
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic	
112.9	kidney disease	ICD-10-CM Diagnosis
113	Hypertensive heart and chronic kidney disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney	
113.0	disease, or unspecified chronic kidney disease	ICD-10-CM Diagnosis
113.1	Hypertensive heart and chronic kidney disease without heart failure	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney	
113.10	disease, or unspecified chronic kidney disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end	
113.11	stage renal disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end	
113.2	stage renal disease	ICD-10-CM Diagnosis
115	Secondary hypertension	ICD-10-CM Diagnosis
115.0	Renovascular hypertension	ICD-10-CM Diagnosis
115.1	Hypertension secondary to other renal disorders	ICD-10-CM Diagnosis
115.2	Hypertension secondary to endocrine disorders	ICD-10-CM Diagnosis
115.8	Other secondary hypertension	ICD-10-CM Diagnosis
115.9	Secondary hypertension, unspecified	ICD-10-CM Diagnosis
		5



## Appendix C. List of Codes Used to Define Hypertension, Simple Forward Mapping (SFM)

Code	Description	Code Type
401.0	Essential hypertension, malignant	ICD-9-CM Diagnosis
401.1	Essential hypertension, benign	ICD-9-CM Diagnosis
401.9	Unspecified essential hypertension	ICD-9-CM Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM Diagnosis
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or	ICD-9-CM Diagnosis
403.90	unspecified	ICD-9-CM Diagnosis
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease	ICD-9-CM Diagnosis
404.00	stage I through stage IV, or unspecified Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage	ICD-9-CM Diagnosis
404.01	I through stage IV, or unspecified Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease	ICD-9-CM Diagnosis
404.02	stage V or end stage renal disease Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage	ICD-9-CM Diagnosis
404.03	V or end stage renal disease Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage	ICD-9-CM Diagnosis
404.10	I through stage IV, or unspecified Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I	ICD-9-CM Diagnosis
404.11	through stage IV, or unspecified Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage	ICD-9-CM Diagnosis
404.12 404.13	V or end stage renal disease Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end	
404.13	stage renal disease Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
107.50	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease	
404.91	stage I through stage IV, or unspecified Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease	ICD-9-CM Diagnosis
404.92	stage V or end stage renal disease Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V	ICD-9-CM Diagnosis
404.93	or end stage renal disease	ICD-9-CM Diagnosis
404.93 405.01	Secondary renovascular hypertension, malignant	ICD-9-CM Diagnosis
405.01 405.09	Other secondary hypertension, malignant	0
		ICD-9-CM Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM Diagnosis
405.19	Other secondary hypertension, benign Secondary renovascular hypertension, unspecified	ICD-9-CM Diagnosis
405.91		ICD-9-CM Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM Diagnosis
110	Essential (primary) hypertension	ICD-10-CM Diagnosis
116.9 111.9	Hypertensive crisis, unspecified Hypertensive heart disease without heart failure	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
111.0	Hypertensive heart disease with heart failure Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic	ICD-10-CM Diagnosis
112.9	kidney disease	ICD-10-CM Diagnosis
		-



## Appendix C. List of Codes Used to Define Hypertension, Simple Forward Mapping (SFM)

Code	Description	Code Type
	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney	
I13.10	disease, or unspecified chronic kidney disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney	
I13.0	disease, or unspecified chronic kidney disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end	
13.11	stage renal disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end	
113.2	stage renal disease	ICD-10-CM Diagnosis
115.0	Renovascular hypertension	ICD-10-CM Diagnosis
115.8	Other secondary hypertension	ICD-10-CM Diagnosis



Code	Description	Code Type
401.0	Essential hypertension, malignant	ICD-9-CM Diagnosis
401.1	Essential hypertension, benign	ICD-9-CM Diagnosis
401.9	Unspecified essential hypertension	ICD-9-CM Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM Diagnosis
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM Diagnosis
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis
403.90 403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I	
404.00	through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I	
404.01	through stage IV, or unspecified	ICD-9-CM Diagnosis
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or and stage repair disease	ICD-9-CM Diagnosis
404.02	or end stage renal disease Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or	ICD-9-CIVI Diagnosis
404.03	end stage renal disease	ICD-9-CM Diagnosis
404.05	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I	ICD 5 CIVI Didghosis
404.10	through stage IV, or unspecified	ICD-9-CM Diagnosis
101.10	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I	leb 5 etti bidgilosis
404.11	through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or	
404.12	end stage renal disease	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end	
404.13	stage renal disease	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I	
404.90	through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I	
404.91	through stage IV, or unspecified	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage	
404.92	V or end stage renal disease	ICD-9-CM Diagnosis
	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end	
404.93	stage renal disease	ICD-9-CM Diagnosis
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM Diagnosis
405.09	Other secondary hypertension, malignant	ICD-9-CM Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM Diagnosis
405.19	Other secondary hypertension, benign	ICD-9-CM Diagnosis
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM Diagnosis
110 116 0	Essential (primary) hypertension	ICD-10-CM Diagnosis
116.9 111.9	Hypertensive crisis, unspecified Hypertensive heart disease without heart failure	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
111.0	Hypertensive heart disease with heart failure	ICD-10-CM Diagnosis
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney	ICD-10-CM Diagnosis
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney	
I13.10	disease, or unspecified chronic kidney disease	ICD-10-CM Diagnosis
	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or	
I13.0	unspecified chronic kidney disease	ICD-10-CM Diagnosis
113.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage	ICD-10-CM Diagnosis
113.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage	ICD-10-CM Diagnosis
115.0	Renovascular hypertension	ICD-10-CM Diagnosis
115.8	Other secondary hypertension	ICD-10-CM Diagnosis



Code	Description	Code Type
N26.2	Page kidney	ICD-10-CM Diagnosis
I15.1	Hypertension secondary to other renal disorders	ICD-10-CM Diagnosis
115.2	Hypertension secondary to endocrine disorders	ICD-10-CM Diagnosis
115.9	Secondary hypertension, unspecified	ICD-10-CM Diagnosis
116.0	Hypertensive urgency	ICD-10-CM Diagnosis
I16.1	Hypertensive emergency	ICD-10-CM Diagnosis

## Appendix E. List of Codes Used to Define Diabetes, Algorithm

250.0 250.00 250.01 250.02 250.03	Diabetes mellitus Diabetes mellitus without mention of complication Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
250.00 250.01 250.02 250.03	·	ICD-9-CM Diagnosis
250.01 250.02 250.03	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	
250.02 250.03	······································	ICD-9-CM Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.1	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.1	Diabetes with ketoacidosis	ICD-9-CM Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.2	Diabetes with hyperosmolarity	ICD-9-CM Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.3	Diabetes with other coma	ICD-9-CM Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
	Diabetes with renal manifestations	ICD-9-CM Diagnosis
	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
	Diabetes with ophthalmic manifestations	ICD-9-CM Diagnosis
	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with ophthalmic manifestations, type I (juvenile type), not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with ophthalmic manifestations, type I or unspecified type, uncontrolled	ICD-9-CM Diagnosis
	Diabetes with ophthalmic manifestations, type I of an provide type), uncontrolled	ICD-9-CM Diagnosis
	Diabetes with neurological manifestations	ICD-9-CM Diagnosis
	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with neurological manifestations, type I (juvenile type), not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.8	Diabetes with other specified manifestations	ICD-9-CM Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM Diagnosis
	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
	Type 1 diabetes mellitus with ketoacidosis	ICD-10-CM Diagnosis
E10.2	Type 1 diabetes mellitus with kidney complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus with ophthalmic complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus with neurological complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus with circulatory complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus with other specified complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
	Type 1 diabetes mellitus without complications	ICD-10-CM Diagnosis
	Type 2 diabetes mellitus with hyperosmolarity	ICD-10-CM Diagnosis
LTT.0	Type 2 diabetes mellitus with kidney complications	ICD-10-CM Diagnosis



## Appendix E. List of Codes Used to Define Diabetes, Algorithm

Code	Description	Code Type
E11.3	Type 2 diabetes mellitus with ophthalmic complications	ICD-10-CM Diagnosis
E11.4	Type 2 diabetes mellitus with neurological complications	ICD-10-CM Diagnosis
E11.5	Type 2 diabetes mellitus with circulatory complications	ICD-10-CM Diagnosis
E11.6	Type 2 diabetes mellitus with other specified complications	ICD-10-CM Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
11.9	Type 2 diabetes mellitus without complications	ICD-10-CM Diagnosis
13.0	Other specified diabetes mellitus with hyperosmolarity	ICD-10-CM Diagnosis
13.1	Other specified diabetes mellitus with ketoacidosis	ICD-10-CM Diagnosis
13.2	Other specified diabetes mellitus with kidney complications	ICD-10-CM Diagnosis
13.3	Other specified diabetes mellitus with ophthalmic complications	ICD-10-CM Diagnosis
13.4	Other specified diabetes mellitus with neurological complications	ICD-10-CM Diagnosis
13.5	Other specified diabetes mellitus with circulatory complications	ICD-10-CM Diagnosis
13.6	Other specified diabetes mellitus with other specified complications	ICD-10-CM Diagnosis
13.8	Other specified diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
13.9	Other specified diabetes mellitus without complications	ICD-10-CM Diagnosis

## Appendix F. List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM)

Code	Description	Code Type
250	Diabetes mellitus	ICD-9-CM Diagnosis
250.0	Diabetes mellitus without mention of complication	ICD-9-CM Diagnosis
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.1	Diabetes with ketoacidosis	ICD-9-CM Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.2	Diabetes with hyperosmolarity	ICD-9-CM Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.3	Diabetes with other coma	ICD-9-CM Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.4	Diabetes with renal manifestations	ICD-9-CM Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.5	Diabetes with ophthalmic manifestations	ICD-9-CM Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.51	Diabetes with ophthalmic manifestations, type I (juvenile type), not stated as uncontrolled	ICD-9-CM Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.53	Diabetes with ophthalmic manifestations, type I (juvenile type), uncontrolled	ICD-9-CM Diagnosis
250.6	Diabetes with neurological manifestations	ICD-9-CM Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.61	Diabetes with neurological manifestations, type I (juvenile type), not stated as uncontrolled	ICD-9-CM Diagnosis
250.62 250.63	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.8	Diabetes with other specified manifestations	ICD-9-CM Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM Diagnosis
E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM Diagnosis
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM Diagnosis
E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
L11.011		

## Appendix F. List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM)

Code	Description	Code Type
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM Diagnosis
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM Diagnosis
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM Diagnosis
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM Diagnosis
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM Diagnosis
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM Diagnosis
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM Diagnosis
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis
E10.621	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E10.622	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E10.628	Type 1 diabetes mellitus with other skin complications	ICD-10-CM Diagnosis
E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis

### Appendix G. List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM) with Clusters

Code	Description	Code Type
250	Diabetes mellitus	ICD-9-CM Diagnosis
250.0	Diabetes mellitus without mention of complication	ICD-9-CM Diagnosis
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.1	Diabetes with ketoacidosis	ICD-9-CM Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.2	Diabetes with hyperosmolarity	ICD-9-CM Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.21 250.22	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.25	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled Diabetes with other coma	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
250.3	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.30	Diabetes with other coma, type I of unspective type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.31	Diabetes with other coma, type I governe type, not stated as another ored	ICD-9-CM Diagnosis
250.32	Diabetes with other coma, type I of unspectice type, uncontrolled	ICD-9-CM Diagnosis
250.4	Diabetes with renal manifestations	ICD-9-CM Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.5	Diabetes with ophthalmic manifestations	ICD-9-CM Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.6	Diabetes with neurological manifestations	ICD-9-CM Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.7	Diabetes with peripheral circulatory disorders Diabetes with peripheral circulatory disorders two lloc uncoeffied two net stated as upcontrolled	ICD-9-CM Diagnosis
250.70 250.71	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type I of dispectified type, uncontrolled	ICD-9-CM Diagnosis
250.75	Diabetes with perpineral circulatory disorders, type i juvenile type), uncontrolled	ICD-9-CM Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.80	Diabetes with other specified manifestations, type I (juvenile type), not stated as uncontrolled	ICD-9-CM Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM Diagnosis
E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM Diagnosis
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM Diagnosis
E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	ICD-10-CM Diagnosis



### Appendix G. List of Codes Used to Define Diabetes, Simple Forward Mapping (SFM) with Clusters

Code	Description	Code Type
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	_
AND	AND	ICD-10-CM Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	
AND	AND	ICD-10-CM Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM Diagnosis
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM Diagnosis
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM Diagnosis
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM Diagnosis
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM Diagnosis
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis
E10.621	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E10.622	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E10.628	Type 1 diabetes mellitus with other skin complications	ICD-10-CM Diagnosis
E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis

#### Appendix H. Generalized Equivalence Mappings (GEMs) - 2017 Cluster Mapping for Diabetes



ICD-9-CM Code	ICD-9-CM Code Description	ICD-10-CM Code	Flag	ICD-10-CM Description	Mapping	Summarized Mapping	Summarized Mapping Omitting duplicates from AND scenarios
50.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	E11.9	10000	Type 2 diabetes mellitus without complications	250.00 = E11.9		
50.00	Diabetes mellitus without mention of complication, type I of dispectine type, not stated as uncontrolled Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	E10.9	10000	Type 1 diabetes mellitus without complications	250.00 - E11.9 250.01 = E10.9	(250.00 OR 250.01 OR 250.02 OR 250.03 OR 250.10 OR 250.11 OR 250.20 OR	(250.00 OR 250.01 OR 250.02 OR 250.03 OR 250.10 OR 250.11 OR 250.20 OR
50.02	Diabetes melitus without mention of complication, type I for unspecified type, uncontrolled	E11.65	10000	Type 2 diabetes mellitus with hyperglycemia	250.01 - E10.5 250.02 = E11.65	250.21 OR 250.30 OR 250.31 OR 250.40 OR 250.41 OR 250.50 OR 250.51 OR 250.50 OR 250.60	250.21 OR 250.30 OR 250.31 OR 250.40 OR 250.41 OR 250.50 OR 250.51 OR 250.60
50.02	Diabetes mellitus without mention of complication, type I (juvenile type), uncontrolled	E10.65	10000	Type 1 diabetes mellitus with hyperglycemia	250.03 = E10.65	OR 250.61 OR 250.70 OR 250.71 OR 250.80 OR 250.81 OR 250.90 OR 250.91	OR 250 61 OR 250 70 OR 250 71 OR 250 80 OR 250 81 OR 250 90 OR 250 91 OR 250 13 OR
50.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	E11.69	10000	Type 2 diabetes mellitus with other specified complication	250.10 = E11.69	=	250.23 OR 250.33 OR 250.53 OR 250.63 OR 250.73 OR 250.83 OR 250.93 OR 250.12 OR 250.2
50.10	Diabetes with recordiosis, type II or unspecified type, not stated as uncontrolled	E13.10	10000	Other specified diabetes mellitus with ketoacidosis without coma	250.10 = E13.10	(E11.9 OR E11.8 OR E10.8 OR E10.9 OR E11.65 OR E10.65 OR E11.69 OR E13.10	OR 250.32 OR OR 250.52 OR 250.62 OR 250.72 OR 250.82 OR 250.92)
50.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	E10.10	10000	Type 1 diabetes mellitus with ketoacidosis without coma	250.11 = E10.10	OR E10.10 OR E11.00 OR E11.01 OR E10.69 OR E11.641 OR E10.11 OR E10.641 OR	=
50.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia	250.12 = (E13.10 AND E11.65) OR (E11.69 AND E11.65)	E11.29	(E11.9 OR E11.8 OR E10.8 OR E10.9 OR E11.65 OR E10.65 OR E11.69 OR E13.10
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	E11.69	10111	Type 2 diabetes mellitus with other specified complication		OR E10.29 OR E11.311 OR E11.319 OR E11.36 OR E11.39 OR E10.311 OR E10.319 OR	OR E10.10 OR E11.00 OR E11.01 OR E10.69 OR E11.641 OR E10.11 OR E10.641 OR E11.29
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	E13.10	10111	Other specified diabetes mellitus with ketoacidosis without coma		E10.36	OR E10.29 OR E11.311 OR E11.319 OR E11.36 OR E11.39 OR E10.311 OR E10.319 OR E10.36
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	E10.10	10111	Type 1 diabetes mellitus with ketoacidosis without coma	250.13 = (E10.10 AND E10.65)	OR E10.39 OR E11.40 OR E10.40 OR E11.51 OR E10.51 OR E11.618 OR E11.620 OR	OR E10.39 OR E11.40 OR E10.40 OR E11.51 OR E10.51 OR E11.618 OR E11.620 OR E11.621
250.13	Diabetes with ketoacidosis, type I (juvenile type), uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia		E11.621	OR E11.622 OR E11.628 OR E11.630 OR E11.638 OR E11.649 OR E10.618 OR E10.620 OR
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	E11.00	10000	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	250.20 = E11.00	OR E11.622 OR E11.628 OR E11.630 OR E11.638 OR E11.649 OR E10.618 OR E10.620	E10.621 OR E10.622 OR E10.628 OR E10.630 OR E10.638 OR E10.649 OR E11.8 OR E10.8 OR
						OR E10.621	E10.37X1 OR E10.37X2 OR E10.37X3 OR E10.37X9)
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	E11.01	10000	Type 2 diabetes mellitus with hyperosmolarity with coma	250.20 = E11.01	OR E10.622 OR E10.628 OR E10.630 OR E10.638 OR E10.649 OR E11.8 OR E10.8 OR	
250.21	Diabetes with hyperosmolarity, type I fuvenile type], not stated as uncontrolled	E10.69	10000	Type 1 diabetes mellitus with other specified complication	250.21 = E10.69	E10.37X1 OR E10.37X2 OR E10.37X3 OR E10.37X9)	OR
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	E11.00	10111	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	250.22 = (E11.00 AND E11.65)		
						OR	250.42 = (E11.21 AND 11.65)
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia			
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia	250.23 = (E10.69 AND E10.65)	(250.12 OR 250.22 OR 250.32 OR 250.42 OR 250.52 OR 250.62 OR 250.72 OR 250.82 OR	OR
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	E10.69	10111	Type 1 diabetes mellitus with other specified complication		250.92)	
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	E11.641	10000	Type 2 diabetes mellitus with hypoglycemia with coma	250.30 = E11.641	=	250.43 = (E10.21 AND 10.65)
50.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	E10.11	10000	Type 1 diabetes mellitus with ketoacidosis with coma	250.31 = E10.11	[(E13.10 OR E11.69 OR E11.00 OR E11.01 OR E11.21 OR E11.311 OR E11.319 OR E11.40	
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	E10.641	10000	Type 1 diabetes mellitus with hypoglycemia with coma	250.31 = E10.641	OR E11.36 OR E11.39 OR E11.51 OR E11.69 OR E11.8) AND 11.65]	
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	E11.01	10111	Type 2 diabetes mellitus with hyperosmolarity with coma	250.32 = (E11.01 AND E11.65)		
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia		OR	
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	E10.11	10111	Type 1 diabetes mellitus with ketoacidosis with coma	250.33 = (E10.11 AND E10.65)		
250.33	Diabetes with other coma, type I (juvenile type), uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia		(250.13 OR 250.23 OR 250.33 OR 250.43 OR 250.53 OR 250.63 OR 250.73 OR 250.83 OR	
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	E11.29	10000	Type 2 diabetes mellitus with other diabetic kidney complication	250.40 = E11.29	250.93)	
250.40	Diabetes with renal manifestations, type I of unspecified type, not stated as uncontrolled	E10.29	10000	Type 1 diabetes mellitus with other diabetic kidney complication	250.40 - E11.29 250.41 = E10.29	=	
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	E10.29	10000	Type 2 diabetes mellitus with diabetic nephropathy	250.42 = (E11.21 AND E11.65)	[(E10.10 OR E10.69 OR E10.11 OR E10.21 OR E10.311 OR E10.40 OR E10.51 OR E10.69	
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	E11.65	10111	Type 2 diabetes mellitus with diabete nephropathy Type 2 diabetes mellitus with hyperglycemia		OR E10.8 OR E10.319 OR E10.36 OR E10.39 AND 10.65]	
250.42	Diabetes with renal manifestations, type I (juvenile type), uncontrolled	E10.21	10112	Type 1 diabetes mellitus with diabetic nephropathy	250.43 = (E10.21 AND E10.65)	2	
250.43	Diabetes with renal manifestations, type I (juvenile type), uncontrolled Diabetes with renal manifestations, type I (juvenile type), uncontrolled	E10.21	10111	Type 1 diabetes mellitus with diabetic nephropathy Type 1 diabetes mellitus with hyperglycemia	2.0.43 - (C10.21 MND E10.03)		
250.43 250.50	Diabetes with renai manifestations, type I juvenile typej, uncontrolled Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	E10.65 E11.311	10112	Type 2 diabetes mellitus with inspecified diabetic retinopathy with macular edema	250.50 = E11.311		
	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled			Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	250.50 = E11.311 250.50 = E11.319		
250.50 250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	E11.319 E11.36	10000	Type 2 diabetes mellitus with diabetic cataract	250.50 = E11.319 250.50 = E11.36		
		E11.30			250.50 = E11.36 250.50 = E11.39		
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	E11.39	10000	Type 2 diabetes mellitus with other diabetic ophthalmic complication			
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.311	10000	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	250.51 = E10.311		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.319	10000	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	250.51 = 10.319		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.36	10000	Type 1 diabetes mellitus with diabetic cataract	250.51 = E10.36		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.37X1	10000	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	250.51= E10.37X1		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.37X2	10000	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	250.51= E10.37X2		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.37X3	10000	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	250.51= E10.37X3		
250.51	Diabetes with ophthalmic manifestations, type I (juvenile type), not stated as uncontrolled	E10.37X9	10000	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	250.51= E10.37X9		
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	E10.39	10000	Type 1 diabetes mellitus with other diabetic ophthalmic complication	250.51 = E10.39		
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	E11.311	10111	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	250.52 = (E11.311 AND E11.65) OR (E11.319 AND E11.65) OR (E11.36		
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	E11.319	10111	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	AND E11.65) OR (E11.39 AND E11.65)		
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	E11.36	10111	Type 2 diabetes mellitus with diabetic cataract			
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	E11.39	10111	Type 2 diabetes mellitus with other diabetic ophthalmic complication			
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia			
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	E10.311	10111	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	250.53 = (E10.311 AND E10.65) OR (E10.319 AND E10.65) OR (E10.36		
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	E10.319	10111	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	AND E10.65) OR (E10.39 AND E10.65)		
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	E10.36	10111	Type 1 diabetes mellitus with diabetic cataract			
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	E10.39	10111	Type 1 diabetes mellitus with other diabetic ophthalmic complication			
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia			
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	E11.40	10000	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	250.60 = E11.40		
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	E10.40	10000	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	250.61 = E10.40		
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	E11.40	10111	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	250.62 = (E11.40 AND E11.65)		
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia			
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	E10.40	10111	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	250.63 = (E10.40 AND E10.65)		
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia			
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	E11.51	10000	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	250.70 = E11.51		
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	E10.51	10000	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	250.71 = E10.51		
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	E11.51	10111	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	250.72 = (E11.51 AND E11.65)		
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia			
250.73	Diabetes with peripheral circulatory disorders, type I (juvenile type), uncontrolled	E10.51	10111	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	250.73 = (E10.51 AND E10.65)		
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia			
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.618	10000	Type 2 diabetes mellitus with other diabetic arthropathy	250.80 = E11.618		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.620	10000	Type 2 diabetes mellitus with diabetic dermatitis	250.80 = E11.620		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.621	10000	Type 2 diabetes mellitus with foot ulcer	250.80 = E11.621		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.622	10000	Type 2 diabetes mellitus with other skin ulcer	250.80 = E11.622		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.628	10000	Type 2 diabetes mellitus with other skin complications	250.80 = E11.628		
250.80	Diabetes with other specified mainfestations, type II or unspecified type, not stated as uncontrolled	E11.630	10000	Type 2 diabetes mellitus with periodontal disease	250.80 = E11.630		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.638	10000	Type 2 diabetes mellitus with other oral complications	250.80 = E11.638		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.649	10000	Type 2 diabetes mellitus with hypoglycemia without coma	250.80 = E11.649		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.65	10000	Type 2 diabetes mellitus with hyperglycemia	250.80 = E11.65		
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	E11.69	10000	Type 2 diabetes mellitus with other specified complication	250.80 - E11.05 250.80 - E11.69		
50.81	Diabetes with other specified manifestations, type I (juvenile type), not stated as uncontrolled	E10.618	10000	Type 1 diabetes mellitus with other diabetic arthropathy	250.81 = E10.618		
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.620	10000	Type 1 diabetes mellitus with diabetic dermatitis	250.81 - E10.618		
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.620	10000	Type 1 diabetes mellitus with foot ulcer	250.81 = E10.621		
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.622	10000	Type 1 diabetes mellitus with root alcer	250.81 = E10.021 250.81 = E10.622		
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.628	10000	Type 1 diabetes mellitus with other skin complications	250.81 = E10.628		
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.630	10000	Type 1 diabetes mellitus with orier skin complications	250.81 - E10.028		
50.81	Diabetes with other specified manifestations, type I (juvenile type), not stated as uncontrolled Diabetes with other specified manifestations, type I (juvenile type), not stated as uncontrolled	E10.630	10000	Type 1 diabetes mellitus with other oral complications	250.81 - E10.636		
	Diabetes with other specified manifestations, type I juvenile type], not stated as uncontrolled Diabetes with other specified manifestations, type I juvenile type], not stated as uncontrolled	E10.638		Type 1 diabetes mellitus with other oral complications Type 1 diabetes mellitus with hypoglycemia without coma	250.81 = E10.638 250.81 = E10.649		
50.81	Diabates with other exectled manifestations, type ( juvenile type), not stated as uncontrolled		10000		250.81 = E10.649 250.81 = E10.65		
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.65		Type 1 diabetes mellitus with hyperglycemia			
50.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	E10.69	10000	Type 1 diabetes mellitus with other specified complication	250.81 = E10.69		
50.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia	250.82 = E11.69 AND E11.65)		
50.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	E11.69	10111	Type 2 diabetes mellitus with other specified complication			
250.83	Diabetes with other specified manifestations, type I (juvenile type), uncontrolled	E10.65	10112	Type 1 diabetes mellitus with hyperglycemia	250.83 = (E10.69 AND E10.65)		
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	E10.69	10111	Type 1 diabetes mellitus with other specified complication			
150.00	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	E11.8	10000	Type 2 diabetes mellitus with unspecified complications	250.90 = E11.8		
	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	E10.8	10000	Type 1 diabetes mellitus with unspecified complications	250.91 = E10.8		
250.91					252.02. (544.0.400.544.55)		
250.91 250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	E11.65	10112	Type 2 diabetes mellitus with hyperglycemia	250.92 = (E11.8 AND E11.65)		
250.91 250.92 250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled Diabetes with unspecified complication, type II or unspecified type, uncontrolled	E11.8	10111	Type 2 diabetes mellitus with hyperglycemia Type 2 diabetes mellitus with unspecified complications			
250.90 250.91 250.92 250.92 250.92 250.93	Diabetes with unspecified complication, type II or unspecified type, uncontrolled Diabetes with unspecified complication, type II or unspecified type, uncontrolled Diabetes with unspecified complication, type II (invenile type), uncontrolled	E11.65 E11.8 E10.65		Type 2 diabetes mellitus with hyperglycemia Type 2 diabetes mellitus with unspecified complications Type 1 diabetes mellitus with hyperglycemia	250.92 = (E11.8 AND E11.65) 250.93 = (E10.8 AND E10.65)		

Code	Description	Code Type
250	Diabetes mellitus	ICD-9-CM Diagnosis
250.0	Diabetes mellitus without mention of complication	ICD-9-CM Diagnosis
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.1	Diabetes with ketoacidosis	ICD-9-CM Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.2	Diabetes with hyperosmolarity	ICD-9-CM Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.3	Diabetes with other coma	ICD-9-CM Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.4	Diabetes with renal manifestations	ICD-9-CM Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.5	Diabetes with ophthalmic manifestations	ICD-9-CM Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.6 250.60	Diabetes with neurological manifestations	ICD-9-CM Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis ICD-9-CM Diagnosis
250.62	Diabetes with neurological manifestations, type I (juvenile type), uncontrolled	ICD-9-CM Diagnosis
250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.8	Diabetes with other specified manifestations	ICD-9-CM Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM Diagnosis
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM Diagnosis
E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM Diagnosis
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM Diagnosis
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM Diagnosis
E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma Type 1 diabetes mellitus with ketoacidesis with coma	ICD-10-CM Diagnosis
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	ICD-10-CM Diagnosis



Code	Description	Code Type
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM Diagnosis
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM Diagnosis
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM Diagnosis
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM Diagnosis
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM Diagnosis
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM Diagnosis
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM Diagnosis
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM Diagnosis
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E11.649 E10.618	Type 2 diabetes mellitus with hypoglycemia without coma Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM Diagnosis
E10.618 E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
E10.620	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM Diagnosis
E10.621	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM Diagnosis
E10.622	Type 1 diabetes mellitus with other skin area	ICD-10-CM Diagnosis
E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM Diagnosis
E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis
E13.9	Other specified diabetes mellitus without complications	ICD-10-CM Diagnosis
E13.00		
	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM Diagnosis
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	ICD-10-CM Diagnosis
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	ICD-10-CM Diagnosis
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	ICD-10-CM Diagnosis
E13.21	Other specified diabetes mellitus with diabetic nephropathy	ICD-10-CM Diagnosis
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM Diagnosis
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	ICD-10-CM Diagnosis
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM Diagnosis
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM Diagnosis
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E11.3299		100 40 0000
	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis

<b>Code</b> E11.3319	Description	Code Type
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
L11.3331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E11.3393		
	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E11.3399		
E11.3411	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
E11.3411 E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E11.3419		
	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, light eye	ICD-10-CM Diagnosis
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E11.3521		
	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM Diagnosis
E11.3522		
E11 2E22	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM Diagnosis
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM Diagnosis
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula,	
	unspecified eye	ICD-10-CM Diagnosis
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right	
	eye	ICD-10-CM Diagnosis
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left	
F11 2F22	eye Ture 2 diabates mellitus with preliferative diabatic ratio anathy with traction rational datashment pet involving the magula	ICD-10-CM Diagnosis
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM Diagnosis
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula,	ICD-10-CWI Diagnosis
21110000	unspecified eye	ICD-10-CM Diagnosis
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	Ū.
	retinal detachment, right eye	ICD-10-CM Diagnosis
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	
	retinal detachment, left eye	ICD-10-CM Diagnosis
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	
E11.3549	retinal detachment, bilateral Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	ICD-10-CM Diagnosis
L11.3343	retinal detachment, unspecified eye	ICD-10-CM Diagnosis
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM Diagnosis
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM Diagnosis
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM Diagnosis
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM Diagnosis
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E11.3599 E13.3211	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
L13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E13.3212	· · · · · · · · · · · · · · · · · · ·	
	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E13.3219		
	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis



Code	Description	Code Type
E13.3291		
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E13.3311	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E13.3399		-
E13.3411	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E13.3499		
E13.3511	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.3515	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula,	
E13.3522	right eye Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula,	ICD-10-CM Diagnosis
	left eye	ICD-10-CM Diagnosis
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM Diagnosis
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM Diagnosis
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM Diagnosis
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM Diagnosis
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM Diagnosis
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the	
E13.3541	macula, unspecified eye Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and	ICD-10-CM Diagnosis
	rhegmatogenous retinal detachment, right eye	ICD-10-CM Diagnosis

Code	Description	Code Type
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and	
	rhegmatogenous retinal detachment, left eye	ICD-10-CM Diagnosis
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and	-
	rhegmatogenous retinal detachment, bilateral	ICD-10-CM Diagnosis
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and	
	rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM Diagnosis
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM Diagnosis
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM Diagnosis
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM Diagnosis
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM Diagnosis
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E13.3599		
	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM Diagnosis
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM Diagnosis
E13.36	Other specified diabetes mellitus with diabetic cataract	ICD-10-CM Diagnosis
E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM Diagnosis
E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM Diagnosis
E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM Diagnosis
E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM Diagnosis
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM Diagnosis
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM Diagnosis
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM Diagnosis
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM Diagnosis
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM Diagnosis
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E10.3292 E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis ICD-10-CM Diagnosis
E10.3293	Type I diabetes mentus with mild nonpromerative diabetic retinopathy without matular edema, bilateral	
L10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, dispective eye	ICD-10-CM Diagnosis
E10.3312	Type 1 diabetes melitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E10.3312	Type 1 diabetes melitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E10.3319		
210.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3391	· / · · · · · · · · · · · · · · · · · ·	
210.0001	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E10.3393	//····································	
	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E10.3399		Ū.
	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E10.3419		
	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E10.3499		
	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM Diagnosis
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM Diagnosis
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM Diagnosis
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM Diagnosis

Code	Description	Code Type
E10.3521		
	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM Diagnosis
E10.3522		
	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM Diagnosis
E10.3523		
	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM Diagnosis
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula,	
	unspecified eye	ICD-10-CM Diagnosis
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right	
	eye	ICD-10-CM Diagnosis
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left	
	eye	ICD-10-CM Diagnosis
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula,	
540 3530	bilateral	ICD-10-CM Diagnosis
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula,	
E40 2E44	unspecified eye	ICD-10-CM Diagnosis
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	ICD-10-CM Diagnosis
E10.3542	retinal detachment, left eye	, ICD-10-CM Diagnosis
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	•
L10.3343	retinal detachment, bilateral	, ICD-10-CM Diagnosis
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	•
L10.3343	retinal detachment, unspecified eve	, ICD-10-CM Diagnosis
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM Diagnosis
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM Diagnosis
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM Diagnosis
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM Diagnosis
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM Diagnosis
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM Diagnosis
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ED.3539Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, biateralICD-10-CM DiagnosisED.3599Type 1 diabetes mellitus with diabetic neuropathy, unspecifiedICD-10-CM DiagnosisEI.34.1Other specified diabetes mellitus with diabetic neuropathy, unspecifiedICD-10-CM DiagnosisEI.34.2Other specified diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisEI.34.3Other specified diabetes mellitus with diabetic autonomic (polyneuropathyICD-10-CM DiagnosisEI.34.4Other specified diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisEI.14.4Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisEI.14.4Type 2 diabetes mellitus with diabetic autonomic (polyneuropathyICD-10-CM DiagnosisEI.14.4Type 2 diabetes mellitus with diabetic neuropaticationICD-10-CM DiagnosisEI.14.4Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisEI.14.4Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM	Code	Description	Code Type
E13.40Other specified diabetes mellitus with diabetic neuropathy, unspecifiedICD-10-CM DiagnosisE13.41Other specified diabetes mellitus with diabetic polyneuropathyICD-10-CM DiagnosisE13.42Other specified diabetes mellitus with diabetic polyneuropathyICD-10-CM DiagnosisE13.43Other specified diabetes mellitus with diabetic polyneuropathyICD-10-CM DiagnosisE13.44Other specified diabetes mellitus with diabetic neurological complicationICD-10-CM DiagnosisE13.40Other specified diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE13.41Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.42Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neurological complicationICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neurological complicationICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neurological complicationICD-10-CM DiagnosisE10.44Type 1 diabetes mellitus with diabetic neurological complicationICD-10-CM DiagnosisE10.44Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE10.45Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE10.45Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM Diagnosis<	E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM Diagnosis
E13.41Other specified diabetes mellitus with diabetic anoneuropathyICD-10-CM DiagnosisE13.42Other specified diabetes mellitus with diabetic anoneuropathyICD-10-CM DiagnosisE13.43Other specified diabetes mellitus with diabetic anovtorophyICD-10-CM DiagnosisE13.44Other specified diabetes mellitus with diabetic anovtorophyICD-10-CM DiagnosisE13.49Other specified diabetes mellitus with diabetic neuropathic anthropathyICD-10-CM DiagnosisE11.41Type 2 diabetes mellitus with diabetic neuropathic anthropathyICD-10-CM DiagnosisE11.42Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.43Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic anononci (poly)neuropathyICD-10-CM DiagnosisE11.41Type 2 diabetes mellitus with diabetic anonorci (poly)neuropathyICD-10-CM DiagnosisE11.43Type 2 diabetes mellitus with diabetic neuropathic anthropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic nononeuropathyICD-10-CM DiagnosisE11.45Type 2 diabetes mellitus with diabetic nononeuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic anonopathyICD-10-CM DiagnosisE11.45Type 2 diabetes mellitus with diabetic nonopathyICD-10-CM DiagnosisE11.44Type 1 diabetes mellitus with diabetic nonopathyICD-10-CM DiagnosisE11.45Type 1 diabetes mellitus with diabetic anonopathyICD-10-CM DiagnosisE11.49Type 1 diabetes m	E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM Diagnosis
E13.42Other specified diabetes mellitus with diabetic polyneuropathyICD-10-CM DiagnosisE13.43Other specified diabetes mellitus with diabetic autonomic (poly)neuropathyICD-10-CM DiagnosisE13.44Other specified diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE13.44Other specified diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE11.41Type 2 diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE11.42Type 2 diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE10.41Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE10.42Type 1 diabetes mellitus with diabetic anyotrophyICD-10-CM DiagnosisE10.43Type 1 diabetes mellitus with diabetic anyotrophyICD-10-CM DiagnosisE10.44Type 1 diabetes mellitus with diabetic anyotrophyICD-10-CM DiagnosisE10.45Type 1 diabetes mellitus with diabetic anyotrophyICD-10-CM DiagnosisE11.54Type 1 diabetes mellitus with diabetic anyotrophyICD-10-CM Diagnosis	E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM Diagnosis
E13.43Other specified diabetes mellitus with diabetic autonomic (poly)neuropathyICD-10-CM DiagnosisE13.44Other specified diabetes mellitus with diabetic amyotrophyICD-10-CM DiagnosisE13.61Other specified diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE11.41Type 2 diabetes mellitus with diabetic neuropathic arthropathyICD-10-CM DiagnosisE11.43Type 2 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE11.44Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.45Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.46Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.47Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.48Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.49Type 2 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE11.40Type 1 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE10.41Type 1 diabetes mellitus with diabetic nouropathyICD-10-CM DiagnosisE10.42Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE10.43Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE10.44Type 1 diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE13.50Other specified diabetes mellitus with diabetic neuropathyICD-10-CM DiagnosisE13.51Other specified diabetes mellitus with diabetic peripheral angiopat	E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	ICD-10-CM Diagnosis
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E13.65Other specified diabetes mellitus with hyperglycemiaICD-10-CM DiagnosisE13.69Other specified diabetes mellitus with other specified complicationICD-10-CM Diagnosis	E13.638	Other specified diabetes mellitus with other oral complications	ICD-10-CM Diagnosis
E13.69 Other specified diabetes mellitus with other specified complication ICD-10-CM Diagnosis	E13.649	Other specified diabetes mellitus with hypoglycemia without coma	ICD-10-CM Diagnosis
	E13.65	Other specified diabetes mellitus with hyperglycemia	ICD-10-CM Diagnosis
E13.8 Other specified diabetes mellitus with unspecified complications ICD-10-CM Diagnosis	E13.69	Other specified diabetes mellitus with other specified complication	ICD-10-CM Diagnosis
	E13.8	Other specified diabetes mellitus with unspecified complications	ICD-10-CM Diagnosis



Appendix J. Cohort Identification and Descriptive Analysis Tool (CIDA) Specifications for ICD-10 Level 1 Request Part Two: Hypertenstion

CIDA Specifications for ICD-10 Level 1 Request Part Two: Hypertension Sentinel's Cohort Identification and Descriptive Analysis (CIDA) tool, version 3.3.2, was used to compare the frequency of diagnoses for a selection of health outcomes using ICD-9 versus ICD-10 codes.								
	Enrollment Gap: 45 Days Age Groups: 0-17, 18-49, 50-64, 65+ Enrollment Requirement: 183 Days Coverage Requirement: Medical Coverage							
				·	Event			
Scenario	Code Source	Query Start Date	Query End Date	Event	Incident w/ respect to:	Washout (days)	Cohort Definition	Caresetting
1	Algorithm	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-9 code: See Hypertension algorithm code list for 45 codes)	Hypertension diagnosis (ICD-9 code <b>or</b> ICD-10 code: See Hypertension algorithm code list for 64 codes)	183	01	Any
2	SFM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-9: See Hypertension SFM code list for 33 codes)	Hypertension diagnosis (ICD-9 or ICD-10: See Hypertension SFM code list for all 45 codes)	183	01	Any
3	FBM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-9: See Hypertension FBM code list for 33 codes)	Hypertension diagnosis (ICD-9 or ICD-10: See Hypertension FBM code list for all 51 codes)	183	01	Any
4	Algorithm	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10 code: See Hypertension algorithm code list for 19 codes)	Hypertension diagnosis (ICD-9 code <b>or</b> ICD-10 code: See Hypertension algorithm code list for 64 codes)	183	01	Any
5	SFM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension SFM code list for 12 codes)	Hypertension diagnosis (ICD-9 or ICD-10: See Hypertension SFM code list for all 45 codes)	183	01	Any
6	FBM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension FBM code list for 18 codes)	Hypertension diagnosis (ICD-9 or ICD-10: See Hypertension FBM code list for all 51 codes)	183	01	Any
7	Algorithm	1/1/2015	3/31/2015	Hypertension diagnosis ( <b>only</b> ICD-9 code: See Hypertension algorithm code list for 45 codes)	Hypertension diagnosis ( <b>only</b> ICD-9 code: See Hypertension algorithm code list for 45 codes)	90	01	Any
8	SFM and FBM	1/1/2015	3/31/2015	Hypertension diagnosis ( <b>only</b> ICD-9: See Hypertension SFM code list for 33 codes)	Hypertension diagnosis (only ICD-9: See Hypertension SFM code list for 33 codes)	90	01	Any
9	Algorithm	1/1/2016	3/31/2016	Hypertension diagnosis ( <b>only</b> ICD-10 code: See Hypertension algorithm code list for 19 codes)	Hypertension diagnosis ( <b>only</b> ICD-10 code: See Hypertension algorithm code list for 19 codes)	90	01	Any
10	SFM	1/1/2016	3/31/2016	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension SFM code list for 12 codes)	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension SFM code list for 12 codes)	90	01	Any
11	FBM	1/1/2016	3/31/2016	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension FBM code list for 18 codes)	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension FBM code list for 18 codes)	90	01	Any
12	Algorithm	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-9 code: See Hypertension algorithm code list for 45 codes)	ΝΑ	0	02	Any
13	SFM and FBM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-9: See Hypertension SFM code list for 33 codes)	ΝΑ	0	02	Any
14	Algorithm	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10 code: See Hypertension algorithm code list for 19 codes)	ΝΑ	0	02	Any
15	SFM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension SFM code list for 12 codes)	ΝΑ	0	02	Any
16	FBM	10/1/2010	Current	Hypertension diagnosis ( <b>only</b> ICD-10: See Hypertension FBM code list for 18 codes)	ΝΑ	0	02	Any



Appendix K. Cohort Identification and Descriptive Analysis Tool (CIDA) Specifications for ICD-10 Level 1 Request Part Two: Diabetes

### CIDA Specifications for ICD-10 Level 1 Request Part Two: Diabetes

Sentinel's Cohort Identification and Descriptive Analysis (CIDA) tool, version 3.3.2, was used to compare the frequency of diagnoses for a selection of health outcomes using ICD-9 versus ICD-10 codes.

Sentinel's (	entinel's Cohort Identification and Descriptive Analysis (CIDA) tool, version 3.3.2, was used to compare the frequency of diagnoses for a selection of health outcomes using ICD-9 versus ICD-10 codes.									
Enrollment Gap: 45 Days Age Groups: 0-17, 18-49, 50-64, 65+ Enrollment Requirement: 183 Days Coverage Requirement: Medical Coverage										
				-	Event			<b>'</b> i		
Scenario	Code Source	Query Start Date	Query End Date	Event	Incident w/ respect to:	Washout (days)	Cohort Definition	Caresetting	_	
1	Algorithm	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	Diabetes diagnosis (ICD-9: 250* or ICD-10: See Diabetes algorithm code list for 25 codes)	183	01	Any		
2	SFM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	Diabetes diagnosis (ICD-9: 250* or ICD-10: See Diabetes SFM code list for 51 codes)	183	01	Any		
3	FBM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	Diabetes diagnosis (ICD-9: 250* or ICD-10: See Diabetes FBM code list for 254 codes; no cluster logic)	183	01	Any		
4	Algorithm	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes algorithm code list for 25 codes)	Diabetes diagnosis (ICD-9: 250* or ICD-10: See Diabetes algorithm code list for 25 codes)	183	01	Any		
5	SFM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes SFM code list for 51 codes; cluster logic)	Diabetes diagnosis (ICD-9: 250* <b>or</b> ICD-10: See Diabetes SFM code list for 51 codes)	183	01	Any		
6	SFM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes SFM code list for 51 codes; <b>no</b> cluster logic)	Diabetes diagnosis (ICD-9: 250* <b>or</b> ICD-10: See Diabetes SFM code list for 51 codes)	183	01	Any		
7	FBM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes FBM code list for 254 codes; <b>no</b> cluster logic)	Diabetes diagnosis (ICD-9: 250* or ICD-10: See Diabetes FBM code list for 254 codes; no cluster logic)	183	01	Any		
8	Algorithm, SFM, and FBM	1/1/2015	3/31/2015	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	90	01	Any		
9	Algorithm	1/1/2016	3/31/2016	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes algorithm code list for 25 codes)	Diabetes diagnosis (only ICD-10: See Diabetes algorithm code list for 25 codes)	90	01	Any		
10	SFM	1/1/2016	3/31/2016	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes SFM code list for 51 codes; cluster logic)	Diabetes diagnosis (only ICD-10: See Diabetes SFM code list for 51 codes)	90	01	Any		
11	SFM	1/1/2016	3/31/2016	Diabetes diagnosis (only ICD-10: See Diabetes SFM code list for 51 codes; no cluster logic)	Diabetes diagnosis (only ICD-10: See Diabetes SFM code list for 51 codes)	90	01	Any		
12	FBM	1/1/2016	3/31/2016	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes FBM code list for 254 codes; <b>no</b> cluster logic)	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes FBM code list for 254 codes; <b>no</b> cluster logic)	90	01	Any		
13	Algorithm, SFM, and FBM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-9: 250*)	ΝΑ	0	02	Any		
14	Algorithm	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes algorithm code list for 25 codes)	ΝΑ	0	02	Any		
15	SFM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes SFM code list for 51 codes; cluster logic)	ΝΑ	0	02	Any		
16	SFM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes SFM code list for 51 codes; <b>no</b> cluster logic)	ΝΑ	0	02	Any		
17	FBM	10/1/2010	Current	Diabetes diagnosis ( <b>only</b> ICD-10: See Diabetes FBM code list for 254 codes; <b>no</b> cluster logic)	ΝΑ	0	02	Any		