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The following report(s) provides findings from an FDA-initiated query using its Mini-Sentinel pilot. While Mini-Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Mini-Sentinel, and seeking to better understand the capabilities of the Mini-Sentinel pilot.

Data obtained through Mini-Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from the Mini-Sentinel pilot in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Mini-Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

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 msy4_mpr13
<u>Request</u> Description	Mini-Sentinel's IV Iron Workgroup requested execution of Modular Program #3 (MP3) to investigate exposure to IV Iron procedures and anaphylaxis events for individuals with a pre-existing condition of dialysis. This involved one run of MP3. The time window for the request is January 1, 2000 – December 31, 2012. The package was distributed to Data Partners on January 17, 2013. This is Report 1 of 4.
	This report contains results for the scenarios with a pre-existing condition of dialysis and an event of anaphylaxis. There are three other reports that were generated for this request that contain results for the scenarios with (1) no pre-existing condition requirement and an event of anaphylaxis; (2) no pre-existing condition requirement and an event of epinephrine; and (3) a pre-existing condition of dialysis and an event of epinephrine.
	Results provide counts of new IV iron patients, dispensings, total days supplied, eligible members, and member- days for patients with a pre-existing condition of dialysis. A patient was considered new if he/she was not exposed to any IV iron in the prior 183 days. Differing exposure extension periods were examined; these represented the time window in which the program sought an event. Incidence criteria for the event of interest included a 30-day lookback period only and incidence with respect to the diagnosis itself. The query period was from January 1, 2000 to December 31, 2012. See Appendix A for a list of specific Healthcare Common Procedure Coding System (HCPCS) procedure codes, Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes, and International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis codes included in this request.
<u>Request ID</u> <u>Glossary</u> <u>Table 1</u>	msy4_mpr13_v1 List of Terms found in this Report and their Definitions Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting and Length of Time to Outcome Pre- Existing Condition or Dialysis Required
<u>Figure 1</u>	Number of New Anaphylaxis Events per 100,000 Days at Risk between October 19, 2010 and December 31, 2011 by Care Setting of Event and Length of Time to Event- Pre-Existing Condition or Dialysis Required
<u>Table 2</u>	Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Age Group Pre-Existing Condition or Dialysis Required
<u>Table 3</u>	Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Sex Pre-Existing Condition or Dialysis Required
<u>Table 4</u>	Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Year - Pre-Existing Condition or Dialysis Required
<u>Appendix A</u>	List of Diagnosis and Procedure Codes Included in this Request
<u>Appendix B</u> Notes:	Modular Program Specifications for Query ID msy4_mpr13_v1 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.



Glossary of Terms in Modular Program 3*

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the **Care Setting** - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings **Days at Risk** - number of days supplied plus any episode gaps and exposure extension periods.

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" Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Lookback Period (pre-existing condition) - number of days wherein a member is required to have evidence of pre-existing condition Member-Days - sum of all days of enrollment with medical and drug coverage** in the query period preceded by an exposure washout period.

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 epsiode for it to be considered

New Episodes - new treatment episodes; length of episode is determined by days supplied in one dispensing (or consecutive dispensings bridged by the episode gap.

New Users - number of members with incident 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.

Principal Diagnosis - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. YES will only consider diagnoses flagged as Principal

Query Period - period in which the modular program looks for exposures and outcomes of interest.

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

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.

Washout Type (drug/exposure)- *Minimum washout type* will consider the first treatment episode in the query period as long as it is the first treatment episode in the user's entire available history. *Single* and *Multiple washout types* will use the washout period to establish incidence, however *Single* will only consider the first treatment episode whereas *Multiple* will consider all qualifying incident treatment episodes.

Washout Type (event/outcome)- *Minimum washout type* considers the first event in a valid episode as long as it is the first event in the user's entire available history. *Multiple washout type* uses the washout period to establish incidence and considers all qualifying incident treatment episodes. The program will only consider one event per episode, but the *Multiple washout type* will consider more than one event per user if a user has more than one incident episode.

*all terms may not be used in this report

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



Table 1. Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting and Length of Time to Outcome -- Pre-Existing Condition or Dialysis Required

						New			New Users/		Days	Days	New Events/
	New	New		Total Days	Days at	Anaphylaxis	Eligible	Member-	1K Eligible	Dispensings/	Supplied/	Supplied/	100k Days at
	Users	Episodes	Dispensings	Supplied	Risk	Events	Members	Days	Members	User	User	Dispensing	Risk
Event occurs in Inpatient or Emerg	ency Depar	tment Care	Setting										
On day of exposure	42,852	42,852	43,270	43,270	43,132	0	265,817	66,996,855	161.21	1.01	1.01	1.00	0.00
Within one day of exposure	42,852	42,852	43,270	43,270	85,958	0	265,817	66,996,855	161.21	1.01	1.01	1.00	0.00
Within two days of exposure	42,852	42,852	43,270	43,270	124,121	0	265,817	66,996,855	161.21	1.01	1.01	1.00	0.00
Event occurs in Outpatient Care Se	tting												
On day of exposure	42,852	42,852	43,270	43,270	43,132	1	265,817	66,996,855	161.21	1.01	1.01	1.00	2.32
Within one day of exposure	42,852	42,852	43,270	43,270	85,957	1	265,817	66,996,855	161.21	1.01	1.01	1.00	1.16
Within two days of exposure	42,852	42,852	43,270	43,270	124,119	2	265,817	66,996,855	161.21	1.01	1.01	1.00	1.61



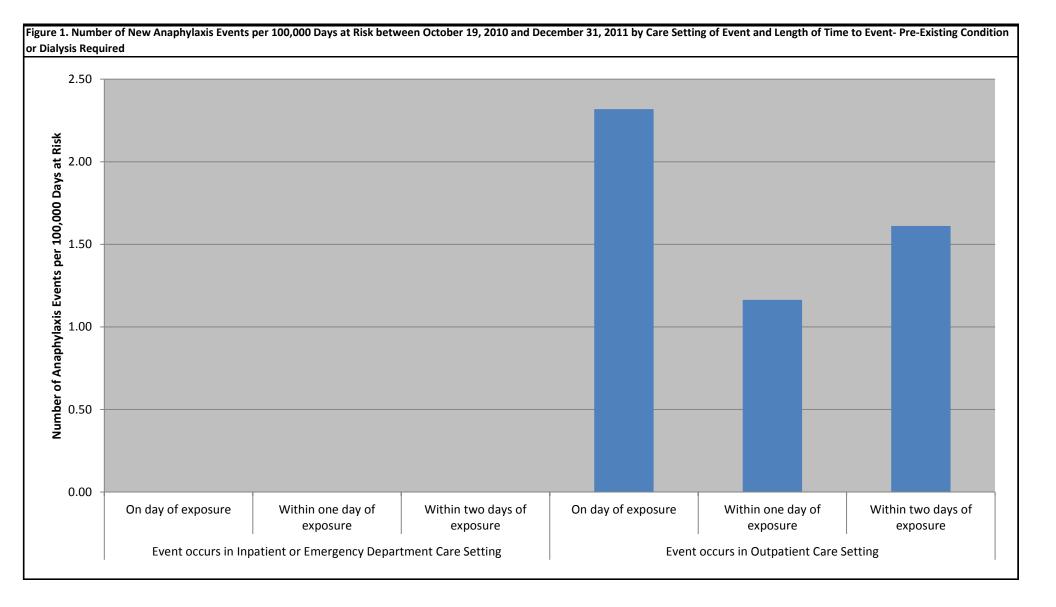




Table 2. Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Age Group -- Pre-Existing Condition or Dialysis Required

						New			New Users/		Days	Days	New Events/
	New	New		Total Days	Days at	Anaphylaxis	Eligible	Member-	1K Eligible	Dispensings/	•	Supplied/	100k Days at
	Users	Episodes	Dispensings	, Supplied	Risk	Events	Members	Days	Members	User	User	Dispensing	Risk
Event occurs in Inpatient or Emerg	gency Depar	tment Care	e Setting										
On day of exposure													
00-21 years	449	449	458	458	455	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	5,615	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	17,579	0	114,513	28,723,254	152.40	1.01	1.01	1.00	0.00
65+ years	19,386	19,386	19,542	19,542	19,483	0	98,931	25,141,262	195.95	1.01	1.01	1.00	0.00
Within one day of exposure													
00-21 years	449	449	458	458	904	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	11,178	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	35,017	0	114,513	28,723,254	152.40	1.01	1.01	1.00	0.00
65+ years	19,386	19,386	19,542	19,542	38,859	0	98,931	25,141,262	195.95	1.01	1.01	1.00	0.00
Within two days of exposure													
00-21 years	449	449	458	458	1,300	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	16,213	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	50,514	0	114,513	28,723,254	152.40	1.01	1.01	1.00	0.00
65+ years	19,386	19,386	19,542	19,542	56,094	0	98,931	25,141,262	195.95	1.01	1.01	1.00	0.00
Event occurs in Outpatient Care Se	etting												
On day of exposure													
00-21 years	449	449	458	458	455	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	5,615	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	17,579	0	114,513	28,723,254	152.40	1.01	1.01	1.00	0.00
65+ years	19,386	19,386	19,542	19,542	19,483	1	98,931	25,141,262	195.95	1.01	1.01	1.00	5.13
Within one day of exposure													
00-21 years	449	449	458	458	904	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	11,178	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	35,017	0	114,513	28,723,254	152.40	1.01	1.01	1.00	0.00
65+ years	19,386	19,386	19,542	19,542	38,858	1	98,931	25,141,262	195.95	1.01	1.01	1.00	2.57
Within two days of exposure													
00-21 years	449	449	458	458	1,300	0	13,192	2,530,535	34.04	1.02	1.02	1.00	0.00
22-44 years	5,565	5,565	5,633	5,633	16,213	0	46,617	10,601,804	119.38	1.01	1.01	1.00	0.00
45-64 years	17,452	17,452	17,637	17,637	50,514	1	114,513	28,723,254	152.40	1.01	1.01	1.00	1.98
65+ years	19,386	19,386	19,542	19,542	56,092	1	98,931	25,141,262	195.95	1.01	1.01	1.00	1.78



Table 3. Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Sex -- Pre-Existing Condition or Dialysis Required

													New
				_		New			New Users/		Days	Days	Events/
	New	New		•	-	Anaphylaxis	Eligible		1K Eligible	Dispensings/	Supplied/	Supplied/	100k Days
	Users		Dispensings	Supplied	Risk	Events	Members	Member-Days	Members	User	User	Dispensing	at Risk
Event occurs in Inpatient or Emer	gency Depo	artment Co	ire Setting										
On day of exposure													
Female	18,609	,	18,813	18,813	18,742	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	24,369	0	137,989	34,776,872	175.54	1.01	1.01	1.00	0.00
Unknown	21	21	21	21	21	0	142	24,477	147.89	1.00	1.00	1.00	0.00
Within one day of exposure													
Female	18,609	18,609	18,813	18,813	37,340	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	48,576	0	137,989	34,776,872	175.54	1.01	1.01	1.00	0.00
Unknown	21	21	21	21	42	0	142	24,477	147.89	1.00	1.00	1.00	0.00
Within two days of exposure													
Female	18,609	18,609	18,813	18,813	54,070	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	69,994	0	137,989	34,776,872	175.54	1.01	1.01	1.00	0.00
Unknown	21	21	21	21	57	0	142	24,477	147.89	1.00	1.00	1.00	0.00
Event occurs in Outpatient Care S	etting												
On day of exposure													
Female	18,609	18,609	18,813	18,813	18,742	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	24,369	1	137,989	34,776,872	175.54	1.01	1.01	1.00	4.10
Unknown	21	21	21	21	21	0	142	24,477	147.89	1.00	1.00	1.00	0.00
Within one day of exposure													
Female	18,609	18,609	18,813	18,813	37,340	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	48,575	1	137,989	34,776,872	175.54	1.01	1.01	1.00	2.06
Unknown	21	21	21	21	42	0	142	24,477	147.89	1.00	1.00	1.00	0.00
Within two days of exposure													
Female	18,609	18,609	18,813	18,813	54,070	0	127,686	32,195,506	145.74	1.01	1.01	1.00	0.00
Male	24,222	24,222	24,436	24,436	69,992	2	137,989	34,776,872	175.54	1.01	1.01	1.00	2.86
Unknown	21	21	21	21	57	0	142	24,477	147.89	1.00	1.00	1.00	0.00



Table 4. Summary of Incident IV Iron Exposure and Anaphylaxis Events in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2000 and December 31, 2012, by Outcome Care Setting, Length of Time to Outcome and Year -- Pre-Existing Condition or Dialysis Required

						New			New Users/		Days	Days	New Events/
	New	New		•	Days at	Anaphylaxis	Eligible		1K Eligible	Dispensings/	Supplied/	Supplied/	100k Days at
	Users	Episodes		Supplied	Risk	Events	Members	Member-Days	Members	User	User	Dispensing	Risk
Event occurs in Inpatient or Emerg	ency Depar	tment Care	Setting										
On day of exposure													
2000	170	170	171	171	171	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	492	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00
2002	567	567	575	575	569	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	930	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	4,198	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	4,075	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	3,199	0	31,380	4,716,460	101.31	1.01	1.01	1.00	0.00
2007	3,259	3,259	3,283	3,283	3,283	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	6,178	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	7,342	0	69,983	9,874,456	104.00	1.01	1.01	1.00	0.00
2010	6,951	6,951	7,018	7,018	6,996	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00
2011	4,676	4,676	4,723	4,723	4,713	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	986	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00
Within one day of exposure													
2000	170	170	171	171	341	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	983	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00
2002	567	567	575	575	1,136	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	1,859	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	8,387	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	8,128	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	6,375	0	31,380	4,716,460	101.31	1.01	1.01	1.00	0.00
2007	3,259	3,259	3,283	3,283	6,540	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	12,296	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	14,613	0	69,983	9,874,456	104.00	1.01	1.01	1.00	0.00
2010	6,951	6,951	7,018	7,018	13,945	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00
2011	4,676	4,676	4,723	4,723	9,387	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	1,968	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00
Within two days of exposure													
2000	170	170	171	171	504	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	1,450	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00



2002	567	567	575	575	1,688	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	2,778	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	12,470	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	11,901	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	9,284	0	31,380	4,716,460	101.31	1.01	1.01	1.00	0.00
2007	3,259	3,259	3,283	3,283	9,372	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	17,702	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	20,836	0	69,983	9,874,456	104.00	1.01	1.01	1.00	0.00
2010	6,951	6,951	7,018	7,018	19,938	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00
2011	4,676	4,676	4,723	4,723	13,412	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	2,786	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00
Event occurs in Outpatient Care S	Setting												
On day of exposure													
2000	170	170	171	171	171	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	492	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00
2002	567	567	575	575	569	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	930	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	4,198	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	4,075	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	3,199	1	31,380	4,716,460	101.31	1.01	1.01	1.00	31.26
2007	3,259	3,259	3,283	3,283	3,283	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	6,178	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	7,342	0	69,983	9,874,456	104.00	1.01	1.01	1.00	0.00
2010	6,951	6,951	7,018	7,018	6,996	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00
2011	4,676	4,676	4,723	4,723	4,713	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	986	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00
Within one day of exposure													
2000	170	170	171	171	341	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	983	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00
2002	567	567	575	575	1,136	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	1,859	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	8,387	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	8,128	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	6,374	1	31,380	4,716,460	101.31	1.01	1.01	1.00	15.69
2007	3,259	3,259	3,283	3,283	6,540	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	12,296	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	14,613	0	69,983	9,874,456	104.00	1.01	1.01	1.00	0.00
2010	6,951	6,951	7,018	7,018	13,945	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00



2011	4,676	4,676	4,723	4,723	9,387	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	1,968	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00
Within two days of exposure													
2000	170	170	171	171	504	0	11,623	1,498,261	14.63	1.01	1.01	1.00	0.00
2001	491	491	496	496	1,450	0	14,504	3,022,873	33.85	1.01	1.01	1.00	0.00
2002	567	567	575	575	1,688	0	14,848	3,130,056	38.19	1.01	1.01	1.00	0.00
2003	930	930	942	942	2,778	0	15,577	3,208,930	59.70	1.01	1.01	1.00	0.00
2004	4,189	4,189	4,226	4,226	12,470	0	28,373	4,071,544	147.64	1.01	1.01	1.00	0.00
2005	4,055	4,055	4,100	4,100	11,901	0	32,055	4,891,600	126.50	1.01	1.01	1.00	0.00
2006	3,179	3,179	3,205	3,205	9,282	1	31,380	4,716,460	101.31	1.01	1.01	1.00	10.77
2007	3,259	3,259	3,283	3,283	9,372	0	37,308	5,335,947	87.35	1.01	1.01	1.00	0.00
2008	6,124	6,124	6,184	6,184	17,702	0	64,628	8,443,476	94.76	1.01	1.01	1.00	0.00
2009	7,278	7,278	7,360	7,360	20,836	1	69,983	9,874,456	104.00	1.01	1.01	1.00	4.80
2010	6,951	6,951	7,018	7,018	19,938	0	62,531	8,579,182	111.16	1.01	1.01	1.00	0.00
2011	4,676	4,676	4,723	4,723	13,412	0	55,179	7,926,350	84.74	1.01	1.01	1.00	0.00
2012	983	983	987	987	2,786	0	24,835	2,297,720	39.58	1.00	1.00	1.00	0.00



Appendix A. List of Diagnosis and Procedure Codes included in this Request

J1750	J1752	J1770	J2915	S0098	J1755	Q0138			
J1751	J1760	J1780	J2916	W0231	J1756	Q0139			
naphylaxis Internat	ional Classifica	ation of Diseas	ses, Ninth Rev	ision, Clinical N	Modification (ICD-9-CM) Dia	gnosis Code		
995.0									
pinephrine HCPCS C	odes								
J0170	J0171								
ialysis Codes									
ICD-9-CM Diagnosis	Codes								
996.56	996.73	V45.1							
996.68	458.21	V56							
ICD-9-CM Procedur	e Codes								
39.95									
54.98									
Current Procedural (CPT-4) Procedure (077	Fourth Edition							
90918	90921	90924	90937	90993	93990	36800	36825	36832	
90919	90922	90925	90945	90997	99512	36810	36830	36833	
90920	90923	90935	90947	90999	36145	36815	36831		
HCPCS Procedures									
A4690	G0311	G0321	A4656	A4708	A4725	A4765	A4911	E1550	E1634
E1510	G0312	G0322	A4657	A4709	A4726	A4766	A4913	E1560	E1635
E1590	G0313	G0323	A4670	A4712	A4728	A4770	A4918	E1570	E1636
E1592	G0314	G0324	A4671	A4714	A4730	A4771	A4928	E1575	E1637
E1594	G0315	G0325	A4672	A4719	A4736	A4773	A4929	E1580	E1638
E1630	G0316	G0326	A4673	A4720	A4737	A4774	C1881	E1600	E1639
E1632	G0317	G0327	A4674	A4721	A4740	A4802	E1500	E1610	E1699
G0308	G0318	S9335	A4680	A4722	A4750	A4860	E1520	E1615	J0635
G0309	G0319	S9339	A4706	A4723	A4755	A4870	E1530	E1620	J0636
00309	00515	00000		==					



Appendix B. Modular Program Specifications for Query ID msy4_mpr13_v1

Modular Program #3 was used to investigate diagnosis of Anaphylaxis and exposure to IV iron procedures for patients with a previous dialysis procedure. The query period was from January 1, 2000 to December 31, 2012. The enrollment gap was set at 45 days, and age groups will be split as follows: 00-21, 22-44, 45-64, and 65+ years. In total, 6 different scenarios were examined in this report. See below for a description of each of these scenarios. See the next tab for a glossary of selected terms, and see Appendix A for a list of codes included in the exposure of interest, the event of interest, and the pre-existing conditions of interest.

Incident Principal Event/ Incident w/ Care Care Washout Washout Principal Black ng Dx Outcome respect to: Setting Setting (days) Type Dx Perio NO Anaphylaxis Anaphylaxis IP, ED ALL 30 Multiple NO 0
ng Dx Outcome respect to: Setting Setting (days) Type Dx Perio
NO Anaphylaxis Anaphylaxis IP, ED ALL 30 Multiple NO 0
NO Anaphylaxis Anaphylaxis IP, ED ALL 30 Multiple NO 0
NO Anaphylaxis Anaphylaxis IP, ED ALL 30 Multiple NO 0
NO Anaphylaxis Anaphylaxis AV ALL 30 Multiple NO 0
NO Anaphylaxis Anaphylaxis AV ALL 30 Multiple NO 0
NO Anaphylaxis Anaphylaxis AV ALL 30 Multiple NO 0
NO NO

National Drug Codes (NDC) codes checked against First Data Bank's "National Drug Data File (NDDF®) Plus"

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis and procedure codes checked against "Ingenix 2012 ICD-9-CM Data File" provided by OptumInsight

Healthcare Common Procedure Coding System (HCPCS) codes checked against "Optum 2012 HCPCS Level II Data File" provided by OptumInsight

Current Procedural Terminology, Fourth Edition (CPT-4) codes checked against "Optum 2012 Current Procedure Codes & Relative Values Data File" provided by OptumInsight