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Data obtained through 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 Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in 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	
<u>Request Description</u>	The Applied Surveillance Core and FDA have requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool along with the Propensity Score Matching (PSM) tool to investigate severe hypoglycemia events following new use of glyburide versus glipizide in the Sentinel Distributed Database. This package was distributed to 15 Data Partners on February 24th, 2015. <i>This report includes results from 13 Data Partners.</i> The query period for this request was January 1, 2008 to September 30, 2014. Please see Appendices A - C for a list of all codes used to define exposures, outcomes, and covariates in this request.
	This is one of four reports for this request. This report displays the results for severe hypoglycemia events in any diagnosis position for emergency department encounters only. Another report displays the results for severe hypoglycemia events in any diagnosis position for emergency department encounters or first-listed diagnosis for inpatient encounters for 13 Data Partners. Two additional reports display results for the 5 Data Partners for which the high-dimensional propensity score (hdPS) analysis ran successfully
<u>Request ID</u>	to16_cap_mpl2r_wp001_nsdp_v01 (Report 4 of 4)
<u>Requester</u>	Sentinel Applied Surveillance Core
Glossary	List of Terms found in this Report and their Definitions
<u>Table 1</u> Table 2	Table displaying Cohort of New Initiators of Glyburide and Glipizide (Unmatched) Table displaying Cohort of New Initiators of Glyburide and Glipizide (Matched 1:1 Predefined PS, Caliper = 0.025)
<u>Table 3</u>	Table displaying Estimates for Severe Hypoglycemia Events by Analysis Type and Drug Pair (Glyburide vs. Glipizide)
Appendix A	Table of Generic Names used to Define Exposures in this Request
Appendix B	Table of Diagnosis Codes and Algorithm used to Define Severe Hypoglycemia in this Request
Appendix C	Table of Codes and Generic Names used to Define Covariates in this Request
Specifications	Program parameter inputs and scenarios
Notes:	Please contact the Sentinel Operations Center (MSOC_Requests@harvardpilgrim.org) for questions and to provide comments/suggestions for future enhancements to this document.



Glossary of Terms for Analyses Using Cohort Idendification and Descriptive Analyis (CIDA) Tool*

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. This is equivalent to the "RxAmt" 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 Cohort Definition (drug/exposure)- Indicates how the cohort will be defined: (1) 01: Cohort includes only the first valid incident treatment episode during the query period; (2) 02: Cohort includes all valid incident treatment episodes during the query period; (3) 03: Cohort includes all valid incident treatment episodes during the query period until an event occurs

Covariate Evaluation Window - number of days before the index date to evaluate the occurrence of covariates of interest.Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous **Covariate Grouping Indicator** - a requester-defined name used to indicate how codes should be grouped to identify a single covariate. **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 **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 same **Event Deduplication** - specifies how events are counted by the MP algorithm: (0): 0: Counts all occurrences of and HOI during an exposure episode; (1) 1: de-duplicates occurrences of the same HOI code and code type on the same day; (3) 3: de-duplicates occurrences of the same HOI group on the same day (eg. 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 **Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time"

Induction 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

Lookback Period (pre-existing condition) - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing)

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

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



<u>Glossary of Terms for Analyses Using</u> <u>Propensity Score Match (PSM) Tool*</u>

Bias Ranking - method for ranking/prioritizing covariates for inclusion in the hdPS model. This method yields a variable list in which variables are selected as ranked by the Bross bias formula.

Covariate Evaluation Window - number of days before the index date to evaluate the occurrence of covariates of interest.Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous **Covariate Grouping Indicator** - a requester-defined name used to indicate how codes should be grouped to identify a single covariate.

Exposure association ranking- default method for ranking/prioritizing covariates for inclusion in the hdPS model. This method yields a variable list in which the variables are selected as ranked by the strength of the relationship between confounder and exposure. This is most suitable for cases where there are fewer than 150 exposed outcomes.

High dimensional Propensity Score (hdPS) - allows for selection of empirically identified covariates in addition to and/or without predefined covariates based on the potential for confounding the exposure/outcome association under investigation.

Mahalanobis Distance- provides a measure of balance across all variables while accounting for their correlation.

Matching Caliper- maximum allowed difference in propensity scores between treatment and control patients. Options are 0.01, 0.025, and

Matching Ratio - patients in exposed and comparators are nearest neighbor matched by a 1:1 or 1:100 (up to 100) matching ratio.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Number of covariates from pool of considered covariates to keep in hdPS model - The total number of covariates to keep in the hdPS model. Default value is the fewest of 1) 200; or 2) the number of initiators of the exposure of interest.

Number of covariates to consider for each claim type for inclusion in hdPS model - The number of covariates that are considered for inclusion in the hdPS model for each claim type (NDC, ICD9 diagnosis, ICD9 procedure, HCPCS, and CPT). If a value of 100 is specified in this field, then 500 covariates will be considered for inclusion (100 for each of the 5 claim types), Default value is 100.

Outcome Association Ranking- method for ranking/prioritizing covariates for inclusion in the hdPS model. This method yields a variable list in which the variables are selected as ranked by the strength of the relationship between confounder and the outcome. This is most suitable **Predefined Propensity Score Matched Analysis** - performed by default using the Propensity Score Match Tool. Requester-defined covariates are included along with 12 other covariates: 1. Age (continuous) 2. Sex 3. Time (monitoring period) 4. Year of Exposure 5. Comorbidity Score (calculated during requester-defined lookback) 6. Medical Utilization- number of inpatient stays (during requester-defined lookback) 7. Medical Utilization- number of institutional stays (during requester-defined lookback) 8. Medical utilization- number of emergency department visits (during requester-defined lookback) 9. Medical utilization- number of outpatient visits (during requester-defined lookback) 10. Health care utilization- number of other ambulatory encounters (e.g telemedicine, email consults during requester-defined lookback) 11. Drug utilization- number of dispensings (during requester-defined lookback) 12. Drug utilization- number of unique generics dispensed

(during requester-defined lookback).

Propensity Score Match Tool - performs effect estimation by comparing exposure propensity-score matched parallel new user cohorts. The Propensity Score Match Tool generates tables of patient characteristics, stratified by exposure group, for the unmatched cohort and for the 1:1 matched cohort. Tables include measures of covariate balance and the Mahalanobis distance. The program also generates histograms depicting the propensity score distributions for each exposure group, separately for each Data Partner and each monitoring period, before and after matching. Figures include c-statistics. This program provides hazard ratios and 95% confidence intervals, Mantel-Haenszel rate differences, the number needed to treat/harm, the attributable risk, and the population attributable risk.

Query Level - Sentinel routine data queries are grouped into three distinct "levels," indicative of the level of complexity, extent of analytic adjustment, and need for repeated execution and alerting tools (i.e., prospective surveillance).

Zero Cell Correction - An indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150.



Table 1. Cohort of New Initiators of Glyburide and Glipizide at Risk for Severe Hypoglycemia¹ in the Emergency Department setting (Unmatched)

	Primary Analysis			Covariate Balance		
Characteristic	Glyburide		Glipizide			
Patients (N)	199,022	100.0%	380,870	100.0%		
Median person-days at risk*	79		114			
					Abcoluto	Standardized
	N	%/Std Dev ²	N	%/Std Dev ²	Difference	Difference
Patient Characteristics						
Gender (F)	101,502	51.0%	167,537	44.0%	7.0	0.140
Mean age (std dev)	55.0	13.9	59.7	12.7	-4.7	-0.352
Recorded History of ³ :						
Chronic Kidney Disease	11,707	5.9%	42,709	11.2%	-5.3	-0.191
Hypoglycemia	5,047	2.5%	20,243	5.3%	-2.8	-0.143
Insulin	14,168	7.1%	34,282	9.0%	-1.9	-0.069
Metformin	66,598	33.5%	184,132	48.3%	-14.8	-0.303
Other ADAs	28,494	14.3%	55,206	14.5%	-0.2	-0.005
Combined Comorbidity Score	0.4	1.7	0.7	2.0	-0.3	-0.165
Health Service Utilization Intensity:	Mean	Std Dev	Mean	Std Dev		
Number of generic drugs	5.3	4.3	6.3	4.6	-1.0	-0.216
Number of filled prescriptions	12.6	13.1	14.3	13.5	-1.6	-0.123
Number of inpatient hospital						
encounters (IP)	0.1	0.5	0.2	0.6	0.0	-0.093
Number of non-acute institutional						
encounters (IS)	0.1	1.0	0.1	1.0	0.0	-0.034
Number of emergency room						
encounters (ED)	0.3	0.7	0.3	0.8	0.0	-0.049
Number of ambulatory encounters (AV)	6.9	7.6	6.3	7.8	0.6	0.081
Number of other ambulatory		-		-		
encounters (OA)	2	3.6	2.7	4.4	-0.7	-0.168

¹See Appendix B for the list of codes used to define events

²Value represents standard deviation where no % follows the value

³See Appendix C for list of codes used to define these covariates

*Median person-days are risk was calculated after several patients were removed due to Data Partner compliance reasons.



Table 2. Cohort of New Initiators of Glyburide and Glipizide at Risk for Severe Hypoglycemia¹ in the Emergency Department setting (Matched 1:1 Predefined PS, Caliper = .025)

	Primary Analysis			Covariate Balance		
Characteristic	Glyburide		Glipizide			
Patients (N)	174,133	87.5%	174,133	45.7%		
Median person-days at risk*	84		104	0.1%		
					Absolute	Standardized
	N	%/Std Dev ²	Ν	%/Std Dev ²	Difference	Difference
Patient Characteristics						
Gender (F)	78,245	44.9%	80,185	46.0%	-1.1	-0.022
Mean age (std dev)	57.9	12.9	57.6	12.4	0.3	0.022
Recorded History of ³ :						
Chronic Kidney Disease	11,656	6.7%	12,785	7.3%	-0.6	-0.025
Hypoglycemia	4,946	2.8%	5,150	3.0%	-0.2	-0.007
Insulin	13,750	7.9%	14,308	8.2%	-0.3	-0.012
Metformin	65,839	37.8%	67,654	38.9%	-1.1	-0.021
Other ADAs	28,268	16.2%	28,909	16.6%	-0.4	-0.010
Combined Comorbidity Score	0.5	1.7	0.6	1.8	-0.1	-0.030
Health Service Utilization Intensity:	Mean	Std Dev	Mean	Std Dev		
Number of generic drugs	5.6	4.4	5.7	4.5	-0.1	-0.023
Number of filled prescriptions	13.6	13.7	14.0	13.8	-0.3	-0.023
Number of inpatient hospital						
encounters (IP)	0.1	0.5	0.1	0.5	0.0	0.001
Number of non-acute institutional						
encounters (IS)	0.1	1.0	0.1	1.0	0.0	-0.023
Number of emergency room						
encounters (ED)	0.3	0.8	0.3	0.8	0.0	0.000
Number of ambulatory encounters (ΔV)	65	75	6.8	8.8	-0.3	-0.037
Number of other ambulatory	0.5	1.5	0.0	0.0	-0.5	-0.037
encounters (OA)	1.7	3.3	1.9	3.9	-0.1	-0.034

¹See Appendix B for the list of codes used to define events

²Value represents standard deviation where no % follows the value

³See Appendix C for list of codes used to define these covariates

*Median person-days are risk was calculated after several patients were removed due to Data Partner compliance reasons.



Table 3. Estimates for Severe Hypoglycemia¹ in the Emergency Department setting by Analysis Type and Drug Pair (Glyburide vs. Glipizide)

		Person Vears	Average Person Vears	Number of	Incidence Rate ner	Risk per 1000	Incidence Rate	Risk Difference ner	Hazard Ratio	
Exposure Definition	New Users ²	at Risk	at Risk	Events	1000 Person Years	New Users	Person Years	1000 New Users	(95% CI)	Wald P-Value
Unmatched Analysis (Site-adjusted only)										
Glyburide	199,019	90,306	0.45	325	3.60	1.63	-0.08	-0.76	1.30 (1.13, 1.50)	0.0002
Glipizide	380,869	247,580	0.65	912	3.68	2.39	0.00	0170	1.00 (1.10) 1.00)	0.0001
1:1 Matched Predefi	ned PS Analy	sis; Caliper=0.0	025 (Cox Mode	el Stratified l	by Matched Pair)					
Glyburide	174,131	39,151	0.22	218	5.57	1.25	2.63	0.59	1.90 (1.51, 2.38)	<.0001
Glipizide	174,132	39,151	0.22	115	2.94	0.66	2.00	0.00		
1:1 Matched Predefined PS Analysis; Caliper=0.025 (Cox Model NOT Stratified by Matched Pair)										
Glyburide	174,131	83,640	0.48	309	3.69	1.77	1.54	0.53	1.62 (1.36, 1.93)	<.0001
Glipizide	174,132	100,084	0.57	216	2.16	1.24			()	

¹See Appendix B for the list of codes used to define events

²Several patients were removed from the matched analysis due to Data Partner compliance reasons



Appendix A. Generic Names Used to Define Exposures in this Request

Generic Name	
Glyburide	
GLYBURIDE	
GLYBURIDE, MICRONIZED	
GLYBURIDE/METFORMIN HCL	
Glipizide	
GLIPIZIDE	
GLIPIZIDE/METFORMIN HCL	
Other Secretagogues	
CHLORPROPAMIDE	
TOLBUTAMIDE	
TOLAZAMIDE	
ROSIGLITAZONE MALEATE/GLIMEPIRIDE	
GLIMEPIRIDE	
PIOGLITAZONE HCL/GLIMEPIRIDE	
NATEGLINIDE	
REPAGLINIDE	
REPAGLINIDE/METFORMIN HCL	
ACETOHEXAMIDE	



Appendix B. Codes and Algorithm Used to Define Severe Hypoglycemia in this Request

HYPOGLYCEMIA EVENT ALGORITHM

Figure 1 below depicts the algorithm to identify a hypoglycemia event. All outcomes of this algorithm must be identified during the one incident treatment episode identified by the CIDA tool.

Figure 1. Event algorithm



Note 1: Event care setting and diagnosis position is restricted for both Event Groups 1 and 2:

- <u>Primary Outcome of Interest</u>: Any diagnosis position for ED Encounter Type (ED*) or firstlisted diagnosis for IP Encounter Type (IPP)
- <u>Secondary Outcome of Interest</u>: Any diagnosis position for ED Encounter Type (ED*)

<u>Note 2</u>: Exact code matches are to be used unless followed by an "x." Use "starts with" when an "x" is used to include all subcodes.



Appendix C. Codes Used to Define Covariates in this Request

Code	Code Type	Description/Generic Name
Chronic Kic	lney Disease	
582	ICD9-CM Diagnosis	CHRONIC GLOMERULONEPHRITIS
582.*	ICD9-CM Diagnosis	CHRONIC GLOMERULONEPHRITIS
582.**	ICD9-CM Diagnosis	CHRONIC GLOMERULONEPHRITIS
583	ICD9-CM Diagnosis	NEPHRITIS&NEPHRPATH NOT ACUT/CHRN
583.0	ICD9-CM Diagnosis	NEPHRITIS&NEPHROPATHY W/LES PROLIF
583.1	ICD9-CM Diagnosis	NEPHRIT&NEPHROPATH-LES MEMB GLN
583.2	ICD9-CM Diagnosis	NEPHRIT&NEPHROP-LES MEMBRNPROLF GLN
583.4	ICD9-CM Diagnosis	NEPHRIT&NEPHROP-LES RAPID PROG GLN
583.6	ICD9-CM Diagnosis	NEPHRIT&NEPHROP W/LES CRTICL NECROS
583.7	ICD9-CM Diagnosis	NEPHRIT&NEPHROP W/LES MEDULRY NCROS
585	ICD9-CM Diagnosis	CHRONIC KIDNEY DISEASE
585.*	ICD9-CM Diagnosis	CHRONIC KIDNEY DISEASE
586	ICD9-CM Diagnosis	RENAL FAILURE. UNSPECIFIED
586.*	ICD9-CM Diagnosis	RENAL FAILURE. UNSPECIFIED
588	ICD9-CM Diagnosis	DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION
588.*	ICD9-CM Diagnosis	DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION
Hypoglycer	nia	
251.0	ICD9-CM Diagnosis	hypoglycemia coma
251.1	ICD9-CM Diagnosis	other specified hypoglycemia
251.2	ICD9-CM Diagnosis	hynoglycemia unspecified
250.8	ICD9-CM Diagnosis	diabetes with other specified manifestations
250.8*	ICD9-CM Diagnosis	diabetes with other specified manifestations
Other ADA	s	addetes with other specifica manifestations
01110171271	NDC	ACARBOSE
	NDC	ALBIGUUTIDE
	NDC	ALOGUPTIN BENZOATE/PIOGUTAZONE HCI
	NDC	
	NDC	DAPAGLIELOZIN PROPANEDIOL /METEORMIN HCI
	NDC	
	NDC	
	NDC	
	NDC	
		MIGUTO
	NDC	
	NDC	
	NDC	STAGLIPTIN PHOSPHATE/IVIETFORIVIIN HCL



Appendix C. Codes Used to Define Covariates in this Request

Code	Code Type	Description/Generic Name
	NDC	SITAGLIPTIN PHOSPHATE
	NDC	SITAGLIPTIN PHOSPHATE/SIMVASTATIN
	NDC	TROGLITAZONE
Insulin		
	NDC	INSULIN LISPRO
	NDC	INSULIN LISPRO PROTAMINE & INSULIN LISPRO
	NDC	INSULIN REGULAR, BEEF-PORK
	NDC	INSULIN, PORK PURIFIED
	NDC	INSULIN REGULAR, HUMAN
	NDC	INSULIN ISOPHANE NPH, BF-PK
	NDC	INSULIN ISOPHANE, PORK PURE
	NDC	NPH, HUMAN INSULIN ISOPHANE
	NDC	INSULIN ZINC, BEEF-PORK
	NDC	INSULIN ZINC, PORK PURIFIED
	NDC	INSULIN ZINC HUMAN REC
	NDC	INSULIN ZINC EXTEND HUMAN REC
	NDC	NPH, HUMAN INSULIN ISOPHANE/INSULIN REGULAR, HUMAN
	NDC	INSULIN ADMIN. SUPPLIES
	NDC	INSULIN GLARGINE, HUMAN RECOMBINANT ANALOG
	NDC	INSULIN GLULISINE
	NDC	INSULIN REGULAR, HUMAN BUFFERED
	NDC	INSULIN ASPART
	NDC	INSULIN ASPART PROTAMINE HUMAN/INSULIN ASPART
	NDC	INSULIN DETEMIR
	NDC	SYRINGE W-O NEEDL,INSULIN,1 ML
	NDC	INSULIN ZINC BEEF
	NDC	INSULIN ISOPHANE,BEEF
	NDC	INSULIN,PORK
Metform	nin	
	NDC	SAXAGLIPTIN HCL/METFORMIN HCL
	NDC	SITAGLIPTIN PHOSPHATE/METFORMIN HCL
	NDC	ROSIGLITAZONE MALEATE/METFORMIN HCL
	NDC	METFORMIN HCL
	NDC	PIOGLITAZONE HCL/METFORMIN HCL
	NDC	REPAGLINIDE/METFORMIN HCL
	NDC	DAPAGLIFLOZIN PROPANEDIOL/METFORMIN HCL
	NDC	LINAGLIPTIN/METFORMIN HCL
	NDC	CANAGLIFLOZIN/METFORMIN HCL
	NDC	ALOGLIPTIN BENZOATE/METFORMIN HCL
	NDC	METFORMIN/CAFFEINE/AMINO ACIDS#7/HERBAL COMB#125/CHOLINE BI
	NDC	METFORMIN/AMINO ACIDS COMB. #7/HERBAL COMB.#125/CHOLINE



Specifications for to16_cap_mpl2r_wp001_nsdp_v01											
FDA requested use of the Cohort Identification and Descriptive Analysis (CIDA) Tool with Propensity Score Matching (PSM) to investigate severe											
hypoglycemia	events following new use of glyburid	e versus glipizide. This r	eport displays the results	for severe hypoglycemia	events in any diagnosis						
position for en	nergency department encounters onl	y (Run 2, below).									
		Enrollment Gap:	45 days								
		Age Groups:	18+								
	Query Period: 1/1/2008 to 09/30/14										
Coverage Requirement: Medical and Drug Coverage											
	Enrollment Requirement: 183 days										
Run 1 Run 2											
Exposure of Interest Comparator of Interest Exposure of Interest Comparator of Interest											
Glyburide Glipizide Glyburide Glipizide											
	F	Giyburide, giipizide		Giyburide, giipizide							
		and other	Clinizido, gluburido and	and other	Clinizido, gluburido and						
		secretagogues	Gipizide, giyburide and	secretagogues	other secretageques						
		including	including	including	including						
		chlorpropamide,	Including	chlorpropamide,	including						
	Incident w/ respect to:	tolbutamide,	chiorpropamide,	tolbutamide,	chiorpropartide,						
		tolazamide,	toibutamide,	tolazamide,	toibutamide,						
		glimepiride,	tolazamide, glimepiride,	glimepiride,	tolazamide, glimepiride,						
		nateglinide,	nateglinide, repaglinide,	nateglinide,	nateglinide, repaglinide,						
		repaglinide,	acetonexamide	repaglinide,	acetonexamide						
Drug/		acetohevamide		acetohevamide							
Exposure:	Washout (days)	183	183	183	183						
	Cohort Definition	01	01	01	01						
	Episode Gap	14	14	14	14						
	Exposure Extension Period	14	14	14	14						
	Minimum Episode Duration	0	0	0	0						
	Minimum Days Supplied	0	0	0	0						
	Induction Period	0	0	0	0						
	Truncation by Death	Voc	Vor	Voc	Voc						
	Enisode Truncation by Incident	103	105	103	103						
	Exposure	Yes	Yes	Yes	Yes						
İ											
	Event/ Outcome	Hypoglycemia	Hypoglycemia	Hypoglycemia	Hypoglycemia						
		(See event algorithm)	(See event algorithm)	(See event algorithm)	(See event algorithm)						
Event/	Care Setting/PDX	ED* or IPP	ED* or IPP	ED*	ED*						
Outcome:	Incident w/ respect to:	Hypoglycemia	Hypoglycemia	Hypoglycemia	Hypoglycemia						
	Mashaut (daya)										
	vvasiiuut (udys)	50	50	50	50						
	PSM Ratio		1:1		1:1						
	PSM Caliper	0.	.025	0.025							
	Covariate evaluation window	183		183							
Propensity	(days)		1	, second s							
Score Match	Perform HDPS Analysis		res	Yes							
(PSM)	Number of covariates considered	1	100	100							
Analysis:	for each claim type										
	nool of considered coveristes	2	200	200							
	Covariate selection method	Exposure associat	tion-based selection	Exposure associat	ion-based selection						
	Zara Call Correction										
I	Zero Cell Correction		165		15						
National Drug Codes (NDCs) checked against First Data Bank's "National Drug Data File (NDDF®) Plus"											
ICD-9-CM diagnosis and procedure codes checked against "Ingenix 2012 ICD-9-CM Data File" provided by OptumInsight											
HCPCS codes c	hecked against "Optum 2012 HCPCS Leve	I II Data File" provided by C)ptumInsight								
CPT codes checked against "Optum 2012 Current Procedure Codes & Relative Values Data File" provided by OptumInsight											