

Supplementary Online Content

Lipska KJ, Ross JS, Wang Y, et al. National trends in US hospital admissions for hyperglycemia and hypoglycemia among Medicare beneficiaries, 1999 to 2011. *JAMA Intern Med*. Published online May 17, 2014. doi:10.1001/jamainternmed.2014.1824.

eFigure. ICD-9 codes used to identify hospital admissions for hyperglycemia and hypoglycemia

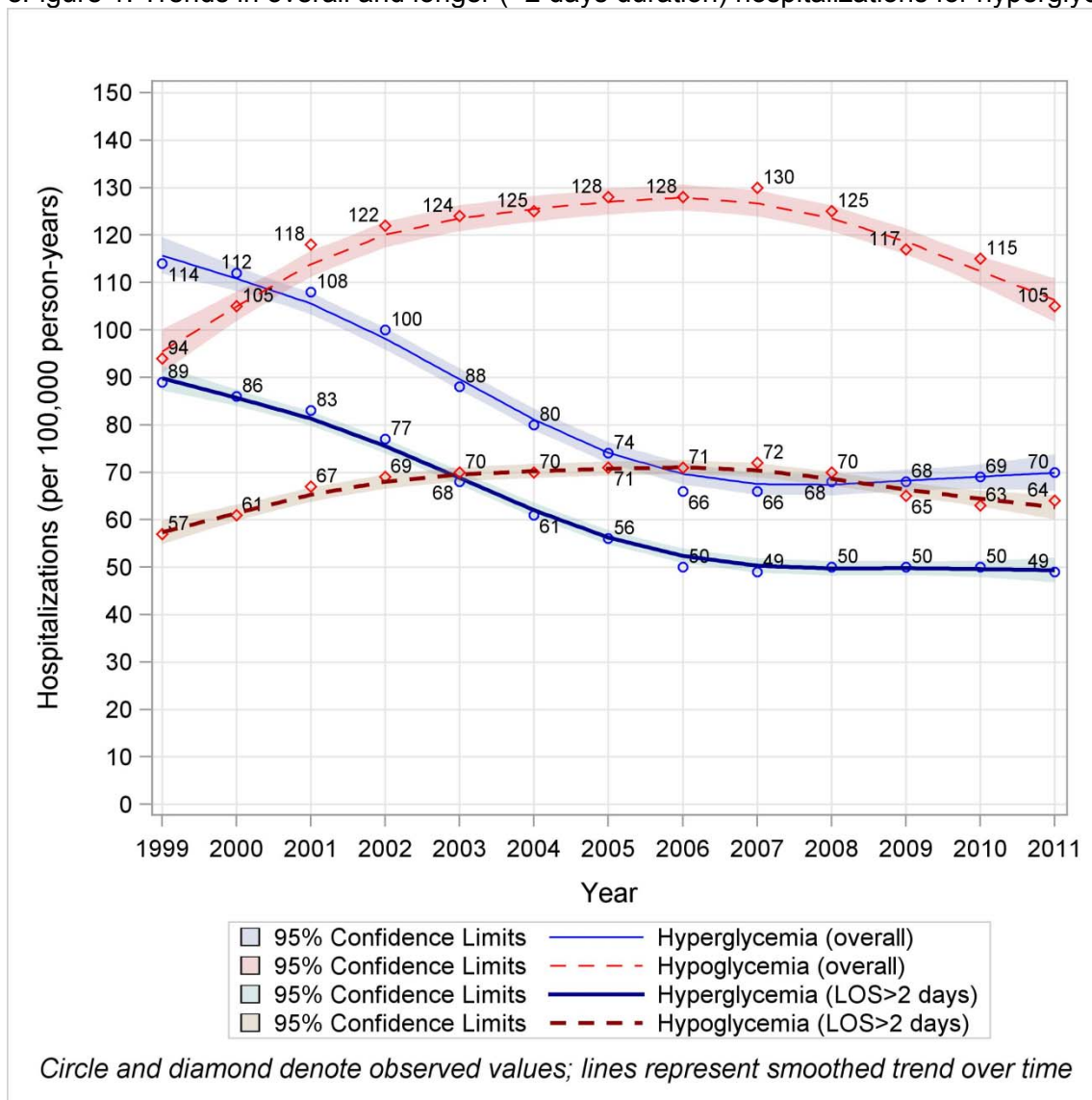
eTable 1. ICD-9 codes used to identify hospital admissions for hyperglycemia and hypoglycemia

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eTable 3. Observed rates of beneficiaries hospitalized for hyperglycemia and hypoglycemia per 100,000 person-years, 1999 to 2011

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1: Trends in overall and longer (>2 days duration) hospitalizations for hyperglycemia and hypoglycemia, 1999-2011



eTable 1: ICD-9 codes used to identify hospital admissions for hyperglycemia and hypoglycemia

	Principal Discharge Diagnosis ICD-9 Code
Hyperglycemia	
Diabetes type 2 without complications, uncontrolled	250.02
Diabetes type 1 without complications, uncontrolled	250.03
Diabetic ketoacidosis	250.1
Diabetes with hyperosmolarity	250.2
Diabetes with other coma (diabetic coma with ketoacidosis, diabetic hypoglycemic coma, insulin coma NOS)	250.3
Hypoglycemia	
Hypoglycemic coma	251.0*
Other specified hypoglycemia	251.1*
Hypoglycemia unspecified	251.2*
Poisoning by insulins or antidiabetic agents	962.3*
Diabetes with other manifestations (diabetic hypoglycemia NOS or hypoglycemic shock NOS)	250.8**

* We specified that these principal discharge diagnoses had to occur in conjunction with a secondary ICD-9 code for diabetes (250.xx).

** For the principal discharge diagnosis of 250.8, we excluded admissions with the following secondary ICD-9 codes following a validated algorithm:²⁵ 259.8, 272.7, 681.xx, 682.xx, 686.9x, 707.xx, 709.3, 730.0-730.2, or 731.8.

eTable 2: Observed rates of hospital admissions for hyperglycemia and hypoglycemia per 100,000 person-years, 1999 to 2011

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<u>Hyperglycemia</u>													
Overall	114	112	108	100	88	80	74	66	66	68	68	69	70
By Age													
65-74 years	97	97	93	89	79	73	69	63	63	64	65	66	67
75-84 years	132	127	122	112	98	88	81	72	71	74	74	75	75
≥85 years	136	132	130	116	98	88	76	65	63	67	69	68	68
By Sex													
Female	120	119	115	107	95	85	77	68	68	70	70	70	71
Male	105	102	97	91	80	73	70	63	63	65	67	68	69
By Race													
White	92	89	87	79	69	62	56	51	51	53	54	54	55
Black	335	332	307	299	264	248	236	216	214	214	218	216	217
Other	160	162	163	152	135	127	118	96	93	93	87	87	82
<u>Hypoglycemia</u>													
Overall	94	105	118	122	124	125	128	128	130	125	117	115	105
By Age													
65-74 years	70	76	86	88	90	89	90	90	90	85	78	77	72
75-84 years	121	136	151	159	161	162	169	168	172	166	158	153	141
≥85 years	126	141	158	160	166	170	177	176	179	181	172	172	152
By Sex													
Female	98	112	124	128	129	129	133	132	132	128	118	116	106
Male	88	96	109	113	117	118	122	123	127	121	116	112	103
By Race													
White	74	83	93	95	97	96	99	99	100	98	92	89	82
Black	294	322	355	371	370	376	388	385	395	373	348	344	315
Other	129	157	177	194	194	206	213	214	210	195	169	171	144

eTable 3: Observed rates of beneficiaries hospitalized for hyperglycemia and hypoglycemia per 100,000 person-years, 1999 to 2011

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<u>Hyperglycemia</u>													
Overall	106	104	100	93	82	74	68	61	61	62	64	64	65
By Age													
65-74 years	90	89	86	81	73	67	63	57	58	58	60	61	62
75-84 years	123	118	113	104	91	82	75	67	66	69	69	70	70
≥85 years	129	126	122	110	93	83	72	62	59	63	65	65	64
By Sex													
Female	111	110	106	99	87	78	71	63	62	64	64	65	65
Male	98	95	91	85	74	69	65	59	59	60	63	64	64
By Race													
White	86	83	81	73	64	57	52	47	47	49	50	50	51
Black	308	305	282	274	242	229	219	198	195	195	200	201	199
Other	148	151	152	141	126	119	110	90	87	87	82	84	78
<u>Hypoglycemia</u>													
Overall	89	99	111	114	116	117	120	120	121	117	111	109	100
By Age													
65-74 years	66	72	81	82	84	83	84	84	83	79	74	73	68
75-84 years	114	128	142	149	151	152	158	158	161	156	150	146	134
≥85 years	120	134	149	151	155	160	166	165	168	171	164	164	146
By Sex													
Female	93	105	116	119	121	121	124	123	123	120	112	111	101
Male	84	91	103	107	110	111	115	116	119	114	110	107	98
By Race													
White	71	79	88	89	92	91	94	94	94	93	88	85	79
Black	272	297	326	340	339	346	354	354	361	341	324	322	292
Other	121	147	166	181	182	191	198	196	193	181	160	163	136