

**Appendix 1. Results from Generalized Estimating Equations Estimating Race by Time Interactions in Predicting 30-Day Readmission After Vaginal Delivery (Diagnosis-Related Group [DRG] 775) and Cesarean Delivery (DRG 766), Connecticut Hospitals 2005-2012**

	Vaginal Delivery				Cesarean Delivery			
	OR	(95% CI)		P	OR	(95% CI)		P
Asian	0.97	0.67	1.39	0.862	0.74	0.47	1.16	0.193
Black	1.57	1.31	1.86	0.000	1.61	1.33	1.95	0.000
Hispanic	1.19	1.01	1.40	0.040	1.30	1.08	1.56	0.006
Other race	0.81	0.64	1.01	0.063	0.72	0.54	0.96	0.024
Antepartum admission	0.92	0.78	1.09	0.357	1.49	1.13	1.97	0.005
Date	1.01	0.98	1.04	0.634	0.99	0.96	1.03	0.682
Length of stay	1.02	0.98	1.06	0.333	1.16	1.09	1.24	0.000
Length of stay <sup>2</sup>	1.00	1.00	1.00	0.677	0.99	0.99	1.00	0.006
SES	0.99	0.97	1.02	0.582	0.96	0.94	0.99	0.004
Comorbidity index	1.31	1.10	1.55	0.002	1.13	0.94	1.37	0.199
Hypertension	2.29	1.80	2.90	0.000	2.17	1.77	2.65	0.000
Neurological disorders	1.37	0.69	2.72	0.365	2.60	1.13	6.00	0.025
Diabetes w/o complications	1.43	1.13	1.81	0.003	1.13	0.92	1.39	0.254
Coagulation deficiency	1.13	0.62	2.06	0.699	0.58	0.13	2.54	0.471
Obesity	1.80	1.33	2.45	0.000	2.14	1.67	2.74	0.000
Blood loss anemia	1.05	0.83	1.33	0.686	0.98	0.74	1.31	0.900
Drug abuse	1.16	0.75	1.80	0.495	0.73	0.29	1.80	0.492
Infection	1.61	1.14	2.27	0.007	1.51	1.08	2.09	0.015
Hemolytic anemias	1.23	0.70	2.16	0.471	0.61	0.24	1.52	0.286
Medicaid	1.27	1.11	1.46	0.001	1.30	1.11	1.52	0.001
Other payer	1.51	1.15	1.97	0.003	1.04	0.73	1.49	0.818
Asian * Date	1.02	0.89	1.17	0.760	0.93	0.78	1.11	0.415
Black * Date	1.03	0.97	1.09	0.343	1.05	0.98	1.12	0.161
Hispanic * Date	1.02	0.96	1.08	0.626	0.99	0.93	1.05	0.710
Other * Date	0.93	0.85	1.01	0.098	1.10	0.99	1.23	0.090

Note. All models control for patient's age, quadratic age, facility volume, and date of admission. Date is captured as time since first observation in the dataset in days.

Aseltine RH, Yan J, Fleishman S, Katz M, DeFrancesco M. Racial and ethnic disparities in hospital readmissions after vaginal and cesarean delivery. *Obstet Gynecol* 2015;126.

The authors provided this information as a supplement to their article.

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**Appendix 2. Results from Generalized Estimating Equations Estimating Race by Payer Interactions in Predicting 30-Day Readmission After Vaginal Delivery (Diagnosis-Related Group [DRG] 775) and Cesarean Delivery (DRG 766), Connecticut Hospitals 2005-2012**

	Vaginal Delivery				Cesarean Delivery			
	OR	(95% CI)		P	OR	(95% CI)		P
Asian	1.00	0.67	1.47	0.981	0.84	0.53	1.35	0.475
Black	1.92	1.52	2.44	0.000	1.91	1.50	2.45	0.000
Hispanic	1.32	1.01	1.74	0.043	1.52	1.16	1.99	0.002
Other race	0.66	0.48	0.91	0.010	0.83	0.60	1.14	0.247
Antepartum admission	0.92	0.78	1.09	0.358	1.49	1.13	1.97	0.005
Date	1.01	0.99	1.04	0.313	1.00	0.98	1.03	0.728
Length of stay	1.02	0.98	1.06	0.317	1.16	1.09	1.24	0.000
Length of stay <sup>2</sup>	1.00	1.00	1.00	0.673	0.99	0.99	1.00	0.006
SES	1.00	0.97	1.02	0.703	0.97	0.94	0.99	0.008
Comorbidity index	1.31	1.11	1.55	0.002	1.13	0.93	1.36	0.210
Hypertension	2.29	1.81	2.91	0.000	2.17	1.77	2.65	0.000
Neurological disorders	1.39	0.70	2.75	0.349	2.55	1.10	5.89	0.029
Diabetes w/o complications	1.43	1.13	1.81	0.003	1.12	0.91	1.38	0.285
Coagulation deficiency	1.14	0.62	2.08	0.678	0.57	0.13	2.51	0.460
Obesity	1.83	1.35	2.49	0.000	2.12	1.66	2.72	0.000
Blood loss anemia	1.05	0.83	1.33	0.701	0.99	0.74	1.32	0.948
Drug abuse	1.17	0.75	1.81	0.493	0.71	0.29	1.76	0.461
Infection	1.62	1.14	2.28	0.006	1.50	1.08	2.08	0.016
Hemolytic anemias	1.23	0.70	2.16	0.469	0.63	0.25	1.56	0.312
Medicaid	1.35	1.12	1.64	0.002	1.58	1.27	1.95	0.000
Other payer	1.71	1.19	2.45	0.004	1.17	0.72	1.91	0.515
Asian * Medicaid	0.91	0.40	2.07	0.818	0.37	0.08	1.63	0.190
Black * Medicaid	0.77	0.56	1.06	0.106	0.71	0.51	0.99	0.046
Hispanic * Medicaid	0.86	0.61	1.20	0.365	0.71	0.50	1.01	0.060
Other * Medicaid	1.38	0.87	2.18	0.176	0.85	0.50	1.45	0.547
Asian * Other payer	1.45	0.32	6.43	0.629	0.00	0.00	0.00	0.000
Black * Other payer	0.38	0.14	1.00	0.050	1.01	0.40	2.57	0.984
Hispanic * Other payer	0.92	0.48	1.77	0.801	0.66	0.26	1.66	0.375
Other * Other payer	1.03	0.38	2.80	0.953	0.70	0.16	3.11	0.636

Note. All models control for patient's age, quadratic age, facility volume, and date of admission. Date is captured as time since first observation in the dataset in days.

Aseltine RH, Yan J, Fleishman S, Katz M, DeFrancesco M. Racial and ethnic disparities in hospital readmissions after vaginal and cesarean delivery. *Obstet Gynecol* 2015;126.

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**Appendix 3. Readmission Volume Among Adult Women in Connecticut  
(Top 15 Diagnosis-Related Groups): Connecticut Hospitals 2005-2012**

DRG Code	Description	N	% of Readmissions
885	Psychoses	9049	4.7
291	Heart failure & shock with MCC	6086	3.1
781	Other antepartum diagnoses with medical complications	4975	2.6
193	Simple pneumonia & pleurisy with MCC	4000	2.1
190	Chronic obstructive pulmonary disease with MCC	3634	1.9
392	Esophagitis, gastroenteritis & miscellaneous digestive disorders without MCC	3242	1.7
391	Esophagitis, gastroenteritis & miscellaneous digestive disorders with MCC	2869	1.5
871	Septicemia without 96+ hours of mechanical ventilation with MCC	2797	1.4
689	Kidney & urinary tract infections with MCC	2584	1.3
682	Renal failure with MCC	2506	1.3
189	Pulmonary edema & respiratory failure	2363	1.2
640	Nutritional & miscellaneous metabolic disorders with MCC	2327	1.2
64	Intracranial hemorrhage or cerebral infarction with MCC	2127	1.1
918	Poisoning & toxic effects of drugs without MCC	2028	1.0
690	Kidney & urinary tract infections without MCC	1962	1.0

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**Appendix 4. Race and Ethnic Distribution of Connecticut Residents:  
Comparing Results from the Current Population Survey to the Connecticut  
Acute Care Hospital Inpatient Discharge Database**

	SOURCE	
	Current Population Survey 2010/2011	CT Acute Care HIDD 2010/2011
White	72%	73%
Black	9	11
Hispanic	12	10
Asian	--*	1
Other	6	5
Total	100	100

Source: Census Bureau's March 2010 and 2011 Current Population Survey data as summarized in the Kaiser Family Foundation's State Health Facts (<http://kff.org/other/state-indicator/distribution-by-raceethnicity/?state=ct>).

\*Note: The CPS includes Asians in the Other race category.