

Table 5. Natural direct effect (NDE), natural indirect effect (NIE) and total effect (TE) of pre-existing and gestational conditions (comorbid conditions) on severe postpartum maternal morbidity mediated by elective repeat cesarean delivery (ERCD) among women with prior CD, term, singleton, vertex gestations^{a,b}

	Younger Women (< 35 years) N = 104,465 ERCD N = 76,474 (73.2%)						Older Women (> 35 years) N = 37,070 ERCD N = 26,474 (71.4%)					
	NDE		NIE		TE		NDE		NIE		TE	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
Any diabetes	Comorbid cases N = 9,950 (9.5%)						Comorbid cases N = 6,664 (18.0%)					
	0.97	0.84-1.12	1.00	1.00-1.00	0.97	0.84-1.12	1.09	0.92-1.29	1.00	1.00-1.01	1.09	0.92-1.29
	Any diabetes not significant in outcome and ERCD models						Any diabetes not significant in outcome and ERCD models					
Chronic Diabetes (± gestational diabetes)	Comorbid cases N=1,316 (1.3%)						Comorbid cases N = 828 (2.2%)					
	1.04	0.74-1.45	1.00	0.99-1.00	1.04	0.73-1.45	1.17	0.79-1.73	0.99	0.98-1.00	1.16	0.78-1.72
	Chronic diabetes not significant in outcome and ERCD models						Chronic diabetes not significant in outcome and ERCD models					
Gestational diabetes only	Comorbid cases N = 8,638 (8.3%)						Comorbid cases N = 5,839 (15.8%)					
	0.96	0.82-1.17	1.00	1.00-1.00	0.95	0.82-1.12	1.08	0.90-1.28	1.00	1.00-1.01	1.08	0.91-1.29
	Gestational diabetes not significant in outcome and ERCD models						Gestational diabetes not significant in outcome and ERCD models					
Any Hypertension	Comorbid cases N = 4,955 (4.7%)						Comorbid cases N = 2,709 (7.3%)					
	1.66	1.42-1.94	1.00	1.00-1.01	1.67	1.43-1.94	1.96	1.62-2.39	1.00	1.00-1.01	1.97	1.62-2.39
Chronic/ Superimposed Hypertension	Comorbid cases N = 1,592 (1.5%)						Comorbid cases N = 1,176 (3.2%)					
	1.53	1.17-2.00	1.00	1.00-1.00	1.53	1.17-2.00	1.50	1.10-2.04	1.00	0.99-1.00	1.49	1.10-2.04
	Chronic/superimposed hypertension not significant in outcome and ERCD models						Chronic/superimposed hypertension not significant in outcome and ERCD models					
Gestational Hypertension only	Comorbid cases N = 2,955 (2.8%)						Comorbid cases N = 1,267 (3.4%)					
	1.81	1.50-2.19	1.01	1.00-1.01	1.83	1.51-2.21	2.43	1.90-3.11	1.01	1.00-1.02	2.46	1.92-3.14
Obesity	Comorbid cases N = 32,267 (30.9%)						Comorbid cases N = 9,506 (25.6%)					
	0.93	0.85-1.02	0.99	0.99-1.00	0.92	0.84-1.01	0.78	0.67-0.92	0.99	0.98-0.99	0.78	0.66-0.91
	Obesity not significant in outcome model											
Heart disease	Comorbid cases N = 501 (0.5%)						Comorbid cases N = 254 (0.7%)					
	10.68	8.50-13.43	1.00	1.00-1.01	10.74	8.54-13.50	8.78	6.34-12.17	1.00	0.98-1.02	8.80	6.35-12.20
	Heart disease not significant in ERCD model											
Mental health disorder	Comorbid cases N=3,415 (3.3%)						Comorbid cases N=1,192 (3.2%)					
	1.89	1.59-2.25	1.01	1.00-1.01	1.90	1.60-2.26	1.69	1.28-2.25	1.01	1.00-1.02	1.71	1.29-2.28

Note. Abbreviations: ERCD = Elective repeat cesarean delivery; NDE = Natural direct effect; NIE = Natural indirect effect; TE = Total effect; OR = Odds ratio; CI = Confidence interval. ^aOutcome and mediator logistic regression models adjusted for: Race/ethnicity, mother's education level, Medicaid insurance, Pre-natal care index, year of delivery, abruption, antepartum bleed, isoimmune disease, soft tissue condition, polyhydramnios, oligohydramnios, intrauterine growth restriction, excessive fetal growth, renal disease, liver disease, herpes and comorbid conditions other than the specific one under consideration. Interaction between comorbid condition of interest (exposure) and ERCD (mediator) were tested for each model and were all found insignificant. ^bConditions not met due to insignificance of the adjusted effect of maternal condition (exposure) and/or ERCD (mediator) are indicated in footnote under model results for each maternal condition.