Maternal and Infant Complications

Table 7a shows prevalence of delivery-related maternal and infant outcomes that may be associated with a GDM-affected pregnancy. In all time periods where measured, infants born to women with GDM were more frequently delivered by C-Section than babies born to women without GDM. In 2019 high blood pressure data was statistically significant indicating women with GDM were more often diagnosed with high blood pressure than non-GDM women. In 2019 there were statistically significant differences in the length of hospitalization across women with and without GDM. However, these differences were not significant in 2016 and 2017, making it challenging to draw comparisons across years.

Table 7a. Prevalence of maternal and delivery outcomes, by GDM status, Ohio. Source: Ohio Pregnancy Assessment Survey.

	2016		2017		2018		2019	
	%With GDM [95% CI]	% W/out GDM [95% CI]	%With GDM [95% CI]	% W/out GDM [95% CI]	%With GDM [95% CI]	% W/out GDM [95% CI]	%With GDM [95% CI]	% W/out GDM [95% CI]
Infant								
Baby in NICU	14.3 [9.1 - 19.5]	12.9 [11.1 - 14.7] ns	Not assessed[1]		Not assessed[1]		Not assessed[1]	
Length of Hospital Stay		ns		ns		*		*
1-2 days	58.4 [49.5-67.2]	57.1 [54.1-60.0]	57.2 [50.8-63.5]	59.2 [57.2-61.2]	50.7 [44.7-56.7]	60.1 [58.1-62.0]	49.6 [42.6-56.7]	61.2 [58.9-63.4]
3-5 days	29.6 [21.5–37.6]	29.7 [26.9-32.4]	32.3 [26.5-38.8]	33.3 [31.4-35.3]	36.8 [31.1-42.8]	32.6 [30.7-34.6]	38.9 [28.1-32.5]	30.2 [32.2-46.0]
6 days +	9.6 [5.6-13.6]	8.9 [7.3-10.5]	10.3 [7.4-14.1]	7.3 [6.5-8.1]	12.4 [9.4-16.1]	7.1 [6.4-7.8]	11.4 [8.5-15.0]	8.4 [7.4-9.5]
Maternal								
High Blood Pressure	18.7 [12.1-25.2]	12.8 [10.9-14.8] ns	23.3 [18.3-29.0]	11.7 [10.6-13.1] ~	24.2 [19.3-29.8]	12.6 [11.4-13.9]*	24.9 [19.4-31.5]	15.2 [13.6-16.9]*
Cesarean Section Delivery	43.7 [34.2-53.1]	27.9 [25.3-30.5] *	32.7 [27.2-38.8]	28.1 [26.3-29.9]ns	40.3 [34.5-46.4]	30.4 [28.6-32.3]*	39.2 [32.5-46.3]	29.8 [27.8-32.0]*

^ p < 0.05   * p < 0.01   ns = not significant

Source: 2016-2019 Ohio Pregnancy Assessment Survey.

Note:
[1]NICU status was not assessed after 2016 as this question was removed from the 2017-2019 iterations of the Ohio Pregnancy Assessment Survey.

OPAS 2016 - 2019 Question (and consistent with PRAMS Phase 7) determined GDM from the following question: "During your most recent pregnancy, did you have any of the following health conditions? a) Gestational diabetes (diabetes that started during this pregnancy)."

This table was previously labeled Table 8a in the 2019 Gestational Diabetes in Ohio Data Book.

Historic data can be found in Appendix C.

Gestational Diabetes in Ohio, 2008-2019

Tables 7b also shows prevalence of delivery-related maternal and infant outcomes that may be associated with a GDM pregnancy using Vital Statistics data. In all time periods where measured, infants born to women with GDM more frequently were admitted to the neonatal intensive care unit (NICU), and delivered by C-Section than babies born to women without GDM.

Table 7b. Prevalence of delivery complications, by GDM status, Ohio, 2012 – 2019. Source: Vital Statistics

	2012-14		2015-17		2018-19	
	% GDM [95% CI]	% W/out GDM [95% CI]	% GDM [95% CI]	% W/out GDM [95% CI]	% GDM [95% CI]	% W/out GDM [95% CI]
Preterm						
Preterm	14.4 [14.0-14.8]	10.0 [9.9-10.1]	14.1 [13.8-14.6.]	10.1 [9.9.0-10.2]	13.9 [13.5-14.4]	10.0 [9.9-10.1]
NICU Admission						
Yes	12.1 [11.7-12.5]	8.0 [7.9-8.1]	13.5 [13.2-13.9]	8.8 [8.7-8.9]	9.3 [9.2-9.4]	8.0 [7.9-8.1]
C-section						
Yes	44.0 [43.4-44.6]	29.9 [29.8-30.1]	43.1 [42.6-43.7]	29.5 [29.3-29.6]	42.3 [41.6-43.9]	29.9 [29.8-30.1]
Apgar Group						
0-4	1.1 [0.9-1.2]	1.1 [1.1-1.2]	1.0 [1.0-1.0]	0.8 [0.7-0.9]	0.9 [0.9-0.9]	1.1 [1.1-1.2]
5-6	1.5 [1.4-1.6]	1.3 [1.2-1.3]	1.3 [1.2-1.3]	1.6 [1.4-1.8]	1.2 [1.2-1.3]	1.3 [1.2-1.3]
7-10	97.3 [97.1-97.5]	97.3 [97.3-97.4]	97.6 [97.5-97.6]	97.5 [97.2-97.7]	97.7 [97.1-97.8]	97.3 [97.3-97.4]

Source: Vital Statistics; Resident File was used.

Note:

This table was previously labeled Table 8b in the 2019 Gestational Diabetes in Ohio Data Book.

Historic data can be found in Appendix C.