

TABLE 3. Pregnancy Outcomes, Singleton Births, Active Component U.S. Service Women 2021–2023

Demographics	Gestational Diabetes			Pre-Eclampsia			Eclampsia			Premature Rupture of Membrane		
	No.	%	p-value	No.	%	p-value	No.	%	p-value	No.	%	p-value
Total	3,259	8.3		3,230	8.2		53	0.13		5,895	15.0	
COVID-19 infection during pregnancy												
Yes	418	8.1	0.5597	424	8.2	0.9152	13	0.25	0.0146	808	15.6	0.2016
No	2,841	8.3		2,806	8.2		40	0.12		5,087	14.89	
COVID-19 infection prior to start of pregnancy												
Yes	540	8.4	0.8917	554	8.5	0.2927	8	0.12	0.7836	1,036	16.0	0.0153
No	2,719	8.3		2,676	8.1		45	0.14		4,859	14.8	
COVID-19 vaccination during pregnancy												
Yes	810	8.8	0.0589	742	8.0	0.4296	11	0.12	0.6328	1,384	14.9	0.9070
No	2,449	8.2		2,488	8.3		42	0.14		4,511	15.0	
COVID-19 vaccination prior to start of pregnancy												
Yes	1,845	8.4	0.4441	1,798	8.2	0.6514	29	0.13	0.8456	3,405	15.4	0.0040
No	1,414	8.2		1,432	8.3		24	0.14		2,490	14.4	
Age, y												
<20	20	3.1	<.0001	62	9.5	<.0001	3	0.46	0.0547	128	19.5	<.0001
20–24	796	5.8		1,318	9.5		20	0.14		2,146	15.5	
25–29	971	8.1		951	7.9		14	0.12		1,875	15.5	
30–34	845	10.3		553	6.7		6	0.07		1,197	14.5	
35–39	530	13.8		277	7.2		8	0.21		484	12.5	
40+	97	15.3		69	10.7		2	0.31		65	10.1	
Race and ethnicity												
White, non-Hispanic	1,205	7.4	<.0001	1,290	7.9	<.0001	22	0.13	0.0278	2,310	14.1	<.0001
Black, non-Hispanic	658	7.4		869	9.7		20	0.22		1,297	14.5	
Hispanic	769	8.8		661	7.5		7	0.08		1,446	16.5	
Other	561	12.5		353	7.8		2	0.04		748	16.6	
Unknown	66	8.7		57	7.5		2	0.26		94	12.4	
Service branch												
Army	1,082	8.0	<.0001	1,140	8.4	0.0005	29	0.21	0.0058	2,252	16.6	<.0001
Navy	1,059	9.5		992	8.9		5	0.04		1,548	13.8	
Air Force, Space Force	889	8.1		850	7.7		16	0.15		1,572	14.3	
Marine Corps	151	5.5		191	6.9		3	0.11		392	14.1	
Coast Guard	78	9.2		57	6.7		0	0.00		131	15.4	
Comorbidities prior to pregnancy start date												
Cardiovascular disease												
Yes	192	9.1	0.1730	237	11.0	<.0001	4	0.19	0.5004	261	12.2	0.0002
No	3,067	8.3		2,993	8.0		49	0.13		5,634	15.1	
Chronic lower respiratory disease												
Yes	34	10.9	0.1006	25	7.9	0.8216	1	0.31	0.3800	47	14.8	0.9204
No	3,225	8.3		3,205	8.2		52	0.13		5,848	15.0	
Asthma												
Yes	89	9.9	0.0868	85	9.3	0.2076	1	0.11	0.8366	119	13.1	0.1038
No	3,170	8.3		3,145	8.2		52	0.14		5,776	15.0	
Lung disease												
Yes	162	10.1	0.0083	146	9.0	0.2311	3	0.19	0.5720	217	13.4	0.0666
No	3,097	8.2		3,084	8.2		50	0.13		5,678	15.1	
Metabolic disease												
Yes	490	11.6	<.0001	374	8.6	0.3444	8	0.18	0.3513	583	13.4	0.0016
No	2,769	7.9		2,856	8.2		45	0.13		5,312	15.2	
Immune compromising conditions												
Yes	333	7.6	0.0694	355	8.0	0.6721	7	0.16	0.6457	583	13.2	0.0005
No	2,926	8.4		2,875	8.2		46	0.13		5,312	15.2	
Substance use disorders (including nicotine dependence)												
Yes	196	9.7	0.0192	197	9.7	0.0105	2	0.10	0.6510	330	16.3	0.0881
No	3,063	8.2		3,033	8.1		51	0.14		5,565	14.9	
Chronic liver disease												
Yes	23	10.9	0.1719	15	6.9	0.4859	1	0.46	0.1889	33	15.2	0.9247
No	3,236	8.3		3,215	8.2		52	0.13		5,862	15.0	
Chronic kidney disease												
Yes	93	9.4	0.2307	89	8.9	0.4363	4	0.40	0.0209	145	14.5	0.6386
No	3,166	8.3		3,141	8.2		49	0.13		5,750	15.0	
Chronic neurological disorders												
Yes	37	11.6	0.0311	32	10.1	0.2261	1	0.31	0.3800	47	14.8	0.9204
No	3,222	8.3		3,198	8.2		52	0.13		5,848	15.0	
Neoplasms												
Yes	334	9.0	0.1347	299	8.0	0.5866	4	0.11	0.6234	494	13.2	0.0012
No	2,925	8.2		2,931	8.2		49	0.14		5,401	15.2	
Obesity												
Yes	625	13.7	<.0001	448	9.7	<.0001	7	0.15	0.7365	641	13.9	0.0282
No	2,634	7.6		2,782	8.0		46	0.13		5,254	15.1	
Tuberculosis												
Yes	3	16.7	0.1990	2	10.5	0.7126	0	0.00	0.8728	3	15.8	0.9211
No	3,256	8.3		3,228	8.2		53	0.13		5,892	15.0	
Mood disorders, depression, schizophrenia												
Yes	394	10.2	<.0001	353	9.1	0.0384	10	0.26	0.0284	545	14.0	0.0734
No	2,865	8.1		2,877	8.1		43	0.12		5,350	15.1	
Tobacco use (reported on PHA)												
Yes	446	9.5	0.0021	450	9.5	0.0005	8	0.17	0.4896	735	15.6	0.2418
No	2,813	8.2		2,780	8.0		45	0.13		5,160	14.9	
Prior deliveries, <i>n</i>												
0	2,120	7.8	<.0001	2,631	9.7	<.0001	39	0.14	0.0076	4,560	16.8	<.0001
1	802	9.0		430	4.8		5	0.06		1,014	11.2	
2+	337	10.8		169	5.4		9	0.29		321	10.2	

Note: These findings not adjusted for any potential confounders.

Abbreviations: No., number; COVID-19, coronavirus disease 2019; y, years; PHA, Periodic Health Assessment; *n*, number.