

Supplementary Material

Article Title: Incidence and Risk Factors for Suicide Attempt During Pregnancy and the Postpartum Period

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DOI Number: 10.4088/JCP.24m15633

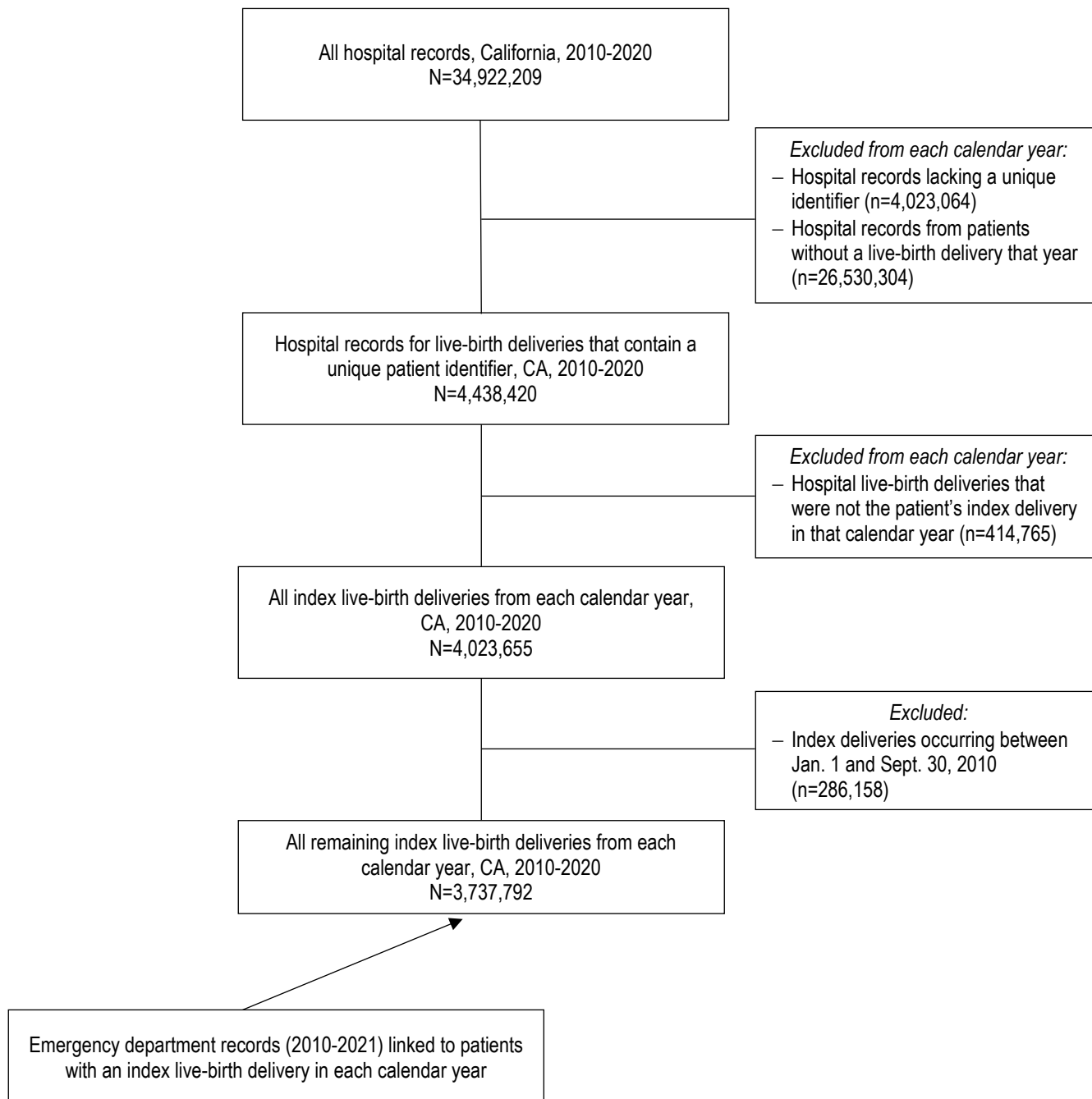
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Supplementary Figure 1. Flowchart for study analytic sample selection.



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Supplementary Table 1. Characteristics of California people with hospital deliveries of live infants in each calendar-year cohort.											
	2010^a	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total number (n)	97,300	381,174	381,630	374,702	378,980	375,223	372,559	359,321	348,032	342,286	326,585
Age group (%)											
10-17 years	2.4	2.1	1.8	1.5	1.3	1.1	1.0	0.8	0.7	0.7	0.6
18-24 years	26.5	25.8	25.4	24.8	23.7	22.5	21.3	20.3	18.9	17.9	17.1
25-29 years	26.4	26.4	26.2	26.1	26.3	26.5	26.9	26.9	26.9	26.8	26.4
30-34 years	25.8	26.7	27.4	28.2	28.9	29.4	29.9	30.0	30.5	30.9	31.7
35-54 years	18.8	18.9	19.2	19.4	19.8	20.4	21.0	22.0	23.1	23.7	24.3
Race and ethnicity (%)											
NH Asian/PI	12.6	12.6	13.3	12.6	13.3	13.1	13.7	13.5	13.7	13.6	13.3
NH Black	7.1	7.0	6.9	6.9	6.7	6.4	6.5	6.5	6.4	6.3	6.2
Hispanic	38.2	38.7	39.0	39.5	39.8	40.6	41.0	41.6	41.9	42.1	43.3
Other/multiple	4.4	4.7	4.8	4.9	4.8	4.9	4.8	4.8	5.0	6.0	6.1
NH White	37.7	37.0	36.0	36.1	35.6	35.0	34.1	33.5	33.2	32.1	31.8
Payer (%)											
Private	56.3	56.3	56.1	55.4	55.4	55.3	54.9	55.3	56.1	56.7	57.1
Medicaid	40.2	40.1	40.0	40.7	40.5	41.1	41.6	41.6	40.8	40.0	39.7
Other/self-pay	3.5	3.7	3.9	3.9	4.0	3.6	3.3	3.1	3.1	3.3	3.3
Zip code urbanicity (%)											
Metropolitan	94.3	94.3	94.4	94.3	94.4	94.3	94.4	94.4	94.2	94.3	94.3
Micropolitan	4.1	4.1	4.1	4.1	3.9	4.0	4.0	4.0	4.1	4.0	4.1
Rural/small town	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.7	1.7	1.7

^a To prevent left-censoring of pregnancy data for people delivering in the first nine months of 2010, the 2010 cohort was restricted to people with index deliveries in October through December.

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Supplementary Table 2. Definitions of risk factor variables.

Risk factor	ICD-9-CM codes	ICD-10-CM codes
<i>Assessed during pregnancy</i>		
Number of ED visits	ED for any condition visits included; categorized as 0, 1, 2, or ≥3.	ED for any condition visits included; categorized as 0, 1, 2, or ≥3.
Any psychiatric ED visit ^a	Visit has a diagnosis code within the first 3 coding positions of: 291.0-294.9, 295-299.9, 300-309.9, V62.84. Visits with any DSH code excluded.	Visit has a primary diagnosis code of: F20-F25, F28-F34, F39-F45, F48, R45.851. Visits with any DSH code excluded.
Any suicide attempt ED visit ^a	Visit has a diagnosis code in any coding position of: E950-E958.9.	Visit has a diagnosis code in any coding position of: X71-X83 or T71.11, T71.12, T71.13, T71.15, T71.16, T71.19, T71.22, T71.23, or T36-T50, with fifth/sixth character 2 and seventh character A.
Any assault ED visit	Visit has a diagnosis code in any coding position of: E960-E969; 995.81-995.85.	Visit has a diagnosis code in any coding position of: X92-X99; Y00-Y09; T74.01xA-T74.02xA; T74.11xA-T74.12xA; T74.21xA-T74.22xA; T74.91xA-T74.92xA; T76.01xA-T76.02xA; T76.11xA-T76.12xA; T76.21xA-T76.22xA; T76.91xA-T76.92xA.
Any chronic condition ED visit	Visit has a primary diagnosis code of: 140-209, 250, 410-414, 490-492, 494, 496, 32.3, 32.4, 36.82, 53.12, 53.13, 56.71, 88.81, 98.12, 98.32, 131.03, 250.60, 250.61, 250.62, 274, 282.41, 282.42, 282.5, 282.6, 307.81, 307.89, 33.94, 337, 338, 339, 346, 350, 352.1, 353, 354, 355, 356.4, 356.8, 356.9, 357.2, 377.33, 377.34, 377.39, 377.41, 379.91, 411.1, 413, 524.6, 526.89, 526.9, 550, 552, 553, 564.1, 574, 592, 594, 595.1, 614.3, 614.4, 614.5, 614.7, 614.8, 614.9, 615, 616.0, 617, 625, 710-716.99, 717.7, 717.8, 718.0, 718.3, 719.4, 719.5, 718.88, 719, 719.3, 719.4, 720-730.99, 733.6, 733.99, 724, 735-736.9, 738.0-739.9, 755.67, 755.9, 756.1, 780.96, 784.0, 784.92, 786.50, 786.52, 786.59, 789.0, 839.00, 839.21, 839.40	Visit has a primary diagnosis code of: C00-C96, J44, E08-E13.9, 121-125.9, A22.3, A22.4, A18.01, A39.83, A52.16, A54.22, A59.02, A69.20, A69.23, B22.2, B22.3, B68.2, D57.1, D57.20, D57.219, D57.3, D57.40, D57.419, D57.80, D57.819, D86.86, D86.87, E84.2, E10.4, E10.610, D11.4, E11.610, E13.4, F45.42, G25.81, G43, G44, G50, G521, G54, G56, G57, G580, G587, G58.9, G59, G60.2, G60.3, G60.8, G60.9, G61.9, G62.0, G62.89, G62.9, G63, G72.9, G89, G90.09, G90.5, G96.11, G99.0, H46.2-H46.9, H47.0, H57.1, I20.1-I20.9, I77.6, K40, K41, K42.0, K42.9, K43, K44.0, K44.9, K45.0, K45.8, K46.0, K46.9, K58.0-K58.9, K80, L40.53, L97.414, L98.494, M00, M01.X, M02, M05, M06, M07.6, M08, M10, M11.162, M11.2, M11.8, M11.9, M12, M13, M14.6, M14.80, M15-M19.93, M1A, M20-M20.62, M21, M22.01-M22.42, M23.50, M24.1, M24.4, M24.5, M24.6, M25.50-M25.579, M25.7, M26.5, M26.6, M27, M32.10, M32.8, M32.9, M33.2, M33.9, M34.0, M34.1, M34.89, M34.9, M35.2-M35.9, M43, M45, M46.0-M48.38, M48.8X, M48.9, M49.8, M50, M51, M53, M54, M60.8, M62.4, M62.8, M65-M67.99, M70, M71, M72.2, M72.9, M75.0-M77.9, M79.1, M79.2, M79.6-M79.7, M86,

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		M87.9, M89.3, M89.5, M89.8X, M89.9, M90.8, M94.0, M94.1, M94.26, M94.352, M94.8X, M94.9, M95, M96.1, M99, N20-N22, N30.10, N30.11, N71-N73, N80, N94, Q66.89, Q67.5, Q74.9, Q76.0-Q76.419, Q76.49, R07.1, R07.2, R07.8, R07.9, R10.10-R10.13, R10.2, R10.30-R10.33, R10.84, R10.9, R25.2, R51, R52, R68.84, T83.84XA, T83.84XD, T84.84X, T85.84XA, T85.84XD
Any hospitalization	Inpatient admission for any condition.	Inpatient admission for any condition.
<i>Assessed at delivery</i>		
Comorbid mood disorder	Visit has a diagnosis code in any coding position of: 296.0-296.99, 311.	Visit has a diagnosis code in any coding position of: F30-F39.99.
Bipolar disorder	Visit has a diagnosis code in any coding position of: 296.0-296.16 or 296.4-296.89.	Visit has a diagnosis code in any coding position of: F30-F30.9 or F31-F31.9.
Major depressive disorder, single episode	Visit has a diagnosis code in any coding position of: 296.2-296.26.	Visit has a diagnosis code in any coding position of: F32-F32.9.
Major depressive disorder, recurrent episode or persistent	Visit has a diagnosis code in any coding position of: 296.3-296.36.	Visit has a diagnosis code in any coding position of: F33-F33.9 or F34-F34.9.
Comorbid anxiety disorder	Visit has a diagnosis code in any coding position of: 300.0-300.9, 308.0-308.9, 309.0-309.9.	Visit has a diagnosis code in any coding position of: F40-F48.9.
Comorbid psychotic disorder	Visit has a diagnosis code in any coding position of: 295.0-295.95, 297.0-297.9, 298.0-298.9.	Visit has a diagnosis code in any coding position of: F20-F29.99.
Comorbid alcohol use disorder	Visit has a diagnosis code in any coding position of: 291.0-291.9, 303.0-303.93, 305.0-305.03.	Visit has a diagnosis code in any coding position of: F10-F10.99.
Comorbid drug use disorder	Visit has a diagnosis code in any coding position of: 292.0-292.9, 305.3-305.73, 305.9-305.93, 304.0-304.23, 304.4-304.93.	Visit has a diagnosis code in any coding position of: F11-F11.99, F13-F13.99, F14-F16.99, F18-F19.99.
Total number of comorbid psychiatric/substance use disorders	From the above-listed categories: 0, 1, 2, or ≥ 3 .	From the above-listed categories: 0, 1, 2, or ≥ 3 .
^a Psychiatric ED and self-harm ED visits were defined to be mutually exclusive.		

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Supplementary Table 3. Associations between sociodemographic characteristics at index delivery and risk of postpartum suicide attempt in California, 2010-2021.

Characteristic	N (%) with characteristic who had a postpartum suicide attempt	Model 1 ^a Risk Ratio (95% CI)	Model 2 ^b Risk Ratio (95% CI)
Age group			
10-17 years	154 (0.3%)	3.71 (3.13, 4.41)	3.05 (2.56, 3.64)
18-24 years	1,470 (0.2%)	2.00 (1.83, 2.17)	1.70 (1.56, 1.86)
25-29 years	881 (0.1%)	Ref.	Ref.
30-34 years	575 (0.1%)	0.59 (0.54, 0.66)	0.73 (0.65, 0.81)
35-54 years	293 (0.04%)	0.42 (0.37, 0.48)	0.55 (0.48, 0.63)
Race and ethnicity			
NH Asian/PI	188 (0.04%)	0.43 (0.37, 0.50)	0.88 (0.75, 1.03)
NH Black	437 (0.2%)	1.99 (1.78, 2.22)	1.96 (1.76, 2.19)
Hispanic	1,342 (0.1%)	Ref.	Ref.
Other/multiple	163 (0.1%)	0.98 (0.84, 1.16)	1.32 (1.12, 1.55)
NH White	1,243 (0.1%)	1.08 (1.00, 1.17)	1.77 (1.62, 1.93)
Payer			
Private	852 (0.04%)	Ref.	Ref.
Medicaid	2,334 (0.2%)	3.76 (3.48, 4.07)	2.87 (2.61, 3.16)
Other/self-pay	187 (0.1%)	3.44 (2.94, 4.04)	2.80 (2.38, 3.30)
Zip code urbanicity			
Metropolitan	3,049 (0.1%)	Ref.	Ref.
Micropolitan	225 (0.2%)	1.73 (1.51, 1.98)	1.26 (1.09, 1.44)
Rural/small town	84 (0.1%)	1.57 (1.26, 1.96)	1.06 (0.85, 1.32)

^a Model 1 results represent associations between each sociodemographic characteristic and risk of postpartum suicide attempt, controlling for year of index delivery.

^b Model 2 results include all variables in table as well as year of index delivery.