Appendix Table 1. Variables Included in Logistic Regression Models

Variables	Values assigned
Demographics	
Race	
Caucasian	0
American Indian	1
Ethnicity	
Not Hispanic or Latina	no
Hispanic or Latina	yes
Age, years	•
<20	1
20–34	2
>35	3
Marital status	
Single	no
Married or partnered	yes
Education	J
Any primary school	1
Some high school	2
Completed high school	3
Beyond high school	4
Partner education	
Any primary school	1
Some high school	2
Completed high school	3
Beyond high school	4
Reproductive history	
Gravidity	
1	1
2	2
3	3
>3	4
Parity	
0	0
1	1
2	2
>2	3
Fertility treatment	
No	no
Yes	yes
Prenatal care	J
Prenatal care in all trimesters	
No	no
Yes	yes
Mental health	
Anxiety	

No	no
Yes	yes
Depression	
No	no
Yes	yes
SES	-
Health coverage	
Commercial insurance	1
Self-pay	2
Public assistance	3
Government support	
None	0
Prenatal only	1
Postnatal only	2
Both	3
Household monthly income, dollars	
250	1
750	2
1,500	3
>2,500	4
Relocation within a year	
None	0
Once	1
More than once	2

**Appendix Table 2.** The Sample Size of Women by Race Drinking Before, During, and After Pregnancy

Time frame	American Indian, n (%) 2,124 (44)	Caucasian, n (%) 2,753 (56)		
Entire pregnancy				
No	927 (48)	987 (37)		
Yes	1,023 (52)	1,692 (63)		
1 year prior to pregnancy				
No	42 (3)	30 (1)		
Yes	1,610 (97)	2,463 (99)		
LMP				
No	1,252 (60)	1,114 (41)		
Yes	852 (40)	1,633 (59)		
First trimester				
No	1,127 (53)	1,113 (40)		
Yes	996 (47)	1,638 (60)		
Second trimester				
No	1,873 (96)	2,514 (93)		
Yes	71 (4)	193 (7)		
Third trimester				
No	1,696 (99)	2,376 (94)		
Yes	11 (1)	147 (6)		
1 month post-delivery				
No	1,034 (85)	1,404 (61)		
Yes	179 (15)	892 (39)		

**Appendix Table 3.** The Sample Size of Women by Race Binge Drinking During and After Pregnancy

Time frame	American Indian, n (%) 2,124 (44)	Caucasian, n (%) 2,753 (56)		
Entino muo anonovi	2,124 (44)	2,733 (30)		
Entire pregnancy				
No	1,112 (59)	1,886 (72)		
Yes	786 (41)	717 (28)		
LMP				
No	1,443 (69)	2,088 (76)		
Yes	661 (31)	659 (24)		
First trimester				
No	1,359 (64)	2,036 (74)		
Yes	764 (36)	715 (26)		
Second trimester				
No	1,904 (98)	2,706 (100)		
Yes	40 (2)	1 (0)		
Third trimester				
No	1,702 (100)	2,521 (100)		
Yes	5 (0)	2(0)		
1 month post-delivery				
No	1,123 (93)	2,174 (95)		
Yes	90 (7)	122 (5)		

**Appendix Table 4.** Total Drinking Days During and After Pregnancy by Race for Those Who Consumed Alcoholic Beverages

Time frame	American Indian	Caucasian
LMP		
Median	1	2
Mean	3	3
Range	1–31	1–31
First trimester		
Median	1	2
Mean	3	3
Range	1–38	1–42
Second trimester		
Median	1	2
Mean	3	3
Range	1–38	1–42
Third trimester		
Median	1	2
Mean	3	3
Range	1–38	1–42
1 month post-delivery		
Median	1	1
Mean	1	2
Range	1–15	1–31

*Note*: Wilcoxon rank-sum test to test race differences in drinking days: *p*<0.05 at all time frames.

Appendix Table 5. Association of Drinking During and After Pregnancy With Race and Other Maternal Characteristics

Variables <sup>a</sup>		LMP First trimester Second trimester Third trimester		rimester	1 month post-delivery					
	OR	AOR	OR	AOR	OR	AOR	OR	AOR	OR	AOR
	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)
American Indian,	0.46	0.81	0.60	0.85	0.49	0.52	0.10	0.10	0.27	0.30
ref=Caucasian	(0.41, 0.52)	(0.63, 1.05)	(0.54, 0.67)	(0.66, 1.10)	(0.37, 0.65)	(0.28, 0.93)	(0.05, 0.18)	(0.02, 0.30)	(0.23, 0.33)	(0.22, 0.41)
Hispanic, ref=no	0.81	1.35	0.94	1.11	1.26	2.26	0.32	1.24	0.99	2.01
	(0.61, 1.08)	(0.85, 2.13)	(0.71, 1.24)	(0.70, 1.75)	(0.67, 2.16)	(0.91, 4.85)	(0.05, 1.01)	(0.19, 4.36)	(0.65, 1.48)	(1.21, 3.29)
Age	1.23	1.18	1.25	1.44	1.83	2.02	2.82	2.44	1.34	1.18
	(1.08, 1.41)	(0.95, 1.46)	(1.10, 1.43)	(1.16, 1.79)	(1.37, 2.45)	(1.33, 3.04)	(1.96, 4.01)	(1.50, 3.89)	(1.12, 1.60)	(0.93, 1.50)
Married or partnered,	1.30	0.97	0.99	0.98	1.43	1.05	5.49	4.26	1.70	0.99
ref=single	(1.12, 1.52)	(0.72, 1.32)	(0.84, 1.15)	(0.73, 1.33)	(0.99, 2.16)	(0.53, 2.31)	(2.50, 15.53)	(0.88, 76.86)	(1.35, 2.16)	(0.69, 1.44)
Education	1.47	1.11	1.28	1.02	1.45	1.35	2.60	2.36	1.65	0.92
	(1.37, 1.58)	(0.97, 1.26)	(1.19, 1.37)	(0.89, 1.16)	(1.23, 1.74)	(0.97, 1.93)	(1.91, 3.68)	(1.23, 5.28)	(1.48, 1.83)	(0.78, 1.09)
Partner education	1.45	1.03	1.32	0.93	1.39	0.97	2.26	1.17	1.52	0.99
	(1.33, 1.57)	(0.90, 1.18)	(1.21, 1.43)	(0.82, 1.07)	(1.14, 1.71)	(0.72, 1.31)	(1.67, 3.16)	(0.78, 1.83)	(1.35, 1.70)	(0.85, 1.15)
Gravidity	0.80	0.96	0.81	0.97	1.08	1.05	1.05	1.05	0.87	1.06
	(0.76, 0.85)	(0.84, 1.10)	(0.77, 0.85)	(0.85, 1.11)	(0.97, 1.20)	(0.79, 1.36)	(0.92, 1.21)	(0.77, 1.41)	(0.82, 0.93)	(0.92, 1.22)
Parity	0.77	0.84	0.78	0.77	1.02	0.97	1.00	1.01	0.81	0.82
	(0.73, 0.81)	(0.72, 0.97)	(0.74, 0.83)	(0.67, 0.90)	(0.91, 1.14)	(0.72, 1.31)	(0.86, 1.15)	(0.73, 1.43)	(0.76, 0.87)	(0.70, 0.97)
Fertility treatment, ref=no	0.89	0.56	0.64	0.43	0.65	0.55	0.53	0.31	1.07	0.73
	(0.65, 1.22)	(0.40, 0.81)	(0.47, 0.88)	(0.30, 0.61)	(0.25, 1.36)	(0.21, 1.18)	(0.13, 1.41)	(0.07, 0.85)	(0.74, 1.53)	(0.50, 1.05)
Prenatal care, ref=no	1.82	1.04	1.36	0.82	0.85	0.49	3.34	1.01	1.84	0.93
	(1.58, 2.11)	(0.82, 1.31)	(1.18, 1.57)	(0.65, 1.05)	(0.63, 1.17)	(0.31, 0.80)	(1.85, 6.81)	(0.48, 2.49)	(1.48, 2.30)	(0.70, 1.24)
Anxiety, ref=no	0.83	1.07	0.90	0.97	1.29	0.94	0.80	1.07	0.90	1.27
	(0.71, 0.96)	(0.85, 1.35)	(0.78, 1.05)	(0.77, 1.23)	(0.95, 1.74)	(0.56, 1.52)	(0.51, 1.21)	(0.56, 1.92)	(0.74, 1.10)	(0.98, 1.64)
Depression, ref=no	0.80	0.87	0.88	1.00	1.77	1.68	1.00	1.54	0.79	0.84
	(0.66, 0.96)	(0.64, 1.17)	(0.73, 1.07)	(0.74, 1.33)	(1.24, 2.47)	(0.91, 2.99)	(0.58, 1.63)	(0.68, 3.20)	(0.61, 1.02)	(0.59, 1.19)
Health coverage	0.69	0.91	0.78	1.03	0.77	1.05	0.56	0.99	0.67	1.06
	(0.65, 0.74)	(0.78, 1.05)	(0.73, 0.83)	(0.89, 1.20)	(0.68, 0.88)	(0.78, 1.39)	(0.47, 0.67)	(0.70, 1.37)	(0.62, 0.72)	(0.91, 1.23)
Government support	0.77	0.94	0.80	0.83	0.81	0.83	0.67	1.01	0.74	0.94
	(0.73, 0.81)	(0.84, 1.04)	(0.76, 0.84)	(0.75, 0.92)	(0.73, 0.90)	(0.67, 1.03)	(0.58, 0.76)	(0.78, 1.29)	(0.71, 0.78)	(0.84, 1.05)
Household income	1.35	1.16	1.23	1.13	1.19	0.90	1.77	0.90	1.66	1.23
	(1.27, 1.44)	(1.03, 1.31)	(1.15, 1.30)	(1.00, 1.26)	(1.04, 1.38)	(0.68, 1.19)	(1.42, 2.28)	(0.57, 1.46)	(1.51, 1.83)	(1.06, 1.43)
Relocation	0.98	1.10	1.04	1.13	1.00	1.22	0.75	0.98	0.93	1.08
	(0.90, 1.06)	(0.98, 1.23)	(0.96, 1.13)	(1.01, 1.27)	(0.84, 1.18)	(0.95, 1.54)	(0.58, 0.94)	(0.70, 1.34)	(0.84, 1.03)	(0.95, 1.23)

Note: Boldface indicates statistical significance (95% CI not including 1).

<sup>&</sup>lt;sup>a</sup>Values assigned to each variable are in Appendix Table 1.

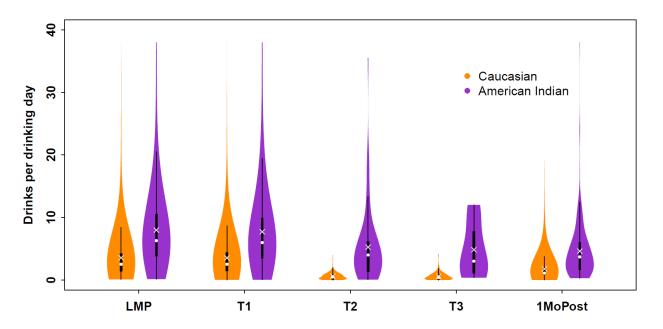
Appendix Table 6. Associations of Binge Drinking During and After Pregnancy With Race and Other Maternal Characteristics

Variables <sup>a</sup>	LN	MP	First tr	imester	1 month post-delivery		
	OR (95% CI)	AOR (95% CI)	OR (95% CI)	AOR (95% CI)	OR (95% CI)	AOR (95% CI)	
American Indian, ref=Caucasian	1.45 (1.28, 1.65)	1.40 (1.05, 1.86)	1.60 (1.42, 1.81)	1.35 (1.03, 1.79)	1.43 (1.08, 1.89)	0.85 (0.53, 1.37)	
Hispanic, ref=no	1.14 (0.84, 1.55)	0.84 (0.49, 1.37)	1.29 (0.95, 1.72)	0.85 (0.51, 1.38)	2.11 (1.11, 3.69)	2.01 (0.97, 3.82)	
Age	0.90 (0.77, 1.04)	1.28 (1.01, 1.63)	0.85 (0.73, 0.98)	1.21 (0.96, 1.53)	0.82 (0.59, 1.15)	1.62 (1.06, 2.47)	
Married or partnered, ref=single	0.61 (0.52, 0.72)	0.76 (0.55, 1.04)	0.55 (0.47, 0.66	0.80 (0.59, 1.09)	0.62 (0.44, 0.90)	0.70 (0.43, 1.17)	
Education	0.89 (0.83, 0.96)	0.96 (0.83, 1.11)	0.83 (0.77, 0.89)	0.96 (0.83, 1.11)	0.73 (0.63, 0.85)	0.71 (0.55, 0.92)	
Partner education	0.86 (0.78, 0.94)	0.96 (0.83, 1.11)	0.85 (0.78, 0.93)	0.92 (0.80, 1.06)	0.66 (0.55, 0.79)	0.81 (0.63, 1.04)	
Gravidity	0.92 (0.87, 0.97)	1.10 (0.95, 1.27)	0.92 (0.87, 0.97)	1.00 (0.86, 1.16)	0.93 (0.82, 1.05)	1.07 (0.80, 1.40)	
Parity	0.91 (0.86, 0.96)	0.76 (0.64, 0.89)	0.92 (0.87, 0.97)	0.83 (0.70, 0.98)	0.91 (0.80, 1.04)	0.73 (0.54, 1.00)	
Fertility treatment, ref=no	0.42 (0.26, 0.65)	0.52 (0.31, 0.82)	0.27 (0.16, 0.43)	0.34 (0.19, 0.56)	0.21 (0.03, 0.67)	0.31 (0.05, 1.02)	
Prenatal care, ref=no	1.00 (0.85, 1.17)	1.12 (0.86, 1.46)	0.86 (0.74, 1.00)	0.96 (0.75, 1.24)	0.89 (0.62, 1.31)	1.15 (0.73, 1.88)	
Anxiety, ref=no	1.34 (1.14, 1.58)	1.27 (0.99, 1.62)	1.41 (1.20, 1.65)	1.12 (0.87, 1.43)	1.76 (1.26, 2.44)	1.39 (0.90, 2.10)	
Depression, ref=no	1.32 (1.07, 1.61)	0.94 (0.68, 1.29)	1.30 (1.07, 1.59)	1.02 (0.75, 1.39)	1.58 (1.02, 2.36)	0.88 (0.49, 1.51)	
Health coverage	1.19 (1.11, 1.27)	1.06 (0.90, 1.25)	1.24 (1.16, 1.33)	1.11 (0.94, 1.30)	1.47 (1.27, 1.71)	1.45 (1.07, 1.93)	
Government support	1.11 (1.06, 1.17)	0.98 (0.87, 1.10)	1.12 (1.07, 1.18)	0.93 (0.83, 1.05)	1.23 (1.12, 1.36)	0.93 (0.75, 1.16)	
Household income	0.86 (0.81, 0.92)	1.08 (0.95, 1.23)	0.84 (0.79, 0.89)	1.08 (0.95, 1.22)	0.87 (0.76, 1.01)	1.22 (0.98, 1.52)	
Relocation	1.29 (1.18, 1.41)	1.10 (0.97, 1.24)	1.32 (1.21, 1.43)	1.11 (0.98, 1.25)	1.50 (1.25, 1.79)	1.17 (0.94, 1.46)	

Note: Boldface indicates statistical significance (95% CI not including 1.

<sup>&</sup>lt;sup>a</sup>Values assigned to each variable are in Appendix Table 1.

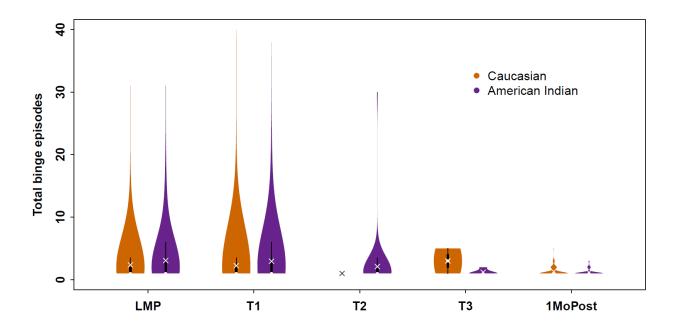
**Appendix Figure 1.** The number of drinks per drinking day during and after pregnancy by race.



*Notes*: The number of drinks per drinking day was calculated for those who consumed alcoholic beverages at each time frame. The value was truncated at 38. Significant differences in the amount of alcohol were found between American Indian and Caucasian mothers at all time frames (*p*<0.05, Wilcoxon rank-sum test). Median: white dot; mean: white cross sign; IQR: thick black bar; 95% CI: thin black bar.

LMP, last menstrual period; T1, first trimester; T2, second trimester; T3, third trimester, 1MoPost, 1 month post-delivery.

**Appendix Figure 2.** Frequency of binge drinking during and after pregnancy by race.



*Notes*: The number of total binge episodes was calculated for those who were binge drinkers at each time frame. Significant differences in the number of episodes were found between American Indian and Caucasian mothers 15 days before and after LMP and in the first trimester (p<0.05, Wilcoxon rank-sum test). Median: white dot; mean: white cross sign; IQR: thick black bar; 95% CI: thin black bar. Only one Caucasian mother binged in the second trimester, represented by a black cross sign.

LMP, last menstrual period; T1, first trimester; T2, second trimester; T3, third trimester, 1MoPost, 1 month post-delivery.