

Appendix 1. Association Between the Year of Delivery, Women's Individual Characteristics, Maternity Unit Status and Volume and Augmentation of Labor Indicators in the Overall Study Population, Bivariate Analysis

Characteristics	Oxytocin administration				AROM [†]				Oxytocin and AROM [†]				Cesarean			
	n (%)	cOR	[95% CI]	P	n (%)	cOR	[95% CI]	P	n (%)	cOR	[95% CI]	P	n (%)	cOR	[95% CI]	P
Study year																
2010	5165 (58.3)	Ref		<.01	4662 (52.4)	Ref		<.01	3001 (34.1)	Ref		<.01	619 (6.9)	Ref		.54
2016	3380 (45.2)	0.59	[0.55-0.63]		3122 (42.6)	0.67	[0.63-0.72]		1633 (22.4)	0.56	[0.52-0.60]		498 (6.6)	0.96	[0.85-1.09]	
Age, years																
<25	1503 (59.3)	1.36	[1.24-1.48]		1315 (52.0)	1.18	[1.08-1.29]		860 (34.3)	1.32	[1.20-1.44]		185 (7.2)	1.08	[0.92-1.28]	
[25-35[	5617 (51.8)	Ref		<.01	5158 (47.8)	Ref		<.01	3041 (28.4)	Ref		<.01	735 (6.7)	Ref		.58
≥35	1425 (48.3)	1.07	[1.03-1.12]		1311 (44.7)	0.88	[0.81-0.96]		733 (25.2)	0.85	[0.77-0.93]		197 (6.6)	0.98	[0.83-1.15]	
BMI, kg/m²																
≤18.5	675 (50.6)	0.89	[0.78-1.01]		659 (49.4)	1.05	[0.92-1.20]		383 (29.1)	0.97	[0.84-1.12]		58 (4.3)	0.47	[0.35-0.63]	
18.5-25	5365 (51.9)	0.94	[0.92-1.16]		4879 (47.4)	0.97	[0.89-1.06]		2881 (28.2)	0.93	[0.85-1.02]		638 (6.1)	0.68	[0.58-0.80]	
25-30	1469 (53.5)	Ref		.06	1308 (48.1)	Ref		.28	802 (29.7)	Ref		.22	241 (8.7)	Ref		<.01
>30	1036 (54.4)	1.03	[1.07-1.24]		938 (49.4)	1.05	[0.94-1.18]		1886 (30.1)	1.02	[0.90-1.16]		180 (9.1)	1.05	[0.86-1.29]	
Parity																
Nulliparous	4626 (67.5)	Ref		<.01	3250 (47.7)	Ref		.60	2366 (35.0)	Ref		<.01	726 (10.5)	Ref		<.01
Parous with previous cesarean	570 (52.1)	0.52	[0.46-0.60]		538 (49.3)	1.20	[1.05-1.37]		304 (28.1)	0.73	[0.63-0.84]		233 (21.0)	2.28	[1.93-2.68]	
Parous without previous cesarean	3267 (39.7)	0.32	[0.30-0.34]		3916 (47.9)	1.27	[1.18-1.36]		1923 (23.7)	0.58	[0.54-0.62]		149 (1.8)	0.17	[0.13-0.19]	
Gestational age, WG																
[37-38 ⁺⁶]	1638 (49.1)	Ref		<.01	1339 (40.3)	Ref		<.01	741 (22.5)	Ref		<.01	168 (5.0)	Ref		<.01
[39-40 ⁺⁶]	5450 (52.2)	1.13	[1.04-1.22]		5043 (48.6)	1.41	[1.30-1.53]		2992 (29.0)	1.41	[1.29-1.55]		704 (6.7)	1.36	[1.07-1.62]	
≥41	1457 (57.1)	1.37	[1.24-1.53]		1402 (55.2)	1.82	[1.64-2.03]		901 (35.8)	1.93	[1.72-2.16]		245 (9.5)	2.00	[1.63-2.45]	
Epidural analgesia	8049 (63.0)	10.5	[9.52-11.66]	<.01	6566 (51.7)	2.04	[1.89-2.20]	<.01	4374 (34.7)	6.61	[5.79-7.53]	<.01	1065 (8.2)	6.18	[4.67-8.18]	<.01
Maternity status																
Public teaching hospital	1416 (49.7)	Ref		<.01	1231 (43.6)	Ref		<.01	708 (25.2)	Ref		<.01	215 (7.5)	Ref		<.01
Public hospital	4533 (48.2)	0.94	[0.87-1.02]		4479 (47.8)	1.19	[1.09-1.29]		2475 (26.6)	1.08	[0.98-1.19]		592 (6.2)	0.83	[0.70-0.97]	
Private hospital	2596 (63.7)	1.71	[1.62-1.96]		2074 (51.2)	1.36	[1.23-1.50]		1451 (36.2)	1.68	[1.51-1.87]		310 (7.4)	1.00	[0.83-1.19]	
Maternity unit volume																
<1000	1491 (50.0)	Ref		<.01	1421 (47.7)	Ref		<.01	802 (27.2)	Ref		<.01	200 (6.6)	Ref		.15
[1000-2000[	2958 (54.0)	1.18	[1.08-1.28]		2704 (49.6)	1.08	[0.99-1.18]		1633 (30.2)	1.16	[1.05-1.28]		371 (6.7)	1.01	[0.85-1.21]	
[2000-3000[	2354 (55.8)	1.26	[1.15-1.39]		2049 (48.8)	1.04	[0.95-1.15]		1305 (31.4)	1.22	[1.10-1.36]		318 (7.4)	1.13	[0.94-1.36]	
≥3000	1742 (47.7)	0.91	[0.83-1.00]		1610 (44.7)	0.89	[0.80-0.97]		894 (24.9)	0.89	[0.80-0.99]		228 (6.1)	0.92	[0.76-1.12]	

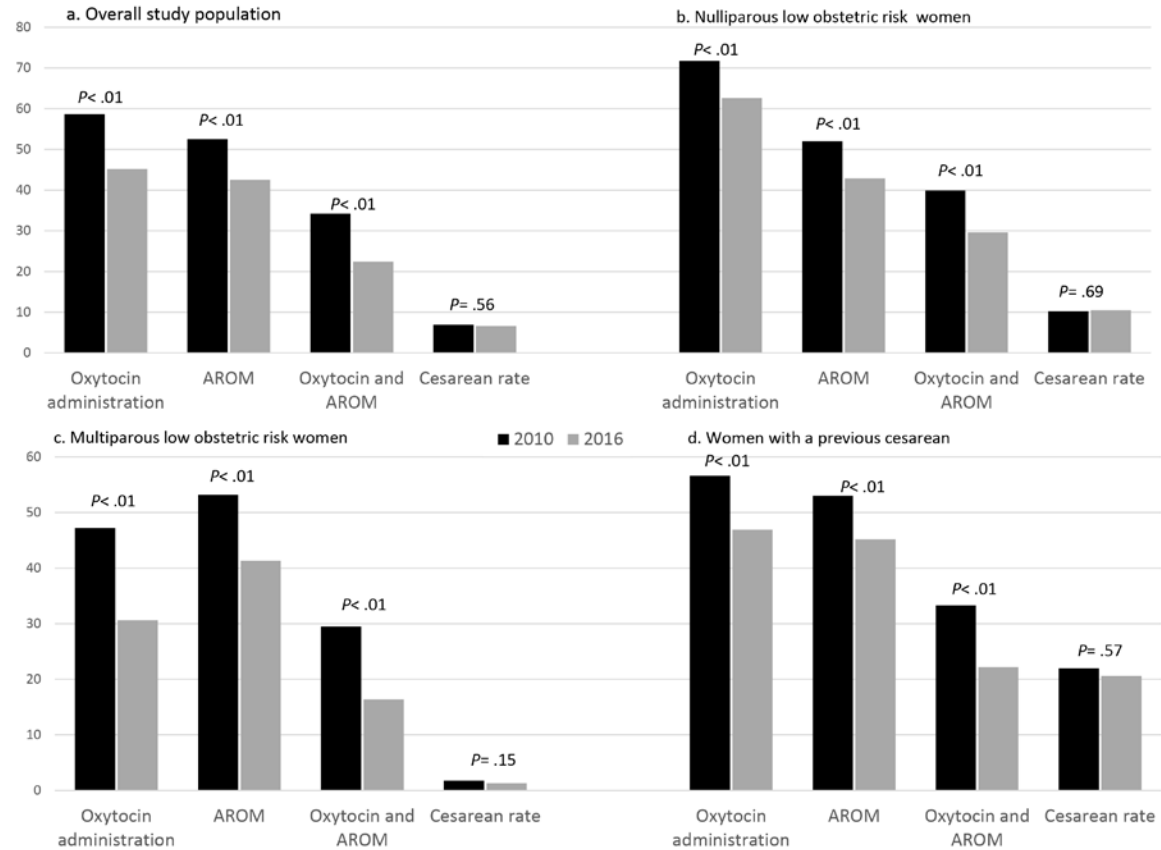
[†]AROM: Artificial Rupture Of the Membranes

Girault A, Bonnet C, Goffinet F, Blondel B, Le Ray C. Reduction in oxytocin and artificial rupture of the membranes: use and consequences on the cesarean delivery rate at a national level. *Obstet Gynecol* 2020;135.

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Appendix 2. Crude changes in augmentation of labor indicators and cesarean rates in 2010 and 2016 in: a) the overall study population, b) nulliparous low obstetric risk women, c) multiparous low obstetric risk women, d) women with a previous cesarean.

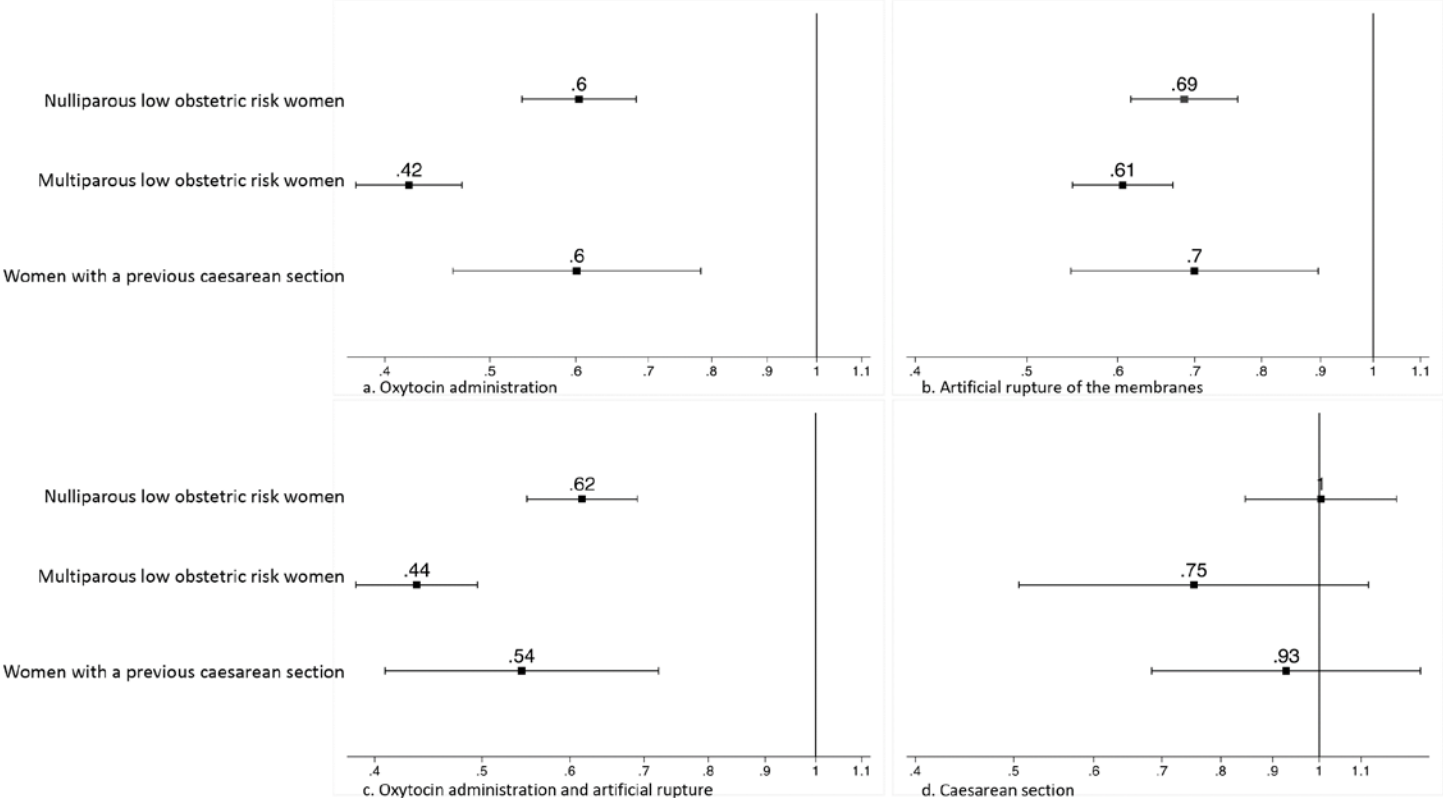


Girault A, Bonnet C, Goffinet F, Blondel B, Le Ray C. Reduction in oxytocin and artificial rupture of the membranes: use and consequences on the cesarean delivery rate at a national level. *Obstet Gynecol* 2020;135.

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Appendix 3. Adjusted Odds-ratio plot showing the association of the year of delivery and the rates of augmentation of labor indicators (a, b, c) and intrapartum cesarean deliveries (d) in the subgroups in 2016 compared to 2010- Three multivariate models.



Girault A, Bonnet C, Goffinet F, Blondel B, Le Ray C. Reduction in oxytocin and artificial rupture of the membranes: use and consequences on the cesarean delivery rate at a national level. *Obstet Gynecol* 2020;135.

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