

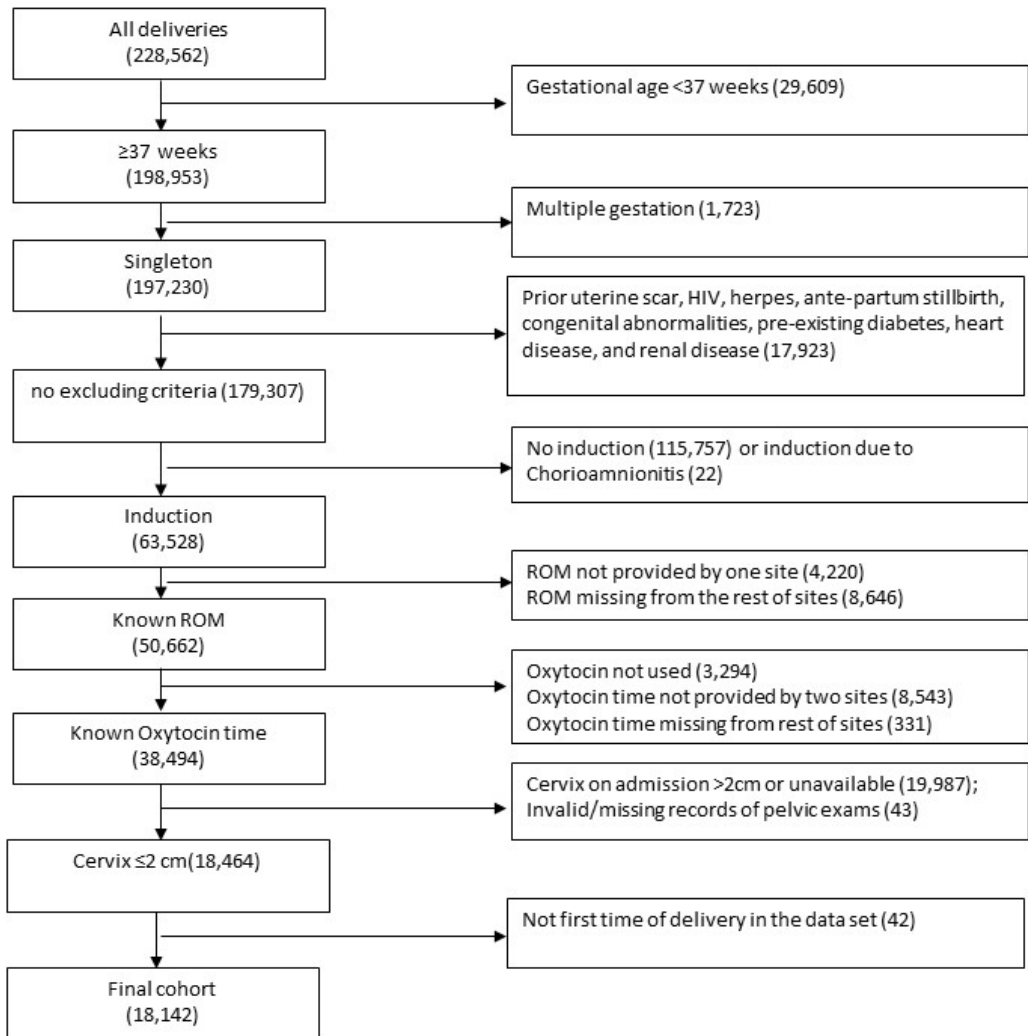
## **Appendix 1. Acknowledgment**

Institutions involved in the Consortium include, in alphabetical order: Baystate Medical Center, Springfield, MA; Cedars-Sinai Medical Center Burnes Allen Research Center, Los Angeles, CA; Christiana Care Health System, Newark, DE; Georgetown University Hospital , MedStar Health, Washington, DC; Indiana University Clarian Health, Indianapolis, IN; Intermountain Healthcare and the University of Utah, Salt Lake City, Utah; Maimonides Medical Center, Brooklyn, NY; MetroHealth Medical Center, Cleveland, OH.; Summa Health System, Akron City Hospital, Akron, OH; The EMMES Corporation, Rockville MD (Data Coordinating Center); University of Illinois at Chicago, Chicago, IL; University of Miami, Miami, FL; and University of Texas Health Science Center at Houston, Houston, Texas.

Kawakita T, Reddy UM, Iqbal SN, Landy HJ, Huang C-C, Hoffman M, et al. Duration of oxytocin and rupture of the membranes before diagnosing a failed induction of labor. *Obstet Gynecol* 2016; 128.

The authors provided this information as a supplement to their article.

**Appendix 2.**



Kawakita T, Reddy UM, Iqbal SN, Landy HJ, Huang C-C, Hoffman M, et al. Duration of oxytocin and rupture of the membranes before diagnosing a failed induction of labor. *Obstet Gynecol* 2016; 128.

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**Appendix 3. Rates of Maternal Outcomes and Neonatal Outcomes by Duration of Oxytocin and Rupture of Membranes in Nulliparous Women**

Duration of oxytocin and ROM	Chorioamnionitis	Endometritis	Postpartum hemorrhage	NICU	Mechanical ventilation	Neonatal sepsis
At 6 hours						
Latent phase (n=3,506)	234 (6.7)	76 (2.2)	180 (5.1)	222 (6.3)	38 (1.1)	37 (1.1)
Active phase or delivered (n=6,257)	214 (3.4)	62 (1.0)	219 (3.5)	407 (6.5)	47 (0.8)	79 (1.3)
P-value	<.001	<.001	<.001	.76	.11	.38
Adjusted P-value	<.001	<.001	<.001	.66	.11	.98
At 9 hours						
Latent phase (n=1,564)	136 (8.7)	46 (2.9)	96 (6.1)	104 (6.7)	17 (1.1)	22 (1.4)
Active phase or delivered (n=8,199)	312 (3.8)	92 (1.1)	303 (3.7)	525 (6.4)	68 (0.8)	94 (1.2)
P-value	<.001	<.001	<.001	.69	.30	.37
Adjusted P-value	<.001	<.001	<.001	.49	.42	.22
At 12 hours						
Latent phase (n=636)	77 (12.1)	23 (3.6)	33 (5.2)	55 (8.7)	7 (1.1)	12 (1.9)
Active phase or delivered (n=9,127)	371 (4.1)	115 (1.3)	366 (4.0)	574 (6.3)	78 (0.9)	104 (1.1)
P-value	<.001	<.001	.15	.02	.50	.13
Adjusted P-value	<.001	<.001	.16	.01	.70	.07

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At 15 hours

Latent phase (n=277)	36 (13.0)	12 (4.3)	18 (6.5)	29 (10.5)	3 (1.1)	5 (1.8)
Active phase or delivered (n=9,486)	412 (4.3)	126 (1.3)	381 (4.0)	600 (6.3)	82 (0.9)	111 (1.2)
P-value	<.001	<.001	.05	<.01	.74	.39
Adjusted P-value	<.001	<.01	.04	<.01	.85	.29

At 18 hours

Latent phase (n=137)	14 (10.2)	4 (2.9)	4 (2.9)	15 (11.0)	3 (2.2)	3 (2.2)
Active phase or delivered (n=9,626)	438 (4.5)	134 (1.4)	395 (4.1)	614 (6.4)	82 (0.9)	113 (1.2)
P-value	<.01	.13	.66	.05	.12	.22
Adjusted P-value	<.01	.31	.50	.02	.16	.28

Abbreviations: ROM (rupture of membranes), NICU (neonatal intensive care unit)

Number shown as n (%). Percentages represent eventual outcomes.

Latent phase was defined as cervical exam less than 6 cm dilation.

Active phase was defined as a last cervical examination of greater than or equal to 6 cm dilation.

Adjusted P-value, controlled for age, race/ethnicity, BMI, insurance, region, hypertensive disease, and gestational diabetes.

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**Appendix 4. Rates of Maternal Outcomes and Neonatal Outcomes by Duration of Oxytocin and Rupture of Membranes in Multiparous Women**

Duration of oxytocin and ROM	Chorioamnionitis	Endometritis	Postpartum hemorrhage	NICU	Mechanical ventilation	Neonatal sepsis
At 6 hours						
Latent phase (n=1,380)	24 (1.7)	5 (0.4)	57 (4.1)	68 (4.9)	4 (0.3)	8 (0.6)
Active phase or delivered (n=6,999)	43 (0.6)	20 (0.3)	211 (3.0)	270 (3.9)	38 (0.5)	31 (0.4)
P-value	<.001	.59	.04	.07	.30	.51
Adjusted P-value	<.001	.82	.04	.08	.16	.34
At 9 hours						
Latent phase (n=377)	15 (4.0)	2 (0.5)	18 (4.8)	20 (5.3)	1 (0.3)	3 (0.8)
Active phase or delivered (n=8,002)	52 (0.7)	23 (0.3)	250 (3.1)	318 (4.0)	41 (0.5)	36 (0.5)
P-value	<.001	.31	.10	.23	1.00	.26
Adjusted P-value	<.001	.66	.10	.36	.41	.32
At 12 hours						
Latent phase (n=123)	6 (4.9)	1 (0.8)	12 (9.8)	8 (6.5)	0(0)	1 (0.8)
Active phase or delivered (n=8,256)	61 (0.7)	24 (0.3)	256 (3.1)	330 (4.0)	42 (0.5)	38 (0.5)
P-value	<.001	.31	<.001	.16	1.00	.44
Adjusted P-value	<.001	.56	<.001	.35	NA	.61
At 15 hours						

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Latent phase (n=54)	6 (11.1)	1 (1.9)	8 (14.8)	5 (9.3)	0 (0)	1 (1.9)
Active phase or delivered (n=8,325)	61 (0.7)	24 (0.3)	260 (3.1)	333 (4.0)	42(0.5)	38 (0.5)
P-value	<.001	.15	<.001	.07	1.00	.22
Adjusted P-value	<.001	.20	<.001	.17	NA	.21
At 18 hours						
Latent phase (n=28)	4 (14.3)	0 (0)	2 (7.1)	3 (10.7)	0 (0)	1 (3.6)
Active phase or delivered (n=8,351)	63 (0.8)	25 (0.3)	266 (3.2)	335 (4.0)	42 (0.50)	38 (0.5)
P-value	<.001	1.00	.23	.10	1.00	.12
Adjusted P-value	<.001	NA	.27	.23	NA	.07

Abbreviations: ROM (rupture of membranes), NICU (neonatal intensive care unit), NA (not available)

Number shown as n (%). Percentages represent eventual outcomes.

Latent phase was defined as cervical exam less than 6 cm dilation.

Active phase was defined as a last cervical examination of greater than or equal to 6 cm dilation.

Adjusted P-value, controlled for age, race/ethnicity, BMI, insurance, region, hypertensive disease, and gestational diabetes

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