

Appendix 4. Trend Analysis of the Incidence of the Primary Outcome and Intervention Rates Over the Course of the Study, for the Whole Study Population

	1st semester (n=1350)	2nd semester (n=1633)	3rd semester (n=1469)	4th semester (n=1122)	5th semester (n=1001)	6th semester (n=1155)	p*
	%	%	%	%	%	%	
Metabolic acidosis	0.5	0.5	0.7	0.3	0.4	0.6	0.693
IVD for NRFS	14	13	11	11	12	10	0.014
Cesarean for NRFS	7	7	7	5	5	6	0.036
IVD	32	30	28	29	35	30	0.976
Cesarean	23	22	21	20	16	19	<0.001

*Cochran-Armitage test for trend

IVD = instrumental vaginal delivery; NRFS = non-reassuring fetal state

Nunes I, Ayres-de-Campos D, Ugwumadu A, Amin P, Banfield P, Nicoll A, et al. Central fetal monitoring with and without computer analysis: a randomized controlled trial. Obstet Gynecol 2017;129.

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	Experimental arm	Control arm	Relative risk (95% CI)
2011/2012	(n=2182)	(n=2030)	
Metabolic acidosis n (%)	9 (0.412)	15 (0.739)	0.56 (0.24-1.27)
Umbilical blood pH <7.10 n (%)	85 (3.9)	81 (4.0)	0.98 (0.72-1.31)
Umbilical blood pH <7.15 n (%)	199 (9.1)	195 (9.6)	0.95 (0.79-1.14)
5-min Apgar <7 n (%)	26 (1.2)	33 (1.6)	0.73 (0.44-1.22)
Perinatal death n (%)	1 (0.046)	0 (0.000)	2.79 (0.11-68.48)
HIE of any grade n (%)	5 (0.229)	7 (0.345)	0.66 (0.21-2.09)
Grade 2 or 3 HIE n (%)	4 (0.183)	1 (0.049)	3.72 (0.42-33.27)
Cesarean delivery n (%)	461 (21.1)	462 (22.8)	0.94 (0.83-1.05)
Cesarean delivery for NRFS n (%)	148 (6.8)	144 (7.1)	0.96 (0.77-1.19)
IVD n (%)	691 (31.7)	591 (29.1)	1.09 (0.99-1.19)
IVD for NRFS n (%)	281 (12.9)	241 (11.9)	1.08 (0.92-1.27)
NICU admission n (%)	85 (3.9)	86 (4.2)	0.92 (0.68-1.23)
2013/2014	(n=1779)	(n=1739)	
Metabolic acidosis n (%)	7 (0.393)	7 (0.402)	0.98 (0.34-2.78)
Umbilical blood pH <7.10 n (%)	67 (3.8)	77 (4.4)	0.85 (0.62-1.17)
Umbilical blood pH <7.15 n (%)	168 (9.4)	177 (10.2)	0.93 (0.76-1.13)
5-min Apgar <7 n (%)	21 (1.2)	19 (1.1)	1.08 (0.58-2.00)
Perinatal death n (%)	0 (0.000)	0 (0.000)	0.98 (0.02-49.24)
HIE of any grade n (%)	2 (0.112)	1 (0.057)	1.95 (0.18-21.54)
Grade 2 or 3 HIE n (%)	1 (0.056)	0 (0.000)	2.93 (0.12-71.94)
Cesarean delivery n (%)	348 (19.6)	310 (17.8)	1.10 (0.95-1.26)
Cesarean delivery for NRFS n (%)	110 (6.2)	95 (5.5)	1.13 (0.87-1.4822)
IVD n (%)	561 (31.5)	521 (30.0)	1.05 (0.95-1.16)
IVD for NRFS n (%)	202 (11.4)	190 (10.9)	1.04 (0.86-1.25)
NICU admission n (%)	52 (2.9)	57 (3.3)	0.89 (0.62-1.29)

IVD = instrumental vaginal delivery; NRFS = non-reassuring fetal state; HIE = hypoxic-ischemic encephalopathy; NICU = neonatal intensive care unit

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Table 4. Comparison of the incidence of the primary outcome and intervention rates in the two study arms, during the first and second halves of the study.

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