

Low birth weight (<2500 gram) at late preterm and term: is it about gestational age, birth weight or birth weight percentile ? Amir Aviram, Oded Raban, Eran Hadar, Arnon Wiznitzer, Yariv Yogev

¹Helen Schneider Hospital for Women, Rabin Medical Center, Petah-Tikva; Sackler Faculty of Medicine, Tel-Aviv University, Israel

OBJECTIVE AND DESIGN

We aimed to compare pregnancy outcome of low birth weight newborns (1500-2500 grams) between late preterm (34+0/7-36+6/7, LPT) and term				Parameter	LPT (N=617)	Term $(N = 869)$	P value
deliveries.				OVD, n(%)	46 (7.5)	94 (10.8)	0.03
Retrospective cohort, 08/2007-12/2012.				CD for NRFHR,n(%)	22 (29.7)	48 (57.8)	<0.001
Overall, 44.263 parturients.				Chronic HTN, n(%)	18 (2.9)	10 (1.2)	0.01
Evolution oritoria: Birth woight >2500 grams or < 1500 grams				Mild PET, n(%)	32 (5.2)	24 (2.8)	0.02
Exclusion criteria: Dirth weight >2500 grains or < 1500 grains,				Severe PET, n(%)	28 (4.5)	14 (1.6)	0.001
chromosomal or structural anomalies, elective cesarean delivery.				HELLP, $n(\%)$	6 (1.0)	1 (0.1)	0.02
Study population: 1486 women. <u>617 (41.5%)</u> delivered at LPT and <u>869</u> (58.5%) delivered at term.				Chorioamnionitis, n(%)	3 (0.5)	0 (0)	0.04
				Meconium, n(%)	19 (3.1)	68 (7.8)	<0.001
TABLE 1 – DEMOGRAPHICS				Oligohydramnios, n(%)	22 (3.6)	90 (10.4)	<0.001
Parameter	LPT (n=617)	TERM (n=869)	p value	IVH, n(%)	4 (0.6)	0 (0.0)	0.02
				Sepsis, n(%)	140 (22.7)	60 (6.9)	<0.001
				NEC, n(%)	3 (0.5)	0 (0)	0.04
Birth weight	2186±228	2328±154	<0.001	RDS , $n(\%)$	8 (1.3)	0 (0)	0.001
				TTN, n(%)	23 (3.7)	4 (0.5)	<0.001
Birth weight %	27.8±18.0	6.6±5.2	<0.001	Respiratory distress, n(%)	59 (9.6)	25 (2.9)	<0.001
Male newborn	49.6%	39.1%	<0.001	Mechanical ventilation, n(%)	21 (3.4)	4 (0.5)	<0.001
SGA	9.1%	80.1%	<0.001	CPAP, n(%)	5 (0.8)	0 (0)	0.008
				Composite, n(%)	218 (35.3)	141 (16.2)	<0.001

TABLE 2 – OUTCOME



LOGISTIC REGRESSION

Adjusting for birth weight: LPT was with independently associated adverse neonatal composite outcome (OR 2.4, 95% CI 1.8-3.1). **Adjusting for birth weight percentile:** LPT was associated with adverse composite outcome (OR 3.1, 95% CI 2.4-4.0

CONCLUSION

Our data suggests that in deliveries complicated by low birth weight (<2500 grams), lower gestational week at delivery is independently associated with increased neonatal morbidity