

Table 4 (online). Baseline characteristics based on placental and umbilical cord histopathology

	No histologic chorioamnionitis n=199	Histologic chorioamnionitis, no funisitis n=38	Histologic chorioamnionitis, stage 1 or 2 funisitis without chorionic vasculitis n=26	Histologic chorioamnionitis, stage 1 or 2 funisitis with grade 1 chorionic vasculitis n=59	Histologic chorioamnionitis, subacute necrotizing funisitis or grade 2 chorionic vasculitis n=25
Maternal age, yr (Mean \pm SD)	26 \pm 6	24 \pm 5	25 \pm 7	27 \pm 6	26 \pm 4
Black race (%)	49	37	54	51	52
Multiple gestation (%)	30	26	12*	32	8*
Preeclampsia (%)	19	5*	0 \ddagger	8*	4*
Full course of antenatal steroids (%)	59	63	65	71	64
Antepartum antibiotics (%)	72	71	96*	80	92*
Clinical chorioamnionitis (%)	7	40*	27*	42*	32*
Rupture of membranes >18 hrs prior to delivery (%)	36	53*	77*	68*	80*
Birth weight, grams (Mean \pm SD)	828 \pm 235	802 \pm 237	892 \pm 206	801 \pm 221	885 \pm 274
Gestational age, wk (Median, IQR)	27 (25-28)	25 (24-26)*	26 (24-28)	25 (24 – 27)*	25 (24 – 27)
Male sex (%)	50	50	58	48	48
Apgar score at 5 min (Median, IQR)	7 (6-8)	7 (4-7)	7 (7 – 8)	7(5-7)	7 (4-8)
Cord pH (Mean \pm SD)	7.25 \pm 0.02	7.27 \pm 0.12	7.32 \pm 0.09	7.28 \pm 0.08	7.28 \pm 0.11
Respiratory distress	89	82	83	94	92

syndrome (%)					
Prophylactic indomethacin (%)	64	61	50	64	58
Intraventricular hemorrhage Grade 3 or 4 (%) † ²⁸	12	24	12	31*	17
Periventricular leukomalacia (%) †	5	0‡	8	4	0‡

* p <0.05 when compared to no HCA group

†n=332

‡ Statistical test not performed

Table 5 (online). Long-term neurologic morbidity in extremely preterm infants in relation to severity of placental inflammation

	Cerebral palsy N (%)	Language Score < 70 N (%)	Cognitive score < 70 N (%)	Hearing impairment N (%)	Blindness N (%)
No histologic chorioamnionitis (n=154)	7 (4)	23 (15)	11(7)	6 (4)	6 (4)
Histologic chorioamnionitis, no funisitis (n=22)	4 (18)	3 (14)	3 (14)	0 (0)	0 (0)
Histologic chorioamnionitis, stage 1 or 2 funisitis without chorionic vasculitis (n=21)	0 (0)	2 (10)	2 (10)	0 (0)	0 (0)
Histologic chorioamnionitis, stage 1 or 2 funisitis with grade 1 chorionic vasculitis (n=38)	3(8)	3 (8)	5 (13)	0 (0)	0 (0)
Histologic chorioamnionitis, subacute necrotizing funisitis or grade 2 chorionic vasculitis (n=15)	1 (7)	5 (33)	2 (13)	2 (13)	0 (0)

Table 6 (online). Assessment of biologic interaction: fetal inflammatory response, antenatal steroids, and NDI/death

	Histologic evidence of fetal inflammatory response			
	No (Overall risk: 39%)		Yes (Overall risk: 45%)	
	Incomplete course of antenatal steroids		Incomplete course of antenatal steroids	
	No	Yes	No	Yes
NDI/Death, N (%)	47 (37)	45 (41)	29 (43)	20 (48)
Controls, N (%)	81 (63)	64 (59)	39 (57)	22 (52)
Risk ratio (95% CI)	Reference	1.12 (0.82 – 1.55)	1.16 (0.81 – 1.66)	1.30 (0.88 – 1.92)