Online Supplementary Information

Table S1. Crude relationships between clinical variables
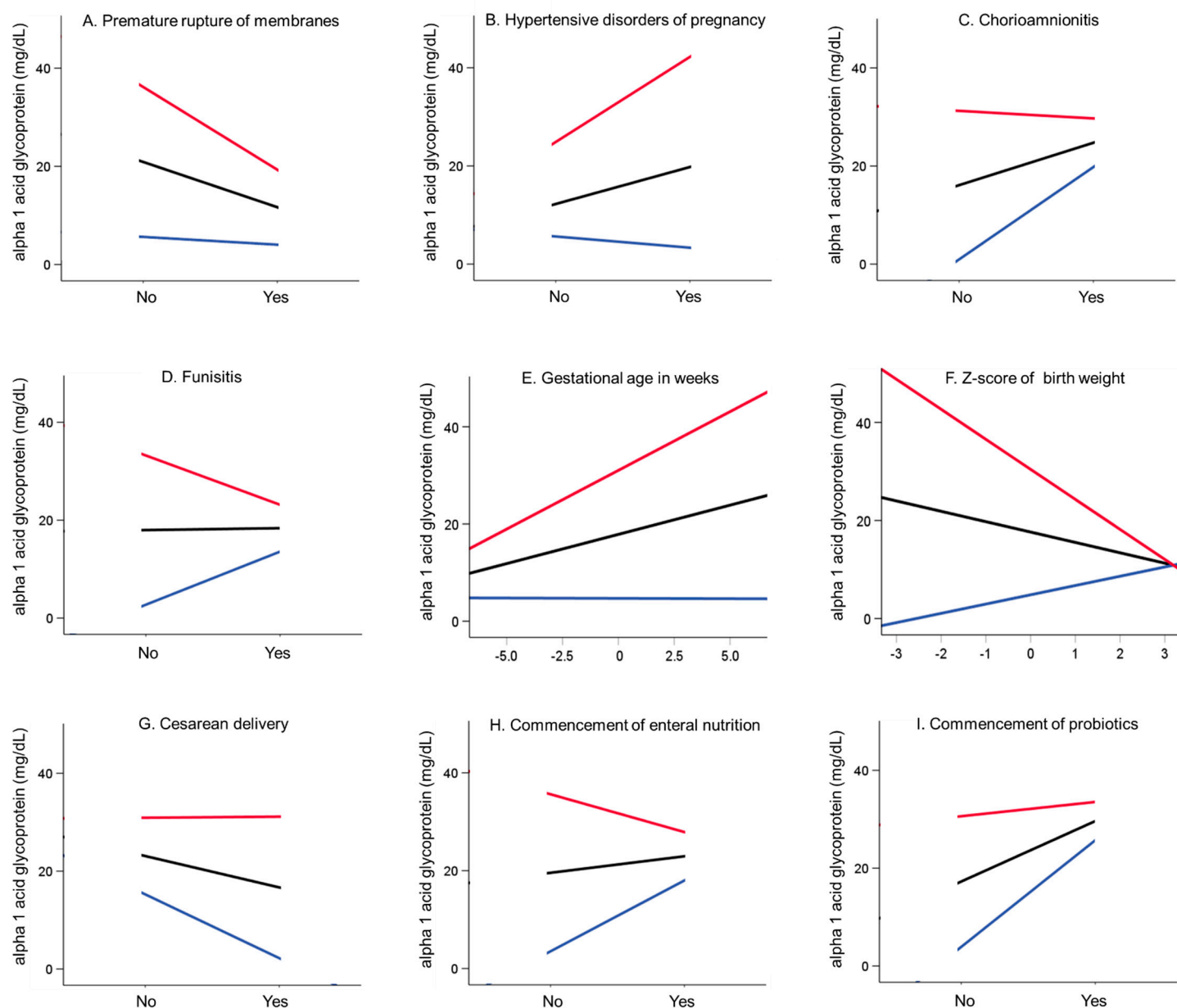
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Antenatal steroid	1	-0.029	-0.031	.206**	-0.031	-0.011	-0.057	.222**	.140*	-0.053	.203**	.144*	0.001	-0.075	0	0.001	0.085	0.102	.181**	-0.061
2	PROM	-0.029	1	-.460**	.136**	-0.001	.307**	-0.113	-.524**	-.229**	.428**	-.156*	-0.191*	.175**	-0.021	-0.044	.316**	-0.024	-0.027	-0.006	0.030
3	HDP	-0.031	-.460**	1	.157**	-.241**	-.206**	.206**	.438**	0.088	-.467**	.183**	.203**	.202**	.121*	-.120*	-.281*	0.004	0.058	0.059	0.046
4	Maternal antibiotics	.206**	.136**	.157**	1	0.089	0.041	0.019	0.096	-0.070	-.204**	-0.022	-0.064	.486**	0.029	0.045	0.104	0.047	-0.072	-0.015	0.058
5	Chorioamnionitis	-0.031	-0.001	-.241**	0.089	1	.290**	-.292**	-.135*	0.088	.206**	-0.016	-0.035	-.295**	-0.045	-0.006	-0.006	-0.055	.126*	.127*	.226**
6	Funisitis	-0.011	.307**	-.206**	0.041	.290**	1	-.174**	-.384**	-0.111	.376**	-.164**	-.201**	-.370**	-0.061	-0.042	.234**	-.216**	.157*	.205**	.159**
7	Male sex	-0.057	-0.113	.206**	0.019	-.292**	-.174**	1	.215**	-0.058	-.151*	-.143*	-0.079	.127*	-0.079	-.130*	-0.093	0.034	-0.007	-0.068	-.133*
8	Gestational age	.222**	-.524**	.438**	0.096	-.135*	-.384**	.215**	1	.524**	-.689**	.420**	.453**	.128*	-0.055	-0.077	-.442**	-0.081	0.112	-0.017	-.134*
9	Birth weight	.140*	-.229**	0.088	-0.070	0.088	-0.111	-0.058	.524**	1	.151*	.480**	.528**	-0.100	-.187**	-.146*	-.336**	-0.096	174**	-0.053	-0.008
10	z-score of birth weight	-0.053	.428**	-.467**	-.204**	.206**	.376**	-.151*	-.689**	.151*	1	-.159**	-.151*	-.319**	-0.114	-0.037	.285*	0.010	0.066	-0.041	.148*
11	Apgar score (1 min)	.203**	-.156*	.183**	-0.022	-0.016	-.164**	-.143*	.420**	.480**	-.159**	1	.780**	0.083	0.110	-.146*	-.356**	-.130*	.152*	.148*	-0.103
12	Apgar score (5 min)	.144*	-0.191*	.203**	-0.064	-0.035	-.201**	-0.079	.453**	.528**	-.151*	.780**	1	0.096	0.110	-0.100	-.416**	-.226**	0.104	0.107	-0.027
13	Caesarean delivery	0.001	.175**	.202**	.486**	-.295**	-.370**	.127*	.128*	-0.100	-.319**	0.083	0.096	1	-0.061	0.040	-0.113	0.101	-.206**	-.190**	-.133*
14	Septicemia	-0.075	-0.021	.121*	0.029	-0.045	-0.061	-0.079	-0.055	-.187**	-0.114	0.110	0.110	-0.061	1	-0.023	-0.053	-0.063	0.001	0.044	.203**
15	Intestinal perforation	0	-0.044	-.120*	0.045	-0.006	-0.042	-.130*	-0.077	-.146*	-0.037	-.146*	-0.100	0.040	-0.023	1	.145*	-0.046	-.132*	-0.087	0.055
16	PDA requiring surgery	0.001	.316**	-.281*	0.104	-0.006	.234**	-0.093	-.442**	-.336**	.285*	-.356**	-.416**	-0.113	-0.053	.145*	1	.169**	-0.070	0.039	.221**
17	Grade III/IV IVH	0.085	-0.024	0.004	0.047	-0.055	-.216**	0.034	-0.081	-0.096	0.010	-.130*	-.226**	0.101	-0.063	-0.046	.169**	1	-.151*	-.183**	-0.014
18	Enteral nutrition	0.102	-0.027	0.058	-0.072	.126*	.157*	-0.007	0.112	.174**	0.066	.152*	0.104	-.206**	0.001	-.132*	-0.070	-.151*	1	.553**	-0.013
19	Probiotics	.181**	-0.006	0.059	-0.015	.127*	.205**	-0.068	-0.017	-0.053	-0.041	.148*	0.107	-.190**	0.044	-0.087	0.039	-.183**	.553**	1	0.047
20	C-reactive protein	-0.061	0.030	0.046	0.058	.226**	.159**	-.133*	-.134*	-0.008	.148*	-0.103	-0.027	-.133*	.203**	0.055	.221**	-0.014	-0.013	0.047	1

Regression coefficients are from the Spearman rank-ordinal test.

Abbreviations: HDP, hypertensive disorders of pregnancy. IVH, intraventricular hemorrhage. PDA, patent ductus arteriosus. PROM, premature rupture of membranes.

P-values < 0.05* or < 0.01** without correction for multiple comparisons.

Figure S1. Relationships between clinical variables and alpha 1 acid glycoprotein levels at early and late postnatal ages

Regression lines between clinical variables and alpha 1 acid glycoprotein levels are shown for the early (blue line, one standard deviation below the mean), late (red line, one standard deviation above the mean), and mean (black line) postnatal ages using the simple slope analysis. Continuous variables (gestational age and z-scores of the body weight at birth) were mean-centered for convenience. See Table 4 for the confidence intervals and p-values.