

Supplementary Material

Demographic Data

Supplementary Table S1. Demographic data, primary outcome and PDA treatment rates by center.

Center ID	Death (%)	BPD or Death (%)	BPD (%)	PDA Treat (%)	TA Quartile	BW (Mean)	BW (SD)	GA (Median)	GA (MAD)	Apgar 5 min (Median)	Apgar 5 min (MAD)	Surfactant (%)	VSGA (%)	SGA (%)	DR-IPPV (%)
1	25.4	54.3	31.9	29.7	1	922	242	27	1.5	6	1.5	91.3	5.8	8	90.6
2	34.5	65.5	34.5	93.1	4	780	231	26	3	3	3	93.1	13.8	6.9	93.1
3	30.9	61.7	32.9	45.7	1	850	243	27	1.5	5	1.5	75.3	9.9	11.1	98.8
4	27.5	43.8	17.4	87.1	3	895	203	26	1.5	6	3	83.8	0.4	6.2	83.8
5	37.3	54.9	19.6	34.7	1	908	233	26	1.5	5	3	88.6	2.1	4.7	82.9
6	29.7	56.8	31.4	43.2	1	781	204	26	1.5	5	3	83.8	5.4	13.5	91.9
7	25.7	71.4	45.7	68.6	2	908	201	27	1.5	6	3	88.6	0	14.3	85.7
8	25.4	44.8	21.2	86.6	3	855	252	27	1.5	6	3	85.1	6	13.4	56.7
9	27.3	47.3	20.0	72.7	2	922	230	26	1.5	6	1.5	94.5	0	0	90.9
10	13.3	53.3	40.9	93.3	4	928	233	26	1.5	5	3	95.6	0	6.7	86.7
11	19.4	58.1	41.4	71.0	2	871	236	26	1.5	5	3	71	6.5	6.5	71
12	33.3	61.3	28.1	85.1	3	892	245	26	1.5	4	3	85.1	4.8	4.2	74.4
13	25.4	67.6	45.1	63.4	2	877	217	26	1.5	4	3	83.1	5.6	7	88.7
14	26.8	79.9	62.6	86.6	3	885	219	27	1.5	4	3	93.3	2	10.1	75.2
15	20.4	64.7	45.3	73.9	2	901	238	27	1.5	4	3	92.2	3.3	11.8	92.8
16	35.9	87.8	58.1	64.1	2	872	205	27	1.5	5	4.4	79.4	3.8	9.9	70.2
17	19.7	71.1	54.2	84.2	3	922	228	27	1.5	5.5	3.7	88.2	1.3	6.6	93.4
18	46.9	59.2	22.0	98.0	4	903	177	27	1.5	6	1.5	85.7	2	4.1	71.4
19	52.9	74.4	28.2	84.3	3	881	213	26	1.5	6	3	91.7	4.1	7.4	88.4
20	35.6	51.1	17.8	60.0	1	927	201	26	1.5	7	1.5	97	1.5	2.2	83.7
21	36.9	69.3	36.8	86.4	3	901	212	26.5	0.7	5	3	93.2	2.8	5.7	55.7
22	50.0	70.6	23.5	88.2	4	880	183	25	1.5	6	3	100	0	11.8	100
23	49.6	60.3	12.4	95.4	4	962	215	27	1.5	7	1.5	84.7	0.8	3.8	62.6
24	39.2	76.5	39.6	54.9	1	897	221	26	1.5	5	3	86.3	0	5.9	90.2
25	28.1	28.1	0.0	59.4	1	918	234	27	1.5	6	1.5	84.4	3.1	12.5	50
26	46.7	62.8	21.6	96.7	4	902	227	27	1.5	7	3	94.2	1.7	5.8	88.4
27	17.0	74.5	64.4	83.0	2	915	248	26	1.5	5	3	89.4	4.3	6.4	76.6
28	23.3	56.7	36.7	93.3	4	886	174	27	1.5	6	1.5	96.7	3.3	6.7	90
29	40.9	60.2	20.7	79.6	2	849	192	26	1.5	5	1.5	87.1	1.1	6.5	33.3
30	36.4	72.7	36.4	36.4	1	874	218	27	1.5	4	1.5	100	0	0	72.7
31	29.7	67.6	55.6	86.5	3	861	180	26	1.5	5	3	100	2.7	2.7	18.9
32	14.8	55.6	46.2	100.0	4	951	252	27	1.5	6	1.5	88.9	0	11.1	77.8

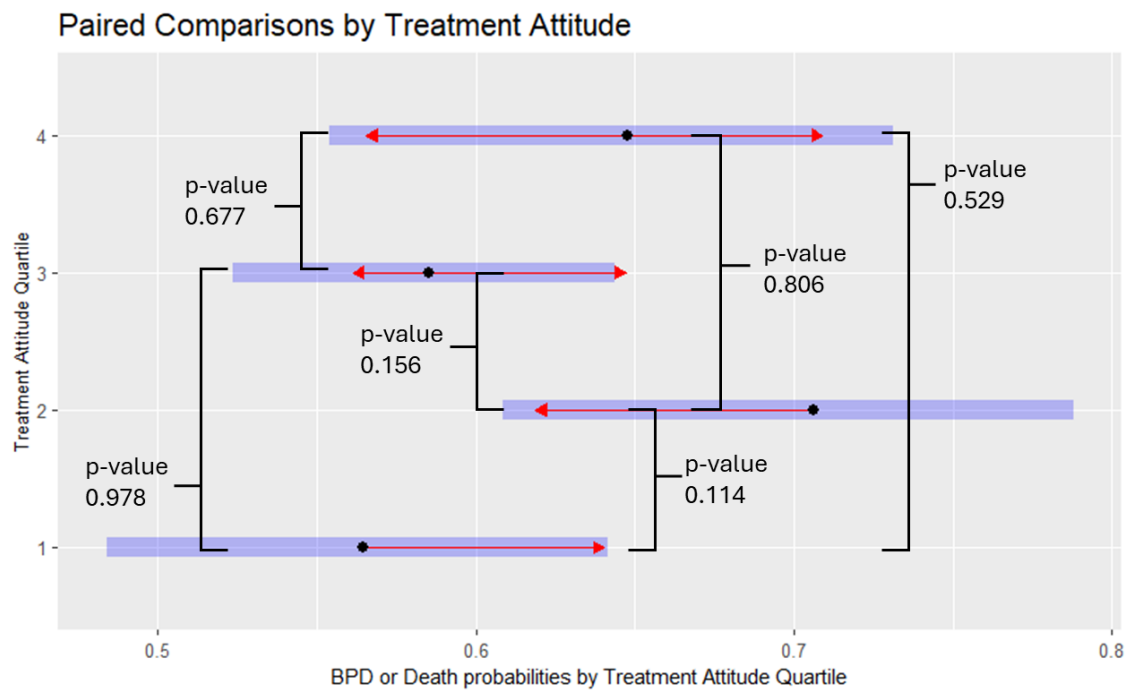
Interaction Model

Supplementary Table S2. Main outcome adjusted interaction mixed model

Variable	Adjusted OR	Standard Error	95% CI	p-value
Very Low Treatment Attitude (Q1)	1	1	--	1
Low Treatment Attitude (Q2)	0.03	2.92	0.00 – 8.28	0.216
Moderate Treatment Attitude (Q3)	0.12	2.56	0.00 – 18.37	0.410
High Treatment Attitude (Q4)	1.54	3.01	0.00 – 56.12	0.886
Treatment Attitude (Q2) by GA (wk)	1.14	0.11	0.92 – 1.41	0.241
Treatment Attitude (Q3) by GA (wk)	1.07	0.10	0.89 – 1.30	0.457
Treatment Attitude (Q4) by GA (wk)	0.99	0.11	0.80 – 1.24	0.943
GA (wk)	0.50	0.08	0.43 – 0.59	<0.001

Temporal Trends

Supplementary Figure S1. Main outcome adjusted sensitivity analysis. Excludes nine centers with significant temporal trends on yearly PDA treatment attitudes.



Secondary Outcomes

Supplementary Table S3 adjusted ORs of the mixed logistic regression models for secondary outcomes: BPD and Death as separates.

Variable	Adjusted OR	Standard Error	95% CI	p-value
Very Low Treatment Attitude (Q1)	1	1	--	1
Low Treatment Attitude (Q2)	0.03	2.92	0.00 – 8.28	0.216
Moderate Treatment Attitude (Q3)	0.12	2.56	0.00 – 18.37	0.410
High Treatment Attitude (Q4)	1.54	3.01	0.00 – 56.12	0.886
GA (wk)	0.50	0.08	0.43 – 0.59	<0.001

Model Performance and Diagnostics

Figure S2. Calibration curve

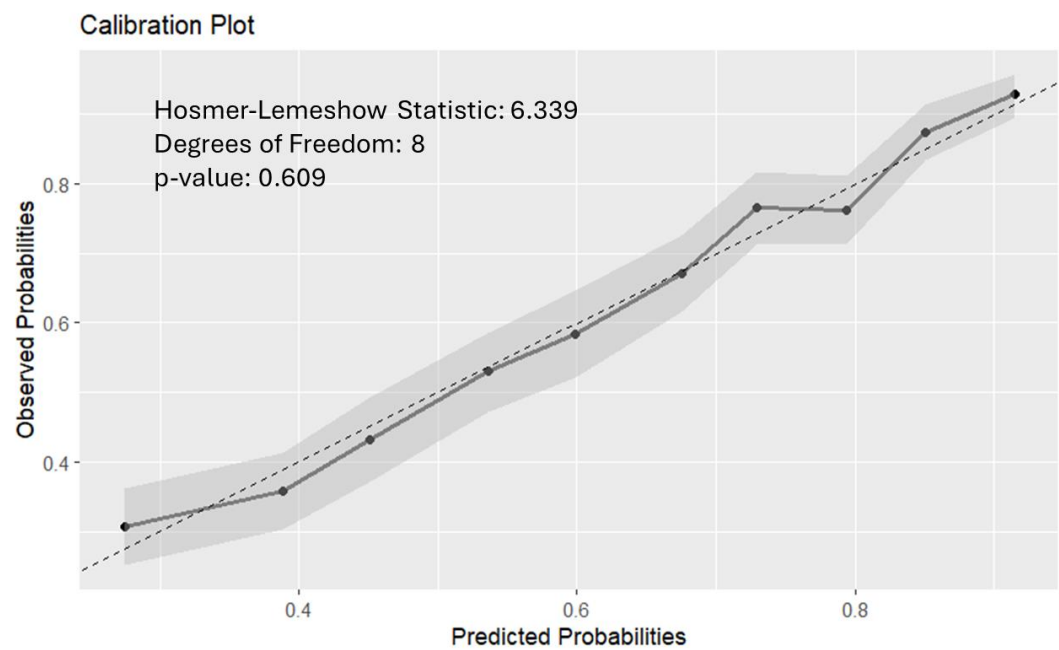
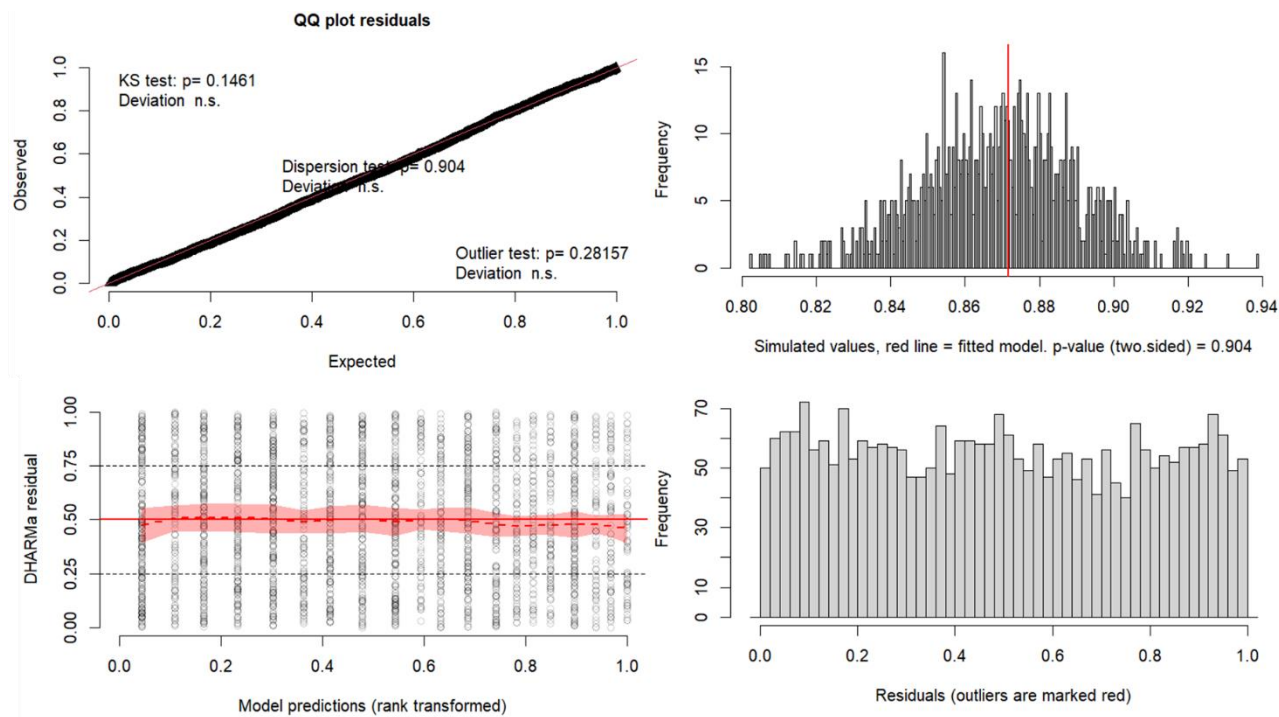


Figure S3. Model Assumptions Check-in

The simulated residuals showed normal distribution of the random effects, no significant outliers and homoscedasticity.



Neocosur Network Participating Centers

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Clínica y Maternidad Suizo Argentina, Buenos Aires
Hospital Italiano, Buenos Aires
Hospital Juan Fernández, Buenos Aires
Hospital Lagomaggiore, Mendoza
Maternidad Sardá, Buenos Aires
Sanatorio de la Trinidad, Buenos Aires
Hospital Universitario Austral, Buenos Aires
Hospital Misericordia Nuevo Siglo, Córdoba
Hospital Español de Mendoza, Mendoza
Clínica Universitaria Reina Fabiola, Córdoba
Hospital Escuela Eva Perón, Santa Fé
Clínica y Maternidad del Sol, Córdoba
Hospital Alejandro Posadas, El Palomar, Buenos Aires
Hospital Castro Rendón, Neuquén

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Hospital Clínico Universidad de Chile, Santiago
Hospital Guillermo Grant, Concepción
Hospital Gustavo Fricke, Viña del Mar
Hospital San José, Santiago
Hospital Dr. Sótero del Río, Santiago
Hospital San Borja Arriarán, Santiago
Hospital de Puerto Montt, Puerto Montt
Hospital Carlos Van Buren, Valparaíso
Hospital de Antofagasta
Clínica Dávila, Santiago
Hospital Regional de Talca, Talca

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