

**Supplementary Table 1. The clinical outcomes and risk factors according to management in HS PDA patients**

Variable	Conservative treatment		Medical treatment	
	No ligation (n=90)	Ligation (n=27)	No ligation (n=77)	Ligation (n=41)
Gestational age (wk)	26.7±2.2	27.3±1.9	27.6±1.9	26.8±2.0 <sup>†</sup>
Male sex	52 (57.8)	17 (63.0)	37 (48.1)	18 (43.9)
Birth weight (g)	912.6±260.9	940.4±222.3	1036.1±212.9	909.8±185.2
Birth height (cm)	34.2±3.5	34.5±2.9	36.1±2.8	33.9±2.8 <sup>†</sup>
SGA	24 (26.7)	4 (14.8)	13 (16.9)	8 (19.5)
Maternal age (yr)	33.7±4.4	35.8±4.2	32.8±4.3	33.6±4.0
Maternal diabetes mellitus	7 (7.8)	6 (22.2)*	7 (9.1)	3 (7.3)
Maternal hypertension	27 (30.0)	5 (18.5)	28 (36.4)	11 (26.8)
Oligohydramnios	10 (11.1)	6 (22.2)	7 (9.1)	3 (7.3)
Chorioamnionitis	30 (33.3)	8 (29.6)	17 (23.4)	7 (17.1)
History of PROM	39 (43.3)	14 (51.9)	20 (26.0)	16 (39.0)
Incomplete steroid use	64 (71.1)	25 (92.6)*	48 (62.3)	36 (87.8) <sup>†</sup>
Body temperature (°C)	36.1±0.5	36.1±0.7	36.1±0.4	36.1±0.4
pH	7.30±0.10	7.31±0.09	7.31±0.11	7.28±0.08
Base excess (mEq/L)	-5.98±3.91	-5.46±3.71	-6.00±4.08	-6.07±3.10
Apgar score at 1 min	4.9±1.5	5.3±1.2	5.4±1.5	5.1±1.5
Apgar score at 5 min	7.4±1.0	7.7±0.8	7.5±1.1	7.2±1.2
Initial PPV at delivery room	80 (88.9)	26 (96.3)	66 (85.7)	35 (85.4)
RDS	85 (94.4)	27 (100)	75 (97.4)	37 (90.24)
Number of surfactant therapy	2.0±0.9	2.0±0.7	1.9±0.9	1.8±0.9
Severe IVH	17 (18.9)	4 (14.8)	5 (6.5)	5 (12.2)
Severe BPD	22 (24.4)	13 (48.1)*	19 (24.7)	16 (39.0)
Invasive ventilator care duration	20.1±26.7	19.4±26.8	10.6±16.2	30.6±33.4 <sup>†</sup>
Hospitalization duration	54.0±55.9	77.6±50.7*	60.0±30.2	79.2±50.9 <sup>†</sup>
Mortality	45 (50.0)	8 (29.6)	13 (16.9)	12 (29.3)

Values are presented as the number (%) and mean±standard deviation.

PDA, patent ductus arteriosus; HS PDA, hemodynamically significant PDA; SGA, small for gestational age; PROM, premature rupture of membranes; PPV, positive pressure ventilation; RDS, respiratory distress syndrome; IVH, intraventricular hemorrhage; BPD, bronchopulmonary dysplasia.

\**P*<0.05, compared to no ligation after conservative treatment. <sup>†</sup>*P*<0.05, compared to no ligation after medical treatment.