

**Table S1: Detailed information on maternal medical diseases in the study population**

Maternal medical diseases	Delivery room (n = 21)	Isolated negative pressure room (n = 2)
Type II diabetes mellitus	1	1
Type I diabetes mellitus	1	0
Hyperthyroidism	3	1
Hypothyroidism	3	0
Chronic hypertension	2	0
Aklyosis spondylitis	1	0
Asthma	1	0
Atiphospholipid syndrome	2	0
Masthenia gravis	1	0
Pophyria	1	0
Glucose-6-phosphate dehydrogenase deficiency	1	0
Systemic lupus erythematosus	2	0
IgA nephropathy	1	0
Chronic hepatitis B	2	0

**Table S2. Maternal surgical outcomes of pairing each case with the same indication of cesarean section.**

<i>Maternal Outcome Paired with Indications of Cesarean Deliveries—Previous uterine surgery</i>			
	Delivery room, n =	Isolated negative pressure room, n =	p-value
Blood loss <sup>†</sup> (ml)	19 600 (300–1800)	9 400 (200–800)	0.042*
Postpartum hemorrhage <sup>°</sup> (%)	3 (15.8%)	0 (0.00%)	0.530
Operative time <sup>†</sup> (min)	91 (49–126)	93 (64–127)	0.980
<i>Maternal Outcome Paired with Indications of Cesarean Deliveries—Malpresentation</i>			
	Delivery room, n =	Isolated negative pressure room, n =	p-value
Blood loss <sup>†</sup> (ml)	7 400 (300–800)	2 450 (400–500)	0.648
Postpartum hemorrhage (%)	0	0	-
Operative time <sup>†</sup> (min)	94 (63–103)	82.5 (75–90)	0.462
<i>Maternal Outcome Paired with Indications of Cesarean Deliveries—Cephalopelvic disproportion</i>			
	Delivery room, n =	Isolated negative pressure room, n =	p-value
Blood loss <sup>†</sup> (ml)	1 500	1 300	-
Postpartum hemorrhage (%)	0	0	-
Operative time <sup>†</sup> (min)	84	73	-
<i>Maternal Outcome Paired with Indications of Cesarean Deliveries—Dysfunctional labor</i>			
	Delivery room, n =	Isolated negative pressure room, n =	p-value
Blood loss <sup>†</sup> (ml)	16 400 (300–900)	3 500 (400–1000)	0.302
Postpartum hemorrhage <sup>°</sup> (%)	0	1 (33.3%)	0.176
Operative time <sup>†</sup> (min)	77 (55–118)	84 (76–92)	0.283

*Maternal Outcome Paired with Indications of Cesarean Deliveries—**Severe preeclampsia***

	Delivery room, n = 3	Isolated negative pressure room, n = 1	<i>p</i> -value
Blood loss <sup>†</sup> (ml)	400 (400–600)	200	-
Postpartum hemorrhage (%)	0	0	-
Operative time <sup>†</sup> (min)	81 (39–92)	103	-

*Maternal Outcome Paired with Indications of Cesarean Deliveries—**Non-reassuring fetal heart rate tracing***

	Delivery room, n = 5	isolated negative pressure room, n = 2	<i>p</i> -value
Blood loss <sup>†</sup> (ml)	650 (500–1200)	900 (700–1100)	0.481
Postpartum hemorrhage <sup>°</sup> (%)	2 (40.0%)	1 (50.0%)	1.000
Operative time <sup>†</sup> (min)	63 (61–90)	93.5 (86–101)	0.121

<sup>†</sup> Mann–Whitney U-test; <sup>°</sup> Fisher’s exact test; \* two-sided *p*-value <0.05

**Figure S1. Detailed clinical information on newborns with neonatal respiratory distress.**

No.	Maternal COVID-19 PCR test status	Gestational age (weeks) at birth	Delivery methods	Downes' score	Free flow oxygen use	Further respiratory support	Final diagnosis
1	Positive	38 5/7	Cesarean section	3	yes	NC, flow 1L/min	TTN
2	Positive	36 6/7	Cesarean section	4	yes	NIMV, FiO2: 40%	Congenital pneumonia
3	Positive	40 0/7	Vaginal delivery	3	yes	No	TTN
4	Positive	37 5/7	Cesarean section	4	yes	NCPAP, FiO2:20%	TTN
5	Positive	34 3/7	Vaginal delivery	5	yes	NIMV, FiO2:20%	TTN
6	Positive	38 4/7	Vaginal delivery	2	yes	No	TTN
7	Positive	36 0/7	Vaginal delivery	2	yes	Np	TTN
8	Positive	35 6/7	Cesarean section	3	yes	NC, flow 1L/min	TTN
9	Positive	34 5/7	Vaginal delivery	2	yes	No	TTN
10	Positive	39 6/7	Cesarean section	3	yes	No	TTN
11	Positive	35 3/7	Cesarean section	4	yes	NIMV, FiO2:20%	TTN
12	Positive	39 4/7	Vaginal delivery	2	yes	No	TTN
13	Positive	39 6/7	Vaginal delivery	4	yes	NC, flow 1L/min	MAS
14	Positive	39 0/7	Vaginal delivery	4	yes	NIMV, FiO2:30%	TTN
15	Positive	38 2/7	Cesarean section	3	yes	NC, flow 1L/min	TTN
16	Positive	39 6/7	Vaginal delivery	4	yes	No	MAS
17	Positive	36 4/7	Vaginal delivery	3	yes	NC, flow 1L/min	TTN
18	Positive	38 5/7	Cesarean section	4	yes	NCPAP, FiO2:20%	MAS
19	Negative	36 1/7	Vaginal delivery	4	yes	NIMV, FiO2: 20%	TTN
20	Negative	35 1/7	Vaginal delivery	2	yes	No	Stage I RDS
21	Negative	38 1/7	Vaginal delivery	5	yes	IMV, FiO2:35%	TTN
22	Negative	34 3/7	Cesarean section	4	yes	NCPAP, FiO2:20%	TTN
23	Negative	35 3/7	Cesarean section	4	yes	NIMV, FiO2:20%	TTN
24	Negative	38 0/7	Cesarean section	4	yes	NCPAP, FiO2:20%	TTN
25	Negative	37 0/7	Cesarean section	4	yes	NCPAP, FiO2:20%	TTN
26	Negative	35 0/7	Cesarean section	4	yes	NIMV, FiO2:20%	TTN
27	Negative	36 3/7	Vaginal delivery	3	yes	NCPAP, FiO2:20%	TTN
28	Negative	39 6/7	Vaginal delivery	4	yes	NCPAP, FiO2:20%	TTN
29	Negative	38 2/7	Cesarean section	3	yes	NCPAP, FiO2:20%	TTN
30	Negative	36 6/7	Vaginal delivery	4	yes	NIMV, FiO2:25%	TTN
31	Negative	35	Vaginal delivery	4	yes	IMV, FiO2:40%	Pulmonary hypertension
32	Negative	37	Cesarean section	4	yes	NIMV, FiO2:25%	TTN
33	Negative	37 4/7	Cesarean section	3	yes	No	TTN
34	Negative	38	Cesarean section	4	yes	NCPAP, FiO2:20%	TTN
35	Negative	39 1/7	Vaginal delivery	4	yes	NCPAP, FiO2:20%	TTN
36	Negative	38 2/7	Vaginal delivery	3	yes	No	TTN

IMV, invasive mechanical ventilation; MAS, meconium aspiration syndrome; NC, nasal cannula; NCPAP, nasal continuous positive airway pressure; NIMV, non-invasive mechanical ventilation; RDS, respiratory distress syndrome; TTN, transient tachypnea of the newborn