

Table 4 Crude and adjusted odds ratios for risk of cerebral palsy for all risk factors in the study

Variable	Cases (n = 107)		Controls (n = 223)		OR (95% CI)
	No.	%	No.	%	
Birth weight (g)					
> 2500	72	67.3	205	92.3	(ref.)
≤ 2500	35	32.7	17	7.7	4.60 (2.60–8.14) ^b
Delivery					
Spontaneous vaginal	51	55.1	163	74	(ref.)
Caesarean section	48	44.9	58	26.0	2.65 (1.61–4.34) ^b
Perinatal hypoxia					
No	58	54.2	219	98.2	(ref.)
Yes	49	45.8	4	1.8	65.8 (22.4–193) ^b
Gestation (weeks)					
38–42	70	67.3	191	85.7	(ref.)
< 37	35	32.7	32	14.3	2.90 (1.67–5.03) ^b
Perinatal jaundice					
No	87	81.3	205	92.3	(ref.)
Yes	20	18.7	17	7.7	2.70 (1.39–5.55) ^a
Multiple births					
Singleton	97	90.7	221	99.1	(ref.)
Multiple (twins)	10	9.3	2	0.9	11.4 (2.45–53.0) ^b
Congenital abnormalities					
None	97	90.7	222	99.6	(ref.)
Congenital abnormality, other	1	0.9	0	0.0	2.41(1.31–4.44) ^b
Congenital abnormality, cleft palate	6	5.6	0	0.0	
Congenital abnormality, head malformation	3	2.8	1	0.4	
Infection during pregnancy					
No	87	81.3	213	95.5	(ref.)
Yes	20	18.7	10	4.5	4.80 (2.20–10.9) ^b
Infection during delivery					
No	98	91.6	219	98.2	(ref.)
Yes	9	8.4	4	1.6	5.00 (1.51–16.7) ^a
Prenatal care					
Yes	95	88.8	218	97.8	(ref.)
No	12	11.2	5	2.2	5.50 (1.89–16.1) ^b
Family history of birth deficits^a					
No	92	86	219	98.2	(ref.)
Yes	15	14.0	4	1.8	8.90 (2.89–27.6) ^b
Consanguineous parents					
No	56	52.3	169	75.8	(ref.)
Yes	51	47.7	54	24.2	2.85 (1.75–4.64) ^b
Mother's age (years)					
22–38	85	78.7	163	70.4	(ref.)
< 21	20	19.0	46	21.7	0.84 (0.47–1.53)
> 39	2	2.3	14	7.9	0.27 (0.06–1.23)
Father's age (years)					
22–38	86	80	165	72.7	(ref.)
< 21	1	1.1	6	3.3	0.33(0.39–2.74)
> 39	20	18.9	52	24.0	0.74(0.41–1.32)

Table 4 Crude and adjusted odds ratio for risk of cerebral palsy for all risk factors in the study (concluded)

Variable	Cases (n = 107)		Controls (n = 223)		OR (95% CI)
	No.	%	No.	%	
<i>Place of delivery</i>					
NGO/private hospital	40	37.4	137	61.7	(ref.)
MOH hospital	67	62.6	85	38.3	2.70 (1.69–4.38) ^b
<i>Place of delivery</i>					
MOH/NGO hospital	90	87.4	180	65.1	(ref.)
Private hospital	13	12.6	43	34.9	0.58 (0.30–1.13)
<i>Place of delivery</i>					
MOH/private hospital	80	75.5	128	58.8	(ref.)
Other/NGO hospital	26	24.5	91	41.2	0.46 (0.27–0.78) ^b

^a*P* < 0.05; ^b*P* < 0.01.

(ref.) = reference category; OR = odds ratio; CI = confidence interval; MOH = Ministry of Health; NGO = nongovernmental organization (Makassad and Hilal hospitals).