Web Tables for: Risk factors for community-acquired bacterial infection among South Asian young infants: a primary analysis of the ANISA longitudinal cohort study with nested case—control analysis

Web Table 1 - Neonatal health status risk factors – univariate analysis

	Bacterial Infection		
	Relative Risk	p-value	95% Cred. Int
Moderate or late preterm (32- <37 weeks)	1.34	0.013*	1.06,1.68
Very and extremely preterm (<32 weeks)	1.72	0.026*	1.07,2.77
Multiple births (pluripara)	1.82	0.018*	1.12,2.98
Low birth weight <2500g	1.66	0.000***	1.37,2.00
Very low birth weight <1500g	5.83	0.000***	3.86,8.82
Male sex	1.26	0.010*	1.06,1.50
Congenital anomaly detected at birth	2.41	0.076	0.91,6.39
Breathing problems reported at birth	2.18	0.000***	1.75,2.70
Jaundice (mild and moderate)*	0.87	0.490	0.59,1.29
Severe jaundice*	2.17	0.116	0.83,5.69
Skin pustules detected	0.60	0.537	0.12,3.05
Sample size variation		n = 57,353 - 58	,907

*Physician reported

Web Table 2 - Maternal risk factors – univariate analysis

	Bacterial Infection		
	Relative Risk	p-value	95% Cred. Int
Birth spacing 18-59 months from last birth	0.79	0.007**	0.67,0.94
Birth spacing < 18 months from last birth	0.71	0.079	0.48,1.04
Prior births			
1 Prior birth	0.74	0.010	0.59,0.93
2 Prior births	0.62	0.002**	0.46,0.83
3+ Prior births	0.84	0.078	0.69,1.02
Maternal fever reported - prior 7 days	1.19	0.293	0.86,1.63
Fever during pregnancy	1.20	0.167	0.93,1.56
Foul discharge reported - pregnancy	1.27	0.322	0.79,2.06
Foul discharge reported - birth	1.21	0.129	0.95,1.53
Bleeding reported during pregnancy	1.35	0.400	0.67,2.72
Convulsions reported during pregnancy	1.43	0.516	0.49,4.18
Swelling reported during pregnancy	0.93	0.576	0.73,1.19
Moderate nutritional risk (MUAC) (<23cm)	1.02	0.872	0.82,1.27
High nutritional risk (MUAC) (<20.7cm)	0.98	0.923	0.63,1.52
Unknown nutritional status	1.16	0.282	0.88,1.52
Physical work reported during pregnancy	1.18	0.074	0.98,1.42
Respiratory illness reported	1.11	0.404	0.87,1.41
Antenatal care (ANC) visits (none baseline)			
1 ANC visit	1.04	0.814	0.75,1.44
2 ANC visits	1.06	0.698	0.79,1.44
3 ANC visits	1.16	0.315	0.87,1.54
4+ ANC visits	0.95	0.638	0.75,1.19
One TT** dose during this pregnancy	0.94	0.692	0.70,1.27

Two TT** doses during this pregnancy	1.22	0.035^{*}	1.01,1.46
1 TT dose over lifetime	0.90	0.639	0.58,1.39
2+ TT doses over lifetime	0.98	0.832	0.79,1.21
Iron folate supplementation (0-2 months baseline)			
2-5 months	1.00	0.974	0.79,1.28
6+ months	0.67	0.025^{*}	0.47,0.95
Do not know	1.00	0.983	0.76,1.33
Maternal tobacco use	1.15	0.711	0.56,2.34
Cooking smoke during pregnancy	0.98	0.948	0.61,1.60
Mother uses paan / betal leaf	1.00	0.985	0.81,1.24
Sample size variation		n = 44,738 - 58,907	

* Mid-Upper Arm Circumference (MUAC)

**Tetanus Toxoid (TT) Vaccine injection

Web Table 3 Birth procedure-related risk factors – Unadjusted values

	Bacterial Infection			
	Relative Risk	p-value	95% Cred. Int	
Non-skilled birth attendant	0.86	0.088	0.72,1.02	
Sterile instrument* used to cut umbilical cord	1		•,•	
Non-sterile instrument used to cut umbilical cord	1.21	0.039*	1.01,1.44	
Unknown implement used to cut umbilical cord	0.99	0.973	0.61,1.62	
No clean delivery kit used	0.78	0.014*	0.634,0.95	
Hand washing	1		•,•	
Birth attendant did not wash hands at delivery	0.80	0.406	0.47,1.36	
Other caregiver(s) did not wash hands	1.16	0.401	0.82,1.66	
Vaginal examinations (none performed baseline)				
1 Exam	0.88	0.421	0.64,1.21	
2 Exams	1.09	0.424	0.88,1.36	
3 or more exams	1.02	0.866	0.78,1.34	
Unknown	1.17	0.581	0.67,2.04	
Non-clear amniotic fluid	1.13	0.382	0.86,1.47	
Duration of labor (baseline 0-6 hours)				
6-11 hours	1.11	0.358	0.89,1.38	
12-23 hours	1.41	0.005**	1.11,1.80	
24-47 hours	1.11	0.602	0.75,1.64	
48-71 hours	1.22	0.728	0.39,3.78	
72+ hours	0.18	0.995	0.00,1.38 ^{e+216}	
Duration of water break to birth (0-6 hours baseline)				
6-11 hours	1.39	0.042*	1.013,1.91	
12-23 hours	1.77	0.000***	1.29,2.42	
24-47 hours	2.04	0.000***	1.40,2.97	
48-71 hours	1.70	0.214	0.74,3.87	
72+ hours	0.56	0.994	$0.00, 2.16^{e+67}$	
Duration of Stay in Facility (No stay nominal value)				
<24 hours in health facility	9.40	0.000***	7.66,11.54	
24 hours - <48 hours in health facility	9.73	0.000***	6.75,14.04	
48 hours - < 72 hours in health facility	6.50	0.000***	4.12,10.24	
>72 hours in health facility	0.25	0.000***	0.19,0.34	
PROM (water broke before labor pain)	1.37	0.003**	1.11,1.68	

S	Sample size variation		n = 55,168-58,907	7
Stay in hospital over 1 day		1.81	0.220	0.70,4.64
Stay in hospital 1 day or less		5.38	0.000***	3.80,7.60
No reported stay in hospital		1		••••
Non-facility delivery		0.83	0.033*	0.69,0.98
Non-exclusive breastfeeding		0.96	0.661	0.78,1.17
Exclusive breastfeeding		1	•	••••
Unknown		2.10	0.000***	1.64,2.69
Colostrum discarded		0.83	0.101	0.67,1.04
Colostrum given		1		.,.
Unknown		1.46	0.180	0.84,2.53
Non-sterile substance applied		0.81	0.291	0.55,1.20
No substance applied		0.99	0.957	0.71,1.38
Sterile substance** applied		1	•	•,•
Unclean umbilical binding		1.37	0.001***	1.14,1.64
Not wrapped/unknown		0.63	0.161	0.33,1.21
Wrapped > 60 minutes		1.76	0.054	0.99,3.12
Wrapped 31-60 minutes		1.71	0.164	0.80,3.65
Wrapped 10-30 minutes		0.98	0.867	0.77,1.24
Wrapped < 10 minutes		1		•,•
Unknown		1.38	0.280	0.77,2.47
Vernix cleaned after birth		1.08	0.429	0.90,1.29
Vernix left on after birth		1		.,.
Unknown		1.33	0.643	0.39,4.52
Health worker		0.96	0.654	0.79,1.16
Delivery attendant				
Squatting		1.28	0.439	0.68,2.39
Lying on bed		1.26	0.015*	1.05,1.52
Lying on bare (uncovered) floor		1.38	0.309	0.74,2.58

Exponentiated coefficients: * p < 0.05, ** p < 0.01, *** p < 0.001 *Sterile instrument: sterile delivery kit, unused blade.

**Sterile Substance applied: antiseptic or antibiotic substance.

Web Table 4 - Environmental risk factors – Unadjusted values

	Bacterial Infection		
	Relative Risk	p-value	95% Cred. Int
Respiratory symptoms reported in household	0.99	0.916	0.69,1.40
One or more under-five children	0.78	0.006**	0.65,0.93
Water from a unclean source	0.82	0.142	0.63,1.07
Toilet facilities (flush baseline)			
Latrine/VIP latrine	1.11	0.328	0.90,1.37
Unsanitary or no formal toilet	1.51	0.000^{***}	1.22,1.86
No handwashing station present in home	1.24	0.091	0.97,1.59
Goats, cows, buffaloes live in the house or compound	0.98	0.832	0.83,1.17
Hen, chicken, ducks, geese live in the house or compound	1.14	0.164	0.95,1.37
Other birds live in the house or compound	1.27	0.359	0.76,2.10
Dogs live in the house or compound	1.08	0.535	0.85,1.36
Cats live in the house or compound	1.06	0.599	0.85,1.33
Other animals live in the house or compound	1.25	0.718	0.37,4.27
Any animals in the compound	0.98	0.864	0.81,1.19
Sample size variation		n = 58,370-59	9,687

Exponentiated coefficients: * p < 0.05, ** p < 0.01, *** p < 0.001

Web Table 5 - Demographic risk factors – Unadjusted values

		Bacterial In	fection
	Relative Risk	p-value	95% Cred. Int
Socio-economic status* (Highest SES quintile baseline)			
Fourth SES quintile	1.32	0.070	0.98,1.79
Third SES quintile	1.62	0.001**	1.21,2.17
Second SES quintile	1.66	0.001***	1.25,2.20
First (lowest) SES quintile	1.81	0.000***	1.36,2.39
Maternal Education (No education baseline)			,
Primary incomplete	1.05	0.808	0.73,1.49
Primary complete	1.05	0.741	0.80,1.37
Secondary incomplete	0.82	0.116	0.64,1.05
Above secondary	0.96	0.746	0.75,1.23
Paternal Education (No education baseline)			
Primary incomplete	1.14	0.453	0.81,1.61
Primary complete	1.00	0.975	0.76,1.33
Secondary incomplete	1.06	0.670	0.82,1.36
Above secondary	0.93	0.531	0.75,1.16
Maternal Work (No work baseline)			
Works in home	1.11	0.406	0.87,1.43
Works outside home	1.08	0.691	0.73,1.61
Maternal Decision Making			
Mother not involved in major purchasing decisions	0.91	0.349	0.75,1.11
Mother not involved in household purchase decisions	0.94	0.527	0.78,1.14
Mother not involved in visitation decisions	0.88	0.158	0.73,1.05
Mother not involved in health decisions	0.85	0.074	0.71,1.02
Sample size variation		n = 58,368-	-58,907

Exponentiated coefficients: * p < 0.05, ** p < 0.01, *** p < 0.001 * SES based on site-specific wealth quintile