

Supplementary Tables

Supplementary Table 1: Unweighted distribution of study children according to background characteristics (N=2,533)

Variables	Total (n= 2,533)		Normal Birth Weight (n=2,167)		Low Birth Weight (n=366)	
	Frequency	Percentage (%) *	Frequency	Percentage (%) *	Frequency	Percentage (%) *
Maternal age (years)						
≤20	315	12.4	276	12.7	39	10.7
21-34	1,859	73.4	1,573	72.6	286	78.1
35-49	359	14.2	318	14.7	41	11.2
Sex of child						
Male	1,388	54.8	1,213	56.0	175	47.8
Female	1,145	45.2	954	44.0	191	52.2
Maternal education						
No Education	1,740	68.7	1,473	68.0	267	73.0
Primary	307	12.1	269	12.4	38	10.4
Secondary or above	486	19.2	425	19.6	61	16.7
Maternal occupation						
Not Working	2,284	90.2	1,946	89.8	338	92.3
Working	249	9.8	221	10.2	28	7.7
Preceding birth interval (months)						
First Birth	526	20.8	453	20.9	73	19.9

<24	538	21.2	450	20.8	88	24.0
24-47	1,038	41.0	883	40.7	155	42.3
≥ 48	431	17.0	381	17.6	50	13.7
Parity						
Primipara (1)	526	20.8	453	20.9	73	19.9
Multipara (2-4)	1,090	43.0	915	42.2	175	47.8
Grand Multipara (≥5)	917	36.2	799	36.9	118	32.3
Took iron pill						
Yes	1,703	67.2	1,448	66.8	255	69.7
No	830	32.8	719	33.2	111	30.3
Number of ANC visits						
No (0)	381	15.0	327	15.1	54	14.8
Inadequate (1-3)	1,138	44.9	976	45.0	162	44.2
Adequate (4 or More)	1,014	40.0	864	39.9	150	41.0
Wealth status						
Poorest	272	10.7	206	9.5	66	18.0
Poorer	383	15.1	311	14.4	72	19.7
Middle	450	17.8	390	18.0	60	16.4
Richer	662	26.1	582	26.9	80	21.9
Richest	766	30.2	678	31.2	88	24.0
Place of residence						
Urban	996	39.3	846	39.0	150	41.0
Rural	1,537	60.7	1,321	61.0	216	59.0
Region of residence						
North Eastern	396	15.6	332	15.3	64	17.5

North Western	364	14.4	325	15.0	39	10.7
Central East	244	9.6	225	10.4	19	5.2
Central	734	29.0	612	28.2	122	33.3
Central Western	282	11.1	232	10.7	50	13.7
Southern Eastern	343	13.5	298	13.8	45	12.3
Southern Western	170	6.7	143	6.6	27	7.4

*ANC: Antenatal Care, * Column Percentage*

Supplementary Table 2: Bivariate and multivariable logistic regression (excluding the sex of the child) to identify factors influencing low birth weight in Afghanistan

Variables	COR (95% CI)	AOR (95% CI)²
Maternal age (years)		
≤20	Ref.	
21-34	1.6 (0.8- 3.3)	
35-49	0.8 (0.3- 2.0)	
Maternal education		
No Education	Ref.	Ref.
Primary	0.7 ¹ (0.4- 1.0)	0.5** (0.3-0.8)
Secondary or above	0.6 (0.2 - 1.4)	0.4 (0.1-1.0)
Maternal occupation		
Not Working	Ref.	
Working	0.8 (0.3- 2.0)	
Preceding birth interval (months)		
First Birth	Ref.	Ref.
<24	0.8 (0.4- 1.7)	0.8 (0.3-1.8)
24-47	0.9 (0.5- 1.6)	0.8 (0.5-1.4)
≥ 48	0.5* (0.2- 0.9)	0.3* (0.1-0.8)
Parity		
Primipara	Ref.	
Multipara	0.8 (0.5-1.3)	
Grand multipara	0.8 (0.4-1.6)	
Took iron pill		
Yes	Ref.	Ref.

No	0.7 ¹ (0.4- 1.1)	0.8 (0.5-1.3)
Number of ANC visits		
No visit (0)	Ref.	Ref.
Inadequate (1-3)	1.7 (0.5- 5.3)	2.3 (0.6-9.1)
Adequate (4 or More)	1.6 ¹ (0.8- 3.2)	2.0 (0.8-5.3)
Wealth status		
Poorest	Ref.	Ref.
Poorer	0.6 (0.3- 1.2)	0.5 (0.2-1.1)
Middle	0.6 (0.3- 1.2)	0.5* (0.2-0.9)
Richer	0.5 ¹ (0.2- 1.0)	0.3** (0.1-0.6)
Richest	0.8 (0.3- 1.9)	0.3** (0.1-0.6)
Place of residence		
Urban	Ref.	Ref.
Rural	0.6 ¹ (0.3-1.0)	0.3*** (0.1-0.6)
Region of residence		
North Eastern	Ref.	Ref.
North Western	0.9 (0.5- 1.6)	0.8 (0.5-1.6)
Central East	0.8 (0.4- 1.7)	0.9 (0.5-1.8)
Central	2.5** (1.3- 5.1)	3.1** (1.6-6.2)
Central Western	2.3** (1.2- 4.4)	2.7** (1.4-5.2)
Southern Eastern	1.4 ¹ (0.9- 2.3)	1.7 (0.9-3.1)
Southern Western	1.8 ¹ (1.0- 3.2)	3.9** (1.4-5.2)

1. $p < 0.2$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, ANC: Antenatal care, AOR: Adjusted odds ratio, CI: Confidence interval, COR: Crude odds ratio.

2. Variable with p -value less than <0.2 from unadjusted model were included into multivariable analysis

Supplementary Table 3: Bivariate and multivariable logistic regression to identify factors influencing low birth weight in Afghan male child

Variables	COR (95% CI)	AOR (95% CI)²
Maternal age (years)		
≤20	Ref.	
21-34	1.5 (0.6-3.5)	
35-49	0.6 (0.1-2.8)	
Maternal education		
No Education	Ref.	Ref.
Primary	2.4 ¹ (0.9-6.7)	0.4 (0.1-1.1)
Secondary or above	4.7** (1.5-13.1)	0.2** (0.1-0.5)
Maternal occupation		
Not Working	Ref.	
Working	0.8 (0.3-2.0)	
Preceding birth interval (months)		
First Birth	Ref.	Ref.
<24	2.1 ¹ (0.8-5.8)	0.7 (0.4-1.4)
24-47	1.4 (0.4-5.0)	1.1 (0.6-2.2)
≥ 48	1.3 (0.4-4.2)	0.4 (0.1-1.2)
Parity		
Primipara	Ref.	
Multipara	1.3 (0.6-2.8)	
Grand multipara	1.2 (0.5-2.8)	
Took iron pill		
Yes	Ref.	Ref.

No	1.1 (0.5-2.5)	1.1 (0.5-2.8)
Number of ANC visits		
No visit (0)	Ref.	Ref.
Inadequate (1-3)	0.6 (0.2-1.8)	0.8 (0.2-2.4)
Adequate (4 or More)	0.6 ¹ (0.3-1.2)	0.7 (0.3-1.9)
Wealth status		
Poorest	Ref.	Ref.
Poorer	0.9 (0.3-3.0)	0.4* (0.1-0.9)
Middle	0.6 (0.2-1.5)	0.2*** (0.0-0.4)
Richer	1.2 (0.5-2.9)	0.1*** (0.0-0.3)
Richest	2.3 ¹ (0.8-6.7)	0.1*** (0.0-0.3)
Place of residence		
Urban	Ref.	Ref.
Rural	0.6 ¹ (0.3-1.2)	0.2*** (0.1-0.4)
Region of residence		
North Eastern	Ref.	Ref.
North Western	0.6 (0.3-1.6)	0.7 (0.2-1.8)
Central East	0.7 (0.2-2.5)	1.0 (0.3-3.6)
Central	2.6* (1.1-6.4)	4.5** (1.6-12.4)
Central Western	2.6 ¹ (0.9-6.4)	3.6* (1.3-10.6)
Southern Eastern	2.5* (1.2-5.2)	3.9** (1.5-10.0)
Southern Western	1.7 (0.6-5.0)	3.1 (0.8-11.7)

1. $p < 0.2$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, ANC: Antenatal care, AOR: Adjusted odds ratio, CI: Confidence interval, COR: Crude odds ratio.

2. Variable with p -value less than <0.2 from unadjusted model were included into multivariable analysis

Supplementary Table 4: Bivariate and multivariable logistic regression to identify factors influencing low birth weight in Afghan female child

Variables	COR (95% CI)	AOR (95% CI) ²
Maternal age (years)		
≤20	Ref.	
21-34	1.5 (0.6-4.1)	
35-49	0.9 (0.3-2.7)	
Maternal education		
No Education	Ref.	
Primary	0.8 (0.2-3.9)	
Secondary or above	1.1 (0.4-3.5)	
Maternal occupation		
Not Working	Ref.	
Working	0.8 (0.1-4.2)	
Preceding birth interval (months)		
First Birth	Ref.	Ref.
<24	2.0 ¹ (0.8-5.2)	0.9 (0.4-2.4)
24-47	2.2 ¹ (0.9-5.3)	0.7 (0.3-1.3)
≥ 48	3.4** (1.4-8.3)	0.3** (0.1-0.8)
Parity		
Primipara	Ref.	
Multipara	0.5 (0.3-1.1)	
Grand multipara	0.6 (0.2-1.4)	
Took iron pill		

Yes	Ref.	Ref.
No	0.4*** (0.3-0.6)	0.6* (0.4-0.9)
Number of ANC visits		
No visit (0)	Ref.	Ref.
Inadequate (1-3)	7.0** (2.0-24.5)	7.7* (1.6-36.0)
Adequate (4 or More)	6.7*** (2.7-16.7)	5.7** (1.9-17.1)
Wealth status		
Poorest	Ref.	Ref.
Poorer	0.5 ¹ (0.2-1.2)	0.6 (0.2-1.6)
Middle	0.9 (0.3-2.5)	1.0 (0.4-2.6)
Richer	0.5 ¹ (0.2-1.3)	0.6 (0.3-1.3)
Richest	0.4 (0.3-1.9)	0.5 (0.2-1.7)
Place of residence		
Urban	Ref.	Ref.
Rural	0.5 ¹ (0.3-1.1)	0.5 (0.2-1.0)
Region of residence		
North Eastern	Ref.	Ref.
North Western	1.2 (0.5-2.6)	1.1 (0.5-2.5)
Central East	1.0 (0.4-2.2)	0.8 (0.3-2.0)
Central	2.6* (1.1-6.4)	2.8** (1.2-6.2)
Central Western	2.4* (1.2-4.8)	2.8** (1.4-5.8)
Southern Eastern	0.8 (0.3-1.7)	0. (0.4-2.2)
Southern Western	1.8 ¹ (0.8-4.0)	4.0** (1.4-11.5)

1. $p < 0.2$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, ANC: Antenatal care, AOR: Adjusted odds ratio, CI:

Confidence interval, COR: Crude odds ratio.

2. Variable with p-value less than <0.2 from unadjusted model were included into multivariable analysis