Supplementary table 1: Model for neonatal mortality

Year of survey* Ref 2010 0.8292399 0.7891305 0.7836536 0.7907491 2015-2016 0.781147 0.70905978 0.7551268 0.7907491 2015-2016 0.7581348 0.7581268 0.7581348 2015-2016 0.7581348 2015-2016 0.7581348 2015-2018 </th <th>Variables</th> <th>Stage 1</th> <th>Stage 2</th> <th>Stage 3</th> <th>Stage 4</th>	Variables	Stage 1	Stage 2	Stage 3	Stage 4		
2004-2005 Ref Ref Ref Ref Ref 2010 0.8292399 0.7891305 0.7836536 0.7907491 2015-2016 0.7781147 0.7099597* 0.755126* 0.7488134* Residence type Urban Ref Ref Ref 0.625102* 0.6256033* 0.6131622* Socioeconomic level factor Household wealth index Ref Re	Community level factor	HR (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)		
2010 0.8292399 0.7891305 0.7836536 0.7907491 2015-2016 0.7781147 0.7099597* 0.755126* 0.7488134* Residence type Urban Ref Ref Ref Ref Rural 0.5945386* 0.6625102* 0.6256033* 0.6131622* Socioeconomic level factor Household wealth index Ref Middle 1.231725	Year of survey*						
2015-2016 0,7781147 0,7099597* 0,755126* 0,7488134* Residence type Urban Ref Ref Ref Rural 0,5945386* 0,6625102* 0,6256033* 0,6131622* Socioceonomic level factor Household wealth index Rich Ref Middle 1,231725 Poor 1,275143 Mother's education Socioday or higher Ref Ref Ref Ref Ref Ref Not working status Working Ref O,88399145* 0,7231685 Mother's working status Working Ref Not working status Working Ref Not working Not Workin	2004-2005	Ref	Ref	Ref	Ref		
Residence type Ref Ref Rural 0.5945386* 0.625102* 0.625033* 0.6131622* Socioeconomic level factor Household wealth index Telephone 1.231725 Telephone Telephone Telephone Telephone Telephone Ref No 18619 No 18619 No 29216009 0.8858988 1.018619 No 18619	2010	0.8292399	0.7891305	0.7836536	0.7907491		
Other Ref Ref Rural 0.5945386* 0.6625102* 0.6256033* 0.6131622* Socioeconomic level factor 40.5945386* 0.6625102* 0.6256033* 0.6131622* Household wealth index 8 8 8 6 8 6 8 6 8 9 8 8 10 8 6 8 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 10 8619 9 8 8 10 8 8 10 8 8 10 8	2015-2016	0.7781147	0.7099597*	0.755126*	0.7488134*		
Rural 0.5945386* 0.6625102* 0.6256033* 0.6131622* Socioeconomic level factor Household wealth index Rich Ref Middle 1.231725 Poor 1.275143 Mother's education Secondary or higher Ref Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Working Ref Not working Ref Not working 0.810773 Father's education Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39 Ref Ref < Ref < Ref < Ref Ref Ward Nother's body mass index (MBMI, kg/m2) MBMI > 18.5 Ref Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval 2nd or 3rd child, interval > 2 First child 1.456173* 1.44753*	Residence type						
Socioeconomic level factor Household wealth index Ref Middle	Urban	Ref	Ref				
Household wealth index Rich Ref Middle 1.231725 Poor 1.275143 Mother's education Secondary or higher Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Working Ref Not working 0.810773 Father's education Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39 Ref Ref Ref 20—29 0.968163 0.9741225 40—49 0.768405 0.768405 0.759587 Mother's body mass index (MBMI, kg/m2) MBMI ≤ 18,5 Ref MBMI ≤ 18,5 Ref Wanted pregnancy at the time Wanted then Ref Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval ≥ Ref Ref Ref First child 1.456173* 1.44753*	Rural	0.5945386*	0.6625102*	0.6256033*	0.6131622*		
Rich Ref Middle 1.231725 Poor 1.275143 Mother's education Secondary or higher Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Ref Not working Ref Not working Ref Per working Per working Not Ref Per working Not Ref Ref Ref Ref Not R	Socioeconomic level factor						
Middle 1.231725 Poor 1.275143 Mother's education Ref Ref Ref Secondary or higher Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working Ref No working 0.810773 Primary Primary 0.7597502 Primary No education Ref Primary 0.7597502 Primary No education Ref R	Household wealth index						
Poor 1.275143 Mother's education Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Working Ref Not working 0.810773 Father's education Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39 Ref Ref Ref 29 20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Mother's body mass index (MBMI, kg/m2) Ref Warted then Ref <td row<="" td=""><td>Rich</td><td></td><td>Ref</td><td></td><td></td></td>	<td>Rich</td> <td></td> <td>Ref</td> <td></td> <td></td>	Rich		Ref			
Mother's education Ref No.835988 1.018619 No.8619 No.8259618* 0.7231685 No.855988 1.018619 No.855988 No.855988 No.855988 No.855988 No.8559898 No.855989 Ref Ref Ref Ref Ref Ref Ref Ref No.855988 No.855988 No.855988 No.855988 No.855989 No.855988	Middle		1.231725				
Secondary or higher Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Working Ref Not working 0.810773 ***********************************	Poor		1.275143				
Secondary or higher Ref Ref Ref Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Working Ref Not working 0.810773 ***********************************	Mother's education						
Primary 0.9216009 0.8858988 1.018619 No education 0.6229615* 0.6339145* 0.7231685 Mother's working status Ref Working Ref Secondary or higher Father's education Secondary or higher Ref Primary 0.7597502 Secondary or higher Ref Medication Mother's age (Years) 30—39 Ref Ref Ref Ref Ref Medication 0.968163 0.9741225 40—49 Mother's body mass index (MBMI, kg/m²) Ref MBMI ≤ 18,5 Ref Medication Ref Medication Ref Medication No 800 colspan="2">Ref Medication Ref Ref Ref Ref Ref <th <="" colspan="2" td=""><td>Secondary or higher</td><td></td><td>Ref</td><td>Ref</td><td>Ref</td></th>	<td>Secondary or higher</td> <td></td> <td>Ref</td> <td>Ref</td> <td>Ref</td>		Secondary or higher		Ref	Ref	Ref
Mother's working Ref Not working 0.810773 Father's education Ref Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Ref Ref Mother's age (Years) Ref Ref 30—39 Ref Ref Ref < 20 3.346451* 3.296308* 20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI S 18.5 Ref MBMI S 18.5 Ref MBMI S 18.5 Ref Wanted bared bregnancy at the time Wanted dater 0.8778982 No more 1.225904 Birth rank and birth interval Ref Ref Ref Ref Birth rank and birth interval Ref <	Primary		_	_	_		
Working Ref Not working 0.810773 Father's education Ref Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39 Ref Ref < 20 3.346451* 3.296308* 20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI ≥ 18.5 Ref MBMI ≥ 18,5 Ref MBMI ≥ 48.5 1.028026 Wanted pregnancy at the time Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval Ref Ref Ref Ref Ref First child 1.44753* 1.44753*	No education		0.6229615*	0.6339145*	0.7231685		
Working Ref Not working 0.810773 Father's education Ref Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39 Ref Ref < 20 3.346451* 3.296308* 20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI ≥ 18.5 Ref MBMI ≥ 18,5 Ref MBMI ≥ 48.5 1.028026 Wanted pregnancy at the time Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval Ref Ref Ref Ref Ref First child 1.44753* 1.44753*	Mother's working status						
Not working 0.810773 Father's education Secondary or higher Ref Primary 0.7597502 Primary 0.7597502 Primary 0.81459 Primary 0.81459 Individual level factor Mother's age (Years) Wother's age (Years) Ref Ref Ref Ref Ref Ref Qe3088* 20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI > 18.5 Ref MBMI ≤ 18,5 1.028026 Wanted pregnancy at the time Wanted pregnancy at the time Wanted then Ref Wanted then	Working		Ref				
Father's education Secondary or higher Ref Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) $30-39$ Ref Ref < 20 $3.346451*$ $3.296308*$ $20-29$ 0.968163 0.9741225 $40-49$ 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI > 18.5 Ref MBMI > 18.5 Ref MBMI of the second of the sec	Not working		_				
Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39	Father's education						
Primary 0.7597502 No education 0.81459 Individual level factor Mother's age (Years) 30—39	Secondary or higher		Ref				
Individual level factor Mother's age (Years) Ref Ref 30—39 Ref Ref < 20	Primary		0.7597502				
Mother's age (Years) Ref Ref 30—39 Ref Ref < 20	No education		0.81459				
Mother's age (Years) Ref Ref 30—39 Ref Ref < 20	Individual level factor						
$30-39$ Ref Ref <20 $3.346451*$ $3.296308*$ $20-29$ 0.968163 0.9741225 $40-49$ 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI > 18.5 Ref Ref MBMI \(\frac{1}{2} \), $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Wanted pregnancy at the time $\frac{1}{2}$ \frac	Mother's age (Years)						
20—29 0.968163 0.9741225 40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) MBMI > 18.5 Ref MBMI ≤ 18,5 1.028026 Wanted pregnancy at the time Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval 2nd or 3rd child, interval > 2 Ref Ref First child 1.456173* 1.44753*	30—39			Ref	Ref		
40—49 0.7684305 0.759587 Mother's body mass index (MBMI, kg/m2) Ref MBMI > 18.5 Ref MBMI ≤ 18,5 1.028026 Wanted pregnancy at the time Ref Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval Ref 2nd or 3rd child, interval > 2 Ref Ref First child 1.456173* 1.44753*	< 20			3.346451*	3.296308*		
Mother's body mass index (MBMI, kg/m2)RefMBMI > 18.5 Ref MBMI ≤ 18,5 1.028026 Wanted pregnancy at the timeWanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval2nd or 3rd child, interval > 2 Ref Ref First child $1.456173*$ $1.44753*$	20—29			0.968163	0.9741225		
kg/m2) Ref MBMI > 18.5 1.028026 Wanted pregnancy at the time	40—49			0.7684305	0.759587		
MBMI ≤ 18,5 1.028026 Wanted pregnancy at the time Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval 2nd or 3rd child, interval > 2 Ref Ref First child 1.456173* 1.44753*	Mother's body mass index (MBMI, kg/m2)						
Wanted pregnancy at the time Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval 2nd or 3rd child, interval > 2 Ref Ref First child $1.456173*$ $1.44753*$	MBMI > 18.5			Ref			
Wanted then Ref Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval $2nd$ or $3rd$ child, interval > 2 First child $1.456173*$ $1.44753*$	MBMI ≤ 18,5			1.028026			
Wanted later 0.8778982 No more 1.225904 Birth rank and birth interval 2 2nd or 3rd child, interval > 2 First child $1.456173*$ $1.44753*$	Wanted pregnancy at the time						
No more 1.225904 Birth rank and birth interval $2nd \text{ or } 3rd \text{ child, interval} > 2$ $Ref \qquad Ref$ First child $1.456173* \qquad 1.44753*$	Wanted then			Ref			
Birth rank and birth interval 2nd or 3rd child, interval > 2 First child Ref Ref Ref Ref Ref Ref Ref	Wanted later			0.8778982			
2nd or 3rd child, interval > 2	No more			1.225904			
First child 1.456173* 1.44753*	Birth rank and birth interval						
	2nd or 3rd child, interval > 2			Ref	Ref		
2nd or 3rd child, interval ≤ 2 1.488027* 1.416315	First child			1.456173*	1.44753*		
	2nd or 3rd child, interval ≤ 2			1.488027*	1.416315		

4th or more child, interval > 2	1.077369	1.081848
4th or more child, interval ≤ 2	1.945828*	1.905949*
Sex		
Female	Ref	Ref
Male	1.614066*	1.590322*
Mother's perceived baby size at birth		
Average or larger	Ref	Ref
Small or very small	2.798389*	2.725938*
Healthcare services		
Delivery assistance		
Health professional		Ref
Non-health professional		1.189167
Mode of delivery		
Non-caesarean		Ref
Caesarean section		1.935259*
Place of delivery		
Health facility		Ref
Home		0.7522289

Supplementary table 2: Model for post-neonatal mortality

Variables	Stage 1	Stage 2	Stage 3	Stage 4
Community level factor	HR (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)
Year of survey ⁺	(> - / - / - / - /	(, - , - , - ,	(, - , , ,	(, _ , , ,
2004-2005	Ref	Ref	Ref	Ref
2010	0.6827234*	0.6901141*	0.6640418*	0.6586851*
2015-2016	0.4751844*	0.4668802*	0.4590798*	0.454784*
Residence type				
Urban	Ref			
Rural	1.184483			
Socioeconomic level factor				
Household wealth index				
Rich		Ref		
Middle		0.9528148		
Poor		0.9844441		
Mother's education				
Secondary or higher		Ref		
Primary		1.240005		
No education		1.36806		
Mother's working status				
Working		Ref		
Not working		1.183952		
Father's education				
Secondary or higher		Ref	Ref	Ref
Primary		1.092622	1.073352	1.122373
No education		1.46924*	1.436054*	1.556047*
Individual level factor				
Mother's age (Years)				
30—39			Ref	Ref
< 20			6.228211*	6.510216*
20—29			1.816578*	1.963145*
40—49			1.0038	1.028819
Mother's body mass index (MBMI, kg/m2)				
MBMI > 18.5			Ref	
MBMI ≤ 18,5			0.9182471	
Wanted pregnancy at the time				
Wanted then			Ref	
Wanted later			0.6615135	
No more			1.324899	
Birth rank and birth interval				
2nd or 3rd child, interval > 2			Ref	Ref
First child			0.8223472	0.8232425
2nd or 3rd child, interval ≤ 2			1.288085	1.124177
4th or more child, interval > 2			1.538788*	1.671436*
4th or more child, interval ≤ 2			1.872942*	1.977023*
Sex				

Female	Ref	
Male	0.9694235	
Mother's perceived baby size at birth		
Average or larger	Ref	Ref
Small or very small	1.471389*	1.452677*
Healthcare services		
Delivery assistance		
Health professional		Ref
Non-health professional		1.657962
Mode of delivery		
Non-caesarean		Ref
Caesarean section		1.829793*
Place of delivery		
Health facility		Ref
Home	1.0	0.9486266

Supplementary table 3: Model for infant mortality

Variables	Stage 1	Stage 2	Stage 3	Stage 4
Community level factor	HR (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)
Year of survey ⁺				
2004-2005	Ref	Ref	Ref	Ref
2010	0.7508689*	0.7360093*	0.7148601*	0.7077062*
2015-2016	0.6187352*	0.585274*	0.6219872*	0.6055761*
Residence type				
Urban	Ref	Ref	Ref	Ref
Rural	0.8002898*	0.8779659*	0.7792129*	0.7974976*
Socioeconomic level factor				
Household wealth index				
Rich		Ref		
Middle		1.036619		
Poor		1.054404		
Mother's education				
Secondary or higher		Ref		
Primary		1.018095		
No education		0.9006739		
Mother's working status				
Working		Ref		
Not working		0.9485328		
Father's education				
Secondary or higher		Ref	Ref	
Primary		0.8655531	1.073352	1.122373
No education		1.051592	1.436054*	1.556047*
Individual level factor				
Mother's age (Years)				
30—39			Ref	Ref
< 20			4.24574*	4.466673*
20—29			1.269822	1.340346*
40—49			0.8937569	0.9026748
Mother's body mass index (MBMI, kg/m2)				
MBMI > 18.5			Ref	
MBMI ≤ 18,5			0.9827271	
Wanted pregnancy at the time				
Wanted then			Ref	
Wanted later			0.8090744	
No more			1.211723	
Birth rank and birth interval				
2nd or 3rd child, interval > 2			Ref	Ref
First child			1.125677	1.09573
2nd or 3rd child, interval ≤ 2			1.335934*	1.22894
4th or more child, interval > 2			1.216487	1.294069
4th or more child, interval ≤ 2			1.730086*	1.802716*
Sex				

Female	Ref	Ref
Male	1.235023*	1.21983*
Mother's perceived baby size at birth		
Average or larger	Ref	Ref
Small or very small	2.021688*	2.000901*
Healthcare services		
Delivery assistance		
Health professional		Ref
Non-health professional		1.246857
Mode of delivery		
Non-caesarean		Ref
Caesarean section		1.861039*
Place of delivery		
Health facility		Ref
Home		0.8777461

Supplementary table 4: Model for child mortality

Variables	Stage 1	Stage 2	Stage 3	Stage 4
Community level factor	HR (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)
Year of survey ⁺				
2004-2005	Ref	Ref	Ref	Ref
2010	0.5767911*	0.5504255*	0.5661412*	0.5739472*
2015-2016	0.4874735*	0.4391464*	0.484458*	0.4982022*
Residence type				
Urban	Ref	Ref	Ref	Ref
Rural	0.8714645*	0.6216056*	0.5363797*	0.5518565*
Socioeconomic level factor				
Household wealth index				
Rich		Ref	Ref	Ref
Middle		1.97749*	2.042766*	2.026421*
Poor		2.075108*	2.170546*	2.182932*
Mother's education				
Secondary or higher		Ref	Ref	Ref
Primary		4.224836*	2.43269*	2.472079*
No education		4.697548*	2.57401*	2.678746*
Mother's working status				
Working		Ref		
Not working		0.9053102		
Father's education				
Secondary or higher		Ref		Ref
Primary		1.313482		1.122373
No education		0.9971735		1.556047*
Individual level factor				
Mother's age (Years)				
30—39			Ref	Ref
< 20			1.647962	4.466673*
20—29			1.077591	1.340346*
40—49			1.093788	0.9026748
Mother's body mass index (MBMI, kg/m2)				
MBMI > 18.5			Ref	
$MBMI \le 18,5$			1.066664	
Wanted pregnancy at the time				
Wanted then			Ref	
Wanted later			1.110838	
No more			0.6084769	
Birth rank and birth interval				
2nd or 3rd child, interval > 2			Ref	Ref
First child			1.039231	1.09573
2nd or 3rd child, interval ≤ 2			1.162415	1.22894
4th or more child, interval > 2			1.071771	1.294069
4th or more child, interval ≤ 2			1.194629	1.802716*
Sex				

Female	Ref	Ref
Male	1.132236	1.21983*
Mother's perceived baby size at birth		
Average or larger	Ref	Ref
Small or very small	1.426828	2.000901*
Healthcare services		
Delivery assistance		
Health professional		Ref
Non-health professional		0.8520181
Mode of delivery		
Non-caesarean		Ref
Caesarean section		0.2659233
Place of delivery		
Health facility		Ref
Home		1.193779

Supplementary table 5: Model for under-5 mortality

Variables	Stage 1	Stage 2	Stage 3	Stage 4
Community level factor	HR (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)
Year of survey*				
2004-2005	Ref	Ref	Ref	Ref
2010	0.7066792*	0.6879827*	0.681689*	0.6867292*
2015-2016	0.5808406*	0.5491945*	0.5925562*	0.5988556*
Residence type				
Urban	Ref	Ref	Ref	Ref
Rural	0.8354777*	0.8012982*	0.7919333*	0.7889419*
Socioeconomic level factor				
Household wealth index				
Rich		Ref		
Middle		1.21873		
Poor		1.225496		
Mother's education				
Secondary or higher		Ref	Ref	Ref
Primary		1.31015*	1.405698*	1.379892*
No education		1.265346	1.340043*	1.320781*
Mother's working status				
Working		Ref		
Not working		1.008972		
Father's education				
Secondary or higher		Ref		
Primary		0.9200016		
No education		0.9845557		
Individual level factor				
Mother's age (Years)				
30—39			Ref	
< 20			1.150051	
20—29			0.9601819	
40—49			1.152517	
Mother's body mass index (MBMI, kg/m2)				
MBMI > 18.5			Ref	
$MBMI \le 18,5$			0.9719731	
Wanted pregnancy at the time				
Wanted then			Ref	Ref
Wanted later			0.7698705*	0.7779449*
No more			0.862667	0.8932415
Birth rank and birth interval				
2nd or 3rd child, interval > 2			Ref	Ref
First child			1.365543*	1.385969*
2nd or 3rd child, interval ≤ 2			1.453296*	1.427004*
4th or more child, interval > 2			0.9915921	1.041766
4th or more child, interval ≤ 2			1.528529*	1.582744*
Sex				

Female	Ref	Ref
Male	1.210508*	1.212475*
Mother's perceived baby size at birth		
Average or larger	Ref	Ref
Small or very small	1.903953*	1.900566*
Healthcare services		
Delivery assistance		
Health professional		Ref
Non-health professional		1.187536
Mode of delivery		
Non-caesarean		Ref
Caesarean section		1.465811
Place of delivery		
Health facility		Ref
Home		0.9977666

Supplementary table 6: Distribution of under-five mortality by study factors in Tanzania, 2004–2016 (n=1,585)

Variable	Neonatal n (%)	Post-neonatal n (%)	Infant n (%)	Child n (%)	Under–five n (%)
Year of survey					
2004-2005	226 (36.6)	257 (45.6)	483 (40.9)	187 (46.4)	670 (42.3)
2010	181 (29.3)	168 (29.8)	349 (29.5)	106 (26.4)	455 (28.7)
2015-2016	211 (34.2)	138 (24.6)	350 (29.6)	110 (27.2)	460 (29.0)
Residence type					
Urban	195 (31.5)	104 (18.4)	299 (25.3)	96 (23.9)	395 (24.9)
Rural	424 (68.5)	459 (81.6)	883 (74.7)	307 (76.1)	1190 (75.1)
Household wealth index					
Rich	124 (20.1)	77 (13.6)	201 (17.0)	41 (10.1)	242 (15.2)
Middle	249 (40.2)	217 (38.6)	466 (39.4)	172 (42.6)	638 (40.2)
Poor	246 (39.7)	269 (47.8)	515 (43.6)	191 (47.3)	706 (44.5)
Mother's education					
Secondary or higher	64 (10.4)	27 (4.9)	91 (7.8)	11 (2.6)	102 (6.5)
Primary	439 (71.0)	375 (66.7)	814 (69.0)	280 (69.2)	1094 (69.0)
No education	115 (18.6)	160 (28.4)	275 (23.3)	114 (28.2)	389 (24.5)
Mother's working status					
Not-working	119 (20.4)	64 (11.9)	183 (16.3)	56 (14.6)	239 (15.9)
Working	465 (79.6)	476 (88.1)	941 (83.7)	326 (85.4)	1267 (84.1)
Mother's age (Years)					
30-39	207 (33.5)	171 (30.3)	378 (32.0)	132 (32.6)	510 (32.1)
< 20	59 (9.5)	28 (5.0)	87 (7.3)	17 (4.3)	104 (6.6)
20-29	305 (49.2)	305 (54.3)	610 (51.7)	214 (53.0)	824 (52.0)
40-49 Mother's body mass index (MBMI, kg/m2)	48 (7.8)	58 (10.4)	106 (9.0)	41 (10.2)	147 (9.3)
MBMI > 18.5	570 (92.1)	518 (92.0)	1088 (92.1)	370 (91.6)	1458 (92.0)
MBMI ≤ 18.5	45 (7.3)	37 (6.6)	82 (7.0)	32 (7.8)	114 (7.2)
Wanted pregnancy at the time					
Wanted then	462 (74.8)	447 (79.4)	909 (77.0)	307 (76.0)	1216 (76.7)
Wanted later	116 (18.7)	75 (13.3)	191 (16.1)	84 (20.7)	275 (17.3)
Unwanted	27 (4.3)	24 (4.3)	51 (4.3)	10 (2.5)	61 (3.8)
Father's education					
Secondary or higher	80 (12.9)	38 (6.7)	118 (10.0)	20 (5.0)	138 (8.7)
Primary	378 (61.0)	356 (63.4)	734 (62.1)	296 (73.3)	1030 (65.0)
No education	79 (12.7)	115 (20.4)	194 (16.4)	55 (13.5)	249 (15.7)
Birth rank and birth interval					
2 or 3 child, interval > 2	133 (21.5)	142 (25.3)	275 (23.3)	110 (27.2)	385 (42.3)
First child	212 (34.3)	129 (23.0)	341 (28.9)	92 (22.7)	433 (27.3)
	ζ/	· - · - /	(/	,	

2 or 3 child, interval \leq 2	50 (8.1)	48 (8.5)	98 (8.3)	33 (8.1)	131 (8.2)
4 or more child, interval > 2	151 (24.3)	178 (31.6)	329 (27.8)	129 (32.1)	458 (28.9)
4 or more child, interval ≤ 2	73 (11.8)	66 (11.7)	139 (11.7)	40 (9.9)	179 (11.3)
Child sex					
Female	236 (38.1)	287 (51.1)	523 (44.3)	186 (46.1)	709 (44.7)
Male	383 (61.9)	275 (48.9)	658 (55.7)	218 (53.9)	876 (55.3)
Mother's perceived baby size					
Average or larger	460 (74.3)	482 (85.7)	942 (79.7)	350 (86.6)	1292 (81.5)
Small or very small	131 (21.2)	61 (10.9)	192 (16.3)	47 (11.5)	239 (15.1)
Delivery assistance					
Health professional	209 (33.7)	176 (31.3)	385 (32.6)	127 (31.5)	512 (32.3)
Non-health professional	299 (48.4)	286 (50.8)	585 (49.5)	201 (49.8)	786 (49.6)
Mode of delivery					
Non-caesarean	565 (91.4)	532 (94.6)	1097 (92.9)	396 (98.1)	1493 (94.2)
Caesarean section	54 (8.6)	27 (4.8)	81 (6.8)	7 (1.8)	88 (5.5)
Place of delivery					
Health facility	146 (37.6)	95 (25.4)	241 (31.6)	73 (26.3)	314 (30.2)
Home	228 (58.7)	265 (70.9)	493 (64.7)	201 (72.4)	694 (66.8)

Notes: n (%), number (and percentage of deaths) across variables; (%), proportions did not sum up to 100% due to missing values; A non-health professional may be a traditional birth attendant who is often a woman, who assists the mother during childbirth and who initially acquired her skills by delivering babies herself or by working with other traditional birth attendants.