

Under 10 mortality estimate and causes in Uganda: An analysis of 2005-2015 Iganga-Mayuge Health Demographics and Surveillance Data

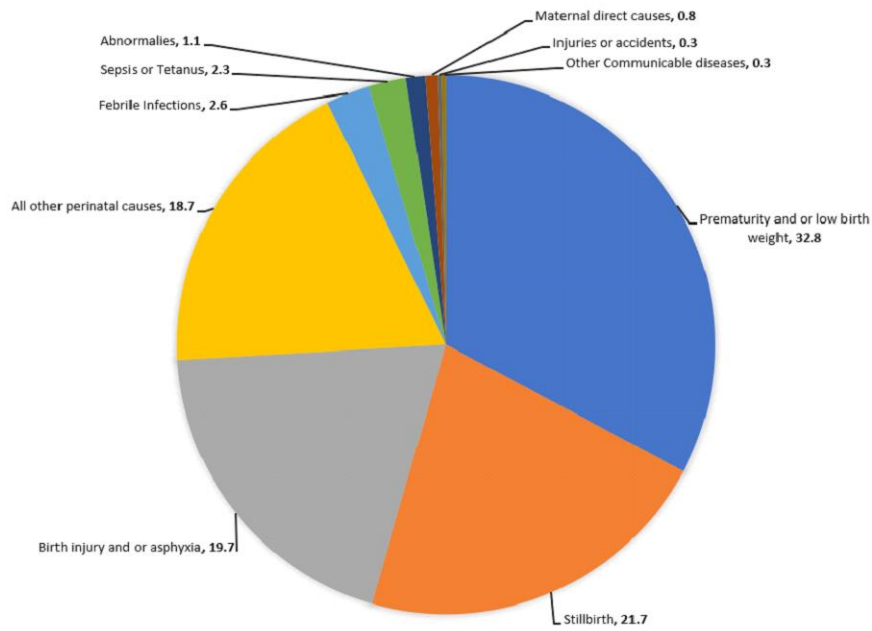
While we know a lot about the under-five mortality, very little is known on age 5-10 years. Additionally, because of limited population follow-up data, there evidence on the mortality mechanisms and patterns for children aged 0-10 years is unclear. We analysed the 2005-2015 population event history data on 22,385 and 1815 verbal autopsy data on neonatal mortality including stillbirths and children aged one month to ten years collected by Iganga-Mayuge health and demographic surveillance site in Uganda. Overall the under-10 mortality probability was 129 per 1000 children. The probability of death per 1000 children was 46.9 among infants, 45 among those aged 1-5 years and 11 among those aged 5-10 years.

Interval	Total (I)	Deaths (d _i)	Lost or Censored (C _i)	Number adjusted for Censoring (N _i)*	Pt	St	Survival probability Cummulative (St)	Person-time	Rate person-years (Per 1000)
Age specific mortality									
[0-1]	22385	946	3308	20731	0.05	0.95	0.95	20181.17	46.88
[1-5]	18131	563	11205	12528.5	0.04	0.96	0.91	45971.65	12.25
[5-10]	6363	38	6104	3311	0.01	0.99	0.90	12151.31	3.13
0-28 days	22385	434	0	22385	0.02	0.98	0.98	22385	19.39
0-10	22385	1547	20835	11967.5	0.13	0.87	0.87	78360.05	19.74
0-5	22385	1509	14513	15128.5	0.10	0.90	0.90	66148.51	22.81
Male									
[0-1]	11192	474	1659	10362.5	0.05	0.95	0.95	10088.47	46.98
[1-5]	9058	296	5620	6248	0.05	0.95	0.91	23020.25	12.86
[5-10]	3145	22	3015	1637.5	0.01	0.99	0.90	5991.049	3.67
0-28 days	11192	211	0	11192	0.02	0.98	0.98	11192	18.85
0-10	11192	792	10399	5992.5	0.13	0.87	0.87	39125.9	20.24
0-5	11192	770	7279	7552.5	0.10	0.90	0.90	33120.95	23.25
Female									
[0-1]	11193	472	1649	10368.5	0.05	0.95	0.95	10092.66	46.77
[1-5]	9073	267	5586	6280	0.04	0.96	0.91	22953.03	11.63
[5-10]	3218	16	3085	1675.5	0.01	0.99	0.91	6155.217	2.60
0-28 days	11193	224	0	11193	0.02	0.98	0.98	11193	20.01
0-10	11193	755	10436	5975	0.13	0.87	0.87	39228.24	19.25
0-5	11193	739	7235	7575.5	0.10	0.90	0.90	33040.02	22.37

The mortality causes among 0-10 were malaria (52%), protein deficiency or malnutrition (20%), diarrhoea (7%) and acute respiratory infections (10%). The mortality causes among neonates were prematurity (33%), stillbirth (22%), birth injury or asphyxia (22%) and other perinatal causes (19%). Of the stillbirths and LBW, at least 80% occurred among mothers who had experienced morbidity in pregnancy.

Figure 1: Causes of neonatal and child mortality using verbal autopsy data

A: New-born mortality (0-27 days)



B: Child mortality (1 month-9 years)

