

Tann et al, BMC Preg Childbirth, 2007	Use of antenatal services and delivery care in Entebbe, Uganda: a community survey	cross-sectional retrospective community survey							NA	NA	N/A			NA		N/A	NA		Good
Sanni et al, Int Health, 2018	Factors associated with maternal utilization of health facilities for delivery in Ethiopia	Cross-sectional ; 2011 DHS							NA	NA	N/A			NA		N/A	NA		Good
Ngandu et al, BMJ Open, 2017	Wealth-related inequality in early uptake of HIV testing among pregnant women: an analysis of data from a national cross-	Cross-sectional survey, 2012 PMTCT programme							N/A	N/A	N/A			NA		N/A	NA		Good

Mekonnen & Mekonnen, J Health Popul Nutr, 2003	Factors Influencing the Use of Maternal Healthcare Services in Ethiopia	2000 Ethiopia Demographic and Health Survey						NA	NA	NA		NA		N/A	NA		Fair
Owiti et al, Pan African Medical Journal, 2018	Utilization of Kenya's free maternal health services among women living in Kibera slums: a cross-sectional study	Cross-sectional						NA	NA			NA		N/A	NA		Good
Adewuyi et al, PLOS ONE, 2018	Prevalence and factors associated with underutilization of antenatal care services in Nigeria: A	2013 Nigeria Demographic and Health Survey						NA	NA	NA		NA		N/A	NA		Good

Machira and Palamuleni, Journal of Egypt Public Health Association, 2017	The factors associated with women's use of postpartum care services in urban areas as compared with the rural areas in Malawi.	2010 Malawi Demographic and Health Survey data which is the national representative survey of women in the reproductive age between 15 and 49 years.							N/A	N/A	N/A		NA		N/A	NA			Good
Engodi et al, IJEH, 2015	Determinants of immunization inequality among urban poor children: evidence from Nairobi's informal settlements	Nairobi Cross-Sectional Slum Survey of 2012					NR	N/A	N/A	N/A	NR	N/A	NR	N/A	NA				Fair

Phiri et al, BMC Preg Childbirth, 2014	Factors associated with health facility childbirth in districts of Kenya, Tanzania and Zambia: a population based survey	A population-based survey in 2007							N/A	N/A	N/A		N/A		N/A	NA			Fair
Fotso, Ezeh & Oranje; Journal of Urban Health, 2008	Describe the provision of obstetric care in the Nairobi informal settlements; (2) describe the patterns of antenatal and delivery care, notably in terms of	Cross-sectional							N/A	N/A	N/A	NR	N/A	NR	N/A	NA			Good

	pregnant refugee women and local South African pregnant women																
Aidam et al EJCN, 2005	Assess factors associated with exclusive breastfeeding (EBF) in Accra, Ghana	Cross-sectional					NR	N/A	CD	N/A		N/A		N/A	N/A		Fair
Bellows et al, Health Policy Plan, 2012	Measure the association between the introduction of an output-based voucher programme and the odds of a facility-based delivery in two Nairobi informal	Cross-sectional analysis of the 2004 - 2005 & 2006-2008 NUDHS S data					RNR	N/A	N/A	N/A		N/A		N/A	N/A		Fair

	settlements.																
Olusanya, Alakija, Inem, J Biosc Sci, 2010	Establish the pattern and uptake of maternity services and associated factors against the backdrop of rapid urbanization in Nigeria.	Cross-sectional					N/R**	N/A	N/A	N/A		N/A		N/A	N/A		Good
Rossier et al, Global Health Action, 2014	To assess MH utilization in Nairobi and Ouagadougou	Cross-sectional analysis of 2009 - 2011 HDSS data					NR	N/A	N/A	N/A		N/A		N/A	N/A		Good
Belayneh, Adefris and Andargie, 2014	Assess timing of ANC booking and associated factors	Hospital-based cross-sectional study						N/A	N/A	N/A		N/A		N/A	N/A		Fair

	among pregnant women attending ANC clinic at University of Gondar Hospital, 2013															
Babirye et al, BMC Health Services Research 2014	Urban settings do not ensure access to services: findings from the immunisation programme in Kampala Uganda	Mixed methods approach (quantitative and Qualitative collected)						N/A	N/A	N/A		N/A		N/A	N/A	Good
Fatiregun et al, Vaccine, 2011	Maternal determinants of complete child immunization among children aged 12–23 months in a southern	A cross sectional study design						N/A	N/A	N/A		N/A		N/A	N/A	Good

	district of Nigeria																
Idowu et al., Ethiopian journal of health sciences, 2017	Determinants of Skilled Care Utilization among Pregnant Women Residents in an Urban Community in Kwara State, Northcentral Nigeria	A cross sectional study design						N/A	N/A	N/A			N/A				Good
Demilew, BMC Res Notes, 2017	Factors associated with mothers' knowledge on infant and young child feeding recommendation in slum areas of Bahir	A cross sectional study design						N/A	N/A	N/A			N/A				Good

Sasaki et al, Tropical Medicine and International Health, 2010	Access to a health facility and care-seeking for danger signs in children: before and after a community-based intervention in Lusaka, Zambia	Repeated Cross-sectional design						NR	N/A	N/A	N/A				N/A	N/A		Good
Westheimer et al, Journal of Acquired Immune Deficiency Syndrome, 2004	Acceptance of HIV Testing Among Pregnant Women in Dar-es-Salaam, Tanzania	Cross-sectional design						NR	N/A	N/A	N/A		N/A		N/A	N/A		Good
Nwame et al, Maternal Child Health Journal, 2013	Compliance with Emergency Obstetric Care Referrals Among Pregnant Women	Cross-sectional study							N/A	N/A	N/A		N/A		N/A	N/A		Fair

	in an Urban Informal Settlement of Accra, Ghana																		
Asundep et al, Journal of Epidemiology and Global Health, 2013	Determinants of access to antenatal care and birth outcomes in Kumasi, Ghana	Cross-sectional study					NR	N/A	N/A	N/A		N/A		N/A	N/A				Good
Sasaki et al, J Epidemiol & Comm Health, 2019	To examine the association between immunisation coverage and distance to an immunisation service as well as socio-demographic and economic	Repeated cross-sectional surveys					NR			N/A				N/A					Good

Jennings et al., Maternal and Child Health Journal 2017	Association of Household Savings and Expected Future Means with Delivery Using a Skilled Birth Attendant in Ghana and Nigeria: A Cross-Sectional Analysis	A multi-country longitudinal study							N/A	N/A	N/A			N/A		N/A	N/A		Good
Kimani-Murage et al, Int J Dohad, 2016	Determine potential effectiveness of the national Community Health Strategy involving home-based counselling visits by	A quasi-experimental study. Data from a longitudinal observational study														N/A	N/A		Good

	CHWs on EBF															
Fotso, Ezeh & Esendi, 2009, Rep Health	Maternal health in resource-poor urban settings: how does women's autonomy influence the utilization of obstetric care services	Cross-sectional						N/A	N/A	N/A						Good
Govender, SA Fam Practice, 2018	Obstetric outcomes and antenatal access among adolescent pregnancies in KwaZulu-Natal, South Africa	Mixed methods					NR	N/A	N/A	N/A		N/A				Fair

Supplementary Table 2: Qualitative approach

Author, journal, year	Study aim/title of study	Design/Data source (Cross-sectional (quanti/quali), longitudinal, prospective, retrospective (including health facilities record review), secondary analysis of data, case-control, RCT, survey (DHS, SPA, MICs ect)	Was there clear statement of aims of the research?	Is the qualitative methodology appropriate?	Was the research design appropriate to address aims of the research?	Was the recruitment strategy appropriate to the aims of the research?	Was the data collected in a way that addresses the research issue?	Has the relationship between researcher and participants been adequately considered?	Has ethical issues been taken into consideration?	Was the data analysis sufficiently rigorous?	Is there a clear statement of findings?	How valuable is the research?	Quality rating
Ndimbii et al, Sexual & Reproductive Healthcare, 2018	Access and utilisation of reproductive, maternal, neonatal and child health services among women who inject drugs in coastal Kenya	Qualitative focus group discussion and indepth interviews											Good
Kimani-Murage et al, Mat Child Health, 2015	Investigates the factors that contribute to poor breastfeeding practices in two urban slums in Nairobi, Kenya, using	Qualitative: 19 in-depth interviews (IDIs), 10 focus group discussions (FGDs) and 11 key informant interviews (KIIs) in April 2012											Good

