

Supplementary file IV: Table of included studies

Study	Purpose	Study design	Participants and sample size
Aregawi HG, Gebrehiwot TG et al, 2017 ¹⁸	To identify the determinants of defaulting from child immunization completion among children aged 9-23 months in the Laelay Adiabo District, North Ethiopia.	Case-control	270 children aged 9-23 months <ul style="list-style-type: none"> • 90 cases and • 180 controls
Godefay H, Byass P et al, 2015 ¹⁹	To characterize individual risk factors for maternal mortality in Tigray, Ethiopia.	Case-control	The sample size was 310 <ul style="list-style-type: none"> • 62 cases and • 248 controls from six randomly-selected rural districts
Zepre K and Kaba M, 2017 ²²	To assess the current BPCR practice and determine associated factors among rural women of reproductive age in Abeshige district, Guraghe zone, SNNPR, Ethiopia	Cross-sectional	454 women who delivered within 12 months prior to this survey
Negero MG. et al, 2018 ²⁰	To assess Skilled delivery service utilization and its association with the establishment of Women's Health Development army	Cross-sectional	748 reproductive-age women who gave birth in 1 year preceding the study in 380 clusters of WDA were included
Girmaye M. and Berhan Y. ²¹	To assess Skilled ANC service utilization and its association with the establishment of	Cross-sectional	748 reproductive-age women who gave birth in 1 year preceding the study

	Women's Health Development army		
Jackson R. and Hailemariam A., 2016 ²³	To examine the barriers and facilitators for HEWs as they refer women to mid-level health facilities for birth.	Qualitative	45 HEWs, 14 women extension workers (employed by Afar Pastoralist Development Association, Afar Region) and 11 other health workers from health centers, hospitals or health offices.
Jackson R. Tesfay FH. et al, 2017 ²⁴	To document factors that hinder or enable strategies to reduce the first and second delays of the Three Delays in rural and pastoralist areas in Ethiopia	Qualitative	A key informant study was conducted with 44 HEWs in Afar, SNNP, and Tigray Regions
Jackson R. Tesfay FH. et al, 2016 ²⁵	To explored HEWs' and mother's attitudes to maternal health services in Adwa Woreda, Tigray Region.	Qualitative	45 women were interviewed
Kok MC. et al., 2015 ²⁶	To understand how relationships between HEWs, the community and health sector were shaped, in order to inform policy on optimizing HEW performance in providing maternal health services.	Qualitative	14 FGDs with HEWs, women and men from the community and 44 semi-structured interviews with HEWs; key informants working in program management, health service delivery and supervision of HEWs; mothers; and traditional birth attendants.
