

**Additional File 4: Reference list of studies with a multidimensional assessment of male involvement***Table 1 Overview of the studies using a multidimensional assessment (at least three indicators) of male involvement, based on data from men and women directly*

ID	title	First author name	year	country	design	topic
6	Abortion risk and decisionmaking among young people in urban Cameroon.	Calves A.	2002	Cameroon	cross sectional studies	Abortion
22	Assessing Determinants of Father's Involvement with His partner's Pregnancy and His Child's Well-being: The Father Resources Survey Instrument	Cubbins C.	2018	US	Scale or Questionnaire development	PSH
25	Assessment of the level of male involvement in safe motherhood in southern Nigeria	Nwakwuo C. G.	2013	Nigeria	cross sectional studies	MNH
40	Child gender and father involvement in fragile families	Lundberg S.	2007	US	Cohort Studies	PSH
82	Explaining the Long Reach of Fathers' Prenatal Involvement on Later Paternal Engagement	Cabrera N.J.	2008	US	Cohort studies	PSH
89	Factors associated with male partner involvement in programs for the prevention of mother-to-child transmission of HIV in rural South Africa	Matseke M. G.	2017	South Africa	cross sectional studies	PMTCT
97	Father Early Engagement Behaviors and Infant Low Birth Weight	Lee S.J.	2018	US	Cohort studies	MNH
100	Father involvement, child health and maternal health behavior	Teitler J. O.	2001	US	cross sectional studies	MNH
101	Fathers' emotional involvement with the neonate Impact of the umbilical cord cutting experience	Brandão S.	2012	Portugal	Quasi experimental	PSH
116	Impact of male partner involvement on mother-to-child transmission of HIV and HIV-free survival among HIV-exposed infants in rural South Africa: Results from a two phase randomised controlled trial	Sifunda S.	2019	South-Africa	experimental	PMTCT
119	Improving PMTCT Uptake in Rural South Africa	Weiss S. M;	2014	South Africa	experimental	PMTCT
135	Knowledge, Perception and Level of Male Partner Involvement in Choice of Delivery Site among Couples at Coast Level Five Hospital, Mombasa County, Kenya	Onchong'a J.M.	2016	Kenya	cross sectional studies	MNH
137	Level of males' participation during perinatal period in rural areas of district layyah	Ishtiaq M.	2016	Pakistan	cross sectional studies	MNH

139	Male and female involvement in the birth and child-rearing process	Maroto-Navarro G.	2013	Spain	cross sectional studies	MNH
146	Male involvement in maternal healthcare as a determinant of utilisation of skilled birth attendants in kenya	Mangeni J. N.	2012	Kenya	cross sectional studies	MNH
166	Measuring parents' experiences and satisfaction with care during very preterm birth: a questionnaire development study	Sawyer A.	2014	UK	Scale	PSH
168	Men in maternal care evidence from India	Chattopadhyay R.	2012	India	cross sectional studies	MNH
208	Possible selves and prenatal father involvement	Adamsons K.	2013	US	cross sectional studies	MNH
247	Stress and anxiety in relation to amniocentesis do women who perceive their partners to be more involved in pregnancy feel less stressed and anxious	Brajenović-Milić B.	2010	Croatia	cross sectional studies	PSH
248	Suami SIAGA: male engagement in maternal health in Indonesia.	Kurniati A.	2017	Indonesia	cross sectional studies	MNH
260	The Effects of Father Involvement during Pregnancy on Receipt of Prenatal Care and Maternal Smoking	Martin L. T.	2007	US	Cohort Studies	MNH
277	What do women want? An analysis of preferences of women, involvement of men, and decision-making in maternal and newborn health care in rural Bangladesh	Rahman A. E.	2020	Bangladesh	cross sectional studies	MNH
105	Gender-transformative Bandebereho couples' intervention to promote male engagement in reproductive and maternal health and violence prevention in Rwanda: Findings from a randomized controlled trial.	Doyle K.	2018	Rwanda	Quasi experimental	MNH
101	Fathers' emotional involvement with the neonate Impact of the umbilical cord cutting experience	Brandão S.	2012	Portugal	cross sectional studies	MNH
134	Knowledge and involvement of husbands in maternal and newborn health in rural Bangladesh	Rahman A. E.	2018	Bangladesh	cross sectional studies	MNH
169	Men's Involvement in Safe Motherhood	Okechukwu E.	2007	Nigeria	cross sectional studies	MNH