12.6. EVIDENCE BASE: Should MIDWIVES perform vasectomy?

Problem: Poor access to contraception **Option:** Midwives performing vasectomy **Comparison:** Care delivered by other cadres or no care **Setting:** Community/primary health care settings in LMICs with poor access to health professionals

CRITERIA		JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
	Are the anticipated desirable effects large?	No Probably Uncertain Probably Yes Varies no yes	A systematic review (Polus 2012a) searched for studies that assessed the effects and safety of task shifting for family planning delivery in low and middle income countries. Another systematic review searched for studies that assessed the effects of midlevel providers, including midwives, in improving the delivery of health care services (Lassi 2012). Neither of these reviews identified any studies that assessed the effects of midwives performing vasectomies. We are therefore unable to draw any conclusions about the desirable or undesirable effects of this intervention.	
THE OPTIONS	Are the anticipated undesirable effects small?	No Probably Uncertain Probably Yes Varies no yes		
BENEFITS & HARMS OF	What is the certainty of the anticipated effects?	Very Low Moderate High No low Content of the second	Indirect evidence: One of these reviews(Polus 2012a) identified one study from Thailand where the effects of <u>postpartum tubal ligation</u> performed by <u>midwives</u> was compared to the same intervention performed by doctors. This study shows that there is little or no difference between midwives and doctors with regard to complications during surgery or postoperative morbidity.	
BENE	Are the desirable effects large relative to the undesirable effects?	No Probably Uncertain Probably Yes Varies no yes	Annex: page 62 (Polus 2012a – Table 3)	
			Main resource requirements	
	Are the resources	No Probably Uncertain Probably Yes Varies no yes	Resource Settings in which midwives already provide other care	
RCE USE			TrainingPractice-based training in vasectomy techniques. Midwives are not normally trained in surgical techniques during their graduate studies. Training needs may therefore be relatively substantial	
RESOURCE	required small?		Supervision and monitoring Regular supervision by senior midwife or doctor	
RE			Supplies Surgical instruments, antiseptic solution, local anaesthetic, suture material, surgical facility, resuscitation equipment	
			Referral To a referral centre for failed ligations/vasectomies and / or complications	

World Health Organization WHO Recommendations for Optimizing Health Worker Roles to Improve Access to Key Maternal and Newborn Health Interventions through Task Shifting

	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
	Is the incremental cost small relative to the benefits?	No Probably Uncertain Probably Yes Varies no yes	Uncertain as there is insufficient evidence on effectiveness	
ACCEPTABILITY	Is the option acceptable to most stakeholders?	No Probably Uncertain Probably Yes Varies no yes D D D D D D D	 A systematic review of task-shifting in midwifery programmes (Colvin 2012) did not identify any studies that evaluated the acceptability of vasectomy when performed by midwives. We are therefore uncertain about the acceptability of this intervention to key stakeholders. Indirect evidence: For <u>other midwife-delivered interventions</u>, the same review suggests the following: Midwives and their supervisors and trainers generally felt midwives had no problem learning new medical information and practicing new clinical techniques (moderate certainty evidence). Midwives may also be motivated by being "upskilled" as it can potentially lead to increased status, promotion opportunities and increased job satisfaction (moderate certainty evidence). However, midwives may be unwilling to take on tasks that requires them to move beyond obstetric care, such as tasks related to family planning and sexual health, possibly because this is not viewed as part of their role and may entail an increased workload (moderate certainty evidence) Doctors may be skeptical about the extension of midwifery roles in obstetric care, although doctors who worked closely with midwives tended to have better attitudes towards them (low certainty evidence) A lack of clarity in roles and responsibilities between midwives and other health worker cadres, as well as status and power differences may also lead to poor working relationships and 'turf battles' (moderate certainty evidence). A review of country case studies of task shifting for family planning (Polus 2012b), which mainly included <u>LHW programmes</u>, suggests that some health workers may introduce their own criteria when determining who should receive contraceptives, including criteria tied to the recipient's marital status and age. Other factors that may affect the uptake of the intervention are primarily tied to the contraceptives themselves rather than the use of specific types of health workers, including a lack of kn	
FEASIBILITY	Is the option feasible to implement?	No Probably Uncertain Probably Yes Varies no yes □ □ □ □ □	The interventions require relatively well-equipped facilities, including access to surgical instruments, surgical facility and resuscitation equipment. In addition, changes to norms or regulations may be needed to allow midwives to perform vasectomy. Training and regular supervision is also needed, and adequate referral to a higher level of care for further management may be necessary. However, a systematic review (Colvin 2012) suggests that ongoing support, training and supervision was often insufficient in midwife taskshifting programmes (moderate certainty evidence). Annex: page 20 (Colvin 2012)	