12.6. RECOMMENDATION:
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

Recommendation	*We recommend against the option*	***We suggest considering the option only in the context of rigorous research***	*We recommend the option*
	☐	☑	☐
	We suggest considering this option only in the context of rigorous research. Implementation in the context of research should be done where: - A well-functioning midwife programme already exists - A well-functioning referral system is in place or can be put in place		
Justification	There is insufficient evidence on the effectiveness of this intervention. However, this intervention may be a cost-effective, acceptable and feasible approach to contraception and may also reduce inequalities by extending care to underserved populations.		
Implementation considerations	Not applicable		
Monitoring and evaluation			
Research priorities	Studies to assess the effects and acceptability of midwives performing vasectomy are needed		

12.6. EVIDENCE BASE:

Should MIDWIVES perform vasectomy?

***Problem**:* Poor access to contraception
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	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
BENEFITS & HARMS OF THE OPTIONS	**Are the anticipated desirable effects large?**	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐	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.** **Indirect evidence**: One of these reviews(Polus 2012a) identified one study from Thailand where the effects of postpartum tubal ligation performed by midwives 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. **Annex:** page 62 (Polus 2012a – Table 3)	
	Are the anticipated undesirable effects small?	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐		
	What is the certainty of the anticipated effects?	*Very low* ☐ *Low* ☐ *Moderate* ☐ *High* ☐ *No direct evidence* ☑ *Varies* ☐		
	Are the desirable effects large relative to the undesirable effects?	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐		
RESOURCE USE	**Are the resources required small?**	*No* ☐ *Probably no* ☑ *Uncertain* ☐ *Probably yes* ☐ *Yes* ☐ *Varies* ☐	***Main resource requirements***	

Resource	Settings in which midwives already provide other care
Training	Practice-based training in vasectomy techniques. Midwives are not normally trained in surgical techniques during their graduate studies. Training needs may therefore be relatively substantial
Supervision and monitoring	Regular supervision by senior midwife or doctor
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

	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
	Is the incremental cost small relative to the benefits?	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐	Uncertain as there is insufficient evidence on effectiveness	
ACCEPTABILITY	**Is the option acceptable to most stakeholders?**	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐	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 other midwife-delivered interventions, 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 LHW programmes, 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 knowledge about different methods of contraception; religious and other beliefs regarding family planning; a fear of side effects, service fees. **Annex**: page 20 (Colvin 2012); page 63 (Polus 2012b)	
FEASIBILITY	**Is the option feasible to implement?**	*No* ☐ *Probably no* ☐ *Uncertain* ☑ *Probably yes* ☐ *Yes* ☐ *Varies* ☐	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)	