

12.5. EVIDENCE BASE:

Should NURSES perform tubal ligation (post-partum and interval)?

Problem: Poor access to contraception Option: Nurses performing tubal ligation

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	
BENEFITS & HARMS OF THE OPTIONS	Are the anticipated desirable effects large?	No Probably Uncertain Probably Yes Varies No yes	planning delivery in low effects of nurse-led prir these reviews identifier	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 nurse-led primary care compared to care that was given by primary care doctors (Laurant 2012). However, none of these reviews identified any studies that specifically assessed the effects of nurses performing tubal ligation. We are			
	Are the anticipated undesirable effects small?	No Probably Uncertain Probably Yes Varies No yes □ □ □ □	Indirect evidence: One postpartumtubal ligation shows that there may be	Indirect evidence: One of these reviews (Polus 2012a) identified one study from Thailand where the effects of postpartumtubal ligation performed by midwives was compared to the same intervention performed by doctors. This study shows that there may be little or no difference between midwives and doctors with regard to complications during surgery or			
	What is the certainty of	Very Low Moderate High No direct Varies	postoperative morbidity (low certainty evidence). While the midwives spent more time performing the operation,this difference was not clinically important (moderate certainty evidence).				
	the anticipated	low	Outcomes	Impacts	Certainty of the anticipated effect		
	effects?		Length of operation	Midwives probably spend more time than doctors, but the difference is not clinically important	Moderate		
	Are the desirable effects large relative to the undesirable effects?		Complications during surgery	There may be little or no difference between midwives and doctors	⊕⊕○○ Low		
		the e	Postoperative morbidity	There may be little or no difference between midwives and doctors	⊕⊕○○ Low		
			Annex: page 62 (Polus	s 2012a – Table 3)			



			Main resource requirements		
	resources required		Resource Settings in which nurses already provide other care		
RCE USE		No Probably Uncertain Probably Yes Varies no yes	Training Practice-based training in tubal ligation techniques. Nurses are not normally trained in surgical techniques during their graduate studies. Training needs may therefore be relatively substantial		
SOUR			Supervision and monitoring Regular supervision by senior midwife or doctor		
RE			Supplies Surgical instruments, local anaesthetic, suture material, surgical facility / theatre, resuscitation equipment		
			Referral To a referral centre for failed ligations and / or complications		
	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. Indirect evidence from the review referred to above (Laurant 2012) suggests that, compared to doctor-led care: Overall, studies showed lower costs for nurse-led care Consultation length was longer for nurses For the frequency of consultations, results were mixed For most studies there were no differences in the use of healthcare services and prescriptions		



ACCEPTABILITY	Is the option acceptable to most stakeholders?	No 🗀	Probably no	Uncertain	Probably yes	Yes Varies	A systematic review of doctor-nurse substitution (Rashidian 2012) did not identify any studies that evaluated the acceptability of tubal ligation when performed by nurses. We are therefore uncertain about the acceptability of this intervention to key stakeholders. Indirect evidence: For other maternal and child health interventions, the same review suggests that: Nurses may be motivated to offer advanced care by increased recognition and job satisfaction (moderate certainty evidence). Recipients may regard nurses as more accessible and better at listening and caring than doctors (moderate certainty evidence). However, some recipients may have concerns about nurses' competence and willingness to provide high quality care compared to doctors (low certainty evidence). In addition, for tasks that are more "medical" in nature, recipients may prefer doctors over nurses (low certainty evidence). Doctors were generally satisfied with the contribution of nurses to maternal and child health care, although some concerns were raised (low certainty evidence). Doctors may welcome the contribution of nurses where it reduces doctors' workloads (moderate certainty evidence). Doctors may welcome the contribution of nurses experience (low certainty evidence). However, an increase in nurse autonomy may negatively affect other professions or produce negative reactions among these professions, including doctors and midwives, who for instance may be unwilling to relinquish final responsibility for patient care. A lack of clarity about nurse roles and responsibilities in relation to other health workers may also be a challenge (low 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	
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 / theatre and resuscitation equipment. In addition, changes to norms or regulations may be needed to allow nurses to perform tubal ligation. 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 (Rashidian 2012) suggests that nurses may be unprepared or not adequately trained or supervised when they are given advanced and substitution roles (low certainty). Annex: page 43 (Rashidian 2012)	