

## 11.1, 11.2 and 11.3. RECOMMENDATION:

Should AUXILIARY NURSE MIDWIVES (a) administer intravenous fluid for resuscitation as part of postpartum haemorrhage treatment, (b) perform internal bimanual uterine compression for postpartum hameorrhage, and (c) perform suturing for minor perineal / genital lacerations?

**Problem**: Poor access to treatment for post-partum haemorrhage

**Option**: Auxiliary nurse midwives delivering a range of interventions to treat

haemorrhage

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 with targeted monitoring and evaluation	We recommend the option		
			$\overline{\mathbf{Q}}$		
		interventions where auxiliary nurse midwives are already an establis ed in the context of the WHO PPH guidelines, which outline a compr	hed cadre and where a well-functioning referral system is in place or ehensive approach to managing PPH.		
Justification		urse midwives delivering these interventions. However, the panel con oly feasible and may also reduce inequalities by extending care to un			
Implementation considerations	The following should be considered when using auxiliary nurse midwives to (a) administer intravenous fluid for resuscitation, (b) perform internal bimanual uterine compression, and (c) suture genital lacerations:				
	<ul> <li>The distribution of roles and responsibilities between</li> <li>Changes in regulations may be necessary to support</li> <li>Implementation needs to be in the context of a comp tasks but not for others may negatively affect the work</li> </ul>	logistical (e.g. transport) and relational barriers need to be addressed secure supervision needs to be regular and supportive	e clear, including through regulations and job descriptions ct any changes in scope of practice. Giving incentives for certain		
Monitoring and evaluation	-				
Research priorities	-				



## 11.1, 11.2 and 11.3. EVIDENCE BASE:

Should AUXILIARY NURSE MIDWIVES (a) administer intravenous fluid for resuscitation as part of postpartum haemorrhage treatment, (b) perform internal bimanual uterine compression for postpartum haemorrhage, and (c) perform suturing for minor perineal / genital lacerations?

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	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	A systematic review searched for studies that assessed the effects of midlevel providers, including auxiliary nurse midwives, in improving the delivery of health care services (Lassi 2012). However, this review did not identify any studies that assessed the effects of using auxiliary nurse midwives for this intervention. We are therefore unable to draw any conclusions about the desirable or undesirable effects of this intervention.		
	Are the anticipated undesirable effects small?	No Probably Uncertain Probably Yes Varies no yes			
	What is the certainty of the anticipated effects?	Very Low Moderate High No direct   Varies   low   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			
	Are the desirable effects large relative to the undesirable effects?	No Probably Uncertain Probably Yes Varies no yes			
	Are the resources required small?		Main resource requirements		
RESOURCE USE			Resource	Settings in which auxiliary nurse midwives already provide other care	
		No Probably Uncertain Probably Yes Varies	Training	3-4 weeks training in emergency obstetric care	
			Supervision and monitoring	Regular supervision by midwife or nurse	
			Supplies	IV fluids and sets, sutures, antiseptic solution	
			Referral	Transportation to a centre where comprehensive emergency obstetric care (CeMOC) is available	



	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 no direct evidence on effectiveness	
ACCEPTABILITY	Is the option acceptable to most stakeholders?	No Probably Uncertain Probably Yes Varies No yes	We are not aware of any systematic reviews that considered the acceptability of auxiliary nurse midwife interventions. We are therefore uncertain about the acceptability of this intervention to key stakeholders.  Indirect evidence: One systematic review (Rashidian 2012) explored factors that influence the success of task-shifting to nurses. This review suggests that:  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)  Nurses themselves may be motivated to offer advanced care by increased recognition and job satisfaction (moderate 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). Doctor acceptance appears to be influenced by level of nurse experience (low certainty evidence). Doctors may welcome the contribution of nurses where it reduces doctors' workloads (moderate certainty evidence). However, an increase in nurse autonomy may negatively affect or produce negative reactions among other professions, including doctors and midwives, who for instance may be unwilling 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).  Annex: page 43 (Rashidian 2012)	
FFASIBILITY	Is the option feasible to implement?	No Probably Uncertain Probably Yes Varies No yes	These interventions require some supplies. Adequate referral to a higher level of care for further management may be necessary. In addition, these interventions are likely to require changes to norms or regulations. Some training and supervision is needed. However, systematic reviews of lay health worker, nurse and midwife programmes suggest that sufficient training and supervision is often lacking (Glenton, Colvin 2012; Rashidian 2012; Colvin 2012).  Annex: page 26 (Glenton, Colvin 2012); page 20 (Colvin 2012); page 43 (Rashidian 2012)	