

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?

**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

CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES										
BENEFITS & HARMS OF THE OPTIONS	<p>Are the anticipated desirable effects large?</p> <p>No <input type="checkbox"/> Probably no <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> Probably yes <input type="checkbox"/> Yes <input type="checkbox"/> Varies <input type="checkbox"/></p>	<p>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. <b>We are therefore unable to draw any conclusions about the desirable or undesirable effects of this intervention.</b></p>											
	<p>Are the anticipated undesirable effects small?</p> <p>No <input type="checkbox"/> Probably no <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> Probably yes <input type="checkbox"/> Yes <input type="checkbox"/> Varies <input type="checkbox"/></p>												
	<p>What is the certainty of the anticipated effects?</p> <p>Very low <input type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> High <input type="checkbox"/> No direct evidence <input checked="" type="checkbox"/> Varies <input type="checkbox"/></p>												
	<p>Are the desirable effects large relative to the undesirable effects?</p> <p>No <input type="checkbox"/> Probably no <input type="checkbox"/> Uncertain <input checked="" type="checkbox"/> Probably yes <input type="checkbox"/> Yes <input type="checkbox"/> Varies <input type="checkbox"/></p>												
RESOURCE USE	<p>Are the resources required small?</p> <p>No <input type="checkbox"/> Probably No <input type="checkbox"/> Uncertain <input type="checkbox"/> Probably yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Varies <input type="checkbox"/></p>	<p><b>Main resource requirements</b></p> <table border="1"> <thead> <tr> <th>Resource</th> <th>Settings in which auxiliary nurse midwives already provide other care</th> </tr> </thead> <tbody> <tr> <td>Training</td> <td>3-4 weeks training in emergency obstetric care</td> </tr> <tr> <td>Supervision and monitoring</td> <td>Regular supervision by midwife or nurse</td> </tr> <tr> <td>Supplies</td> <td>IV fluids and sets, sutures, antiseptic solution</td> </tr> <tr> <td>Referral</td> <td>Transportation to a centre where comprehensive emergency obstetric care (CeMOC) is available</td> </tr> </tbody> </table>	Resource	Settings in which auxiliary nurse midwives already provide other care	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	
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	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
	<p><b>Is the incremental cost small relative to the benefits?</b></p>	<p>No    Probably No    Uncertain    Probably yes    Yes    <b>Varies</b></p> <p><input type="checkbox"/>    <input type="checkbox"/>    <input checked="" type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/></p>	<p>Uncertain as there is no direct evidence on effectiveness</p>	
ACCEPTABILITY	<p><b>Is the option acceptable to most stakeholders?</b></p>	<p>No    Probably No    Uncertain    Probably yes    Yes    <b>Varies</b></p> <p><input type="checkbox"/>    <input type="checkbox"/>    <input checked="" type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>We are not aware of any systematic reviews that considered the acceptability of auxiliary nurse midwife interventions. <b>We are therefore uncertain about the acceptability of this intervention to key stakeholders.</b></p> <p><b>Indirect evidence:</b> One systematic review (Rashidian 2012) explored factors that influence the success of task-shifting to nurses. This review suggests that:</p> <ul style="list-style-type: none"> <li>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)</li> <li>Nurses themselves may be motivated to offer advanced care by increased recognition and job satisfaction (moderate certainty evidence).</li> <li>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).</li> </ul> <p><b>Annex:</b> page 43 (Rashidian 2012)</p>	
FEASIBILITY	<p><b>Is the option feasible to implement?</b></p>	<p>No    Probably No    Uncertain    Probably yes    Yes    <b>Varies</b></p> <p><input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>    <input checked="" type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/></p>	<p>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).</p> <p><b>Annex:</b> page 26 (Glenton, Colvin 2012); page 20 ( Colvin 2012); page 43 (Rashidian 2012)</p>	