

12.3. RECOMMENDATION:

Should AUXILIARY NURSES insert and remove intrauterine device (IUDs)?

Problem: Poor access to contraception
Option: Auxiliary nurses inserting and removing IUDs
Comparison: Care delivered by other cadres or no care
Setting: Community/primary health care settings in LMICs with poor access to health professionals

Recommendation	<i>We recommend against the option</i>	<i>We suggest considering the option only in the context of rigorous research</i>	<i>We recommend the option</i>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	We suggest considering using use auxiliary nurses to insert and remove IUDs only in the context of rigorous research.		
Justification	There is insufficient evidence on the effectiveness of this intervention. In addition, auxiliary nurses do not have pelvic assessment competency within their scope and would require some training. However, this intervention may be a cost-effective, feasible and acceptable approach and may reduce inequalities by extending care to underserved populations.		
Implementation considerations	Not applicable		
Monitoring and evaluation			
Research priorities			

12.3. EVIDENCE BASE:

Should AUXILIARY NURSES insert and remove intrauterine device (IUDs)

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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 (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 auxiliary nurses, in improving the delivery of health care services (Lassi 2012). However, neither of these reviews identified any studies that assessed the effects of using auxiliary nurses to insert and remove IUDs. We are therefore unable to draw any conclusions about the desirable or undesirable effects of this intervention.</p> <p>Indirect evidence: The same systematic review (Polus 2012a) identified two studies from the Philippines and Turkey where IUD insertion by <u>auxiliary nurse midwives</u> was compared with IUD insertion by <u>doctors</u>. These studies show that the use of auxiliary nurse midwives probably leads to little or no difference in expulsion rates, removal rates, continuation rates (moderate certainty evidence). There may also be little or no difference in rates of unintended pregnancies or in referral rates before and after IUD insertion (low certainty evidence). The studies did not assess pain at insertion, insertion failure, and complications at insertion.</p> <p>The review also identified two studies from Brazil and Columbia where IUD insertion by <u>nurses</u> was compared with IUD insertion by <u>doctors</u>. These studies show that the use of nurses may lead to little or no difference in expulsion rates and continuation rates (low certainty evidence), and probably leads to less pain (moderate certainty evidence). We are uncertain about the differences between nurses and doctors for removal rates, rates of unintended pregnancies, and complication rates (very low certainty evidence). Other outcomes show mixed results (low certainty evidence).</p> <p>Annex: pages 58-60 (Polus 2012a – Table 1 and Table 2)</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>Main resource requirements</p> <table border="1"> <thead> <tr> <th>Resource</th> <th>Settings in which auxiliary nurses already provide other care</th> </tr> </thead> <tbody> <tr> <td>Training</td> <td>Some training for auxiliary nurses to insert and remove an IUD</td> </tr> <tr> <td>Supervision and monitoring</td> <td>Regular supervision by senior midwife or doctor</td> </tr> <tr> <td>Supplies</td> <td>IUD, antiseptic solution, insertion equipment</td> </tr> <tr> <td>Referral</td> <td>This may be needed for a small number of women</td> </tr> </tbody> </table>	Resource	Settings in which auxiliary nurses already provide other care	Training	Some training for auxiliary nurses to insert and remove an IUD	Supervision and monitoring	Regular supervision by senior midwife or doctor	Supplies	IUD, antiseptic solution, insertion equipment	Referral	This may be needed for a small number of women	
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	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
	<p>Is the incremental cost small relative to the benefits?</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>Uncertain as there is insufficient evidence on effectiveness</p>	
ACCEPTABILITY	<p>Is the option acceptable to most stakeholders?</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>A review of country case studies of task shifting for family planning (Polus 2012b) identified one programme where IUDs were delivered by auxiliary nurses. Overall, the review suggests that recipients appreciate the easy access that community-based provision of contraceptives provides and appreciate the use of female health workers in the delivery of contraceptives. However, the review also 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; and a lack of support from husbands.</p> <p>Indirect evidence: A systematic review (Rashidian 2012) exploring factors that influence the success of <u>doctor-nurse substitution</u> suggests that the acceptability of this intervention to key stakeholders may be mixed:</p> <ul style="list-style-type: none"> • Nurses may be motivated to take on new tasks by increased recognition and job satisfaction (moderate certainty evidence) • Doctors may welcome the contribution of nurses where it reduces doctors' workloads (moderate certainty evidence). They may welcome the transfer of certain repetitive tasks to nurses (e.g. pap smears) and nurses seem to be happy with these tasks • However, a lack of clarity about nurse roles and responsibilities in relation to other health workers may be a challenge (low certainty evidence) <p>Annex: page 33 (Glenton, Khanna 2012); page 43 (Rashidian 2012); page 63 (Polus 2012b)</p>	
FEASIBILITY	<p>Is the option feasible to implement?</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>The intervention requires very few supplies (IUDs, antiseptic solution, insertion equipment). However, changes to drug supplies may be needed and the intervention is also likely to require changes to norms or regulations.</p> <p>Training in IUD insertion and removal and in communication about family planning, and supervision is necessary. However, a review of country case studies of task shifting for family planning (Polus 2012b) suggests that <u>auxiliary nurses</u> felt that training in IUD insertion was insufficient. The auxiliary nurses also lacked confidence in their skills, partly because they had insufficient opportunities to practice these skills in settings where demand was low. In addition, systematic reviews of lay health worker, nurse and midwife programmes suggest that sufficient training and supervision is often lacking (moderate certainty evidence) (Glenton, Colvin 2012, Rashidian 2012, Colvin 2012).</p> <p>Annex: page 63 (Polus 2012b); page 26 (Glenton, Colvin 2012); page 43 (Rashidian 2012) ; page 20 (Colvin 2012).</p>	