

## 11.8 and 11.10. EVIDENCE BASE:

## Should ADVANCED LEVEL ASSOCIATE CLINICIANS deliver a <u>loading dose</u> of magnesium sulphate to (a) prevent eclampsia and refer to a higher facility; and (b) treat eclampsia and refer to a higher facility?

**Problem**: Poor access to treatment for eclampsia

Option: Advanced level associate clinicians delivering loading dose of

magnesium sulphate

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
	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 adv	Note: A World Health Organisation guideline recommends that for settings where it is not possible to administer the full magnesium sulphate regimen, the use of magnesium sulphate loading dose, followed by
OF THE OPTIONS	Are the anticipated undesirable effects small?	No Probably Uncertain Probably Yes Varies no yes	level associate clinicians, in improving the delivery of health care services (Lassi 2012). However, this did not identify any studies that assessed the effects of using advanced level associate clinicians for th interventions. We are therefore unable to draw any conclusions about the desirable or undesirab effects of this intervention.	immediate transfer to a higher-level health facility, is recommended for women with severe pre-eclampsia and eclampsia (very low quality evidence, weak
HARMS OF	What is the certainty of the	Very Low Moderate High No Varies direct evidence	Indirect evidence:  A systematic review compared clinical officers (unclear what level of training they had) with medical do for caesarean section (Wilson 2011). The review identified 6 studies from low and middle income coun	
BENEFITS & HARMS	anticipated effects?		but the evidence is of very low certainty and we are therefore unable to draw conclusions on the effects using clinical officers for caesarean section.	s of preventing and treating eclampsia, and (b) what should be done when immediate
	Are the desirable effects large relative to the undesirable effects?	No Probably Uncertain Probably Yes Varies no yes	Annex: page 18 (Wilson 2011)	transfer to a higher-level facility is not possible following the loading dose.
RESOURCE USE			Main resource requirements	
			Resource Settings in which advanced level associated clinicians already provide other care	
	Are the resources	No Probably Uncertain Probably Yes Varies no yes	Training I month of training for advanced level associated clinicians to diagnos and manage eclampsia and pre-eclampsia	is
ESOU	required small?		Supervision and monitoring Regular supervision by senior midwife or doctor	
ď			Supplies Magnesium sulphate, calcium gluconate, IV equipment	
			Referral Transportation to a centre where comprehensive emergency obstetric care (CeMOC) is available	
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	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	<ul> <li>A rapid review of literature on associate clinician / advanced level associate clinician programmes suggests that:</li> <li>There may be a lack of acceptance of associate clinicians / advanced level associate clinicians among other professionals and professional bodies in a number of settings, and these bodies may block the development of the cadre or attempt to restrict what they can do. Acceptance appears to vary across procedures that they are trained to deliver</li> <li>Associate clinicians / advanced level associate clinicians may not be given recognition and respect from doctors and health administrators, despite doing work similar to that done by doctors, and this is seen as problematic</li> <li>There may be discrepancies between acceptance at national ministry level, existing regulations for registration of associate clinicians / advanced level associate clinicians, the training they receive and clinical practice. Consequently, they may only be able to undertake a proportion of what they were trained to do in relation to emergency and comprehensive obstetric care or may be perform services without regulatory authorisation</li> <li>The certainty of this evidence is unclear as the quality of the contributing studies and the generalisability of the findings are unclear.</li> <li>Annex: Page 25 (Daniels 2012)</li> </ul>	
FEASIBILITY	Is the option feasible to implement?	No Probably Uncertain Probably Yes Varies yes	The intervention requires relatively few supplies (magnesium sulphate, calcium gluconate and IV equipment). In addition, it is simple to deliver and requires only a relatively small amount of training.  Changes to norms, regulations and scopes of practice may be needed to allow advanced level associated clinicians to perform these procedures. Regular supervision is also necessary, and adequate referral to a higher level of care for management may be required.	