

## 11.5. EVIDENCE BASE:

## Should NURSES administer corticosteroids to pregnant women in the context of preterm labour to improve neonatal outcomes?

**Problem**: Poor access to treatment

Option: Nurses administering corticosteroids to pregnant women in the

context of preterm labour

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	One 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, this review did not identify any studies that specifically assessed the effects of nurses administering corticosteroids. We are therefore unable to draw any conclusions about the desirable or undesirable effects of this intervention.	
BENEFITS & HARMS OF THE OPTIONS	Are the anticipated undesirable effects small?	No Probably Uncertain Probably Yes Varies no yes	Indirect evidence: The review did identify a number of studies, mostly from high income settings, where nurses were compared to doctors for the delivery of other types of interventions. The review suggests that nurse care may improve several health outcomes while it may make no difference to other outcomes. However, the certainty of this evidence varies.	
	What is the		Outcomes Impacts Certainty of the anticipated effect	
	certainty of the anticipated effects?	Very Low Moderate High No direct low evidence	Patient health status  For some outcomes, benefits in favour of nurses. For other outcomes, no differences between nurses and doctors  Very low to moderate	
			Patient mortality No differences between nurses and primary care doctors Moderate	
	Are the desirable effects large relative to the undesirable effects?		Process of care Mixed results: some studies showed differences between nurses and primary care doctors in process of care, e.g. nurses gave more advice to patients, while others showed no differences  Very low to moderate	
		No Probably Uncertain Probably Yes Varies yes	Patient Patients were significantly more satisfied with nurses compared with primary care doctors. Also, patients preferred significantly more often to see a nurse rather than a primary care doctor.	
			Annex: page 6 (Laurant 2012)	
RESOURCE USE	Are the resources required small?		Main resource requirements	
			Resource Settings in which nurses already provide other care	
		No Probably Uncertain Probably Yes Varies	Training E.g. 1-2 months of practice-based training in diagnosing and managing pre-term labour	
OUR			Supervision and monitoring Regular supervision by midwife or doctor	
RES			Supplies Corticosteroids	
			Referral Transportation to a centre where comprehensive emergency obstetric care (CeMOC) is available	
	CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES

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	Is the incremental cost small relative to the benefits?	No	Probably no	Uncertain	Probably yes	Yes	Varies	Uncertain as there is no direct evidence on effectiveness	
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 corticosteroids when delivered 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). 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 t o 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)	
FEASIBILITY	Is the option feasible to implement?	No	Probably no	Uncertain	Probably yes	Yes	Varies	The intervention requires some supplies (drugs and simple diagnostic tools). Also, adequate referral to a higher level of care for further management may also be necessary. The intervention requires clinical skills in the diagnosis of preterm labour, which nurses do not normally possess. In addition, while training, clinical experience and supervision are needed, 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).  In some settings, changes to norms or regulations may be needed to allow auxiliary nurse midwives to prescribe and administer drugs.  Annex: page 26 (Glenton, Colvin 2012); page 20 (Colvin 2012); page 43 (Rashidian 2012)	