

2.5. RECOMMENDATION:

Should LAY HEALTH WORKERS administer misoprostol to <u>prevent</u> postpartum haemorrhage?

Problem: Poor access to prevention of postpartum haemorrhage

Option: LHWs administering misoprostol

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 in the context of rigorous research	We recommend the option				
			\square				
	We recommend the use of lay health workers to administer misoprostol to prevent postpartum haemorrhage. We suggest using this intervention where a well-functioning LHW programme already exists.						
Justification	There is insufficient evidence on the effectiveness or acceptability of using LHWs to administer misoprostol to <u>prevent</u> postpartum haemorrhage. However, this intervention may be feasible under certain conditions and may reduce inequalities by extending care to underserved populations. In addition, a World Health Organisation guideline recommends that where skilled birth attendants are not present and oxytocin is not available, the administration of misoprostol (600mcg PO) by community health workers and lay health workers is recommended for the prevention of postpartum haemorrhage (Strong recommendation, moderate quality evidence).						
Implementation considerations	The following should be considered when using LHWs to administer misoprostol: - LHWs from the same community may be particularly acceptable to recipients. However, they may also be particularly vulnerable to social blame where incidental death or disease or problems in treatment occur. Systems therefore need to be in place to support these cadres, for instance through visible support from the health system, regular supervision, and birth-preparedness counselling - LHWs and relevant professional bodies should be involved in the planning and implementation of the intervention to ensure acceptability among affected health workers - This intervention implies irregular working hours. Implementation needs to be in the context of a comprehensive remuneration scheme, in which salaries or incentives reflect any changes in scope of practice. Giving incentives for certain tasks but not for others may negatively affect the work that is carried out - Systems need to be in place to support LHWs who may need to travel at night in order to assist during labour and delivery - Referral systems need to function well, i.e. financial, logistical (e.g. transport) and relational barriers need to be addressed. Specifically, local health systems need to be strengthened to improve quality of care at the first referral facility - Changes in regulations may be necessary to support any changes in LHWs' scope of practice - Supplies of drugs and other commodities (e.g. delivery kits) need to be secure - Responsibility for supervision needs to be clear and supervision needs to be regular and supportive - LHWs and their supervisors need to receive appropriate initial and ongoing training						
Monitoring and evaluation							
Research priorities	Studies assessing the effects and the acceptability of using lay health workers to administer oxytocin are needed. Trials are currently ongoing.						



2.5. EVIDENCE BASE:

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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 (Lewin 2012) searched for studies that assessed the effects of lay health worker programmes for maternal and child health. However, this review did not identify any studies that assessed the effects of lay health workers to administer misoprostol in the context of task shifting. Another systematic review assessed the effectiveness and safety of advance misoprostol provision for postpartum haemorrhage prevention and treatment in non-facility births, including delivery by LHWs. This review did not identify any studies (Oladapo 2012). Indirect evidence: A systematic review (Gülmezoglu 2007) assessed the effects of prostaglandins for preventing postpartum haemorrhage. The review identified two trials where trained TBAs administered either oral misoprostol or placebo. While these trials do not assess the effectiveness of trained TBA delivery, the trials showed no adverse events. A systematic review (Lewin 2012) identified a number of trials from LMIC settings where packages of care were delivered by LHWs. In some of these trials, the packages included the provision of antibiotics to sick newborns and antimalarials to children. Overall, the trials suggest that these packages of care may lead to a reduction in neonatal (moderate certainty evidence) and child mortality (low certainty evidence). Annex: page 10 (Lewin 2012 – Table 2)		Note: A World Health Organisation guideline recommends that where skilled birth attendants are not present and oxytocin is not available, the administration of misoprostol (600mcg PO) by community health care workers and lay health workers is recommended for prevention of PPH. (Strong recommendation, moderate quality evidence). The guideline notes that, in view of the past concerns regarding community distribution of misoprostol and serious consequences of administration before birth, emphasis should be placed on the training of those providing misoprostol and monitoring of these interventions with appropriate indicators.	
	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 evidence				
	Are the desirable effects large relative to the undesirable effects?	No Probably Uncertain Probably Yes Varies no yes				
	Are the resources required small?	No Probably Uncertain Probably Yes Varies no yes □ □ □ □ □	Main resource requirements			
			Resource	Settings in which LHW programmes already exist		
			Training	1-2 days of practice-based training	1	
			Supervision and monitoring	Regular supervision by midwife or nurse		
			Supplies	Misoprostol tablets, robust supply chain		
			Referral	Transportation to a centre where comprehensive emergency obstetric care (CeMOC) is available		
	Is the incremental cost small relative to the benefits?	No Probably Uncertain Probably Yes Varies no yes	Uncertain due to lack of evidence on effectiveness of the intervention			



CRITERIA	JUDGEMENT	EVIDENCE	COMMENTS AND QUERIES
Is the option acceptable to most stakeholders?	No Probably Uncertain Probably Yes Varies no yes	A systematic review of LHW programmes (Glenton, Colvin 2012) found no studies that evaluated the acceptability of misoprostol when delivered by LHWs. We are therefore uncertain about the acceptability of this intervention to key stakeholders. Activities that demand that the LHW is present at specific times, for instance during labour and birth, lead to irregular and unpredictable working conditions. The review suggests that this may have direct implications for LHWs' expectations regarding incentives (low certainty evidence). LHWs may also be concerned about personal safety when working in the community and some LHWs were reluctant to visit clients at night because of safety issues (moderate certainty evidence) (Glenton, Colvin 2012). LHW involvement in deliveries requires an effective referral system. However, a number of challenges with referral of women in labour were seen, including logistics and poor treatment of trained TBAs and women at facilities (moderate certainty evidence). Another systematic review (Glenton, Khanna 2012) explored the acceptability of the use of compact prefilled autodisable devices (CPAD) by LHWs. This review suggests that recipients, LHWs and other health workers find the delivery of drugs and vaccines by LHWs through this device to be acceptable. The importance of training and supervision was emphasised (low certainty evidence). Some LHWs voiced concerns about possible social or legal consequences if something went wrong. These concerns were at least partly addressed through support and supervision (low certainty evidence). Annex: page 26 (Glenton, Colvin 2012); page 33 (Glenton, Khanna 2012)	
Is the option feasible to implement?	No Probably Uncertain Probably Yes Varies no yes	Significant additional work may be needed to add this intervention to an existing LHW programme. It is likely to require changes in regulations; and significant changes to drug supplies and training. Also, implementation would require access to a referral system with trained and equipped healthcare professionals and facilities. Implementation may additionally require consideration of factors affecting referral by LHWs (see under 'Acceptability'). Significant supervision provided by skilled health cadres would likely be needed. Significant training and supervision provided by skilled health cadres would likely be needed. However, a systematic review (Glenton, Colvin 2012) suggests that ongoing support, training and supervision was often insufficient in LHW programmes (moderate certainty evidence). Annex: page 26 (Glenton, Colvin 2012)	