




		EMLc	Codes ATC: D08AC02
Indication	Omphalitis of newborn	Code ICD11: <a href="#">KA65.1</a>	
INN	Chlorhexidine		
Type de médicament	Chemical agent		
Type de liste	Liste de base (EML) (EMLc)		
Additional notes	For umbilical cord care		
Formulations	Local > Topical > Solution: 7.1% chlorhexidine digluconate (delivering 4% chlorhexidine) (EMLc) Local > Topical > Gel: 7.1% chlorhexidine digluconate (delivering 4% chlorhexidine) (EMLc)		
Historique des statuts LME	Ajouté pour la première fois en 2013 ( <a href="#">TRS 985</a> )		
Sexe	Tous		
Âge	Nouveau-né (< 1 mois)		
Équivalence thérapeutique	La recommandation concerne ce médicament spécifique		
Renseignements sur le brevet	Patents have expired in most jurisdictions Lire la suite <a href="#">sur les brevets.</a> 		
Wikipédia	<a href="#">Chlorhexidine</a> 		
DrugBank	<a href="#">Chlorhexidine</a> 		

## Résumé des preuves et recommandation du comité d'experts

The application to include chlorhexidine digluconate 7.1% solution or gel delivering 4% chlorhexidine for cord care was submitted by the Program for Appropriate Technology in Health (PATH), Chlorhexidine Working Group. In 2009, the Expert Committee reviewed an application to include this formulation of chlorhexidine. Although there was general consensus that, in unclean deliveries, topical antiseptics may help in reducing infections, there was no clear evidence regarding the superiority of any one product. In addition, no product was commercially available at that time. A 20% solution was added for dilution. In 2011 an updated application was submitted to replace the 20% listing with a ready-made 7.1% digluconate solution or gel. At that time, trials were continuing and the product was still not commercially available. The Committee then decided to list 4% chlorhexidine as one of the missing priority products in the “Priority medicines for mothers and children – 2011”. An updated application was submitted to the 19th meeting of the Expert Committee for inclusion of the 7.1% concentration providing 4% free chlorhexidine formulation. It was felt that there is a need to specify concentrations correctly: 20.0% chlorhexidine digluconate provides 11.3% free chlorhexidine, while 7.1% provides 4.0%, and 5.0% provides 2.8%. The evidence in the application consisted of three trials conducted in community settings in Bangladesh, Nepal and Pakistan where there were high rates of home deliveries and high neonatal mortality (1-3). Over 50 000 newborns were enrolled, and the trial compared single or multiple applications of chlorhexidine with standard dry cord care practices. The results showed significant reductions in neonatal mortality (24%) and omphalitis (75%). Systematically collected data on long- and short-term adverse events are scant. However, chlorhexidine was used widely in randomized trials and has been used elsewhere for neonates (4, 5). Transient contact dermatitis has been reported in preterm very-low-birth-weight infants after long-term (> 7 days) placement of chlorhexidine-impregnated dressings for central venous catheters (4). Although a significant effect was seen for neonatal mortality and omphalitis, the studies were predominantly in high-mortality home birth

settings in South Asia. The findings are therefore difficult to generalize to settings where the majority of births take place in health facilities and where neonatal mortality rates are lower. Questions remain about the optimal treatment regimen with respect to timing of the application of chlorhexidine, as well as the number of applications. Compared with dry and clean care (mean 4.78 days), separation time of the umbilical cord was longer in the single (mean 6.90 days, difference = 2.10, 95% CI: 1.85–2.35) and multiple (mean 7.49 days, difference = 2.69, 95% CI: 2.44–2.95) cleansing groups in a cluster randomized trial (6). This outcome may affect carer satisfaction, but the clinical importance is unclear. The scalability and integration of the use of chlorhexidine into existing health systems have yet to be established. Two of the three studies that showed beneficial effects of chlorhexidine application to the cord included several visits by health-care workers, which may not be possible in all settings. There is now a commercially available product in at least Bangladesh and India but there is as yet no global supply. Local production of the product may be an appropriate strategy to ensure adequate supply, although the precise concentration required in the formulation means that standards for the manufacturing process need to be ensured. The Expert Committee recommended the listing of the new 4% gel formulation, the deletion of the 20% solution, and the retention of the 5% solution. The Committee hoped that inclusion in the list would increase the chances of making a commercial product available and noted that three manufacturers (two in India and one in Belgium) are already providing the gel product.

References

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