STRUCTURE IN THE INSTITUTIONAL REPOSITORY

CLINICAL PRACTICE GUIDELINE FOR PREVENTION AND MANAGEMENT OF PRETERM LABOR

- **Title:** Clinical practice guideline for prevention and management of preterm labor.
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• Abstract:

This clinical practice guideline (CPG) approaches the prevention and management of preterm labor in the Peruvian Social Security (EsSalud). To perform this CPG, a guideline task force (GTF) was formed with specialized physicians and methodologists, the group proposed 11 clinical questions. To answer each question, systematic searches in PubMed and GPC repositories were performed during august 2017 – February 2018, and the relevant evidence was selected. Certainty of evidence was evaluated using Grading of Recommendations Assessment, Development, and Evaluation (GRADE) methodology. In periodical work sessions, the GTF used GRADE methodology for evidence formulating reviewing the and recommendations. 20 recommendations (13 strong and 7 conditional), 24 good clinical practice items, one recommendation for implementation and one flowchart were formulated. The CPG was approved by Resolution № 138-IETSI-ESSALUD-2018.

• Key words: preterm labor, Practice Guideline, GRADE Approach, Evidence-Based Medicine.

PREVENTION						
Question 1. In pregnant women at risk for PTL, should progesterone or cerclage be						
used as secondary p	revention?					
POPULATION	DIAGNOSTIC	COMPARATOR	OUTCOME(S)			
	TEST FOR					
INTERVENTION						
Pregnant women at risk for PTL Pro			Risk for PTL			
			Neonatal or Perinatal			
			death			
	Dragastarana	Placebo or not	Pyrexia in pregnant			
	Progesterone	treatment	woman			
			Risk of assited			
			ventilation			
			Respiratory distress			

• PICO questions for CPG:

			Assisted ventilation Necrotizing enterocolitis Neonatal sepsis Intraventricular hemorrhage
Pregnant women at risk for PTL	Cerclage	Placebo or not treatment	Risk for PTL Neonatal or Perinatal death Pyrexia in pregnant woman Respiratory distress Intraventricular hemorrhage Necrotizing enterocolitis Retinopathy Premature rupture of membranes Maternal adverse events (vaginal discharge, bleeding, and fever that does not require antibiotics).

DIAGNOSIS					
Question 2. In pregnant women suspected of preterm premature rupture of					
membranes, what test should be used to make the diagnosis? POPULATION INTERVENTION COMPARATOR OUTCOME(S)					
Pregnant women at risk for PTL	PAMG-1 IGFBP-1 AFP	PAMG-1 IGFBP-1 AFP	Sensibility for premature rupture of membranes. Specificity for premature rupture of membranes.		

TREATMENT						
Question 3. In pregr	Question 3. In pregnant women in preterm labor, should prophylactic antibiotics be					
administered before	e the labor?					
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)			
			Neonatal death			
			Perinatal death			
Pregnant women	ant women Stillbirth					
in preterm labor	Administer	Not administer	Child mortality			
with intact	antibiotics	antibiotics	Maternal infection			
membranes			Prolongation of pregnancy			
			Maternal adverse effects			
	Average birth weight					

			Risk of weight less than 2500 gr Admission to a neonatal special or intensive care unit Child functional disability
Pregnant women in preterm labor with PRM	Administer antibiotics	Not administer antibiotics	Maternal death Perinatal death Maternal infection Pneumonia in the Newborn Positive blood culture Major brain abnormalities Respiratory distress syndrome Necrotizing enterocolitis Need for mechanical ventilation Admission to ICU in NB and the child Prolongation of pregnancy Adverse effects
Pregnant women at risk for PTL	Penicillins Beta lactams Macrolides	Penicillins Beta lactams Macrolides	Perinatal death Pyrexia in pregnant woman Respiratory distress Intraventricular hemorrhage Necrotizing enterocolitis Retinopathy Premature rupture of membranes Maternal adverse events (vaginal discharge, bleeding, and fever that does not require antibiotics).

DIAGNOSIS					
Question 4. In pregnant women with intact membranes and preterm labor					
	symptoms, what is the diagnostic accuracy of the test to diagnose preterm labor?POPULATIONINTERVENTIONCOMPARATOROUTCOME(S)				
Pregnant women with intact membranes and	Cervical length	Fibronectin	Sensitivity to predict preterm labor Specificity to		
preterm labor symptoms			predict preterm labor		

TREATMENT						
	Question 5. What is the clinical effectiveness of the use of corticosteroids for fetal					
lung maturation to improve maternal and neonatal outcomes?						
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)			
Pregnant women suspected of PTL	Corticosteroids	Placebo or not treatment	Perinatal death Neonatal death Fetal death Respiratory distress Intraventricular hemorrhage Necrotizing enterocolitis Maternal death Chorioamnionitis Endometritis			
Pregnant women			Impaired glucose tolerance Neonatal death			
suspected of PTL and Chorioamnionitis	Corticosteroids	Placebo or not treatment				
Pregnant women suspected of PTL who will undergo cesarean section	Corticosteroids	Placebo or not treatment	Admission to an intensive care unit Respiratory distress syndrome			
Pregnant women suspected of PTL	Betamethasone Administration routes: oral	Dexamethasone Administration routes: IM	Neonatal death Prolongation of pregnancy Neonatal Sepsis			
Pregnant women suspected of PTL	Repeated courses of corticosteroids	Single course of corticosteroids	Perinatal death Fetal death Prolongation of pregnancy Maternal infection Maternal adverse events			
		-	sium sulphate in women at			
risk for PTL to prev born children?	ent cerebral palsy	and other neurolo	ogical disorders in preterm-			
POPULATION	INTERVENTION	COMPARATO	R OUTCOME(S)			
Pregnant women at risk for PTL	Intravenous magnesium sulfate	Placebo or not treatment	Cerebral palsy Stillbirth Intracranial hemorrhage Periventricular leukomalacia Long-term severe motor dysfunction			

					velopmental delay	
					difficulty in vision or aring	
					verse effects	
Question 7. What is	the clinical effectiv	venes	s of tocolytics		man with suspected	
or confirmed PT lat			-		-	
POPULATION	INTERVENTIO		COMPARA		OUTCOME(S)	
	Betamimetics				Delay labor for 48	
	Prostaglandin				hours	
Woman with	inhibitors				Respiratory	
suspected or	Calcium ch	anne	l Placebo or	not	distress syndrome	
confirmed PT	blockers		treatment		Neonatal	
labor	Magnesium sulph	ate			mortality	
	Oxytocin receptor				Severe adverse	
	antagonists				events	
	•		•	•	vithout indication of	
caesarean section),	T			-		
POPULATION	INTERVENTION	J	COMPARAT	OR	OUTCOME(S)	
					Delay labor for 48	
Manage with					hours	
Woman with			Vaginal delivery		Respiratory	
suspected or	Caesarean section	n '			distress syndrome Neonatal	
diagnosed PT labor					mortality	
18501					Severe adverse	
					events	
Question 9. In pret	erm newborns, should delayed um		elaved umbilic	al cord		
performed?			,		••••••••••••••••••••••••••••••••••••••	
POPULATION	INTERVENTION	CO	MPARATOR		OUTCOME(S)	
				Child	mortality	
					ventricular	
					emorrhage	
					Requirement for blood transfusion	
	Data ad	No delayed umbilical cord				
Drotorno novehorno	Delayed			Hematocrit		
Preterm newborn	umbilical cord			Respiratory distress		
	clamping	Ciali	clamping		requiring mechanical ventilation	
					Hyperbilirubinemia	
				пурс	bini ubincinia	
				Sever	e Intraventricular	
				Sever		
				hemo	orrhage	
Question 10. In p	reterm newborns	with	respiratory d	hemo Apgai	orrhage r score	
Question 10. In p continuous positive			• •	hemo Apgai	orrhage	

Preterm newborns with respiratory distress syndrome	Continuous positive airway pressure therapy	Oxygen therapy alone	Neonatal death Respiratory failure requiring assisted ventilation Air leaks Need for surfactant therapy Risk for bronchopulmonary dysplasia (BPD)
Question 11. In pre oxygen therapy?	term newborns who	o born before 32 wo	eeks, what is the optimal
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)
Preterm newborns who born before 32 weeks	Low-flow oxygen therapy	High-flow oxygen therapy	Neonatal death Risk for BPD Retinopathy Prematurity Necrotizing enterocolitis Severe Intraventricular hemorrhage Achievement of saturation target 10 minutes after birth Duration of mechanical ventilation or need for endotracheal intubation during resuscitation