

**OPERATIONAL GUIDELINES ON** 

IN REFUGEE OPERATIONS

The UN Refugee Ageno

IMPROVING NEWBO

Developed as part of "Saving newborn lives in refugee situations" Project supported by the Bill & Melinda Gates Foundation

### WEBINAR: IMPROVING NEWBORN HEALTH IN REFUGEE OPERATIONS

### UNHCR

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> BILL& MELINDA GATES foundation



## Agenda

- Global context and epidemiology of newborn health
- Newborns in refugee contexts
- Essential Components of Care
  - Childbirth, EmONC and Essential Newborn Care
  - Interventions targeting 3 Leading Causes of NN Mortality
- Community-level interventions
- Staffing and Capacity Building
- Essential Supplies and Equipment
- Monitoring Newborn Care Services
- Case Study: Dr. Dina Jardaneh, Public Health Officer Jordan

## **OBJECTIVES of WEBINAR**



TO UNDERSTAND THE GLOBAL BURDEN OF NEONATAL DEATHS TO BECOME FAMILIAR WITH THE UNHCR OPERATIONAL GUIDELINES

TO BE FAMILIAR WITH THE HIGH IMPACT PRACTICES THAT CAN BE IMPLEMENTED IN YOUR PROJECTS TO MOTIVATE YOU TO ASSESS YOUR OWN PROJECT SITES AND MAKE A PLAN TO FILL GAPS TO SHARE YOUR EXPERIENCES AND IDEAS WITH ONE ANOTHER

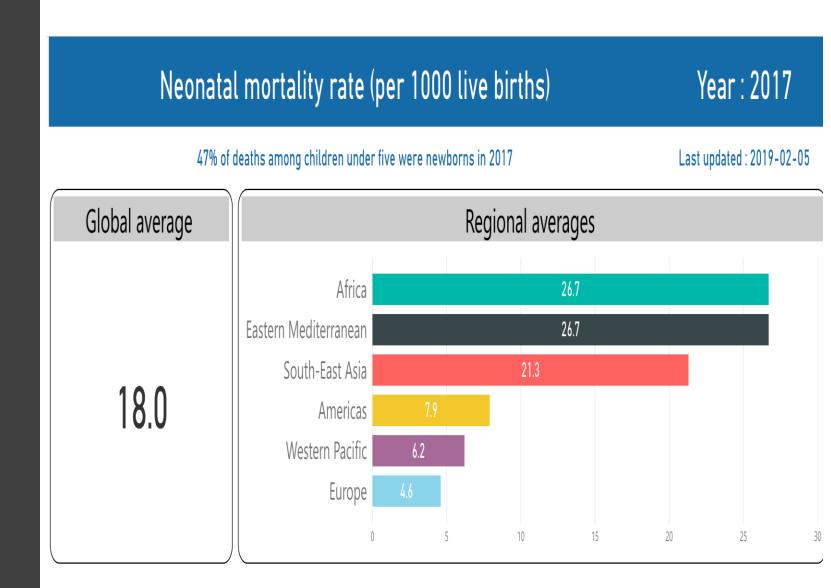


## Background and Rationale

- "Newborn" or "neonate" is a baby in the first 28 days of life
- Globally, 7000 newborns die every day, 2.5 million every year<sup>1</sup>
- Of the 16 countries with the highest neonatal mortality rates, 11 have experienced recent humanitarian crisis<sup>2</sup>
- Most neonatal deaths are preventable with simple, lowcost interventions
- Many of these interventions are not implemented, or need to be scaled-up, in refugee operations
- Operational guidelines on improving newborn health in refugee operations developed in 2013 to help give direction on essential services for newborns.

Sustainable Development Goal (SDG) Target 3.2:

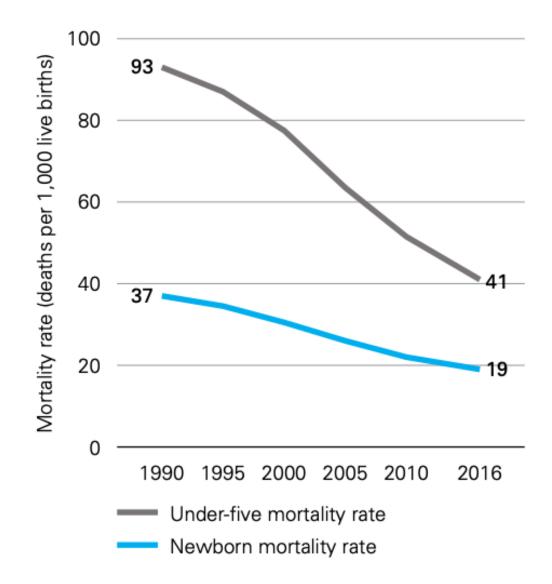
By 2030, reduce neonatal mortality to at least 12 per 1,000 live births



Neonatal mortality rates are decreasing more slowly than U5 rates

## Neonatal deaths now account for 47% of all U5 deaths (2017)

- Lack of political will/attention
- Many health policies have not paid much attention to the newborn – focused more on maternal and child health
- Required health interventions are different than those for older infants/children
- Rwanda: On Track: has increased access to health services; certification of health facilities; increased neonatal services; FP



Source: United Nations Inter-agency Group for Child Mortality Estimation, 2017.

### Leading Causes of Neonatal Mortality

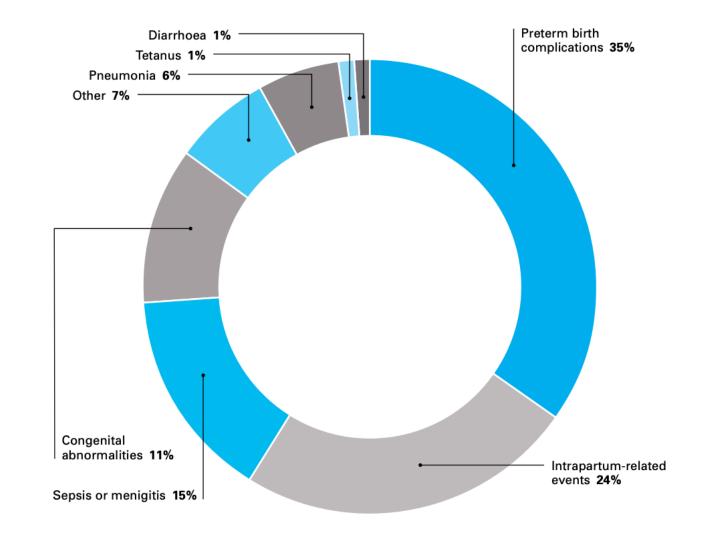
Globally, the three leading causes are:

1. Preterm birth complications

2. Intrapartum-related events (i.e. birth asphyxia)

3. Serious infection (sepsis, meningitis)<sup>1</sup>

Up to 40% of neonatal deaths occur within the **first 24 hours** of birth and nearly 75% in the **first** week of life<sup>2</sup>.



Source: United Nations Inter-agency Group for Child Mortality Estimation, 2017.

### Neonatal mortality rates in humanitarian settings

Among countries with the highest neonatal mortality, many face humanitarian situations, including population displacement.

Many of these countries also have poor baseline socioeconomic status and weak health systems

### Neonatal mortality rates across 27 countries with protracted emergencies

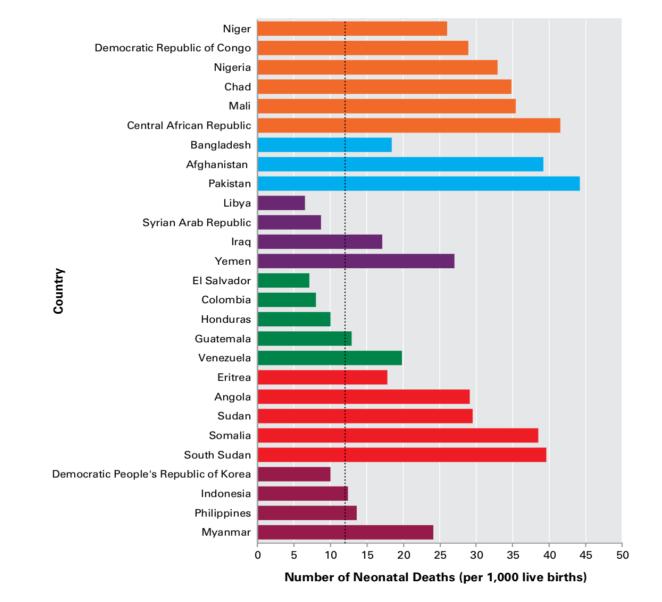


Figure Source: pg 6 IAWG (2019): **SURVIVING DAY ONE:** Caring for Mothers and Newborns in Humanitarian Emergencies on the Day of Childbirth

## What about newborns in refugee settings?

#### UNHCR has been increasing its focus on maternal and newborn health in recent years. Activities include:



RESEARCH:

MATERNAL AND NEONATAL

MORTALITY RATES ARE OFTEN

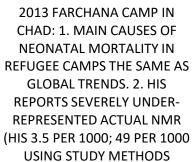
BETTER THAN HOST RATES IN

POST-EMERGENCY CAMP

SETTINGS







(CAPTURE-RECAPTURE))

2013 DEVELOPMENT OF NEONATAL DEATH AUDIT PROCESS IN JORDAN (WITH US CDC) IN RESPONSE TO INCREASED NEONATAL MORTALITY RATES



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NEW UNHCR OPERATIONAL GUIDELINES (NEWBORN, MATERNAL, FAMILY PLANNING, ADOLESCENT SRH)

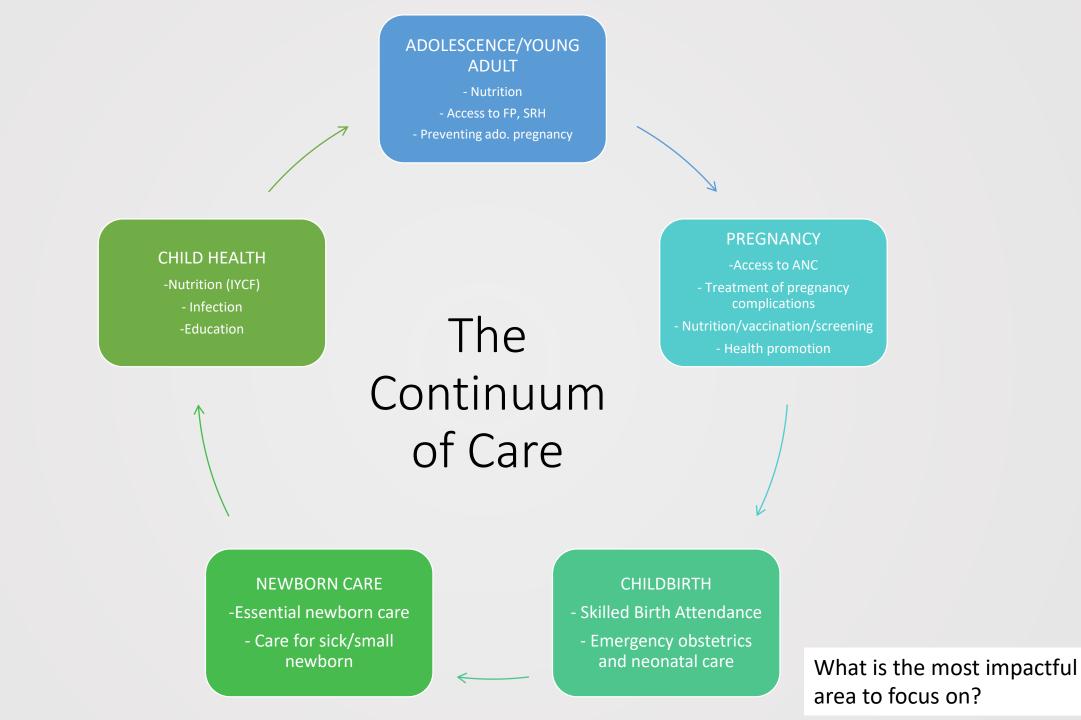
# Discussion: Neonatal Mortality Rates in Your Operation

- HIS reports in Farchana in East Chad in 2013 showed NMR of 3.5 per 1000 live births whereas study found rate of 49 per 1000.
- Are your NMRs unusually low/high/ or "just right"?
- How do you ensure you are capturing all deaths that occur outside the health facility?



# Essential Components of Health Services

Childbirth and Neonatal Care



### POTENTIAL FOR LIVES SAVED BETWEEN 2016-2030 WITH KNOWN INTERVENTIONS

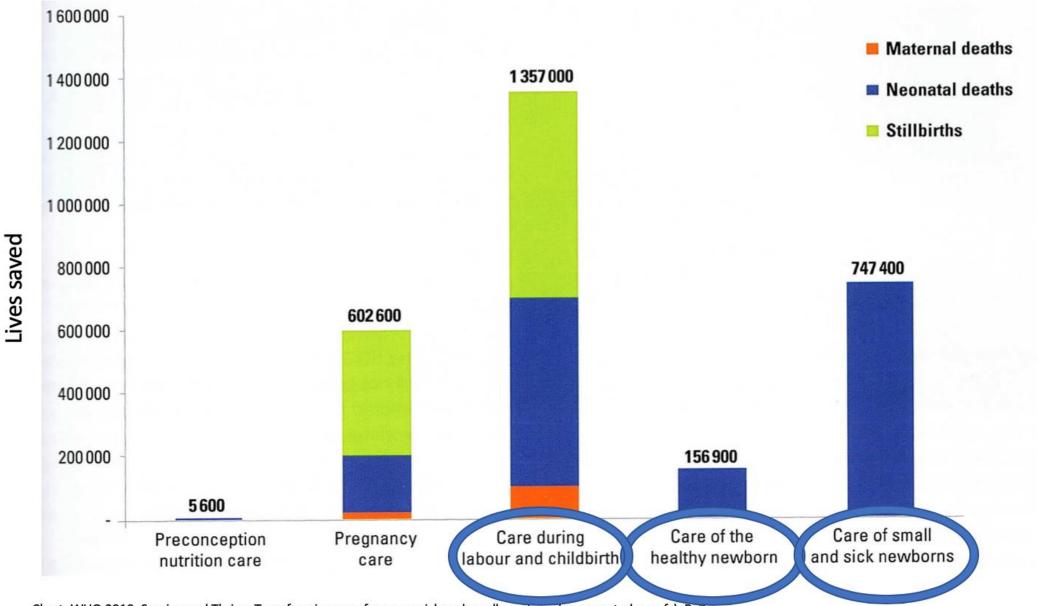
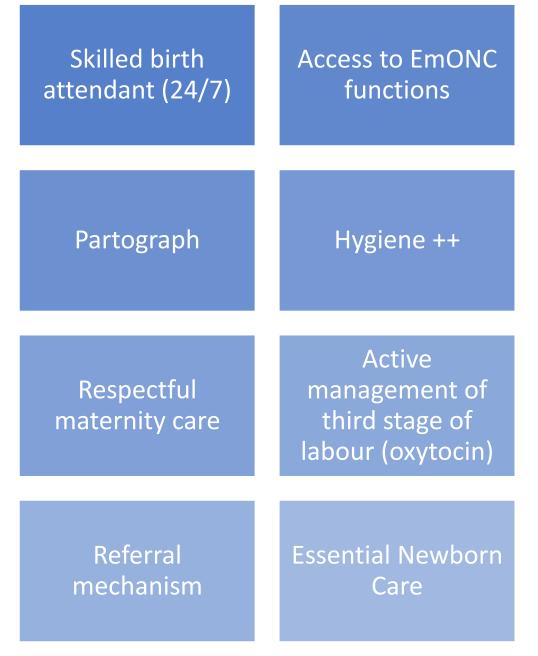


Chart: WHO 2019. Survive and Thrive: Transforming care for every sick and small newborn (uncorrected proofs). Pg7 Adapted from Bhutta et al. 2014. Can available interventions end preventable deaths in mothers, newborn babies, and stillbirths, and at what cost.

## Essential Childbirth Care



## Emergency Obstetric and Neonatal Care (EmONC)

		Signal Function	Essential materials
COMPREEHENSIVE		1. Administration of parenteral antibiotics	Various (ampicillin, gentamycin)
		2. Administration of parenteral anticonvulsants	Magnesium sulfate, calcium gluconate, hydralazine, methyldopa
		3. Administration of uterotonics	Oxytocin, misoprostol
	BASIC	4. Manual delivery of the placenta	Prophylactic antibiotics
	ΒA	5. Evacuation of uterine contents (MVA)	Manual vacuum uterine aspirator (MVA), misoprostol
		<ol> <li>6. Instrumental assisted delivery (vacuum/ventouse)</li> </ol>	Vacuum extractor (Kiwi, Omni-cup)
		7. Maternal and neonatal resuscitation	Resuscitation bag and mask (sizes 0 and 1 for neonates); suction; adult size for mother
		8. Blood transfusion	Tests: blood type, infectious diseases (HIV, HBV, HCV, syphilis)
		9. Caesarean section	Surgical kit

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# Monitoring EmONC Status of Health facilities



Availability: 5 health facilities providing EmONC per 500,000 population (4 basic and 1 comprehensive) with an equitable distribution of facilities and services



Use a structured checklist to check for provision of services and **associated medications and equipment** 



Must have provided all 7 signal functions in the past 3 months to be considered BEmONC facility



Common reasons for not achieving BEmONC status include: small health facilities who don't encounter all complications within 3 months; lack of required equipment; lack of trained staff; policy restrictions

## Discussion - EmONC status

Questions on Essential Components of Childbirth Care?

Discussion:

- How do you assess/monitor the EmONC status of your health facilities?
- What are the main barriers you face to provide all 7 signal functions?
- What steps have you taken to overcome these barriers?



# Essential Newborn Care (for all babies)



### Initiation of breathing and resuscitation



Delayed cord clamping and hygienic cord care\*



Thermal care (immediate drying, placing skin-to-skin, delayed bathing (24 hours)



Tetracycline eye ointment and vitamin K



Early and exclusive breastfeeding



Postnatal care checks/monitoring for danger signs



#### POSTNATAL CARE PRE-DISCHARGE CHECKLIST Do not discharge until at least 24 hours after a normal vaginal birth.

Complete checklist items for every mother and newborn, regardless of when they are discharged.

Assess Mother for Problems	No	Yes	Recommended Actions
The mother has a danger sign:       •         • Heavy bleeding       •         • Severe abdominal pain       •         • Unexplained pain in chest or legs       •         • Visual disturbance or severe headache       •         • Breathing difficulty       •         • Fever, chills       •         • Vomiting       •		<b>→</b>	Assess the cause(s) and initiate care or refer. Delay discharge until all danger signs have been resolved for at least 24 hours and there is a follow-up plan in place.
The mother's bleeding is heavy or has increased since birth (e.g., bleeding soaks a pad in less than 5 minutes).		<b>→</b>	Delay discharge. Evaluate and treat possible causes of bleeding (e.g., uterine atony [not contracted], retained placenta, or vaginal/cervical tear).
The mother has an abnormal vital sign: • High blood pressure (SBP > 140 mmHg or DBP > 90 mmHg) • Temperature > 38.0°C • Heart rate > 100 beats per minute		<b>→</b>	Evaluate the cause of abnormal vital sign(s) and treat or refer. Defer discharge until vital signs have been normal for at least 24 hours and no danger signs remain.
The mother is not able to urinate easily or is leaking urine.		>	Defer discharge; continue to monitor and evaluate the cause; treat or refer as needed.
The mother is being treated for a complication, and her condition has not stabilized (e.g., vital signs are not normal or she has a danger sign).		<b>→</b>	Delay discharge until the mother's condition has been stable for at least 24 hours, with normal vital signs and no danger signs remain. Refer if necessary.
Assess Baby for Problems	No	Yes	Recommended Actions
The baby has any of these danger signs:         • Fast breathing       • Yellow palms (hands) or         • 60 breaths/minute)       soles (feet)         • Severe chest in-drawing       • Convulsions         • Fever (temperature       • No movement or         > 37.5°C axillary)       movement only on         Hypothermia       stimulation         (temperature < 35.5°C)		<b>→</b>	Assess cause of danger signs and initiate care of refer. Delay discharge until all danger signs have been resolved for at least 24 hours and there is a follow-up plan in place.
The baby is not breastfeeding at least every 2–3 hours (day and night).		<b>→</b>	Delay discharge and evaluate the causes. Treat or refer. Delay discharge until the baby has been breastfeeding well for at least 24 hours.

## Immediate Postnatal Care

- For uncomplicated deliveries, remain in health facility for 24 hours post-delivery (with monitoring and care provided!)
- Assessments in 6 countries found few stay 24 hours AND very little care is being given and/or documented after leaving the delivery room and before discharge.
- A structured protocol of care should be in place for assessments and health education to be provided during the first 24 hrs in health facility. Ensure a clinical record is completed
- Implementing a <u>postnatal care pre-discharge checklist</u> may be useful
- Important opportunity for health education and postpartum family planning
- Follow-up visits for mother and baby on Day 1, 3, 7-14 of life; and 6 weeks



### DELAYED CLAMPING OF THE UMBILICAL CORD TO REDUCE INFANT ANAEMIA

#### World Health Organization Recommends Delayed Cord Clamping

Late cord clamping (performed after 1 to 3 minutes after birth) is recommended for all births while initiating simultaneous essential newborn care.

**The problem:** Anaemia in children, with a major cause being iron deficiency, causes increased child mortality as well as impaired cognitive, motor and behavioural development.<sup>1</sup> Sixty-eight and 66 per cent of preschool-age children are anaemic in sub-Saharan Africa and Southeast Asia, respectively. Two-thirds of the 293 million preschool-age children with anaemia live in these two regions of the world.<sup>2</sup>



**The intervention:** In the recently released 2012 *WHO Recommendations for the Prevention* and Treatment of Postpartum Haemorrhage, WHO reiterates its previous recommendation of waiting to clamp and cut the umbilical cord following the birth of the baby. The recommendation is based on the understanding that a delay in clamping the cord allows

continued passage of blood from the placenta to the baby for an additional 1 to 3 minutes after birth. This brief delay is known to increase the iron stores of the young infant by over 50% at 6 months of age among babies born at full-term.<sup>3</sup> Currently, however, the coverage for this intervention has been limited due to a lack of information about its benefits as well as concerns about the practice. The purpose of this briefer is to describe the benefits of the intervention and why it is not currently being used, so that **delayed cord clamping** can be enthusiastically supported and promoted as a **best practice by maternal health, newborn health, HIV and nutrition** professionals.



#### Theoretical Barriers to and Concerns about Delayed Cord Clamping

- Jaundice (yellowing of the eyes and skin) requiring phototherapy: Studies show only a 4.36% risk of
  jaundice in babies who receive delayed cord clamping, compared to a 2.74% risk in babies who
  have early cord clamping. There is no increased risk of severe jaundice.<sup>4</sup>
- Polycythemia (too many red blood cells causing blood to thicken): Studies reveal no increased risk
  of polycythemia when a baby receives delayed cord clamping.<sup>4</sup>
- HIV: WHO recommends delayed cord clamping for all women, including HIV-positive mothers and mothers whose HIV status is unknown (see Frequently Asked Questions about Delayed Cord Clamping, page 2).<sup>5</sup>
- Previously unclear clinical guidance on performing DCC: WHO now recommends integrating delayed cord clamping into essential newborn care and management of the third stage of labour (see Clinical Guidance, page 4).<sup>5,6</sup>

# **Delayed Cord Clamping**

WHO recommends waiting 1-3 minutes after delivery before clamping and cutting the umbilical cord

- This delay allows additional blood to flow from placenta to newborn, and can increase iron stores in newborn by 50% at 6 months of age
- Reduces risks of other complications (intraventricular hemorrhage, necrotizing enterocolitis; sepsis)
- Does NOT increase risk of mother-to-child HIV transmission
- Only 33% of childbirth providers in Cameroon reported practiced delayed cord clamping, 0% in Chad and 0% in Niger.

https://www.healthynewbornnetwork.org/hnn-content/uploads/WHO\_Delayed-Cord-Clamping-to-Reduce-Infant-Anaemia\_2013.pdf



# Chlorhexidine to reduce omphalitis and sepsis

WHO Recommendation:

Daily chlorhexidine application to the umbilical cord stump during the first week of life is recommended for newborns **who are born at home in settings with high neonatal mortality** (30 or more neonatal deaths per 1,000 live births).

**Clean, dry cord care** is recommended for newborns born in health facilities and at home in low neonatal mortality settings. Use of chlorhexidine in these situations may be considered only to replace the application of a harmful traditional substance, such as cow dung, to the cord stump.

- Research to date is mixed, however many countries have adopted chlorhexidine as a standard of care
- Recommended formulation is chlorhexidine gluconate 7.1% delivering equivalent of 4% chlorhexidine. Other formulations have not been proven.

FEB 2019 WARNING on INCORRECT USE OF CHLORHEXIDINE LEADING TO EYE INJURY/BLINDNESS <u>https://www.healthynewbornnetwork.org/hnn-content/uploads/alert133\_chlorhexidine.pdf</u>

# How to increase breastfeeding in your operations?

### Policy

- Adopt a breastfeeding policy in health facilities
- Take a multi-sectoral approach (health, nutrition, wat/san, shelter, camp management)
- Control donations of breast milk substitutes in your operations. Use Breast Milk Substitute (BMS) only for medical reasons

### Health facility

- Take action from the moment of birth – put skin to skin and encourage breastfeeding within the first 30 minutes
- Non-separation of mother and newborn
- **Training** for midwives/nurses
- Health promotion for mothers/families (ANC/PNC)

### Community

- Understand local customs and practices
- Use community health workers
- Mother-to-mother support groups
- Involve elder females and men in sensitization efforts
- Mother and baby-friendly spaces in community (emergency)

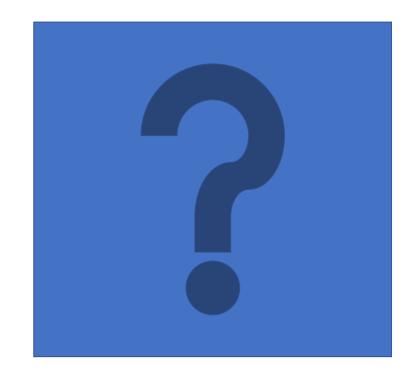
WHO Guideline: Protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services (2017) <u>Ten steps to successful breastfeeding</u> (health facility) <u>Infant and Young Child Feeding in Refugee Situations: A Multi-Sectoral Framework for Action</u> (Save the Children and UNHCR, 2018) <u>Operational Guidance on Infant and Young Child Feeding in Emergencies</u> (Interagency Working Group IFE v3 2017)

## Discussion – Essential Newborn Care

**Questions on Essential Newborn Care?** 

Discussion:

- Does anyone have experience implementing chlorhexidine at the community level?
- If so, how did you go about implementing it?



# How can we address the 3 leading causes of neonatal mortality?



INTRAPARTUM-RELATED (BIRTH ASPHYXIA) SERIOUS INFECTIONS

PRETERM BIRTH COMPLICATIONS

## Key Interventions to Address Intrapartum-related Deaths

Intrapartum Related Deaths

# A Intrapartum-related neonatal deaths.

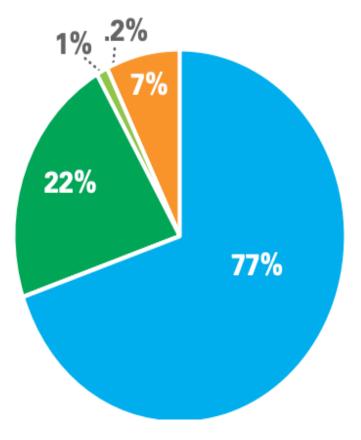
Labour and delivery management

Neonatal resuscitation

Case management of intrapartumrelated events

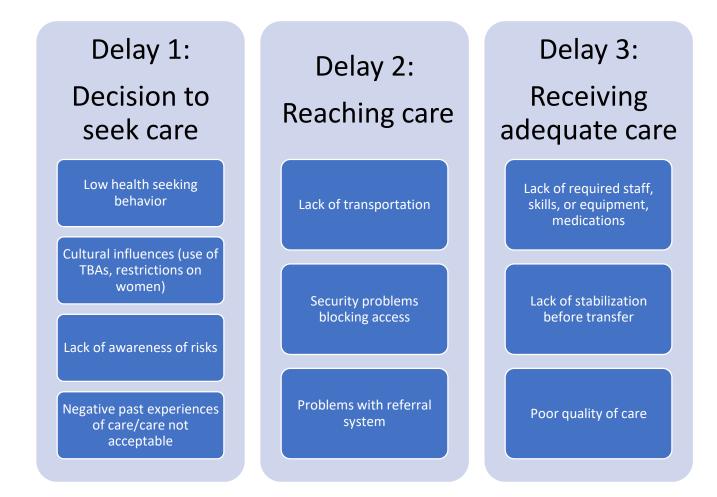
Immediate assessment and stimulation

Antenatal care interventions with effect on small for gestational age babies



## Prevention: Management of labour and birth

- Almost 80% of neonatal deaths from intrapartum related events (asphyxia) can be prevented with proper obstetric care
- Essential Childbirth care including skilled birth attendant 24/7
- EmONC services plus well-functioning referral network (\*venteuse)
- Analyze your 3 delays to remove bottlenecks to proper care



## Are your health facilities ready to provide neonatal resuscitation?

- Approximately 10% of newborns will require some assistance to begin breathing at birth.
- A health provider skilled in basic neonatal resuscitation must be available for every birth
- Majority of staff NEVER trained: Cameroon (67%); Niger (55%) and Chad (67%)
- Average scores on OSCE (practical exercise) in resuscitation < 50% in all countries</li>
- Only 50% of health facilities assessed in Cameroon had a newborn resuscitation bag and mask; 100%\* in Niger; and only 35% in Chad

### Incorrect/harmful practices







### HEALTH FACILITY READINESS:

UNHCR Public Health Officers together with the implementing health partner should make an initial assessment of **health facility readiness** to provide neonatal resuscitation.

Skilled personnel	Available: Yes/No
Health provider trained in neonatal resuscitation available at every birth?	
Formal neonatal resuscitation training conducted within the past year	
Percentage of health workers who have attended neonatal resuscitation course in the past year	
Regular refresher training plan in place	
Staff 'champion' in place to lead regular skills practice	
Training equipment (such as mannequins) available in each facility	

Available*: Yes/No

\*Ensure that equipment is available in delivery room and easily accessible, not locked in office or cupboard away from newborn care area. Ensure equipment is in working order and in hygienic condition.

Assess Readiness to provide Neonatal Resuscitation

- Skilled personnel require regular training to keep skills up
- Consider *Helping Babies Breathe* course with weekly 'skills and drills'
- Basic equipment should be in place in the delivery room (and operating theatre – as a minimum)
- Equipment should be checked and ready to use for each birth.

## Key Interventions to Reduce Infection Deaths

Infection Related Neonatal Deaths

### Infection-related neonatal deaths.

(sepsis, meningitis, pneumonia)

Case management of severe neonatal infection

Clean postnatal practices

Clean birth practices

Chlorhexidine

Breastfeeding

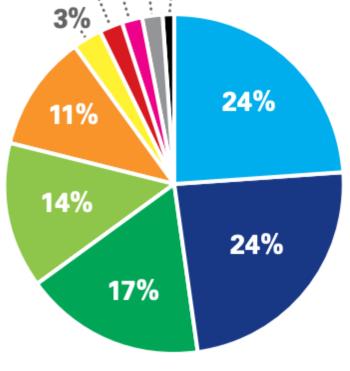
Balanced energy supplementation

Micronutrient supplementation (multiple micronutrients plus iron folate)

Syphilis detection and treatment

Antibiotics for PPROM

Intermittent preventive treatment in pregnancy



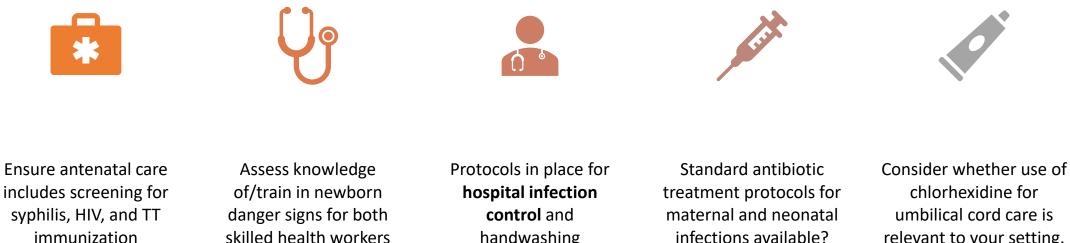
1%

2%

2%

Figure source: IAWG Newborn Health in Humanitarian Settings Field Guide, 2018, pg 35

## Preventing neonatal infection-related deaths



Check HIS data and review ANC register to check adherence

skilled health workers and community health workers

Be alert to vague, nonspecific signs in newborns!

Increased RR as single sign of illness

handwashing promotion/campaigns?

Water point and soap/water in all wards and consultation rooms? infections available? (including drug dose calculations)

Where treatment in health facilities is not possible consider community management of PSBI (Possible Severe **Bacterial Infection**)

chlorhexidine for umbilical cord care is relevant to your setting. Check national policy on CHX

Know local traditional cord care practices



## Preterm births

Preterm birth complications was THE LEADING cause of death among children under 5 years in 2016. Many others are left disabled.

Preterm/premature is defined as a baby born alive before 37 completed weeks of pregnancy.

Low birth weight (<2500g) is a term that may apply to preterm babies as well as those who are not preterm but small for gestational age (SGA)

- Approximately 11% of all births are preterm (range between 5-18%). Rates are increasing globally.
- Majority of preterm births occur between 32 to <37 weeks and most in this age range can survive with simple care interventions.

### Key Interventions to Reduce Preterm-Related Deaths

**G** Preterm-related direct complications.

#### (mainly <32 weeks gestation)

- Hospital care of preterm babies including kangaroo mother care
- Antenatal steroids for preterm labour

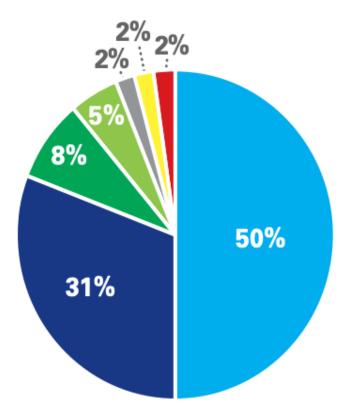
Neonatal resuscitation

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Micronutrient supplementation (multiple micronutrients plus iron folate)



**Source:** Bhutta et al. Can available interventions end preventable deaths in mothers, newborn babies, and stillbirths, and at what cost? Lancet 2014, 384(9940):308.

Preterm complications





# Kangaroo Mother Care – Simple and Saves Lives!

• KMC is care of a preterm infant carried skin-to-skin with the mother. It includes continuous skin-to-skin contact between the mother and the baby; exclusive breastfeeding or feeding with expressed breast milk; and early discharge from hospital.

- KMC reduces mortality rates, infections, length of hospital stay **compared to incubator care**. Increases breastfeeding rates, bonding, satisfaction.
- KMC is estimated to save 450,000 lives per year if available to all
- It is very underused in refugee operations: in baseline assessment (Chad, Cameroon, Niger) it was found that 0% of health facilities had kangaroo wraps available; 0% with supportive clinical guidelines available; 0% protocols/policies; 0% dedicated beds.

## What about incubators?

### **Potential Risks of Incubators**

- X Incubator care is less effective than kangaroo mother care
- X Nosocomial infections ++ (incubating bacteria and insects if strict hygiene standards not maintained or if multiple babies are put in the incubator together)
- X Hyper and/or hypothermia
- X Frequent breakdowns. Needs continuous electricity
- X Reduced breastfeeding due to separation of baby and mother
- X Increased risk to newborn if newborn is left unattended in incubator without frequent observations

### **Minimum Conditions to Consider Incubator Use**

- ✓ Secondary-level health facility or higher
- ✓ Staff are well-trained in how to use incubator, including refresher trainings and trainings for new staff
- Dedicated staff is available to monitor newborns in incubators (newborns are not left frequently unattended). Regular vital signs/observations are taken and recorded
- Biomedical technician is available for maintenance and repairs
- ✓ Electricity supply is reliable without power cuts
- Very strong infection control procedures are in place and followed
- ✓ Mothers stay close by and assisted to BF or express



## Implementing Kangaroo Mother Care

- Check if a national policy on newborn care exists, and if KMC is included in it. Connect with functioning units.
- Can be integrated at all levels of care. Discuss with primary and secondary providers: admission/discharge/referral criteria.
- Health workers need training (and convincing)
- Provide KMC wraps. Kangaroo wraps can be very simple a long piece of local fabric; or specific designs can be ordered\* and/or made locally
- Ensure protocols (admission/discharge, feeding, observations, etc.) clinical guidelines, and patient clinical records forms are in place

\* Soon to be added to UNHCRs Essential Medicines List. See also <u>https://laerdalglobalhealth.com/products/careplus/</u>



# Antenatal Corticosteroids (ACS)

- For threatened preterm birth (24-34 weeks), to speed surfactant development in fetal lungs and reduce respiratory distress syndrome (leading cause of preterm death)
- Antenatal corticosteroids (dexamethasone or betamethasone) are inexpensive and readily available (cost \$0.50-\$1).
- Equity divide: in high income countries, 90% of women in preterm labor receive ACS, but in low income countries coverage rates are estimated at 10%....

Assess your health facilities for readiness to provide care for preterm births

	KEY INTERVENTIONS	YES/NO							
	Determination of gestational age								
THREEATENED PRETERM LABOUR	Maternal antenatal corticosteroids (betamethasone or dexamethasone) for fetal lung development (24-34 weeks)								
	Antibiotics (for women with pre-term pre-labor rupture of membranes)								
	Magnesium sulfate for fetal neuroprotection (<32 weeks)								
	Tocolytic (nifedipine)								
	Transfer to higher level of care								
z	Kangaroo mother care for babies <2000g								
CASE MANAGEMENT: PRETERM NEEWBORN	Breastfeeding support, and expressed breast milk feeding (using nasogastric tube, spoon or cup)								
	Antibiotics and related supplies								
	Safe oxygen use (with protocols)								
	Advanced respiratory support CPAP; surfactant (secondary or tertiary levels)								
	Ensure stabilization of the newborn before transfer, particularly if the transfer will be long or difficult. Transfer in kangaroo position with mother whenever possible.								

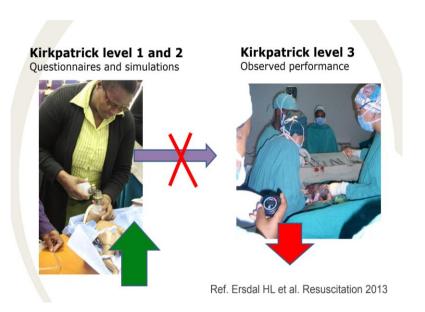
### Discussion: Management of Premature Newborns

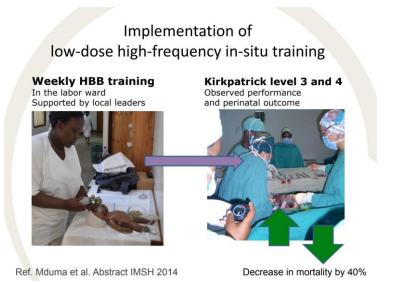
- Questions?
- Discussion:
  - In your setting, what are the main barriers to provision of antenatal corticosteroids?
  - Please share any success factors for implementing kangaroo mother care in your operations



## Capacity Building of Health Care Workers

- Majority of medical staff never receive training in neonatal care
- Emergency skills tend to degrade quickly if not practiced regularly
- Frequent, short, in-house refresher trainings are required to maintain skills (Low Dose High Frequency). Classroom theory is less effective.
- Using Helping Mothers Survive and Helping Babies Survive packages (offering short courses followed by weekly exercises and drills)





Communitylevel interventions to improve newborn outcomes



In emergency phase, or where access to skilled birth attendance is poor, distribution of clean delivery kits (with education on proper use)



Ensure transportation from home to health facility for women in labour (main barrier to facility delivery)

In emergency phase, use multi-sectoral approach for IYCF. Ensure safe space for mothers/breastfeeding



Train CHWs to follow a **structured program** of home visits during pregnancy in the first week postnatal. Focus on health education, referrals, and identification of danger signs.



Use of participatory community groups (mother-to-mother, breastfeeding support groups, mens groups "École de maris", etc.)

#### UNHCR'S ESSENTIAL DRUGS AND EQUIPMENT LIST AND NEWBORN HEALTH

Condition	UNHCR Essential Drugs List						
Essential newborn care		Tetracycline eye ointment Vitamin K Chlorhexidine digluconate 7.1%					
Threatened preterm labour		Nifedipine Betamethasone or Dexamethasone for fetal lung development Magnesium sulfate Antibiotics (erythromycin for preterm prelabour rupture of membranes)					
Management of low-birth weight and preterm births		Kangaroo mother care wraps (COMING SOON) Nasogastric feeding tubes Caffeine citrate (for apnea – secondary level or above) Antibiotics Glucometer Warming table Oxygen and supplies (nasal cannulae) Pulse oximeter					
Intra-partum complications (birth asphyxia)		Neonatal bag and mask (with two sizes of mask – 0 and 1) Oral/nasal suction device (Penguin) Stethoscope Venteuse/vacuum * UNFPA – pending on UNHCRs list					
Potentially Serious Bacterial Infection		Oral and parenteral antibiotics (amoxicillin, ampicillin, gentamycin, benzyl-penicillin, procaine benzylpenicillin, ceftriaxone etc.)					
Neonatal jaundice		Phototherapy lights Bilirubinometer (*pending)					
Other		Local purchase - towel/cloth, baby clothes, hat					

### NEONATAL SUPPLIES IN THE EMERGENCY PHASE

- Clean delivery kits when facilities not functional/accessible (either local made or through RK kits)
- Newborn Care Supply Kits have been developed to complement the interagency RH kits
- Includes items such as blankets and hats; scales; chlorhexidine; KMC wraps; feeding cups for expressed breastmilk. Divided by level of care.



Newborn Health in Humanitarian Settings

FIELD GUIDE

Save the Children

World Health Unicef

https://www.healthynewbornnetwork.org/res ource/newborn-health-humanitarian-settingsfield-guide/

## Monitoring Newborn Health



Analyse HIS data monthly. Know "expected" rates for key indicators. Be alert to both LOW and high results. Audit reports. Re-train front-line staff



Balanced Score Card 'RH comprehensive module' +/- supplementary checklists for neonatal care services/items



Make joint monitoring visits with UNHCR, MoH, implementing partner, UNFPA or UNICEF (if active)

## Summary: Taking Action



Conduct a rapid assessment to check for readiness to provide essential newborn care, EmONC functions, neonatal resuscitation, preterm birth, and infection prevention and treatment. Identify gaps and take action. Familiarize yourself with national policy on key newborn interventions (or any Newborn Action Plan if exists)



Focus on improving/implementing the low-cost, high impact practices



Ensure health workers have access to up-to-date protocols and clinical guidelines, essential equipment and medications. Consider QUALITY OF CARE, not just availability of services .

Ensure an annual training plan for health workers that includes key neonatal topics



Encourage supportive supervision and day-to-day coaching in health facilities (by partner management) Increase joint monitoring visits with PHO/health partner/MoH/UNFPA/UNICEF

# Saving Newborn Life Project-Jordan

### Case study Newborn Health Webinar



# Outline

- Gaps Identified
- Improvement activities undertaken, key partnerships/actors involved in activities
- Successes
- Challenges encountered
- Advice for other operations





- Low cost, high impact interventions minimally applied
- Poor documentation and Health Education
- Lack of routine PNC checkups
- Trainings
- Key medications
- Use of Clinical Guidelines



# **Improvements and Partners**

- Documentation and Monitoring
- Staying for 24 hours (Za'atari)
- Health Education
- Essential Medications and Equipment
- Charts, Check-lists,

## Posters and Leaflets

- IM antibiotics before referrals
- Partograph use
- Low cost, High Impact Interventions





#### **Neonatal Examination Form and Checklist**



Name of th	e Baby:						Date and Time of Delivery:						
					1	L <sup>st</sup> chec	k (At	Birth)					
Date		Time			Pediatrician				Signature				
Delivery Mode	e NVD \Vacuum Gest. Age			Wk	Male\ F	emale	Apgar Score		At 1 min	At 5 min			
Perform skin to skin contact for thermal care						Y۱	N	Resuse		Y \ N	Referral		Y \ N
Perform Delayed Cord Clamp for healthy breathing newborn						Y۱	N	Admini	inister 1 mg Vitamin K1 within the 1 <sup>st</sup> hr. after birth Tim				ie:
Be sure of cord clamping and no bleeding from umbilicus							N	Administer ophthalmic antibiotic ointment to all newborns					Y \ N
Keep the baby warm (baby towels, baby warmer, room temp)						Y۱	N	Place t	wo ID bands for newborn in case one slips off				Y\N
					2 <sup>nd</sup> cheo	c <mark>k (wit</mark> ł	nin 60	-90 m	inutes)				
Date	e Time			Pediat	ediatrician Signature								
		,	VITAL SIGNS	Q 4 hou	irs	•		PHYSICAL EXAMINATION					-
	60 min	4 hr	8 hr	12 hr	16 hr	20 hr	2	4 <u>hr</u>	Head	Ab	domen		
Resp. Rate									Fontanel	Un	bilicus		
Temperature									Face	Hip	IS		
O2 Sat.									Neck	Lin	ıbs		
Heart Rate							Eyes	Me	ental Alertness				
Check umbilicus,	warmth, an	d respira	ation <u>Q 15 min</u>	for the	1 <sup>st</sup> hour and	<b>Q 1 hr</b> for	the 1 <sup>st</sup> 6	hrs.	Mouth	Su	ck\ Swallow		
AN	THROPOM	ETRICS	(can be taker	anytim	ne during ler	ngth of st	ay)		Nose	Gra	asp		
Length Screen for CCHD in Neonates who are disc						discharge							
Head circum. only to reduce false positive results.								Spine	Ge	nital & Anal pate	ency		
								art & <u>Periph</u> . pu	lses				
					3 <sup>rd</sup> ch	eck (Pr	ior to	Disch	arge)				
Date			Time			Pediatricia				Signature			
Passed urine Y \ N Passed meconium						Y\N	Early ir	Early initiation of breastfeeding within the 1st hour				Y \ N	
Provide counse	ortance	e of breastfee	ding			Y\N		vide counseling on vaccination				Y \ N	
Provide appoint	NC for n	ewborn on d	ay 3 & 7	7		Y\N		ovide counseling on proper cord care and hygiene				Y \ N	
Provide counseling on danger signs (hypo\hyperthermia, convulsions, not feeding jaundice, no movement, reddish\swollen umbilicus. Y\N cigarette ash on umbilicus, salting the baby, garlic necklace.									Y\N				
Check vital signs pre-discharge and recheck general physical examination											Y \ N		

Last Revised in March 2017.



# **Partners**

- JHAS
- IMC
- UNFPA
- Affiliated hospitals
- Save the Children-Jordan
- IRD



# Successes

- Capacity Building on Neonatal Resuscitation
  - Involving expertise within the National System
  - Development of training curriculum
  - ToT staff, 94 staff members trained
- CHV tool kit on maternal and child health
- policies in place
- Global Health Media Videos
- Neonatal and Stillbirth Audit Continued





#### Camps NNMR(/1,000 livebirths) 2015-2019



# Challenges

- High Staff Turnover
- Control over affiliated hospitals/Military hospital
- KMC practice application
- Referrals
- Recommendations not possible to apply
- Drills and Mock trainings



## **Advice**

- Baseline assessment
- EMOC, ENC, CHVs (hand in hand)
- Continuous supervision
- Putting policies in place







# Questions





