# Feeding the small and sick newborn in the COVID-19 pandemic



saving children's lives ETAT+ Emergency Triage Assessement and Treatment plus admission

### **An initiative of ETAT+ Trainers**

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### **Outline**



Prof. Grace Irimu (Facilitator) grace.irimu@uo nbi.ac.ke



Dr. Joy Odhiambo Ten steps to successful breastfeeding



**Dr. Muthoni Ogola** Facilitator



Edith Gicheha Breastmilk Expression and Usage



Dr. Rachael Kanguha (Host) Introduction



Dr. Betty Mburu Breastmilk Storage



### Outline



Dr. Hildy Nvonako Trophic feeds



Dr. Fareen Musa Breastfeeding in special groups



Dr. MaryAnne Murugami.

Rapid versus slow feeding and gastric residuals



## Introduction



# Appropriate breastfeeding practices

- Initiating breastfeeding immediately (or within the first 5 minutes)
- Exclusive breastfeeding until 6 months age
- Continued breastfeeding to at least up-to 2 years of age
- Breastfeeding on demand, day and night

Suboptimal breastfeeding practices contribute to 11.6% of mortality in the under 5's globally



## **Topics covered last week**





## BFHI and 10 steps of successful breastfeeding



#### Box 1. Ten Steps to Successful Breastfeeding (revised 2018)

#### Critical management procedures

- 1. a. Comply fully with the *International Code of Marketing of Breast-milk Substitutes* and relevant World Health Assembly resolutions.
  - b. Have a written infant feeding policy that is routinely communicated to staff and parents.
  - c. Establish ongoing monitoring and data-management systems.
- 2. Ensure that staff have sufficient knowledge, competence and skills to support breastfeeding.

#### **Key clinical practices**

- 3. Discuss the importance and management of breastfeeding with pregnant women and their families.
- 4. Facilitate immediate and uninterrupted skin-to-skin contact and support mothers to initiate breastfeeding as soon as possible after birth.
- 5. Support mothers to initiate and maintain breastfeeding and manage common difficulties.
- 6. Do not provide breastfed newborns any food or fluids other than breast milk, unless medically indicated.
- 7. Enable mothers and their infants to remain together and to practise rooming-in 24 hours a day.
- 8. Support mothers to recognize and respond to their infants' cues for feeding.
- 9. Counsel mothers on the use and risks of feeding bottles, teats and pacifiers.
- 10. Coordinate discharge so that parents and their infants have timely access to ongoing support and care.

## **Key clinical practices**



### **Antenatal discussion should:**





## **STEP 3: Focus on antenatal education**

	ANTENATAL PROFILE
MOH216	Hb
REVELLOP KNYA MINISTRY OF HEALTH	Blood Group
MOTHER & CHILD HEALTH HANDBOOK AFYA YA MAMA NA MTOTO	Rhesus
	Serology (VDRL/RPR)
<b>G</b>	TB Screening as per the intensive case finding tool.
	IPT Isoniazed Date Given Next
	HIV:
Name of Mother :	Reactive
Child's Name : Contact Phone Number :	Non Reactive
Onyesha kitabu hiki kila mara uendapo kliniki ya mama na mtoto Carry this booklet at all times during a visit to the health facility and show it to the health worker	Not tested
REVISED EDITION JUNE 2016	Urinalysis
Mother Child Health Handbook KCH 1602017.indd 1	Couple HIV Counseling and testing done Yes
	If No, Councel and test
	INFANT FEEDING
Emphasis on	Infant feeding Counseling done Yes No
breastfeeding	Counseling on exclusive breastfeeding done Yes No
ANC	NOT FOR SALE

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Next Visit

No



**Step 4** "Facilitate immediate and uninterrupted skin to skin contact and support mothers to initiate breastfeeding as soon as possible after birth."

## **Benefits**

- Increased breastfeeding duration
- Better cardiorespiratory stability
- Higher blood glucose
- Decrease in infant crying
- Maternal- infant bonding
- Thermoregulation





## Step 6 Do not provide breastfed newborns any food or fluids other than breast milk unless medically indicated.

### " Prioritize breastfeeding > EBM> Donor human milk > formula"



## Breastmilk Expression, Use and Storage



## **The Lactating Breast**





## Hand expression of breastmilk







- Push breast back towards the chest wall
- Press the thumb and the supporting fingers together and then release.
- Repeat this step until breast is empty



## **Cup Feeding Technique**

- 1. Observe for hunger cues
- 2. Prepare and put appropriate volume of milk in a cup
- 3. Sit the baby at 90<sup>o</sup> supporting the baby's head, neck and back.
- Place the cup on the lower lip and tilt the cup so the milk reaches the baby lips
- 5. Let the baby lick the milk using the tongue
- 6. Continue tilting the cup as the baby continues to lick the milk.
- When baby has taken enough, he will start closing his mouth and even fall asleep











- Do not pour milk into the mouth
- Do not feed a sleeping baby

## **Nasal Gastric Tube Insertion**

#### Sizing the NGT

- Measure the distance from the nose to the ear lobe, then to the midpoint between xiphisternum (epigastrium) and umbilicus.
- Mark the tube at this point

#### Inserting

- Lubricate the tip of the NGT with breast milk/water
- Insert until the measured distance is reached
- Fix the tube with tape at the nose

#### **Confirming position**

- Check that aspirate turns blue litmus paper pink.
- If no aspirate is obtained, inject air down the tube and listen over the abdomen with a stethoscope
- Before feeding always confirm correct position

a) Correct Sizing





c) Correct Placement



### **Monitoring Feeds**

[HOSPITAL NAME]

#### **NEONATAL MONITORING CHART + CPAP**

Version 2.5

Name		IP NO		Sex M 🗆 F 🗆 🔤					D.O.A				D.O.B			
Date today		Diagnosis			-											- 1
Birth Wt	gm	Interventi	ons:	CPAP 🗆 Oxygen 🗆 P	hotothe	rapy 🗆	Blood	tranfusi	on 🗆 E	Exchang	e transj	fusion 🗆	КМС			
Daily Clinician F	eed and Fluid p	orescription	М	onitoring Freq hrs   Time	I											
Day of Life	Current Wt =	gm		Temp ( <sup>o</sup> C)												
Total input(feed and f	fluid) 24hrs =	ml	als	Pulse (b/min)												
Feed: BF 🗆 EBM 🗆 Te	erm Formula 🗆 🛛	Pre-Term Formula	۲ţ	Resp Rate (b/min)												
Route: Cup NGT (	DGT□			Oxy Sat (%) or Cy⁰ Cy⁺												
Volume & Frequency =	ml 3	3hrly 🗆 2hrly 🗆	Г	Resp Distress 0,+,+++												
Total 24hr Volume 🛛 =	ml			CPAP Pressure (cm H <sub>2</sub> O)												
IV Fluid & Additives	Vol (ml)	Duration	ŧ	FiO <sub>2</sub> (%)												
			ssme	Jaundice 0,+,+++												
			Asse	Apnoea Y/N												
				Blood Sugar (mmol/l)												
				Completed by (name)												
Other prescribing instru	ictions			Breastfeeding sufficient Y/N	1											
			eed	BM vol given (ml)												
			"	ormula vol given (ml)												
			p	IV volume given												
Clinician's name		Time:	3	IV Line working Y/N												
Daily IV	Fluid Nursing p	olan	ų	Vomit Y/N												
Start time:			utpr	Urine(diapers changed)												
Hourly rate=	_ml (	_drops/min)	0	Stool Y/N												
Planned vol =	ml in	hrs		Completed by (name)												
Morning shift notes														Cor	npleted b	y (name)
Category: AD BD CD									Total	teed+flu	id in this	shift	m			
Afternoon shift notes									Total	fooduflu	id in thic	chift	ml	Co	npleted b	y (name)
									TOTAL	recutilu	iu in ulls	sint				
									Tetal	food for	id in their	ch:#			nalated b	u (name)
Category: A B B									Total	I otal reed+fluid in this shiftmI Completed b			y (name)			
									10	tai ieed+	-nuid in 2	24015	m			
											D	eficit	ml			

## Preparation of breastmilk storage

Hand Hygiene	<ul> <li>Mothers should wash hands with soap and water before expressing and storing milk.</li> <li>Cleaning of breasts for expression not necessary.</li> </ul>
Risk of Contamination	The risk of milk contamination when using pumps or during hand expression is the same. Always maintain hygiene
	Glass and polypropylene: Adherence of lipid
Storage Container to Avoid	<ul> <li>soluble nutrients.</li> <li>Polyethylene: 60% drop in antibodies and the milk's ability to kill bacteria.</li> <li>Plastic bottles with Bisphenol A (BPA): endocrine</li> </ul>
	disruptor
Care of Containers	• Pump kits for expression and containers for storage should be cleaned with hot soapy water, them rinsed and air dried.



Anne Eglash et al ABM Clinical Protocol #8: Human Milk Storage Information for Home Use for Full-Term Infants, Revised 2017

# Milk storage guidelines

	Storage	Temp	Recommended Duration
•	Room Temperature	16–25°C 27-32°C	8 hours 4 hours
•	Insulated cooler bags/boxes with icepacks	15°C	24 hours
•	Refrigerator	3 - 5°C	4 days
•	Freezer Compartment inside Fridge (one door)	-15°C	2 weeks
•	Self contained freezer unit of a fridge (two door)	-18°C	6 months
•	Chest Deep Freezer	-20°C	12 months



## Using stored human milk

- Use First in First Out principle
- Frozen milk should be slowly thawed in the refrigerator over night - less fat loss.
- **AVOID** thawing milk in a hot water bath and microwave.
- Warm thawed milk by placing the container containing the milk in a bowl with warm water (37-40°C)
- Use breast milk within 24 hours of thawing in the refrigerator
   Anne Eglash et al ABM Clinical Protocol #8: Human Milk Storage Information for Home Use for Full-Term Infants, Revised 2017
   Once breast milk is brought to room temperature it should be used within 2 hours
- NEVER refreeze breast milk once it has been thawed.

Anne Eglash et al ABM Clinical protocol #8 Human Milk Storage Information For Home Use For Full Time Infants, Revised 2017



## Feeding regimes for stable and unstable newborns: The value of trophic feeds



## Definition

- Nutritionally insignificant volumes of enteral substrate Volume of trophic feed – 12 – 24 ml/kg/d.
- Insufficient to meet the nutritional requirements of the preterm.
- Not considered trophic if > 25% of newborn's nutritional needs
- Aims to accelerate the gastrointestinal, physiological, endocrine and metabolic maturity.

Journal of Pediatric Gastroenterology and Nutrition 38:237–238 © March 2004 Lippincott Williams & Wilkins, Inc., Philadelphia



# Physiological Effects of trophic feeds on GIT

### Early Feeding

- Enhanced GIT absorption
- Stimulates vital processes
- Improves digestive tolerance
- Enhances Growth

#### **Delayed Feeding**

- GIT mucosal atrophy
- Reduced intestinal size
- Slow maturation of GIT enzymes
- Bacterial overgrowth

Breastfeeding, A Guide for the Medical Profession, 8th EDITION by Ruth A. Lawrence & Robert M. Lawrence



# Rapid versus slow feeding among preterms/VLBW



# Advancement of enteral feeds in preterms/VLBWs

 Goal of preterm nutrition- achieve a postnatal growth rate approximating that of the normal fetus of the same gestational age.

5-15% loss of BWT (regain in 10-14days)



Weight gain 15g/kg/d

Energy requirement 120kcal/kg/d (105-130kcal/kg/d)



ESPGHAN/ESPEN/ESPR/CSPEN guidelines on paediatric nutrition 2018

# Advancement of enteral feeds in preterms/VLBWs

- Timing of introduction and advancement of feeds for preterms/VLBW infants has important outcomes.<sup>1</sup>
- Slow advancement increase of feeds by <24ml/kg/d (15-20ml/kg/d)
- Rapid advancement increase by 30-40ml/kg/d
- Full enteral feeds 150mls/kg/d (max 180ml/kg/d)<sup>2</sup>

Aim to reach full enteral feeds by: <1000g- 2weeks 1000-1500g- 1week

- 1. SIFT Investigators Group. Early enteral feeding strategies for very preterm infants: current evidence from Cochrane reviews. Arch Dis Child Fetal Neonatal Ed. 2013;98(6):F470–F472
- 2. Dutta S, et al. Guidelines for feeding very low birth weight infants. Nutrients. 2015 Jan 8;7(1):423-42.





# Slow advancement of enteral feeds in preterms/VLBWs

#### **NO EFFECT ON:**<sup>3</sup>

- Risk of NEC
- Mortality risk
- Feeding intolerance

#### **Disadvantages**

- Delay established full enteral nutrition (2-4days, 7 trials)<sup>4</sup>
- Prolonged Parenteral nutrition<sup>4</sup>
- Higher risk for invasive infection
- Longer time to gain weight (2-6days, 7trials)<sup>4</sup>

- 3. Oddie SJ, Young L, McGuire W. Slow advancement of enteral feed volumes to prevent necrotising enterocolitis in very low birth weight infants. Cochrane Database of Systematic Reviews 2017
- 4. Karagol BS, et. al. Randomized control trial of slow versus rapid enteral feeding advancements on the clinical outcomes of preterm infants with 750-1250g. JPEN 2013.



# WHO Recommendation for advancing enteral feeds in preterms/VLBW(1kg-<1.5kg)

In VLBW infants who need to be fed by an alternative oral feeding method or given intragastric tube feeds, feed volumes can be increased by up to 30ml/kg/d with careful monitoring for feed intolerance. <sup>5</sup>

5. WHO recommendations on Newborn Health, May 2017



### Total fluids (IVF+EBM) recommendations in preterms/VLBW

Weight	Day1	Day 2 to Day 7	Day 8 to 1 month of life		
≥1500g	60 mls/kg/d	Increase by 20mls/kg/d to full feeds 150ml/kg/d	150- 160mls/kg/d		
<1500g	80mls/kg/d	Increase by 20mls/kg/d to full feeds 150ml/kg/d	150- 160mls/kg/d		

- Max IVF 150mls/kg/d, max EBM- 180ml/kg/d
- Start Na<sup>+</sup> and K<sup>+</sup> supplementation after 48hrs:
  - Na+ 3mmol/kg/d(19ml/kg/day N/S), K+- 1-2mmol/kg/d

Jochum F, et al., ESPGHAN/ESPEN/ESPR guidelines on pediatric parenteral nutrition: Fluid and electrolytes, Clinical Nutrition (2018)



### **Neonatal Feeding Recommendations**



Day 1: 10% Dextrose plus trophic feed (15-20ml/kg/d; 2ml/kg per feed)

Day 2 : Start EBM(30ml/kg/day), reduce IVF

Unstable newborns : Convulsions, Unconscious, Severe respiratory distress evidenced by severe drawing, absent bowel sounds

EBM/Fluid volume on Day 1 of life based on weight : Less than 1500g 80mls/kg/day  $\geq$  1500g - 60mls/kg/day



# Feeding Recommendations for stable newly born breastfeed



Start with EBM 80 mls/kg/day on day 1 increasing by 20mls/kg/day.

- Start feeds with EBM of 5 mls and increase by 5 mls each 3 hourly feed until full 3 hourly feed volume achieved.
- Eg 1000gm baby EBM = 1kg X80 =80ml/day ÷8 = 10mls 3hrly feeds. First feed 5mls then 10mls every 3hrs

Weight ≥1500g and not able to breastfeed adequately (not on IVF) feed by cup based on infants hunger cues.



## **Calculating feeds**

Birth weight -1.2kg - stable

	Total fluid required /day	Three hourly feeds
Day 1	80 X 1.2 =96ml	12
Day 2	100 X 1.2= 120ml	15
Day 3	120 X 1.2 =144ml	18
Day 4	140 X 1.2 = 168ml	21
Day 5	160 X1.2 = 192 ml	24

Start at 80ml/kg/day volume of feeds.

Increase by 20ml/kg/day to full feeds (150ml/kg); maximum 180ml/kg/day



## Feeding of the stable newborn

REPUBLIC OF KENYA		Weight (Kg)	0.8-0.9 NG 3 hourly feed	0.91.0 NG 3 hourly feed	1.1-1.2 NG 3 hourly feed	1.3-1.4 NG 3 hourly feed	1.4-1.5 NG 3 hourly feed	Total Daily Fluid/Milk Volume
MINISTRY OF HEALTH		Day 1	8	9	11	13	14	80ml/kg/day
		Day 2	10	11	14	16	18	100ml/kg/day
BASIC PAEDIALRIC PROTOCOLS		Day 3	12	14	17	20	21	120ml/kg/day
for ages up to 5 years		Day 4	14	16	19	23	25	140mls/kg/day
February 2016 4th Edition		Day 5	16	18	22	26	28	160mls/kg/day
		Day 6	18	20	25	29	31	180ml/kg/day

3 hourly NGT EBM feed volumes for stable newborns with birth weight less than 1500grams NGT

Age	O.6kg	0.7kg	0.8kg	0.9kg	1.0kg	1.1kg	1.2kg	1.3kg	1.4kg	1.5kg
<b>D-1</b>	6	7	8	9	10	11	12	13	14	15
D-2	8	9	10	11	13	14	15	16	18	19
D-3	9	11	12	14	15	17	18	20	21	23
<b>D-4</b>	11	12	14	16	18	20	21	23	25	26
D-5	12	14	16	18	20	22	24	26	28	30
<b>D-6</b>	14	16	18	20	23	25	27	29	32	34



Emergency Triage Assessement an Treatment plus admission

## **Increasing EBM in unstable newborns**

		<1500grams	≥1500grams
Day 1	10% D	80m/kg/day + trophic feeds	60ml/kg/day + trophic feeds
Day 2	EBM <b>30ml/kg/day</b>	30mls/kg/day ( ÷ 3hrs fe	eeds)
	IVF	<b>100ml/kg</b> – <b>30mls/kg</b> = IVF volume	80ml/kg –30mls/kg = IVF volume
Day 3	EBM 60ml/kg/day	60mls/kg/day ( ÷ 3hrs fe	eds)
	IVF	<b>120ml/kg</b> –60mls/kg = IVF volume	100ml/kg – 60mls/kg = IVF volume

Continue increasing by **20ml/kg** to max 180ml/kg . After trophic feeds on day 1 increase **EBM 30mls/kg/day**, rest parenteral Withhold oral feeds is abdominal obstruction or ileus is suspected

### Feeding of the unstable newborn



3 hourly NGT EBM feeds and ONE hourly IVF for UNSTABLE NEWBORNS with birth weight less than 1500grams

	0.6	-0.7kg	0.8-	0.9kg	1.0-	1.1kg	1.2-	1.3kg	1.4-1.5kg		
	EBM	IVF	EBM	EBM IVF E		IVF	EBM	IVF	EBM	IVF	
	3hrly	mls/hr	3hrly	mls/hr	3hrly	mls/hr	3hrly	mls/hr	3hrly	mls/hr	
D-1	1	2	2	3	2	4	3	4	3	5	
D-2	2	2	3	2	4	3	5	4	5	4	
D-3	5	2	6	2	8	3	9	3	11	4	
D-4	11	0	10	2	12	2	14	3	16	3	
D-5	13	0	17	0	21	2	19	2	22	2	
D-6	15	0	19	0	24	0	23	2	27	2	
D-7	15	0	19	19 0		0	28 0		33	0	

12

REPUBLIC OF KENYA												
			0.8 - 0.9		0.9 - 1.0		1.1 - 1.2		1.3 - 1.4		1.4 - 1.5	
MINISTRY OF HEALTH		Weight (kg)	IVF mls per hr	NGT 3hrly feed								
BASIC PAEDIATRIC		Day 1	3	0	3	0	4	0	3	0	4	0
PROTOCOLS		Day 2	2	5	3	5	3	5	4	5	5	5
		Day 3	1	10	2	10	2	10	3	10	4	10
for ages up to 5 years		Day 4	0	15	1	15	1	15	3	15	4	15
Eshrusru 2046		Day 5	0	16	0	18	0	22	2	26	3	28
4th Edition		Day 6	0	18	0	20	0	25	1	29	3	30
		Day 7+	0	21	0	22	0	27	0	32	0	35



# Gastric residuals monitoring in preterms



## **Gastric residuals in preterms**

- **Gastric residual-** volume of milk + GI secretions remaining in the stomach after a certain time interval.<sup>1</sup>
- Increased residuals common in preterms due to:<sup>1,2</sup>

#### Intrinsic factors

- Immaturity of the gut
  - Delayed gastric emptying
  - Slower intestinal transit
  - Inadequate secretion of gut hormones and enzymes
  - Possible duodenogastric reflux

### Extrinsic factors

- Formula feeds
- Certain drugs e.g. opioids
- Body position
- Illness



1. Abiramalatha T, et. al. Cochrane Database of Systematic Reviews 2019, Issue 7. Art. No.: CD012937

2. Li YF, et. al. Pediatrics and Neonatology 2014;55(5):335-40

## Gastric residuals monitoring effects

#### **NO EFFECTS** in incidence of:

- NEC
- Invasive infection

#### **Disadvantages:**

- Delays time to establish full enteral feeds
- **Delays time to regain birth weight**
- Significant increase in the episodes of feed interruption
- Significant increase in the number of TPN and its complications <sup>1</sup>
- Damages gastric mucosa by negative pressure<sup>2</sup>

2. Li YF, et. al. Pediatrics and Neonatology 2014;55(5):335-40



## **Recommendations for gastric residual monitoring in preterms**

- Do not check for gastric residuals routinely
- Only monitor if any signs suggestive of NEC or feeding intolerance
- Isolated green or yellow residuals are unimportant. Vomiting bile may indicate an intestinal obstruction or ileus.
- Withhold feeds in case of hemorrhagic residuals, as hemorrhagic residuals are significant.



# Breastfeeding in the Covid19 era



## What is COVID-19?



**Coronavirus disease 2019 (COVID-19)** is a respiratory tract infection caused by a newly emergent coronavirus , that was first recognized in Wuhan, China, in December 2019



The virus that causes COVID-19 is designated as **severe** acute respiratory syndrome corona virus 2 (SARS-CoV-2)



March 11, 2020 , WHO characterized COVID-19 as a pandemic



1

2

3

# Modes of transmission & stopping spread of SARs-Cov2

#### **Droplet transmission:**

 Large nuclei(>5µm) spread within 1m by coughing, sneezing or talking to an infected person. Settles by gravity

#### **Direct contact exposure:**

 Contaminated hands directly touches mucous membranes of a susceptible person

#### Fomites:

• Object/surfaces likely to carry the microbes i.e. stethoscope or thermometer

#### Airborne transmission:

 microbes within droplet nuclei (< 5µm)/ dust particles aerosolized by procedures (alveoli)

- Wearing a mask,
- Maintaining distance
- Avoid shaking hands,
- Maintain hand hygiene,
- Cough etiquette
- Wear a mask
- Regular disinfection of surfaces and objects e.g. stethoscopes and thermometers
   Handwashing
- Use of gun thermometers to maintain distance
- Wearing N95 masks and avoid procedures if they don't have to be done

Infection can be spread by symptomatic or asymptomatic patients.- when unwell should be isolated to break the cycle of spread. HCWs should take IPC precautions when attending to all patients



Source: Modes of transmission of virus causing COVID-19: implications for IPC precaution recommendations. 2020; (March): 19–21;

# Identifying a mother with suspected covid 19

#### **Suspected case**

Acute respiratory illness and/or fever >38°C AND no known aetiologies that fully explain the presentation AND a history of travel to a community with COVID-19 transmission at least 14 days prior to symptom onset;
 OR

- Any acute respiratory illness AND having been in contact with a confirmed or probable COVID-19 case in the last 14 days prior to symptom onset; OR
- Severe acute respiratory illness AND requiring hospitalization AND in the absence of an alternative diagnosis that fully explains the clinical presentation

#### **Confirmed case**

 A person with laboratory confirmation of COVID-19 infection, irrespective of clinical signs and symptoms

#### **Probable case**

 A probable case is one with pending results



# Lay out in postnatal, NBU, KMC room & expressing breastmilk room



# **Breastfeeding in COVID19**



#### Spread of infection through breastmilk is unknown

http://www.emro.who.int/nutrition/nutrition-infocus/breastfeeding-advice-during-covid-19-outbreak.html



## Feeding options in COVID19



Best option for the well mother breastfeeding



Feeding option for the unwell mother

- Preferable- Expressed breastmilk
- Others
  - Donor breast milk.
  - Relactation.
  - Wet nursing.



Health care workers and facilities **should not** promote

- Breastmilk substitutes
- Feeding bottles
- Pacifiers and teats



http://www.emro.who.int/nutrition/nutrition-infocus/breastfeeding-advice-during-covid-19-outbreak.html

# **Breastfeeding and HIV**



# **Breastfeeding and HIV**

### **WHO 2016 recommendation**

1

2

3

Breastfeed for at least 12 months and may continue breastfeeding for up to 24 months or longer while being fully supported for ART adherence

Exclusive breastfeeding is recommended, But practicing mixed feeding is not a reason to stop breastfeeding in the presence of ARV drugs.

Shorter durations of breastfeeding of less than 12 months are better than never initiating breastfeeding at all.

WHO Updates on HIV and infant feeding Guideline 2016



## **HIV and breastfeeding**

Mother to make informed decision

Start on the ARVs early (before 3 months gestation)

Promote ARV adherence (mothers lifelong treatment and baby prophylaxis).

Baby prophylaxis – Nevirapine and Zidovudine for 6 weeks then Nevirapine to be continued until six weeks after stopping breastfeeding.

Test infant HIV (DNA) every 6 months until complete cessation of breastfeeding

Exclusive breastfeeding for 6 months and CT BF unto 2 years and beyond.

Transmission of HIV increases if mom stops ARVs abruptly



## MOH guidelines on testing of Pregnant women



# MOH guidelines- for HIV Exposed infant who is breastfed



## Summary

Breastfeeding is indispensable for the growth and development of the baby

Mother should be taught and supported to acquire appropriate feeding practices

HCW should teach the mothers on expression of breastmilk and cup feeding

Delaying trophic feeds is harmful to the newborn

Rapid increase in feeds is recommended on babies not of full enteral feeds on day 1

Do not monitor gastric residual volume

Exclusive breastfeeding should be encouraged in mothers with COVID-19 and HIV positive mothers and the necessary precaution should be taken.

