



# **Global Maternal Health**

## **Objectives:**

- Understand the maternal health issues globally
- Understand the causes of maternal deaths and mortality
- Understand the interventions done globally to decrease maternal deaths and morbidly
  - Antenatal care
  - Promotion of breast feeding practices.....BFHI

### Done by:

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Important | Extra | Notes

Editing file

#### Maternal health **Definition:** Facts: Maternal health refers to the health of Maternal mortality is higher in women • living in rural areas and among poorer women during pregnancy, childbirth and the communities. Due to lake of health postpartum period. surfaces Young adolescents face a higher risk • of complications and death as a result of pregnancy than other women. Skilled care before, during and after childbirth can save the lives of women and newborn babies. Maternal death (death of women while pregnant) accidental causes of death not classified as maternal death (so if pregnant lady died due to gunshot this is not maternal death) Why women die (Maternal mortality fell by almost half between 1990 and 2015) Major complication account for 75% of all maternal deaths: severe bleeding which will lead to severe anemia (mostly bleeding after childbirth) so to 1. prevent it, make sure to clamp the cord from the two ends and make sure all the placenta remnant is spelled out 2. infections (usually after childbirth) may be comes from the forceps 3. high blood pressure during pregnancy (pre-eclampsia and eclampsia) complications from delivery 4. 5. unsafe abortion Other: malaria ,AIDS, during pregnancy Delay in decision to seek care: Delay in reaching d Lack of understanding of Mountains, islands, rivers — poor • complications organization which will delay reaching to the Acceptance of maternal death hospital so the mother will die on the way Low status of women<sup>1</sup> Delay in receiving care: Socio-cultural barriers to seeking care Supplies, personnel (e.g. lake of female doctors) • <sup>1</sup> in some countries the women cannot leave the Poorly trained personnel with punitive • house until the husband approve attitude Finances •

Maternal mortality indicator							
Maternal mortality ratio: Number of maternal death per live births (Maternal death / live birth) Still birth, abortions are excluded	Maternal mortality rate: Number of maternal death in given period per population of women in reproductive age (Maternal deaths / women in rep age) Reproductive age: 15 -45	Life time risk of maternal mortality = (N of maternal deaths over the reproductive life span) / (women entering the reproductive period) Proportion maternal = proportion of all female deaths due to maternal causes = (N of maternal deaths in a period/Number of all female deaths in same period) * 100					

# Successful Interventions for Maternal Care (important for OSCE)

Antenatal care (taking care of pregnant woman before, during and after birth):

- Nutrition support (what to eat, how much, how to take the calories. To prevent anemia)
- Personal hygiene, dental care, rest (2 hrs) and sleep (8 hrs), regular bowel habits..enough fiber and fruit intake...avoid constipation (cuz with constant constipation there will be hemorrhoid and unseen bleeding during delivery)
- Immunization (mother and the newborn) tetanus vaccination is the most important for the mother
- Drugs; thalidomide (deformed hands), corticosteroids (impair fetal growth), streptomycin (8th nerve damage)
- Education on delivery and care of the newborn
- Identifying high risk pregnancies, smoking and exposure to passive smoking
- Emphasizing on ANC visits and maintenance of (antenatal) AN card
- Importance and management of lactation

# Why is ANC is critical?

- Reduces complications from pregnancy and childbirth
- Reduces stillbirths and perinatal deaths
- Integrated care delivery throughout pregnancy

# Antenatal care (important for OSCE)

#### History (first visit)

- Confirm the pregnancy (usually they come complaining of absent period)
- Any previous complications (abortions, stillbirths)
- Calculate expected day of birth EDB (add 9 months and 7 days to the first day of last menstruation) and record it on AN card. This is an estimation, you will use US to be more accurate
- Record symptoms (fever, vomiting, vaginal delivery, palpitation, easy fatigability,
- Any concurrent illness; asthma, heart disease, jaundice, HTN, DM, TB, STDs, HIV, blood and bleeding disorders
- Family history of twins, congenital malformations
- History of drug allergies, or drugs **Abdominal exam:**

Fundal height: use your 2 fingers to palpate the head, start just below the breast until you reach the head.

712-8 months 612-7 months 512-6 months

> 312-4 months 212-3 months

812-9 months

412-5 months

If the head at the symphysis pubis then it is the 2-3<sup>rd</sup> month of pregnancy. If you feel the head at the umbilicus then it is the 5-6<sup>th</sup> month. If you feel just below the breast then it is 8<sup>th</sup> month

#### **Ultrasound:**

• Fetal assessment

One ultrasound scan before 24 weeks of gestation (early ultrasound) is recommended for pregnant women to estimate gestational age

#### Physical exam:

- General physical; pallor, pulse,
- respiratory rate, edema (slight edema is normal, if co-exsistant with any diseases like HTN, referral) when do you need to be concern for abnormal edema? If the lady told you her ring is stuck and can't go up and down.
- BP (every visit) (2 readings > 140/90 in one sitting)
- Dipstick urine +2 albumin
- High BP + albuminuria = preeclampsia
   refer
- Weight it should be 9-11 kg during pregnancy. Approx. 2 kg /month. If the lady gaining more weight then you need to investigate for the cause (DM, polyhydramnios)
- Cardiovascular (check for any murmur specially mitral stenosis)
- Breast exam to prepare for lactation, usually ladies come with retracted nipple, so ask her to pull her nipple slightly everyday until the nipple comes to its normal position

#### Assessment of gestational age:

- Routine US + LMP (history)
- Lab investigations: Pregnancy test, Hb estimation, Urine for albumin and sugar, blood grouping, Rh factor, VDRL, HIV testing, Blood sugar, HBsAg for Hep B

#### Antenatal care counseling:

 Nutritional recommendations
 Daily oral iron and folic acid supplementation with 30 mg to 60 mg of elemental iron and 400 µg (0.4 mg) of folic acid is recommended for pregnant women to prevent maternal anaemia, puerperal sepsis, low birth weight, and preterm birth. Simple advice is to ask the mum to take 7 dates, red peens, red meats, green vegetables

#### Antenatal care:

Maternal assessment

Hyperglycaemia first detected at any time during pregnancy should be classified as either gestational diabetes mellitus (GDM) or diabetes mellitus in pregnancy.

#### **Preventive services:**

- A seven-day antibiotic regimen is recommended for all pregnant women with asymptomatic bacteriuria
- Tetanus toxoid vaccination is recommended for all pregnant women,

#### Tetanus vaccination (for the first pregnancy or non vaccinated pregnant lady):

 Table 2 Guidelines for tetanus toxoid immunization of women who were immunized during infancy, childhood or adolescence<sup>b</sup>

Table 1 Tetanus toxoid immunization schedule for women of childbearing age and pregnant women without previous exposure to TT, Td or DTP<sup>a</sup>

	Previous immunizations (based on written records)	Recommended Immunizations				
Age at last vaccination		At present contact/pregnancy	Later (at intervals of at least one year)	Dose of TT or Td (according to card or history)	When to give	Expected duration of protection
Infancy	3 DTP	2 doses of TT/Td (min.4 weeks interval between doses)	1 dose of TT/Td	1	At first contact or as early as possible in pregnancy	None
Childhood	4 DTP	1 dose of TT/Td	1 dose of TT/Td	2	At least 4 weeks after TT1	1-3 years
School age	3 DTP + 1 DT/Td	1 dose of TT/Td	1 dose of TT/Td	3	At least 6 months after TT2 or during subsequent pregnancy	At least 5 years
School age	4 DTP + 1 DT/Td	1 dose of TT/Td	None	4	At least one year after TT3 or during subsequent	At least 10 years
Adolescence	4 DTP + 1 DT at 4-6 yrs + 1	None	None	-	pregnancy	
	TT/Td at 14-16 yrs			5	At least one year after TT4 or during subsequent	For all childbearing age years and
b.1.16	b Advanted Groups Calculus AM The immunuslassical basis for immunuscription series Medule 2: Advance Conserve World Haalth Operations 1002				pregnancy	possibly longer

<sup>D</sup> Adapted from: Galazka AM. The immunological basis for immunization series. Module 3: tetanus. Geneva, World Health Organization, 1993 (WHO/EPI/GEN/93.13), page 17.

<sup>a</sup> Source: Core information for the development of immunization policy. 2002 update. Geneva. World Health Organization, 2002 (document WHO/ V&B/02.28), page 130.

# **Common physiological symptoms**

Ginger, chamomile, vitamin B6 and/or acupuncture are recommended for the relief of nausea in early pregnancy, Advice on diet and lifestyle is recommended to prevent and relieve heartburn in pregnancy	Magnesium, calcium or non-pharmacological treatment options can be used for the relief of leg cramps in pregnancy, Regular exercise throughout pregnancy is recommended to prevent low back and pelvic pain.	
Wheat bran or other fibre supplements can be used to relieve constipation in pregnancy if the condition fails to respond to dietary modification,	Non-pharmacological options, such as compression stockings, leg elevation and water immersion, can be used for the management of varicose veins and oedema in pregnancy, based on a woman's preferences and available options.	

#### 1 HOSPITAL POLICIES The TEN STEPS to Successful a Not promoting infant formula. bottles or teats Breastfeeding (3) Keeping track of support for breastfeeding STAFF COMPETENCY ANTENATAL CARE CARE RIGHT AFTER BIRTH support mothers d by 0 Encouraging skin-to-skin contact between mother and mothers o put their aby to the reast right SUPPORT MOTHERS ROOMING-IN SUPPLEMENTING Letting mothers and babies stay together day and night Making sure that mothers of sick babi can stay near their



World Health Organization



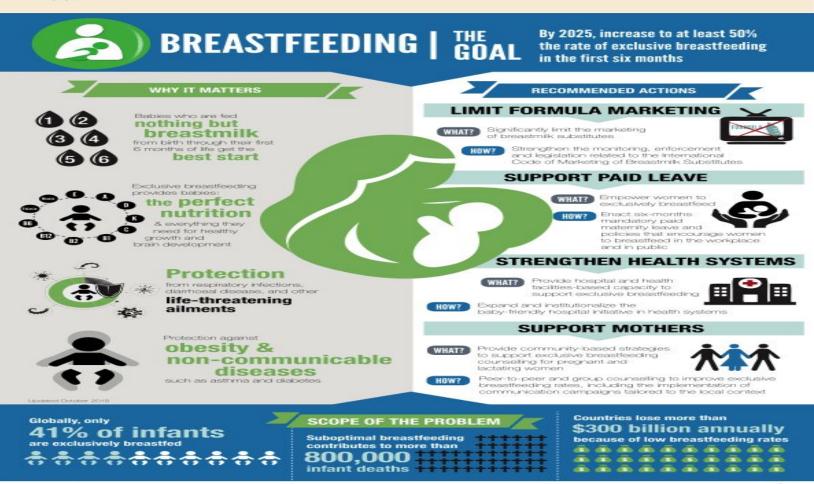






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# 1- You asked to train the health care providers in your area on the benefits of breastfeeding

# What is the duration of exclusive breastfeeding as recommended by WHO

- A-2 months
- B-4 months
- C-6 months
- D-8 months

## С

# **2** -Which of the following is among the **4** pillars of the WHO model for safe motherhood?

- A- family counseling
- B- family planning
- C- family therapy
- D- family advocating

B(ANC, clean and safe delivery, emerg obest, car, family planing)

# **3** -What is the recommended vaccine for pregnant women?

- A- syphilis
- B- malaria
- C- rubella
- D- tetanus
- D

### 4- What is the major cause of maternal death worldwide?

- A- infection
- B- hemorrhage
- C- unsafe abortion
- **D- obstructed labor**

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# 5- What of the following is the definition for the maternal mortality ratio?

- A- number of maternal deaths per live births
- B- number of maternal deaths per population of women at reproductive age
- C- number of maternal deaths per number of females entering their reproductive age
- D- Number of maternal death in given period per population of women in reproductive age

# Good luck!

