Maternal and Child Health (MCH)

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Objectives:

- -Define MCH
- -Identify the components of MCH
- -Recognize the main objectives and elements of maternal health care (antenatal, natal and postnatal care)
- -Spot the factors determine the utilization of MCH services

Maternal & child Health (MCH)

- Maternal and child health (MCH) care is the health service provided to mothers (women in their child bearing age) and children. The targets for MCH are all women in their reproductive age groups, i.e., 15 - 49 years of age, children, school age population and adolescents.
- Is one of the important elements of Primary Health Care.

- It refers to promotive, preventive, curative & rehabilitation health care for mothers & children.
- These services should be available affordable and accessible to all the target population in their communities.

MCH Problems

- Main health problems affecting the health of mother and child turn around:
- **1.** Malnutrition
- **2. Infections**
- **3. Consequences of unregulated fertility**
- 4. Lack of health care and other services with poor socioeconomic conditions.



Special services for women and children.



The reasons for combined services for women & children

6.6. milion DEATHS PER YEAR for children under age five, most of them preventable



1- Mothers & children form the majority of the population in developing countries

2- Many of health problems faced by mothers &children are preventable .

3- Stress of pregnancy, lactation, growth & development

4- Mother &children represent the least powerful sector of the community .

5- Deaths of mothers &children is major determinant of mortality in developing countries

OBJECTIVES OF MCH SERVICES

•To insure complete health care for all children in the community.

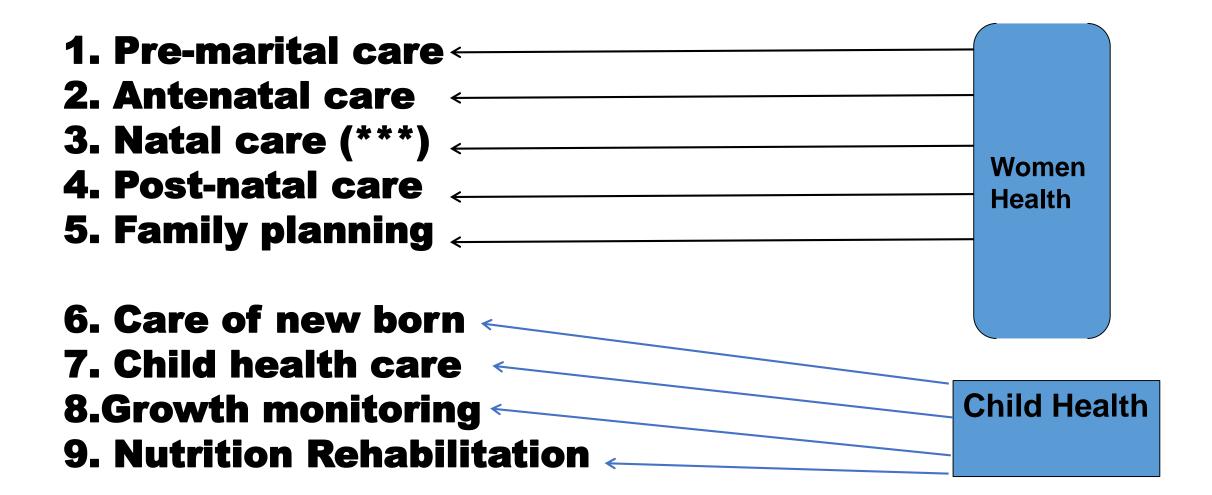
• To insure health care for all women during their reproductive life.

Regulate fertility and promote family planning services.

Components of Maternal and Child Health

- □ Maternal health.
- **Child health.**
- □ Family planning.
- **School health.**
- □ Handicapped children.
- □ Care of children in special setting such as day care

Essential elements of MCH services in PHC center:





MATERNAL HEALTH

Understanding the mom to be

MATERNAL HEALTH CARE

Definition (WHO) Maternal health refers to the health of women during pregnancy, childbirth and the postpartum period.

Each stage should be a positive experience, ensuring women and their babies reach their full potential for health and well-being.

Why maternal health is important?

Not only does access to quality maternal healthcare ensure the good health of a mother – her good health also helps to ensure the good health of her newborn child and the rest of her family

The Objectives of Maternal Health Services

- To provide optimal antenatal care to pregnant women as early as possible
- To prevent and detect any deviation on the normal pattern of pregnancy
- To identify and give special attention and care to pregnant women at risk
- To ascertain outcome of each registered pregnancy and follow up on the survival of newborn infants

 To reduce maternal deaths by early detection and management of risk factors and complications

- To ensure that optimal standard of care is provided to high risk pregnant women during delivery.
- To prevent adverse complications that may arise after childbirth by providing postnatal care either at home or in PHC as early as possible and within 42 days

•To promote birth spacing by provision of comprehensive family planning services to women (counseling and supplies)

 Encourage women to share responsibility of own health and maintaining healthy lifestyle such as weight control and physical exercise

Pre-marital care

Premarital care (PMC) is a worldwide activity that aims to diagnose and treat unrecognized disorders and reduce the transmission of diseases to couples and children.

Premarital care (PMC) involves the promotion of health and well-being of a woman and her partner before pregnancy and is considered a primary preventive approach for couples planning for conception and an important step towards protecting society and allowing people to enjoy life

> PMC includes premarital health counseling and a general medical examination PMC can identify and modify, through prevention and management, some behavioral, medical, and other health risk factors known to impact pregnancy outcomes

PMC may include the following

1.Complete medical and family history: thalassemia, TB, STD.

2.Full clinical examination

3.Health Education, sex education, counseling, Family Planning education & STDs prevention. 4.Laboratory investigation blood group and Rh, HIV,HB&C 5.Immunization

ANTENATAL CARE

- Antenatal care is the care received during pregnancy from skilled health personnel.
- The World Health Organization defines antenatal care (ANC) as "care before birth", and includes:
- > Education
- > Counseling
- Screening and treatment to monitor and promote the well being of mother and child.

As soon as you know you are pregnant, seek antenatal care for:



Respectful care throughout pregnancy will help protect you and your baby's health.



Objectives of antenatal care

- To maintain the mother and babies in the best possible state of health.
- To recognize abnormalities and complications at an early stage.
- To educate the mother in the physiology of pregnancy.

Basics of ANC

1.Ante-natal examination2.Risk screening and assessment3.Preventive measures4.Health education

ante-natal follow-up should be: Adequate: which includes quantity& quality Quantity

□ Time of onset of first contact →1st trimester

 \Box No. of contacts \rightarrow

Quality antenatal care will:

Encourage women to seek skilled care at childbirth

Reduce stillbirths, childbirth complications and newborn deaths

Help women get care and counselling for HIV, malaria, TB and other conditions

Quality antenatal care should be available for all women to ensure a positive pregnancy experience. WHO recommends a minimum of four antenatal visits. <u>Changed since</u> 2017.

In Iraq still follow the minimum four antenatal visits

The WHO recommendation :Antenatal care with a minimum of eight contacts are recommended to reduce perinatal mortality and improve women's experience of care.

The WHO model recommends pregnant women to have their first contact during the first 12 weeks' gestation.

With following contacts taking place at: 20, 26, 30, 34, 36, 38- and 40-weeks' gestation The contacts during the third trimester are at critical time points that may allow assessment of well-being and interventions to reduce stillbirths

WHO FANC OLD MODEL model	2016 WHO ANC model						
First t	First trimester						
Visit 1: 8-12 weeks	Contact 1: up to 12 weeks						
Second	Second trimester						
Visit 2: 24-26 weeks	Contact 2: 20 weeks Contact 3: 26 weeks						
Third	Third trimester						
Visit 3: 32 weeks	Contact 4: 30 weeks Contact 5: 34 weeks						
Visit 4: 36-38 weeks	Contact 6: 36 weeks Contact 7: 38 weeks Contact 8: 40 weeks						

Return for delivery at 41 weeks if not given birth.

WHO is recommending early pregnancy ultrasound before 24 weeks for :

- > Accurate gestational age ascertainment
- > Identifying multiple pregnancies and fetal anomalies.
- > Enhance the maternal pregnancy experience

Components of ANC

- **I. Routine well woman care during pregnancy**
- ii. Specific Health protection in pregnancy(WHAT ARE ?)
- **III. Continuous monitoring of maternal well being**
- iv. Continuous monitoring of fetal development
- v. Mental Preparation
- vi. Family Planning

Schedule of Tetanus Toxoid (WHO)

- TT1: At end of 1st trimester
- **TT2:** Four weeks after TT1
- TT3: Six months after TT2
- **TT4:** One year after TT3
- TT5: One year after TT4 or during next pregnancy

What is a high-risk pregnancy?



All pregnancies carry risks.

The definition of a "high-risk" pregnancy is any pregnancy that carries increased health risks for the pregnant person, fetus (unborn baby) or both.

People with high-risk pregnancies may need extra care before, during and after they give birth.

This helps to reduce the possibility of complications.

Central purpose of antenatal care is to identify 'High Risk' cases as early as possible and give skilled care to them.

Assessment of risk pregnancy :

- > During ante-natal care women are classified according to the risks associated with the pregnancy
- Risk assessment in pregnancy helps to predict which women are most likely to experience adverse health events and enables providers to administer risk-appropriate perinatal care.
- > High risk pregnant women are advised for more frequent antenatal contacts and they must deliver in a hospital

A high-risk pregnancy may be one that involves chronic health problems, such as diabetes or high blood pressure; infections; complications from a previous pregnancy; or other issues that might arise during pregnancy.

What causes high-risk pregnancy?

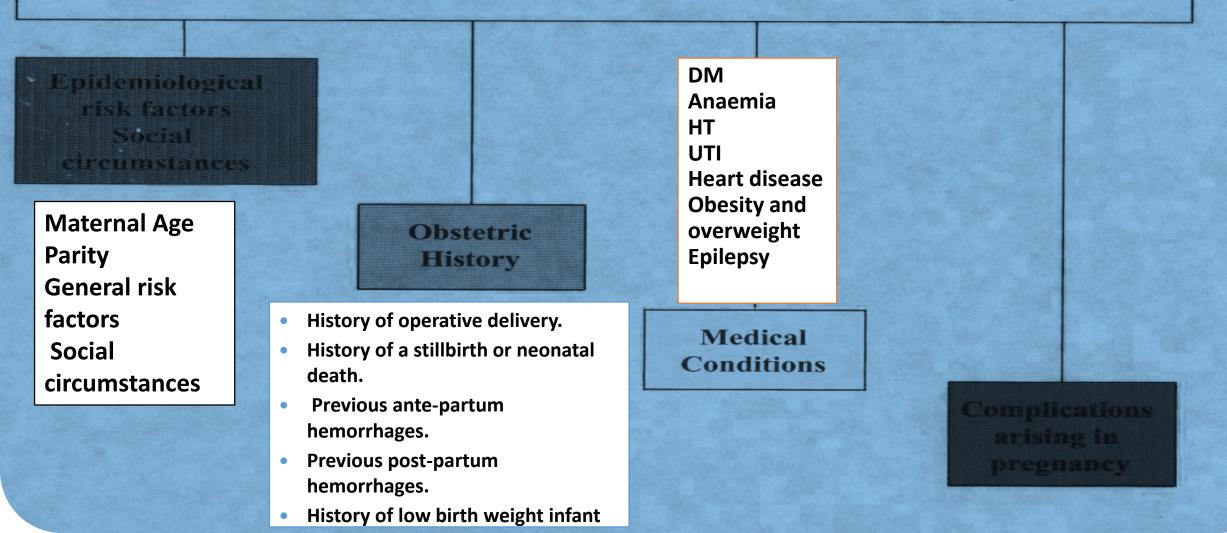
Factors that make a pregnancy high risk include:

> Preexisting health conditions.

- > Pregnancy-related health conditions.
- > Lifestyle factors
- > Age (being over 35 or under 17 when pregnant).

ASSESSING RISK IN PREGNANCY

A risk factor is the name given to any condition, past or present, which is known to be associated with increased maternal and/or fetal morbidity.



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Natal care is referred to the care given to a woman during childbirth.

Caring for woman in labour demand sensitivity and awareness of her views of labour and of her needs as they relate to her experience.

WHO estimates that 15% of births/pregnancies experience "major obstetric complications.

Three quarters of all maternal deaths occur during delivery and immediate post- partum period.

Therefore, the WHO recommends skilled attendant at every birth that can:

1.Provide good quality care on an ongoing basis ,care should be hygienic , safe and kind.

2. Readiness to deal with complications for mother and baby such as prolonged labor, antepartum hemorrhage, convulsions,

malpresentation, prolapse of cord, etc.

3.Refer on time and safely when higher level care is needed

4-Care of the baby at delivery- resuscitation, care of the cord, care of the eyes.

WHO recommends that a women not be discharged before 24 hours after birth.

Regardless of the place of birth, it is important that someone accompanies the woman and newborn for the first 24 hours after birth to respond to any changes in her or her baby's condition.

POSTNATAL CARE(PNC)

Postnatal period is defined by the WHO as the period beginning one hour after the delivery of the placenta and continuing until six weeks (42 days) after the birth of an infant.

(PNC) is the care given to the mother and her newborn baby immediately after the birth and for the first six weeks of life

Why Postnatal Care(PNC) is important ?

- The postnatal period is a critical phase in the lives of mothers and newborn babies.
 Many complications can occur in the first 24 hours.
- Most maternal and infant deaths occur during this time.
- This is the most neglected period for the provision of quality care.

When to start PNC

- WHO recommends mothers and new born should received PNC in health facilities for at least 24 h after birth, if birth in health facility
- If birth at home the 1st postnatal contact should be as early as possible within 24h of birth.
- At least three additional contacts are recommended for all mothers and new born on:

bay 3 [48-72hr]

Between days 7-14 after birth

Six weeks after birth

The first weeks following childbirth are an important and special time

All women and babies should receive care in health facilities during the first 24 hours after birth.

Three additional postnatal care contacts should occur in the first 6 weeks.

research for impact



Aims of Care in the Postpartum Period

Care during the postpartum period aiming the following:

1-Support of the mother and her family in the transition to a new family arrangement, and response to their needs.

2-Prevention, early diagnosis and treatment of complications of mother and infant, including the prevention of vertical transmission of diseases from mother to infant.

3-Referral of mother and infant for specialist care when necessary.

4-Support of breastfeeding.

5-Counseling on maternal nutrition, and supplementation if necessary.

6-Counseling and service provision for contraception, birth spacing.

7-Immunization of the newborn and mother

The most frequent reported health problems in the postpartum period are :

Infections (genital infections).

- Bladder problems .
- Frequent pelvic and headache pain .
- Hemorrhoid and anemia .
- Constipation .
- Depression , anxiety .
- Breast problems .

POSTNATAL CARE SERVICES IN IRAQ

The mother visits the PHC centers at least once during the 6 weeks following delivery, where the mother receives physical examination, ferrous sulfate tablets if anemic, vitamin A (200,000 IUs) and may receive counseling on breast-feeding and family planning through health education, and immunization according to the national schedule. The factors are known to affect the use of maternal health services across the world:

- ***Maternal education**
- ***Woman's age**
- ***Employment and income**
- ***Socio-economic status**
- ***Residence (i.e. rural/urban)**
- *****Parity
- ***Distance to health facilities**
- ***Exposure to the media**

A third of women do not have even four of a recommended eight antenatal checks or receive essential postnatal care, while some 270 million women lack access to modern family planning methods The main factors that prevent women from receiving or seeking care during pregnancy and childbirth are:

- Poverty and cost
- □ Distance to facilities
- □ Lack of information
- □ Inadequate and poor-quality services
- Cultural beliefs and practices, lack of decision-making power within the family
- $\hfill\square$ Multiple demands on women's time .

To improve maternal health, barriers that limit access to quality maternal health services must be identified and addressed at both health system and societal levels.



Any Question

References World Health Organization

Counselling for Maternal and Newborn Health Care: A Handbook for Building Skills.2018.

WHO recommendations on postnatal care of the mother and newborn.2017