Maternal And Child Health



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Objectives:

- -Explain reproductive health and its components
- -Define MCH
- -Identify the components of MCH
- Ascertain the main objectives and elements of maternal health care (antenatal, natal and postnatal care)
- -List out the factors influence the utilization of MCH services

REPRODUCTIVE HEALTH



Reproductive health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity, in all matters relating to the reproductive system and to its functions and processes.

Importance of Reproductive Health

It is very important for an adult and adolescents to be aware of sexual health, reproduction, contraceptives, and STDs.

This will help in maintaining good reproductive health, physically as well as mentally.

People can protect themselves from sexually transmitted infections and diseases only if they are well informed about the same.

Women should be aware of their fitment for pregnancy. They must have access to proper medical services when they are pregnant, have a safe delivery and deliver a healthy baby.

Components of Reproductive Health

There are three essential components of sexual and reproductive health care-

- 1. Family planning It has a significant impact on the well-being of families and especially women. With better family planning and the use of contraceptives, one can avoid unwanted pregnancies, and space births and also protect themselves from STDs.
- 2. Sexual health It refers to a respectful and positive approach towards sexual relationships. It is a very important prerequisite for good reproductive health.
- 3. Maternal health It refers to the maintenance of a woman's health during pregnancy and after childbirth.

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.
 - Maternal and child health" refers to the promotive, preventive, curative and rehabilitative needs of pregnant women, before, during and after delivery of an infant and pre school children from birth to 5 years.
- Is one of the important elements of Primary Health Care.
- 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



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

289,000 maternal deaths per year

- 1- Mothers &children form the majority of the population in developing countries(In Iraq 11.16% of population are under five children and, 24.74% of them between 5-14 years . 24.7% of population are women in 15-49 years.)
- 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

- Early diagnosis and treatment of the health problems of all mothers and children
- > Reduce maternal mortality and morbidity.
- > Reduce prenatal and neonatal morbidity and mortality
- > Prevent malnutrition
- > Prevent communicable diseases
- > Promoting reproductive health
- > Promote and protect health of mothers
- Promote and protect physical growth and psychosocial development of children
- > Health education and family planning services
- > Child survival
- > Ensure birth of healthy child

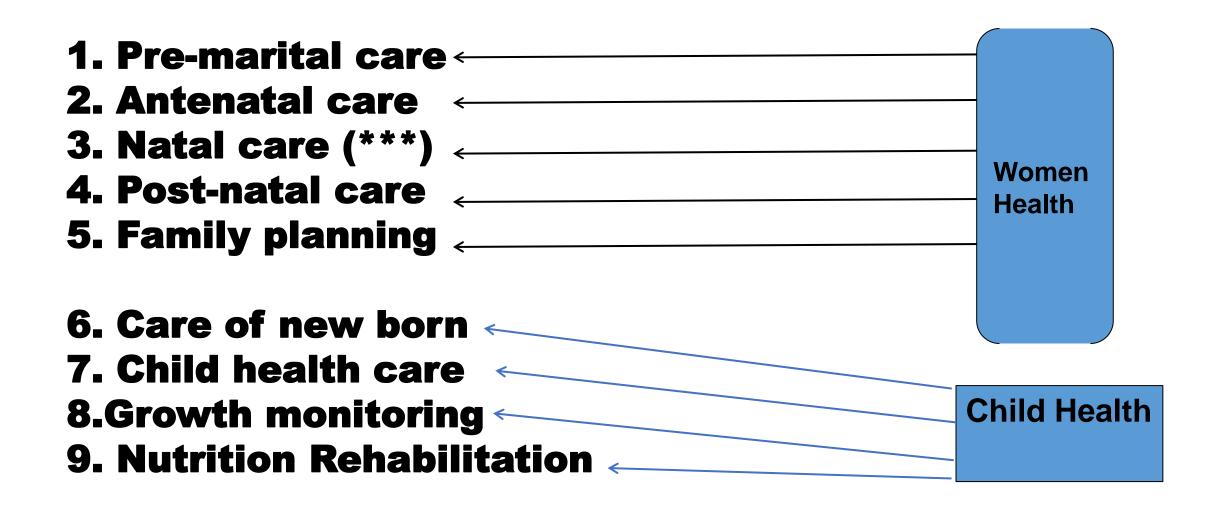
Components of Maternal and Child Health

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

Organizational Activities OF MCH Services

- □ Complete health check up and care of the child and mother from conception to birth
- ☐ Responding to the health problems of mothers and children
- ☐ Providing health education to parents for taking care of their children

Essential elements of MCH services in PHC center:





MATERNAL HEALTH CARE

Maternal health refers to a woman's health and wellbeing before, during, and after pregnancy and includes aspects of physical, mental, emotional, and social health.

The World Health Organization defines maternal health as:

"the health of women during pregnancy, childbirth, and the postnatal period." In most cases, maternal health covers the health care dimensions of family planning, preconception, prenatal(antenatal), and postnatal care in order to ensure a positive and fulfilling experience.

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

What are the three factors of maternal health?

A many of maternal factors (including <u>pre-existing conditions</u>, <u>environmental exposures</u>, and <u>genetic predisposition</u>) are known to influence pregnancy, childbirth, and the health of both the mother and her child during pregnancy and long after birth.

- Pre-existing medical conditions (for example polycystic ovary syndrome, diabetes and endometriosis). Maternal stress and mental health (including socio-economic factors, stigmas)
- Environmental exposures (for example smoking, alcohol and pollution) Obesity/high BMI.

What are maternal problems?

Maternal health problems related to pregnancy and giving birth can occur during pregnancy, during delivery, and after a pregnancy ends. Some common examples of maternal morbidity include the following:

- Cardiovascular problems, such as heart disease and blood vessel problems.
- Diabetes.
- High blood pressure

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

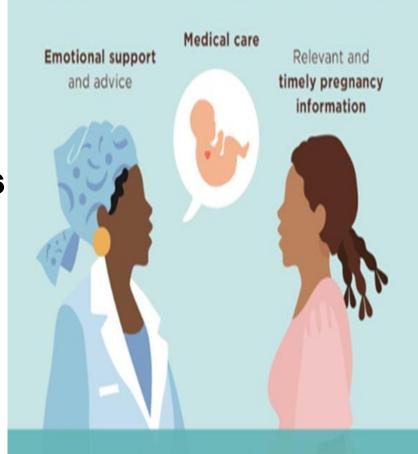
1.Complete medical and family history: thalassemia, TB, STD.

- 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.



Antenatal care (ANC) is the care of the woman during pregnancy. The primary aim of ANC is to promote and protect the health of women and their unborn babies during pregnancy so as to achieve at the end of a pregnancy a HEALTHY MOTHER and a HEALTHY BABY.

Objectives of ANC

- 1-To ensure that the pregnant woman in a good health status before pregnancy
- 2-To ensure that the pregnant woman and her unborn child are in the best possible health prior to delivery
- 3-To ensure that all pregnant women understand
- (I) The complications of pregnancies that may lead to death
- (II)The best approach to safe delivery
- (III)The best way of bringing up their babies.

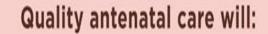
Basics of ANC

- **1.Ante-natal examination**
- 2. Risk screening and assessment
- 3. Preventive measures
- 4. Health education

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

Quantity

- \Box Time of onset of first contact \rightarrow 1st
 - trimester
- \square No. of contacts \rightarrow







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. Changed since 2017.

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 trimester	
Visit 1: 8-12 weeks	Contact 1: up to 12 weeks
Second trimester	
Visit 2: 24-26 weeks	Contact 2: 20 weeks Contact 3: 26 weeks
Third trimester	
Visit 3: 32 weeks Visit 4: 36-38 weeks	Contact 4: 30 weeks Contact 5: 34 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.

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

- > To estimate gestational age
- > Improve detection of fetal anomalies and multiple pregnancies
- > Reduce induction of labour for post-term pregnancy
- > Improve a woman's pregnancy experience.



Components of ANC

Antenatal care provides an essential link between women and the health system and offers essential health care services in line with national policies, including

- > Counseling about the danger signs of pregnancy and delivery complications and where to seek care in case of emergency
- Counseling on birth preparation, emergency readiness, and the development of a birth plan
- Providing advice on proper nutrition during pregnancy
- Detecting conditions that require additional care and providing appropriate treatment for those conditions
- > Detecting complications that influence choice of birthing location

- > Supplying Iron and Folate supplement
- Providing treatment for conditions that affect women's pregnancies, such as malaria, tuberculosis, hookworm infection, iodine deficiency, and sexually transmitted infections, including HIV/AIDS
- Providing tetanus toxoid immunization
- Providing information about breastfeeding and contraceptives

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?



The complications leading to maternal death can occur without warning at any time during pregnancy and childbirth. However, some can be screened and prevented. That is why it is crucial to ensure monitoring and identifying high risk pregnancies through antenatal care which should be available for every pregnant girl and woman.

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

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.

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).

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

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. DM Epidemiological **Anaemia** TRIVER STORS HT Social UTI circumstantes **Heart disease Obesity and Maternal Age** overweight Obstetric **Parity Epilepsy** History **General risk** factors History of operative delivery. Medical Social History of a stillbirth or neonatal Conditions death. circumstances **Previous ante-partum** Complications hemorrhages. **Previous post-partum** pregnancy hemorrhages.

History of low birth weight infant

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Natal Care (DELIVERY CARE)

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 woman 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.

Globally in 2022, 14 percent of deliveries were not attended by skilled health personnel. Newborns are most vulnerable during the first hours and days of life, yet this critical window is being missed.

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:

Day 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.







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.

Globally, only 65 per cent of mothers and 68 per cent of newborns received a post-natal health check within the recommended time period.

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

Factors that prevent women from receiving or seeking care during pregnancy and childbirth are:

- Health system failures that translate to
- 1-poor quality of care, including disrespect, mistreatment and abuse
- 2- insufficient numbers of and inadequately trained health workers
- 3- shortages of essential medical supplies
- 4- the poor accountability of health systems

- •Social determinants , including income, access to education, multiple demands on women's time
- •Harmful gender norms and/or inequalities that result in a low prioritization of the rights of women and girls, including their right to safe, quality and affordable sexual and reproductive health services

•External factors contributing to instability and health system fragility, such as climate and humanitarian crises.

ANY QUESTION

Maternal and Child Health



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