Maternal diseases in pregnancy

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BASIC FACT!!!



- · Obstetrician doesn't know all about each disease
- · Multidisciplinary access!!
- Eextremely important is to plan pregnancies in those circumstances !!!
- · Direct inter-specialist communication
- Such pregnancy should be monitored in "big" centers

Mothers heart diseases

• 1% of all pregnancies

Most of them are:

- · Congenital heart diseases
- · Rheumatic fever
- · Ischemic heart diseases
- · Cardiomyopathy

HEART DISEASES IN PREGNANCY

US Obstetric Society (1952):

- · Compensated no limits in physical activity
- Subdecompesated normal daily physical activity causes shortness of breath, palpitations, fatigue, chest pain
- Decompensated the smallest effort causes problems
- · Disturbances evan when resting

PHYSIOLOGY

- · circulating blood volume increases 40%
- blood cell volume increases 30%
- the result is the physiological anemia, which progresses to ~33. weeks
- placenta reduces peripheral vascular resistance (left – right shunt)
- ideally, arterial (systolic & diastolic) presure slightly decreases

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Pre-existent heart disease

much greater significance!

Delivery mode choice

- Caesarean section is a surgical procedure ⇒ risk & possible complications
- vaginal delivery is risky too
- epidural analgesia, labor vacuum extraction, etc. can significantly change the characteristics of vag. delivery in the context of heart disease
- Optimal delivery mode (and time): team decision

Decision

- It is not about good and bad decision dilemma.
- It is the choice between two different ways risky possibilities.
- Pregnant woman, her family, and the whole society must be aware of this.



LUNG DISEASES

Bronchial asthma

- 1% women in reproductive age
- Drugs:
 - Ventolin (salbutamol) tocolitic agent
 - Corticosteroids except dexamethasone and betamethasone, they do not pass placental barrier
 - Aminophyllin acceptable during pregancy and lactation

DRUGS DURING **PREGANCY & LACTATION**





Category A
Adequate and well-controlled studies have failed to demonstrate a risk to the fetus in the first trimester of pregnancy (and there is no evidence of risk in later trimesters).

Category B

Animal reproduction studies have failed to demonstrate a risk to the fetus and there are no adequate and well-controlled studies in pregnant women.

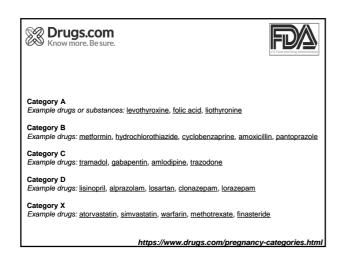
Category C

Animal reproduction studies have shown an adverse effect on the fetus and there are no adequate and well-controlled studies in humans, but potential benefits may warrant use of the drug in pregnant women despite potential risks.

Category D
There is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience or studies in humans, but potential benefits may warrant use of the drug in pregnant women despite potential risks.

Category X
Studies in animals or humans have demonstrated fetal abnormalities and/or there is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience, and the risks involved in use of the drug in pregnant women clearly outweigh potential benefits.

https://www.drugs.com/pregnancy-categories.html





Thank you