

BASES OF MENTAL RETARDATION

ETIOLOGY & PATHOGENESIS OF MENTAL RETARDATION. PART II



EXOGENOUS FACTORS

- **органические патогенные факторы**
 - antenatal (intrauterine)
 - perinatal (during childbirth)
 - postnatal (postpartum)
- **socio-environmental pathogenic factors**



STRUCTURE OF ANTENATAL FACTORS

- **biological agents**
 - viruses and bacteria
- **chemical agents**
 - lead, phenol, alcohol, medicines
- **physical agents**
 - electromagnetic radiation
 - ultraviolet radiation

VIRAL AND INFECTIOUS DISEASES DANGEROUS TO THE FETUS

➤ rubella

➤ cytomegaly

➤ HIV

➤ flu

➤ toxoplasmosis

➤ listeriosis

➤ syphilis


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CONGENITAL RUBELLA

(main symptoms – Greg's triad)

- **cataract** (75%)
 - **heart defects** (50%)
 - **deafness** (50%)
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CONGENITAL RUBELLA

(additional symptoms)

- microcephaly, microphthalmia
- fontanel enlargement
- brain damage
- skeletal malformations
- genitourinary malformations
- hepatomegaly & splenomegaly

CONGENITAL CYTOMEGALY (main symptoms)

- microcephaly
- cortical atrophy
- ventricular dilatation
- intrauterine growth retardation
- hearing loss
- hepatomegaly

CONGENITAL TOXOPLASMOSIS

(main symptoms)

- multiple malformations
- increased intracranial pressure
- epilepsy
- blindness
- retardation of psychophysical development and speech
- mental retardation

CONGENITAL SYPHILIS

(main symptoms)

- damage of the skin and mucous membranes (pemphigus)
- sensorineural hearing loss
- optic atrophy
- Hutchinson's teeth
- saddle nose
- saber-shaped tibia
- mental retardation



MEDICINES INFLUENCING ON THE BRAIN OF THE FETUS

- **antibiotics**
 - **sulfonamides**
 - **barbiturates**
 - **hormonal**
 - **antitumor**
 - **anticoagulant**
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STRUCTURE OF PERINATAL FACTORS

- abnormal structure of the placenta
 - facial or gluteal presentation of the fetus
 - weakness of labor
 - prolonged labor
 - anatomically narrow pelvis
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STRUCTURE OF POSTNATAL FACTORS

- **neuroinfection**
(encephalitis, meningoencephalitis)
 - **severe intoxication**
 - **traumatic brain injuries**
 - **clinical death**
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