



MEDICAL UNIVERSITY - PLEVEN

ИМЕ НА ОСНОВНО ЗВЕНО

DISTANCE LEARNING CENTRE

DEPARTMENT OF PEDIATRICS

PRACTICAL EXERCISES – THESES

FOR E- LEARNING IN PEDIATRICS

ENGLISH MEDIUM COURSE OF TRAINING

SPECIALTY OF MEDICINE

ACADEMIC DEGREE: MASTER

PROFESSIONAL QUALIFICATION: DOCTOR OF MEDICINE

PREPARED BY DR. STANIMIRA ELKINA, PHD

PRACTICAL EXERCISES – THESES

PRACTICAL EXERCISES – TOPIC

CYSTIC FIBROSIS

PRACTICAL EXERCISES – THESES

1. Students to learn the definition of cystic fibrosis (CF)
2. Epidemiology, pathogenesis and clinical types of CF.
3. Diagnosis and treatment of cystic fibrosis.

PRACTICAL EXERCISES – TASKS

1. Background – autosomal recessive inherited disorder of exocrine gland
2. To know the epidemiology – most common in Caucasians (1 case per 3,200-3,500 population)
3. Etiology - defects in the CFTR gene, most common $\Delta F508$
4. Pathophysiology - six classes of defects: complete absence of CFTR protein synthesis, defective protein maturation, disordered regulation, defective chloride conductance or channel gating, diminished transcription, accelerated channel turnover from the cell surface
5. Clinical presentation – general appearance of the child, gastrointestinal tract manifestations, respiratory tract and urogenital tract manifestations, atypical symptoms
6. To be able to perform a physical examination of a pediatric patient with GF at different age.
7. To know the possible differential diagnostic plan of CF.
8. To plan a diagnostic approach – genetic testing, positive sweat chloride test ($>60\text{mEq/L}$) and chronic obstructive pulmonary disease or exogene pancreatic insufficiency or family history for CF
9. Treatment – supportive, surgical (if needed), antimicrobial, CFTR gene therapy, physiotherapy
10. Outcomes and Complications of CF in pediatrics patients
11. Clinical case presentation.

PRACTICAL EXERCISES – VENUE AND MATERIALS

- Department of Pediatrics, UMHAT - Pleven
- Pediatric lectures
- Clinical task and MCQs