



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

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PRACTICAL EXERCISES – THESES

PRACTICAL EXERCISES – TOPIC

PRINCIPLES OF DRUG THERAPY IN PEDIATRICS

PRACTICAL EXERCISES – THESES

1. Understanding the variability in pharmacodynamics and pharmacokinetics during different periods of childhood;
2. Direct correlation between serum drug concentration and pharmacological effect.
3. Thin border between toxic serum drug concentration and those with therapeutic effect.
4. Different serum concentration and effect by same dose because intra- and interpatient pharmacokinetics differences

PRACTICAL EXERCISES – TASKS

I. Students to know age ranged periods of childhood: newborn, infants and toddlers, children, adolescents

II. Students to be familiarized with differences in:

1. Absorption – oral, intramuscular, percutaneous, rectal
2. Distribution – higher amount of body water compared to adults
3. Metabolism – immature hepatic enzymes
4. Excretion – glomerular filtration and tubular secretion are reduced in babies

III. Students to be trained in dose calculation on individual basis using: body surface, body weight, age

PRACTICAL EXERCISES – VENUE AND MATERIALS

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