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Syllabus for practical semester exam for Medical students

2020/2021

- 1. Building a pedigree
- 2. Genetic anamnesis
- 3. Determining type of inheritance and risk calculation in AR, AD, XD, XR, mitochondrial inheritance
- 4. Diagnosis, treatment and prevention of beta-thalassemia major. Heterozygous carrier screening beta-thalassemia minor
- 5. Diagnosis, treatment and prevention of cystic fibrosis
- 6. Diagnosis, treatment and prevention of PKU
- 7. Diagnosis, treatment and prevention of galactosemia
- 8. Diagnosis, treatment and prevention of hereditary hypercholesterolemia
- 9. Diagnosis, treatment and prevention of Huntington's disease
- 10. Diagnosis, treatment and prevention of myotonic dystrophy
- 11. Diagnosis, treatment and prevention of *FMR1* associated diseases
- 12. Diagnosis, treatment and prevention of OI type I and type II
- 13. Diagnosis, treatment and prevention of Marfan syndrome
- 14. Diagnosis, treatment and prevention of SMA
- 15. Diagnosis, treatment and prevention of Duchenne / Becker muscular dystrophy
- 16. Diagnosis, treatment and prevention of mitochondrial diseases LHON
- 17. Balanced karyotype Robertsonian and reciprocal translocations. Associated risks. Risk estimation.
- 18. Diagnosis, treatment and prevention of Down syndrome. Cytogenetic forms and recurrence risk assessment
- 19. Diagnosis, treatment and prevention of Patau syndrome
- 20. Diagnosis, treatment and prevention of Edwards syndrome
- 21. Diagnosis, treatment and prevention of Turner syndrome and its variants
- 22. Diagnosis, treatment and prevention of Klinefelter syndrome
- 23. Diagnosis, treatment, risk assessment and prevention of Prader-Willi syndrome
- 24. Diagnosis, treatment, risk assessment and prevention of Angelman syndrome
- 25. Diagnosis, treatment, risk assessment and prevention of DiGeorge syndrome
- 26. Diagnosis, treatment, risk assessment and prevention of Williams-Boyren syndrome
- 27. Diagnosis, treatment, risk assessment and prevention of Familial adenomatous polyposis
- 28. Diagnosis, treatment, risk assessment and prevention of Lynch syndrome
- 29. Diagnosis, treatment, risk assessment and prevention of BRCA 1 and 2 associated inherited breast and ovarian cancer
- 30. Genetic markers for targeted therapy in breast cancer
- 31. Genetic markers for targeted therapy in CRC
- 32. Genetic Markers for Targeted Therapy at the NSCLC



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- 33. Genetic markers for targeted therapy in CML
- 34. Indications and prenatal and pre-implantation diagnosis
- 1. Genomic medicine, 2016, Sofia, Toncheva, D., Ganev V. ISBN 978-619-183-043-5
- 2. Medical genetics. Practical course for medical students, Toncheva, D., Hadjidekova S.,2020, Pusblisher: ARSO
- 3. Emery's Elements of Medical genetics, 14th ed. ISBN: 978-0702066856
- 4. Genetics home reference https://ghr.nlm.nih.gov/

HEAD OF THE DEPARTMENT OF MEDICAL GENETICS PROF. SAVINA HADZHIDEKOVA, MD, PhD