DENTAL PHYSIOTHERAPY SYNOPSIS

ORAL EXAM

1. General principles of action of the physical factors.

2. Departments and cabinets of dental physiotherapy. Sections of dental physiotherapy.

3. Requirements for work technique and safety at dental physiotherapy. General indications and contraindications. Elaboration of the treatment plan for physiotherapy. Documentation.

4. Thermal tests – essence, types, methods.

5. Electric pulp tests – essence, types, indications, contraindications.

6. Values of EPT and their interpretation at different nosological units.

7. Pulse oximetry – essence, principles of action, application.

8. Electrotherapy. Classification of the different types of electricity used in dental physiotherapy. Physiological and therapeutic effects of the galvanic current.

9. Reflective methods of galvanisation. Indications, contraindications.

10. Cathode galvanisation. Indications, contraindications. Methods of application.

11. Anode galvanisation. Indications, contraindications. Methods of application.

12. Electrophoresis of diseases of hard dental tissue. Devices. Methods of application.

13. Iontophoresis at infected root canals. Methods of application.

14. Electrophoresis in gingivitis and parodontitis. Methods of application.

15. Electrophoresis in TMJ disorders and paraesthesia nervus trigeminus. Methods of application.

16. Electrotherapy. High frequency alternating currents: current of D'Arsonval. Application. Physiological mechanism of action and therapeutic effects. Indications, contraindications.

17. Treatment with ultrahigh frequency alternating currents (UHF). Application. Physiological mechanism of action and therapeutic effects. Indications, contraindications.

18. Treatment with super high frequency alternating currents. Application. Physiological mechanism of action and therapeutic effects. Indications, contraindications.

19. Ultrasound. Physical characteristics of ultrasound. Emitters and devices. Physiological and biological effects of ultrasound.

20. Ultraphonophoresis. Essence. Methods of application. Indications and contraindications.

21. Phonophoresis. Essence. Methods of application. Indications and contraindications.

22. Light therapy. Physical characteristics of light. Types of radiation and the general effect on organisms.

23. Infrared light therapy. Biological and therapeutic effects. Sources of infrared light. Methods. Indications and contraindications.

24. Ultraviolet light therapy. Biological and therapeutic effects. Biodose. Sources of ultraviolet light. Methods. Indications and contraindications.

25. Lasers in dental physiotherapy. Physical characteristics of laser light. Types of lasers and devices. Physiological and therapeutic effects.

26. Lasers in dental physiotherapy. Methods of application for stomatitis, gingivitis and parodontitis. Indications and contraindications.

27. Lasers in dental physiotherapy. Methods of application for caries, pulpitis, and periodontitis. Indications and contraindications

28. Lasers in dental physiotherapy. Methods of application for surgical diseases. Indications and contraindications.

29. Physical methods for treatments and prophylaxis of hard dental tissue diseases. Remineralisation and fluoridation by physical means – electrophoresis and phonophoresis.

30. Anaesthesia by physical means: devices and methods.

WRITTEN EXAM

1. Reflectory methods: Indications, contraindications. Methods of application.

2. Nondrug electrophoresis – cathode galvanisation. Indications, contraindications. Methods of application.

3. Nondrug electrophoresis – anode galvanisation. Indications, contraindications. Methods of application.

4. Electrophoresis with sodium fluoride (**NaF)** for hard dental tissue diseases. Indications, contraindications. Methods of application.

5. Electrophoresis with calcium gluconate and application of sodium fluoride (combined method) for hard dental tissue diseases. Indications, contraindications. Method of application.

6. Iontophoresis at infected root canals with potassium iodide (**KI**). Indications and contraindications. Methods of application.

7. Iontophoresis at infected root canals with potassium iodide (**I/KI**). Indications and contraindications. Methods of application.

8. Iontophoresis with antibiotics and proteolytic enzymes at infected root canals. Indications, contraindications. Methods of application.

9. Electrophoresis of medications- vitamin C and lidocaine, for parodontitis and stomatitis.

10. Electrophoresis with nivalin for paresthesia.

11. Electroanalgesia of hard dental tissue.

12. Methods of application of dyadic currents- extraoral, intraoral, dyadic phoresis.

13. Method of application of fluctuating currents (ASB – 2)- intraoral, extraoral.

14. Methods of application of currents of D'Arsonval- contact method.

15. Methods of application of currents of D'Arsonval- fulguration.

16. UHF (ultrahigh frequency) – preparation of the patient and devices.

17. Methods of application of UHF (ultrahigh frequency).

18. Method of application of superhigh frequency currents (microwaves) – contact method.

19. Method of application of superhigh frequency currents (microwaves) – noncontact method.

20. Methods for treatment with infrared light. Devices.

21. Application of ultraviolet light (UVL). Determination of individual biodose for skin and mucosa.

22. Application of ultraviolet light (UVL)- local methods.

23. Methods of application of low-intensity lasers in the treatment of caries and non-caries diseases of teeth.

24. Methods of application of low-intensity lasers in the treatment of pulp diseases.

25. Methods of application of low-intensity lasers in the treatment of periodontitis.

26. Methods of application of low-intensity lasers in the treatment of mucosal diseases.

27. Methods of application of low-intensity lasers in the treatment of parodontitis.

28. Methods of application of low-intensity lasers in the treatment of TMJ disorder.

29. Application of ultrasound – phonophoresis in parodontitis.

30. Application of ultrasound – ultraphonophoresis for TMJ disorder.

31. Application of ultrasound – ultraphonophoresis at cicatrices.

Students are expected to prepare using the primary lecture course and additional literature.

BIBLIOGRAPHY:

1. Dental physical therapy- Sl. Dimitrov
2. Dental physiotherapy- R. Grozdanova, Ts. Uzunov