

SUBJECT MATTER REQUIRED FOR THE DIPLOMA EXAMINATION
IN PROSTHETIC DENTISTRY

I. ANAMNESIS AND PATIENT EXAMINATION

1. Basic definitions and concepts of the neutral zone and prosthetic field
 - Supple classifications
 - support tooth, abutment tooth, retention tooth
2. Stomatognathic system - theories and basic concepts
3. aesthetic analysis of the face, smile, teeth
4. classification of dentures
5. classification of tooth loss (Eihner, Galasińska-Landsbergerowa and Kennedy)
6. preparation of the oral cavity for prosthetic treatment
 - conservative, surgical, orthodontic, periodontal and pre-prosthetic treatment

II. BASIC AND AUXILIARY MATERIALS USED IN CONTEMPORARY PROSTHETICS

III. FIXED PROSTHETIC RESTORATIONS

1. Crown-root inlays

- indications - contraindications
- characteristics of a tooth qualified for inlays
- Types of inlays - standard and individual
- Materials used to make individual inlays
- methods of performing inlays - direct indirect
- clinical procedure - preparation of the tooth for inlay, types of impressions
- laboratory fabrication of post - procedure, stages
- materials for standard and individual inlays - advantages and disadvantages
- retention of inlays
- cementation of post - cements, techniques

2. Coronal inlays

- materials for inlays
- types of intracoronal restorations
- types of inlays - inlay, onlay, overlay
- indications and contraindications for inlays, onlays, endocrowns
- methods for intracoronal restorations
- principles of preparing teeth for inlays
- cementation of intracoronal restorations - principles, techniques, cements

3) Dental crowns:

- Types of prosthetic crowns - unitary and composite
- Indications and contraindications for the fabrication of crowns
- Complex crowns - principles of tooth preparation
- Types of impressions used for the fabrication of crowns
- Clinical stages of crown fabrication
- Laboratory methods and procedures of crown fabrication
- Materials for fabrication of prosthetic crowns
- Types of connections between veneering material and metal base.

- Layers of ceramic in metal-ceramic crowns
- All-ceramic crowns - advantages and disadvantages
- Indications and contraindications for all-ceramic crowns
- Principles of tooth preparation for all-ceramic crowns
- Techniques for the fabrication of all-ceramic crowns - laboratory procedure
- Zirconium oxide-filled crowns - indications, contraindications
- CAD/CAM laboratory procedure
- Interim fixed restorations - fabrication techniques, materials
- Ways of protecting a (live) tooth after grinding
- Ways, techniques and principles of cementing crowns depending on the material

4 Prosthetic Bridges

- Definition, indications and contraindications
- Features of an ideal abutment tooth for a bridge
- Types of prosthetic bridges
- Types of bridge spans
- Clinical management of fixed bridges
- Advantages and disadvantages of composite bridges: metal-ceramic, metal-composite
- Laboratory procedure in the manufacture of dental bridges
- Zirconium oxide bridges
- Adhesive bridges - types, indications - p-indications
- Rules of preparation of teeth for adhesive bridges
- Ways of developing retention surfaces of adhesive bridges
- Metal-free adhesive bridges - indications, methods of fabrication

IV. REMOVABLE PROSTHETIC RESTORATIONS

1. complete dentures - the Wrocław method vs. the traditional method

- functional impressions
- individual tray (materials, structure, range)
- occlusion rims (materials, construction, range)
- recording the jaw relations (methods)
- recording the vertical dimension (in set and unset occlusion, auxiliary instruments, auxiliary lines)
- recording the centric occlusal position
- arranging artificial teeth - articulation, Wrocław and calotte methods
- principles for selection of artificial teeth (shape, color, size)
- try-in of the dentures
- sealing and relieving the denture
- returning of the dentures - the principles of hygiene, prophylaxis and check-up visits
- techniques and materials for complete dentures
- traditional - canning
- injection

2. Removable partial dentures

- construction of a partial denture – removable
- tooth-supported prostheses
- tooth and tissue-supported prostheses
- types of retainers of the denture
- undercuts of teeth and appendages
- basic principles of clasp design
- other types of retainers (materials and structure)

3. Overdentures - definition, indications, retention elements

4. Immediate dentures - definition, indications, advantages and disadvantages

- principles of fabrication - stages of clinical procedure
- substitute care after fabrication of immediate dentures

5. Repairs and relining of dentures that have become dentures

- plates, clasp, teeth
- indications for denture relining - methods and materials for relining

6. Skeletal dentures

- construction - elements, materials
- Major connectors in upper and lower skeletal dentures.
- dental cast surveyor definition, construction, application
- analysis - rules of making
- types of clasps and clasp surfaces
- retention surface - definition, properties
- types of rest in skeletal dentures - indications
- clinical procedure in the manufacture of skeletal dentures.
- laboratory steps in the fabrication of skeletal dentures
- properties of covering compounds

7. Non-standard prostheses

- precise fastening elements
- over dentures, definition, indications, advantages and disadvantages
- clinical stages of over denture fabrication

V. PROSTHETIC TREATMENT OF CHILDREN AND ADOLESCENT PATIENTS - SPECIFICITY OF PROSTHETIC TREATMENT OF PATIENTS AT THE DEVELOPMENTAL AGE

- Aims of prosthetic treatment in adolescents
- Indications - reasons for prosthetic treatment in the developmental age
- Types of the so-called pediatric prostheses
- Construction and principles of designing prostheses in children and adolescent patients

VI. SPECIFICS OF PROSTHETIC TREATMENT IN PERIODONTOPATHIES – CO-OPERATION IN THE TREATMENT OF PERIODONTAL AND MUCOSAL DISORDERS OF THE ORAL CAVITY

- General rules for fabrication of removable dentures in patients with reduced periodontium
- General principles of fabrication of fixed dentures in patients with periodontal disease
- Primary and secondary traumatic occlusion - definition, causes - therapeutic management
- Principles of occlusal surface design of fixed dentures in periodontal disease

VII. PROSTHETIC TREATMENT AFTER SURGICAL PROCEDURES FOR THE LOSS OF TISSUES WITHIN THE CRANIOFACIAL REGION

- Construction and application of obturating plates
- Types of dentures with obturators

VIII. RECONSTRUCTIVE TREATMENT USING INTRAMEDULLARY IMPLANTS - IMPLANTOPROSTHETICS

- Contemporary implant systems
- Systemic and local indications and contraindications to implantoprosthetic treatment
- Diagnostic and pre-implantation procedures in implanto-prosthetic treatment
- Primary and secondary stabilization of intramedullary implants - considerations
- Principles of optimal placement and loading of implants in implantoprosthetic treatment
- Types and principles of taking impressions in implantoprosthetic treatment
- Principles of implant-supported prosthetic structures
- Treatment of a patient with edentulousness in the mandible using intramedullary implants.
- Overdenture supported by intramedullary implants in cases of complete edentulousness in the maxilla.
- Long-term care of the patient treated with implant-supported prosthetic methods

IX. TREATMENT OF US DYSFUNCTIONS, OCCLUSION DISORDERS, PATHOLOGICAL TOOTH WEAR, POST-TRAUMATIC AND POST-SURGICAL INJURIES

- Causes of US dysfunction
- Clinical symptoms of muscular-articular dysfunctions of the stomatognathic system
- Parafunctions - definition, types - importance in terms of prosthetic therapy
- Clinical symptoms of muscular-articular US dysfunctions
- Radiological diagnostics of temporomandibular joints
- Definition of an occlusal splint and types of splints
- Mechanism of action of relaxation, repositioning and deprogramming splints
- mechanism of action of relaxation, repositioning and deprogramming splints
- What is the so-called "reversible therapy" in the rehabilitation of patients with musculoskeletal US dysfunctions

VI. TREATMENT OF PRIMARY AND SECONDARY PROSTHETIC STOMATOPATHIES

- Etiopathogenesis of prosthetic stomatopathies.
- Role of mechanical trauma in the development of prosthetic stomatopathies.
- Symptoms of prosthetic stomatopathies.
- Methods of treatment of prosthetic stomatopathies.
- Differentiation of prosthetic stomatopathies with other pathological conditions.

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