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REVISED SYLLABUS – PROSTHODONTICS

COMPLETE DENTURES

Applied anatomy and physiology

1. Introduction
2. Biomechanics of the edentulous state
3. Residual ridge resorption

Communicating with the patient

1. Understanding the patients
2. Mental attitude
3. Instructing the patient

Diagnosis and treatment planning for patients

1. With some teeth remaining
2. With no teeth remaining
3. Systemic status
4. Local factor
5. The geriatric patient
6. Diagnostic-procedures

Articulators

1. Discussion

Improving the patient's denture foundation and ridge relation—an overview

1. Preoperative examination
2. Initial hard tissue and soft tissue procedure
3. Secondary hard and soft tissue procedure
4. Implant procedure
5. Congenital deformities
6. Postoperative procedure
7. Principles of retention, support and stability

Impressions—detail

1. Muscles of facial expression
2. Biologic considerations, for maxillary and mandibular impression including anatomy landmark and their interpretation
3. Impression objectives
4. Impression materials
5. Impression techniques
6. Maxillary and mandibular impression procedures, preliminary impressions
7. Final impressions
8. Laboratory procedures involved with impression making (Beading, boxing, and cast preparation)

Record bases and occlusion rims—in detail

1. Materials and techniques
2. Useful guidelines and ideal parameters
3. Recording and transferring bases and occlusal rims

Biological consideration in jaw relation

1. Jaw movements—craniomandibular relations
2. Mandibular movements
3. Maxillomandibular relation including vertical and horizontal jaw relations
4. Concept of occlusion—discuss in brief

Relating the patient to the articulator

1. Face bow types and uses- discuss in brief
2. Face bow transfer procedure—discuss in brief

Recording maxillomandibular relation

1. Vertical relations
2. Centric relation records
3. Eccentric relation records
4. Lateral relation records

Tooth selection and arrangement

1. Anterior teeth
2. Posterior teeth
3. Esthetic and functional harmony

Relating inclination of teeth to concept of occlusion—in brief

1. Neutrocentric concept
2. Balanced occlusal concept
3. Trial dentures

Laboratory procedures

1. Wax contouring
2. Investing of dentures
3. Preparing of mold
4. Preparing and packing acrylic resin
5. Processing of dentures. Recovery of dentures
6. Lab remounts procedures
7. Recovering the complete denture form the cast
8. Finishing and polishing the complete denture
9. Plaster cast for clinical denture remount procedure

Denture insertion

1. Insertion procedures
2. Clinical errors
3. Correcting occlusal disharmony
4. Selective grinding procedures

Treating problems with associated denture use

1. Treating abused tissues—discuss in brief
2. Relining and rebasing of denture—discuss in brief

Special dentures

1. Immediate complete dentures construct ion procedure—discuss in brief
2. The single complete denture—discuss in brief
3. Over dentures—discuss in brief
4. Dental implants in complete denture—discuss in brief

Note

- It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover:
  1. Definition
  2. Diagnosis of the particular situation/patient selection treatment planning
  3. Types/classification
  4. Materials
  5. Methodology—Lab/clinical
  6. Advantages and disadvantages
  7. Indications, contraindications
  8. Maintenance phase
  9. Oral implantology
  10. Ethics

REMOVABLE FLEXIBLE DENTURES

1. Introduction—Terminologies and scope, classification
2. Examination, diagnosis and treatment planning and evaluation of diagnostic data
3. Components of a removable partial denture—Major connectors, minor connectors, rest and rest seats
4. Components of a removable partial denture—Direct retainers, indirect retainers, tooth replacement
5. Principles of removable partial denture design
6. Survey and design—in brief surveyors, surveying, designing
7. Mouth preparation and master cast
8. Impression materials and procedures for removable partial dentures
9. Preliminary jaw relation and esthetic try-in for some anterior replacement teeth
10. Laboratory, procedures for framework construction—in brief
11. Fitting the framework—in brief
12. Try-in of the partial denture—in brief
13. Completion of the partial denture—in brief
14. Inserting the removable partial denture—in brief
15. Post insertion observations
16. Temporary acrylic partial dentures
17. Immediate removable partial denture
18. Removable partial dentures opposing complete denture

Note

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  3. Types/classification
  4. Materials
  5. Methodology—Lab/clinical
  6. Advantages and disadvantages
  7. Indications, contraindications
  8. Maintenance phase

FIXED PARTIAL DENTURES

Topics to be covered in detail

1. Introduction
2. Fundamentals of occlusion—in brief
3. Articulators—in brief
4. Treatment planning for single tooth restorations
5. Treatment planning for the replacement of missing teeth including selection and choice
6. Fixed partial denture configurations

7. Principles of tooth preparations
8. Preparations for full veneer crowns—in brief
9. Preparations for partial veneer crowns—in brief
10. Provisional restorations
11. Fluid control and soft tissue management
12. Impressions
13. Working casts and dies
14. Wax patterns
15. Pontics and edentulous ridges
16. Esthetic consideration
17. Finishing and cementation

Topics to be covered in brief

1. Solder joints and other connectors
2. All—ceramic restorations
3. Metal—ceramic restorations
4. Preparations of intracoronal restorations
5. Preparations for extensively damaged teeth
6. Preparations for periodontally weakened teeth
7. The functionally generated path technique
8. Investing and casting
9. Resin—bonded fixed partials denture

Note

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  1. Definition
  2. Diagnosis of the particular situation/patient selection/treatment planning
  3. Types/classification
  4. Materials
  5. Methodology—Lab/clinical
  6. Advantages and disadvantages
  7. Indications, contraindications
  8. Maintenance phase

ORAL IMPLANTOLOGY

Introduction to oral implantology

Oral implantology is now emerged as a new branch in dentistry worldwide and it has been given a separate status in the universities abroad. In India day the practice of treating patients with implants are on rise. In this contest inclusion of this branch into undergraduate curriculum has become very essential. The objective behind this is to impart basic knowledge of oral implantology to undergraduates and enable them to diagnose, plan the treatment and to carry out the needed pre-surgical mouth preparations and treat or refer them to specialty centers. This teaching programme may be divided and carried out by the Department of Oral Surgery, Prosthodontics and Periodontics.

1. History of implants, their design and surface characteristics and osseointegration
2. Scope of oral and maxillofacial Implantology and terminologies
3. A brief introduction to various implant systems in practice
4. Bone biology, morphology, classification of bone and its relevance's to implant treatment and bone augmentation materials
5. Soft tissue considerations in implant dentistry
6. Diagnosis and treatment planning in implant dentistry
7. Case history taking/examination/medical evaluation/orofacial evaluation/radiographic evaluation/diagnostic evaluation/diagnosis and treatment planning/treatment alternatives/estimation of treatment costs/patient education and motivation
8. Presurgical preparation of patient
9. Implant installation and armamentarium for the Branemark system as a role model
10. First stage surgery—Mandible—Maxilla
11. Healing period and second stage surgery
12. Management of surgical complications and failures
13. General considerations in prosthodontics reconstruction and biomechanics
14. Prosthodontic components of the Branemark system as a role model
15. Impression procedures and preparation of master cast, jaw relation records and construction of suprastructure with special emphasis on occlusion for osseointegrated prosthesis
16. Management of prosthodontic complications and failures
17. Recall and maintenance phase
18. Criteria for success of osseointegrated implant supported prosthesis