

**PACIFIC DENTAL COLLEGE AND HOSPITAL, DEBARI, UDAIPUR**

**PROSTHODONTICS, CROWN & BRIDGE**

**BDS CURRICULUM**

**COMPLETE DENTURES**

A. Applied Anatomy and Physiology.

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

B. Communicating with the patient

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

C. Diagnosis and treatment planning for patients-

1. With some teeth remaining.
2. With no teeth remaining.
  - a) Systemic status.
  - b) Local factor.
  - c) The geriatric patient.
  - d) Diagnostic procedures.

D. Articulators- discussion

E. Improving the patient's denture foundation and ridge relation -an overview.

- a) Pre-operative examination.
- b) Initial hard tissue & soft tissue procedure.

- c) Secondary hard & soft tissue procedure.
- d) Implant procedure.
- e) Congenital deformities.
- f) Postoperative procedure.

## F. Principles of Retention, Support and Stability

### E. Impressions - detail.

- a) Muscles of facial expression.
- b) Biologic considerations for maxillary and mandibular impression including anatomy landmark and their interpretation.
- c) Impression objectives.
- d) Impression materials.
- e) Impression techniques.
- f) Maxillary and mandibular impression procedures.
  - i. Preliminary impressions.
  - ii. Final impressions.
- g) Laboratory procedures involved with impression making (Beading & Boxing, and cast preparation).

### H. Record bases and occlusion rims- in detail.

- a) Materials & techniques.
- b) Useful guidelines and ideal parameters.
- c) Recording and transferring bases and occlusal rims.

### I. Biological consideration in jaw relation & jaw movements - craniomandibular relations.

- a) Mandibular movements.
- b) Maxillo -mandibular relation including vertical and horizontal jaw relations.
- c) Concept of occlusion- discuss in brief.

J. Relating the patient to the articulator.

- a) Face bow types & uses– discuss in brief.
- b) Face bow transfer procedure - discuss in brief.

K. Recording maxillo mandibular relation.

- a) Vertical relations.
- b) Centric relation records.
- c) Eccentric relation records.
- d) Lateral relation records.

L. Tooth selection and arrangement.

- a) Anterior teeth.
- b) Posterior teeth.
- c) Esthetic and functional harmony.

M. Relating inclination of teeth to concept of occlusion- in brief.

- a) Neutrocentric concept.
- b) Balanced occlusal concept.

N .Trial dentures.

O. Laboratory procedures.

- a) Wax contouring.
- b) Investing of dentures.
- c) Preparing of mold.
- d) Preparing & packing acrylic resin.
- e) Processing of dentures.

- f) Recovery of dentures.
- g) Lab remount procedures.
- h) Recovering the complete denture from the cast.
- i) Finishing and polishing the complete denture.
- j) Plaster cast for clinical denture remount procedure.

#### P. Denture insertion.

- a) Insertion procedures.
  - b) Clinical errors.
  - c) Correcting occlusal disharmony.
  - d) Selective grinding procedures.
1. Treating problems with associated denture use – discuss in brief (tabulation/flow-chart form).
  2. Treating abused tissues - discuss in brief.
  3. Relining and rebasing of dentures- discuss in brief.
  4. Immediate complete dentures construction procedure- discuss in brief.
  5. The single complete denture- discuss in brief.
  6. Overdentures denture- discuss in brief.
  7. 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 & disadvantages
7. Indications, contraindications
8. Maintenance Phase

## **Removable Partial Dentures**

1. Introduction → Terminologies and scope
2. Classification.
3. Examination, Diagnosis & Treatment planning & evaluation of diagnostic data.
4. Components of a removable partial denture.
  - Major connectors,
  - minor connectors,
  - Rest and rest seats.
5. Components of a Removable Partial Denture.
  - Direct retainers,
  - Indirect retainers,
  - Tooth replacement.
6. Principles of Removable Partial Denture Design.

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. Postinsertion observations.
16. Temporary Acrylic Partial Dentures.
17. Immediate Removable Partial Denture.
18. Removable Partial Dentures opposing Complete denture.

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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 of abutment teeth.
6. Fixed partial denture configurations.
7. Principles of tooth preparations.
8. Preparations for full veneer crowns – in detail.
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 Considerations
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 intracoronar 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 Partial Denture

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

9. Definition

10. Diagnosis (of the particular situation /patient selection /treatment planning)

11. Types / Classification

12. Materials

13. Methodology – Lab /Clinical

14. Advantages & disadvantages I

15. Indications, contraindications

16. Maintenance Phase

#### RECOMMENDED BOOKS:

1. Syllabus of Complete denture by - Charles M. Heartwell Jr. and Arthur O. Rahn.
2. Boucher's "Prosthodontic treatment for edentulous patients"
3. Essentials of complete denture prosthodontics by – Sheldon Winkler.
4. Maxillofacial prosthetics by – William R. Laney.
5. McCracken's Removable partial prosthodontics
6. Removable partial prosthodontics by – Ernest L. Miller and Joseph E. Grasso.

### **AESTHETIC DENTISTRY**

Aesthetic Dentistry is gaining more popularity since last decade. It is better that undergraduate students should understand the philosophy and scientific knowledge of the esthetic dentistry.

1. Introduction and scope of esthetic dentistry
2. Anatomy & physiology of smile
3. Role of the colour in esthetic dentistry
4. Simple procedures (roundening of central incisors to enhance esthetic appearance)
5. Bleaching of teeth
6. Veneers with various materials
7. Preventive and interceptive esthetics
8. Ceramics
9. Simple gingival contouring to enhance the appearance
10. Simple clinical procedures for BDS students

#### Recommended books:

1. Esthetic guidelines for restorative dentistry; Scharer & others

2. Esthetics of anterior fixed prosthodontics; Chiche (GJ) & Pinault (Alain)
3. Esthetic & the treatment of facial form, Vol 28; Mc Namara (JA)