

DENTAL CARE - CONTROL AND PREVENTION

- a. Definition of Dental Care: Dental care is defined as the prevention, diagnosis, and treatment of dental diseases.
- b. Epidemiology: Age and sex distribution of dental diseases.
- c. Etiology: Factors that lead to dental diseases, such as diet, oral hygiene, and environmental factors.

The dental care program is designed to provide a comprehensive approach to dental health. It includes the prevention, diagnosis, and treatment of dental diseases. The program is based on the principles of dental hygiene and is designed to be a part of the overall health care program.

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DENTAL HYGIENE PART - II

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1. DENTAL CARIES - CONTROL AND PREVENTION

- a. Definition of Dental caries, teeth affected, order and surface types of caries.
- b. Epidemiology - Age, Sex distribution, Genetics.
- c. Etiology theories, diet, acid attack, control and prevention, fluoride, enzyme inhibitors.
- d. Diet control.
- e. Tooth pastes.
- f. Natural hygiene.
- g. Fluorides, Fluoridation. Prophylactic odontotomy.

2. DENTAL HEALTH EDUCATION

- h. Meaning of Health, positive health, dental health, dental education.
- i. Objective and pre-requisites.
- j. Responsibility for dental education.
- k. Chair side talks, lectures and group talks, exhibitions, health weeks, window displays, film shows, press radio and television articles.
- l. Discussions and seminars.

3. LOCAL ANAESTHESIA

- m. Definition. Used by surgeon, used by dental auxiliary.
- n. Instruments, syringes, hubs, needles.
- o. Local anaesthetic solutions- epinephrin, procaine, lignocaine, topical anaesthetics (all drugs in brief outline).
- p. Types of local anaesthesia, block infiltration, Anatomical distribution of nerves for anaesthesia.
- q. Site and location of injection, technique, contra-in-dications for use of local
- r. and general anaesthetics. Post injection complications.

4. RADIOGRAPHY

Types of X-Ray Indications, for use in dentistry. Dangers and precautions, types of intra-oral films. Bitewing and extra-oral Technique of processing, developing and amounting records. Practical work based on above.

5. ORTHODONTICS

Definition: Brief outline of growth of skull and mandible. Eruption dates. Paths of eruption. Deciduous, Mixed & adult dentition. Normal arches. Roles of muscle in normal development. Brief outline of Angle's classification, skeletal classification. Aetiology of malocclusion. Local and general factors. Habit effect of premature loss of primary teeth, Permanent teeth. Brief account of methods of

treatment by removable appliances. Fixed appliances imitations of treatment. Limitations of prevention.

6. PREVENTIVE ASPECT

Oral Hygiene:

The filed of operation macroscopic appearance of teeth, gingivae sulcus and epithelial attachment in the normal healthy mouth. Deposits and stains, their common location in the mouth. Factors influencing accumulation and retention. Classification and stains by location and by origin, appearance and treatment of yellow stains, green, black line stain metallic stains arising from degeneration of the pulp and stain caused by filling materials and drugs. Enamel hypoplasia, dental plaque, hard deposits, supragingival and subgingival calculus. Origin and composition of different deposits. Practical procedures for prophylactic removal of deposits. Possible sequelae of failure of removal of stains and deposits and effects on the teeth, supporting tissue and general health, Gingivitis, Instrumentation and description of the instruments included and their use. Maintenance of instruments. Polishing instruments and rotary instruments. Selection of instruments and their use. Maintenance of instruments. Polishing procedures Scaling procedures order of scaling, use of individual instruments, use of brushed rubber cups, etc. The procedures of oral inspection and prophylaxis. Natural and Artificial prophylaxis, self cleansing, food, tooth brushing techniques, and additional cleansing methods. Instructing the patient in personal and oral hygiene. Practical instruction in the use of scaling and polishing of some of the more advance periodontal conditions which are treatment by the dental surgeon.

7. PLAQUE, CALCULUS, STAINS

Plaque formation, composition caleubs, composition, type, significance. Stain, Definition Extri, instinsic stains. Indices, oral hygiene index. Plaque index.

8. CHRONIC PERIODONTAL DISEASE

Classification of gingival of periodontal condition chronic periodntal disease. Epidemiology of periodontal disease. Prevation Jucrib periodon chronic deoquumative gingivitis.

9. ACUTE GINGIVAL AND PERIODONTAL DISEASE AND OTHER DISEASES OF ORAL MUCOSA

Acute ulcerative gingivitis. Cancrumoris. Acute herpetic gingivo stomalitis, Acute non-specific gingivitis, periodontal abscesses; stomatitis Aphthous ulceration, Candiasis cold sores oral keralosis, oral tumour.

10. DENTAL ABNORMALITIES

Attrition, Abrasion Erosion, Developmental abnormalities.

11. RESTORATIVE DENTISTRY

- a. Knowledge of the restoration of teeth by various fillings in-lays crowns and bridges.
- b. Root canal therapy and apicoectomy.
- c. Treatment therapy and apicoectomy.
- d. treatment of periodontal disease.
- e. Prosthetic (Partial and full denture and their care including general understanding of the role of Dental Technician.
- f. Knowledge of surgical stages of the above procedures.

12. ORAL AND MAXILLO-FACIAL SURGERY

- a. Minor oral surgery, extraction of teeth, surgical removal of teeth and other oral surgical procedures. Pre and post operative care and instruction.
- b. Maxilla facial surgery: Oral diseases requiring major surgery, large cysts, tumours including maxilla facial injuries and their treatment. Pre and post operative care and instruction.
- c. Identification, care and maintenance of instruments, appliances and apparatus used in minor and major oral maxilla facial surgery.
- d. Usage of instruments in different surgical operations.

13. PROBLEM PATIENTS

Care and handling of:

- a. Mentally handicapped.
- b. Geriatrics.
- c. Nervous patients, non-cooperative patients.
- d. Children.
- e. Here lip and cleft patients.

14. HEALTH AND SAFETY AT WORK

General knowledge of:

- a. Hazards of highspeed instruments in dental surgery and their precautions.
- b. Fire precautions.
- c. Surgery hazards.
- d. First Aid.
- e. Welfare of patients.
- f. General duties of Dental surgery assistant.
- g. Gases volatile and inflammable material/medicines.
- h. Hazards of electrostatic current, diathermy, electro cautery coagulation in operatory.

Syllabus for the Practical for Dental Hygienist

1. Dental Surgery and its various components.
2. Dental Chair and unit
 - i. Function / operation.
 - ii. Maintenance.
 - iii. Common hazards / how to coupe up.
3. Sterilisation
 - i. Idea.
 - ii. Methods of sterilisation.
 - Physical.
 - Chemical.
4. Auto Claving
(1 week duty for each student in Operation Theatre)
5. Identification of various dental instruments and their assignments on Trolley.
6. Examination instruments.
7. Recording of data.
8. Scaling instrument and their arrangement on dental tray / trolley.
 - Use on model
9. Polishing instruments and equipment.
 - Slow and High speed hand pieces.
 - Polishing materials
10. Filling instruments and metri and retainer.
11. Rotary Instruments.
 - a. Disposable , Burs FG, slow speeq , Stones, polishing cups etc.
12. Endo-dentonic Instruments.
13. Dental Materials in general.
14. Minor oral surgery instruments, arrangement & stitching armamentarim.
15. Scaling procedure.
 - Manual Scaling.
 - Manual scaling (35 cases to be completed).
 - Sharpening of instruments.

- Usage and precautions.
- Proper positing of patient with respect to operator and operation.
- Procedure.

16. Ultra sonic scalar and scaling. (35 cases to be completed).

- Introduction to machine indication and contra indication with respect to types of machine.
- Procedures.

17. Gingival dressing materials with respect to gingival packs.

18. Polishing procedure.

19. Patients requiring special attention.

- A. Physically Handicapped.
- B. Mentally, handicapped cases.
- C. Orthodontics.
- D. Oral surgery - attendance to O.T.

PREVENTION

20. Plaque control

- a. Disclosure of plaque.
- b. Dental Brushes of various types and technique of Brushing and timings.
- c. Inter dental cleaning with floss.

21. Chemical plaque control.

- Chlorhexidene Mouth washes.
- Fluoridation (topical application of fluorides)
- Identification of caries and proper referred to dental surgery.
- Fissure sealants.
- Oral lesions.

22. School Visits for Dental Health Education

LIST OF RECOMMENDED BOOKS

1. Carrana = F.A.
2. Peter son's. = Clinical Dental Hygiene C.V. Mosby co.
3. Steel P.F. Dimensions of Dental Hygiene
4. Wilkins E.M. Clinical Practice of Dental Hygienist, Lea of Febiger.
5. Pattison A and Behrans J The Detection and Removal of Calculus
Preston Publishing