DENT 53 - Introduction to Chairside Assisting

Scope and objectives as required by American Dental Association and CA Code of Regulations

- A. Course and professional requirements
- B. Dental equipment: use & care
 - 1. Essential procedures for daily maintenance of the dental operatories and the routine for opening/closing of the office
 - 2. Identifications of accessories and function and care of each piece of dental equipment in the operatory
 - 3. Operation and controls of the mobile dental unit, the dental chair, and adjusting the operator/assistant's chairs
 - 4. Routine care of the operatory cabinets, sinks, dental unit, dental chair, and operatory chairs
 - 5. Positioning the dental chair, dental units, operator's and chairside assistant's chair for admittance/dismissal of a patient
 - 6. Procedures and maintenance for the central vacuum and compressed air units
 - 7. Use of the air/water syringe in various areas of each quadrant of the oral cavity
 - 8. Care, disinfection and barrier control of equipment to assure a sanitary and safe environment of the dental chair, dental unit, and operator/assistant's chairs to prevent cross contamination
- C. Utilization of dental equipment
 - 1. Expendable supply inventory in treatment areas
 - a. Paper towels/liquid soap
 - b. PPE items
 - c. Paper products/barriers
 - 2. Correct procedures for infection control with use of barriers/disinfection procedures
 - 3. Practice of receiving, seating, draping, and dismissing a patient in the dental chair
 - 4. Patient placement in a reclined position; adjust and position operating light, mobile dental unit, pre-set instrument trays, operator's/assistant's chairs for four-handed chairside assisting
 - 5. Four-handed dentistry concept, demonstrate assisting at chairside
 - 6. Assembly and adjustment of the positions of the high-volume evacuation tip and the 3-way syringe
 - 7. Placement of the HVE tip for operation in each quadrant of the oral cavity using a mirror for retraction
 - 8. Use of the 3-way syringe and HVE
- D. Hand cutting instruments
 - 1. Parts and function of each hand cutting instruments
 - 2. Three and four number instrument formulas and the significance of the formula
 - 3. Hand cutting instruments and different categories of each
 - 4. Different between cutting instruments, knives, proximal trimmers, examination, carvers, burnishers, condensers, and finishing instruments
 - 5. Pen, palm, palm-thumb and reverse pen grasp
 - 6. Delivery/retrieval, and demonstration of selecting, passing, and receiving hand cutting instruments in simulated four-handed dentistry procedures
 - 7. Four-handed dentistry concept, chairside instruments/materials exchange and tray setups
 - 8. Five categories of motion and classifications
- E. Rubber dam

- 1. Reasons for rubber dam usage
- 2. IInstruments/materials used for rubber dam application
- 3. Role of the chairside assistant during assisted rubber dam application/removal; during unassisted rubber dam application/removal
- 4. Sequence for rubber dam application for a single tooth and a fixed bridge
- 5. Application and removal of the rubber dam for a designated working quadrant on typodont and on a classmate
- F. Rotary instrument
 - 1. Four functions of rotary instruments
 - 2. Use of and types of dental handpiece, i.e., straight, contra angle, (right angle), high speed, fiber optic and individually motorized handpiece
 - 3. Maintenance of hand pieces, i.e., cleaning, sterilizing, and lubricating
 - 4. Type, shape, and use of various dental burs
 - 5. Shape and use of various diamond burs
 - 6. Selection, placement/removal, and sterilization of burs/diamond stones, finishing burs in the contra angle, straight, and high speed handpieces
 - 7. Various types and use of discs, rubber wheels, points, and stones
- G. Operative dentistry
 - 1. Five objectives of operative dentistry
 - 2. Dental terms related to operative dentistry, i.e., cavity preparation, cavity walls, cavity angles, enamel wall, dentin wall, dentioenamel function bevels, and cavo-surface margins
 - 3. Black's steps in cavity preparation
 - 4. Composition of caries indicator dyes
 - 5. Indication for using caries indicator dyes
 - 6. Advantages for using caries indicator dyes to locate carious dentin or root canal.
 - 7. Precautions or contraindications when using caries indicator dyes
 - 8. Techniques for placement when using caries indicator dyes
 - 9. Role of the chairside assistant during the operative dental procedures
 - 10. Components and use of stock/custom matrices and wedges
 - 11. Assembly and placement of the matrix band in a retainer
 - 12. Positioning the prepared matrix retainer on a tooth
 - 13. Placement of a wedge on the band to compress the band tightly against the tooth
 - 14. Placement of a sedative restoration in a prepared Class II tooth that seals the margins and establish contact and occlusion
 - 15. Removal of the wedge, band, and retainer
- H. Fixed prosthodontics
 - 1. Indications and the contraindications for fixed prosthodontics
 - 2. Differences between the veneer crown, dowel crown, a multi-unit fixed bridge, adhesive bridges, metal/porcelain with metal, abutments, pontics, inlays, and onlays
 - 3. Sequence and laboratory procedures for preparing crown and bridge construction
 - 4. Construction process to create a pin retention crown/build up
 - 5. Role of the assistant when assisting in fixed crown and bridge procedures
 - 6. Gingival retraction in construction of fixed bridgework
 - 7. Three methods and materials used for the retraction of gingival
 - 8. Difference in types of elastomeric materials used to obtain impressions of crown and bridge preparations
 - 9. Fabrication, cementation, and removal of cement of a temporary for anterior/posterior tooth/teeth acrylic and metal
 - 10. Materials used to obtain in the patient's bite registration and their use in prosthodontics
 - 11. Role of the dental technician in prosthodontics
- I. Local anesthesia

- 1. Two most common forms of topical anesthetics and describe their use
- 2. Armamentarium for topical anesthetic
- 3. Method for application of topical anesthetic
- 4. Landmarks of the oral cavity that relate to local anesthetic placement and operative dentistry anesthesia
- 5. Two reasons for the addition of vasoconstrictor to a local anesthetic solution
- 6. Local anesthetic toxic reaction
- 7. Patient individual differences with regards to systemic toxic reactions to various anesthetic solution
- 8. Four precautions to minimize unfavorable reactions to local injections
- 9. Block, infiltration and ligament techniques for local anesthesia
- 10. Three advantages of local anesthesia
- 11. Four contraindications to local anesthesia usage
- 12. Types of anesthetic syringes
- 13. Assembly/disassembly of the various types of syringes
- 14. Passing/receiving (protective techniques) of an aspirating syringe
- 15. Role of the chairside assistant during the injection process
- 16. Precautions and care taken when disassembling the used syringes
- 17. Information recorded on the patient's records when local anesthetic is administrated
- 18. Precautionary measures after injection has been administered
- J. Endodontics
 - 1. Indications and contraindications for endodontic treatment
 - 2. Functions in endodontic treatment of tooth or teeth that may be delegated to the Registered Dental Assistant
 - 3. Need for an immediate appointment if a patient is in pain
 - 4. Receiving and preparing the patient for an examination by the dentist
 - 5. Role of the assistant when assisting in a clean and shape obturation endodontic procedure
 - 6. Armamentaria selected for root canal therapy
 - 7. Endodontic instruments and medicaments
 - 8. Care of instruments and the sterilization process
 - 9. Medicaments used in endodontic treatment to eradicate the pulp and to sterilize the pulp canals
 - 10. Materials used for the permanent filling of sterile root canals
 - 11. Process for opening and sterilizing the pulp canals and chamber of a tooth
 - 12. Materials and techniques that may be used for a permanent restoration of a tooth that has been successfullytreated endodontically
 - 13. Cleaning, sterilizing, and storing endodontic instruments
 - 14. Use of each instrument and the buns for cleaning, shaping, and obturating
 - 15. Making endodontic case history entries
- K. Pre-set trays
 - 1. Importance of identifying/assembling pre-set instrument trays for dental procedures
 - 2. Assembly of the instruments/materials on the following trays and the sequence of their use:
 - a. Amalgam tray
 - b. Composite tray
 - c. Crown and bridge prep tray
 - d. Crown and bridge delivery tray
 - e. Endodontic clean & shape tray
 - f. Endodontic obturation tray