IP USMF „N.Testemițanu”

Facultatea Stomatologie

Catedra chirurgie oro-maxilo-facială

și implantologie orală „A.Guțan”

Elaborări metodice

ale lucrărilor practice

Anul II, semestrul IV

(2018-2019)

Engleză

Topic Nr. 1

( II year, IV quarter )

Theme: General Anesthesia in Oral and OMF surgery. General data. Indications, contraindications. Clinic picture of GA. Advantages, disadvantages. Particularities of GA in the OMF region.

Work place: Clinical locations of the department

Purpose: During the practical work students are acquainted with general anesthesia in OMF surgery. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. History of anesthesia in dentistry and oro-maxillo-facial surgery.
2. Definitions and purposes (*goals*) of anesthesia.
3. Classification of methods of anesthesia used in dentistry and OMF surgery.
4. Indications of anesthesia. Choosing the anesthetic method according to indications.
5. Clinical picture of GA.
6. Stages, advantages and disadvantages of GA.

Topic Nr. 2 ( II year, IV quarter )

Theme: General anesthesia in OMF surgery. General anesthesia methods. Routes and administration techniques.

Work place: Clinical locations of the department

Purpose: During the practical work students learn general anesthesia methods, routes and administration techniques. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. General inhaled anesthesia.
2. Anesthetic circuits.
3. Volatile and gaseous liquid anesthetic preparations.
4. Intravenous general anesthesia. Access, substances used.
5. General and long-lasting anesthesia (indications, contraindications, advantages, disadvantages, routes of administration).

Topic Nr. 3 ( II year, IV quarter )

Theme: Particularities of anesthesia and surgical interventions in the OMF region according to the patient's predisposing factors (physiological and pathological).

Work place: Clinical locations of the department

Purpose: During the practical work students learn particularities of anesthesia and surgical interventions in the OMF region in elders, pregnancy and cardiovascular conditions. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Elderly predisposing factors.
2. Predisposing factors during pregnancy.
3. Cardiovascular pathological conditions: AHT, cardiac rheumatism, coronary heart disease.
4. Myocardial infarction, chronic heart failure, valvular lesions, cardiac conduction disorders (tachycardia).

Topic Nr. 4( II year, IV quarter )

Theme: Particularities of anesthesia and surgical interventions in the OMF region depending on the patient's predisposing factors (pathological conditions).

Work place: Clinical locations of the department

Purpose: During the practical work students learn particularities of anesthesia and surgical interventions in the OMF region. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Pathological conditions: pulmonary (bronchitis, emphysema, bronchial asthma.
2. Hepatic diseases.
3. Diabetic.
4. Allergic.
5. Neuro-psychic diseases.
6. Blood diseases.
7. Neoplasic diseases.
8. Anesthetic risk in dentistry.

Topic Nr. 5( II year, IV quarter )

Theme: Preparing patients for anesthesia. Preanesthesia (premedication). Final testing 1.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the preparation of the patients for anesthesia. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Psychological and physical preparation.
2. Drug preparation.
3. Medicines used in premedication (barbiturates, analgesics, vagolites, tranquilizers).
4. Potential local anesthesia.

Topic Nr. 6( II year, IV quarter )

Theme: Loco-regional anesthesia in OMF surgery. Definition. Classification. Advantages, indications, contraindications.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the loco-regional anesthesia in OMF surgery. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Definition of loco-regional anesthesia.
2. Classification of loco-regional anesthesia methods.
3. Advantages of loco-regional anesthesia.
4. Indications of loco-regional anesthesia.
5. Contraindications of loco-regional anesthesia.
6. Anesthetic solutions used in dentistry, general data.

Topic Nr. 7( II year, IV quarter )

Theme: Anesthetic solutions used in dentistry. Instrumentation and materials.

Work place: Clinical locations of the department

Purpose: During the practical work students aquire knowledge on anesthetic solutions, instrumentation and materials used in dentistry. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. General data (qualities of anesthetic solutions, composition, requirements for anesthetic solutions).
2. Local anesthetics. Anesthetic groups. The main representatives and their basic characteristics.
3. Vasoconstrictive substances (natural and synthetic sympathomimetics), their role in the anesthetic solution.
4. Adjuvant and diluent substances in the anesthetic composition and their role.
5. Instruments and materials used in local and regional anesthetics.

Topic Nr. 8 (II year, IV quarter )

Theme: Pre-anesthetic preparations.

Work place: Clinical locations of the department

Purpose: During the practical work students learn how are patient, doctor, instruments and operation field prepared. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Preparing the patient and doctor for anesthesia.
2. Preparing instruments for anesthesia.
3. Preparing the operational field for anesthesia.

Topic Nr. 9 (II year, IV quarter )

Theme: Anatomy of the trigeminal nerve.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the tnatomy of the trigeminal nerve. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. The maxillary nerve, origin, tract, afferent branches, the territory of innervation.
2. The pterygoid nerve and sphenopalatine branch with its afferents: superior nasal, nasopalatine, anterior palatine, small palatines and accessories.
3. Alveolar superior posterior, middle, superior and anterior alveolar nerves. Origin, trajectory, territory of innervation
4. The mandibular nerve. Tract, territory of innervation, eferential branches.
5. The oral, lingual and auricular-temporal nerves.
6. Lower alveolar nerve. Tract, territory of innervation, branches (mylohyoid nerve and anterior digastric nerve, incisive and mental nerves).

Topic Nr. 10 ( II year, IV quarter )

***Theme:*** ***Local anesthesia (terminal). Methods and techniques. Final testing 2.***

Work place: Clinical locations of the department

Purpose: During the practical work students learn the methods and techniques of local anesthesia. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Definition of local terminal anesthesia. Goals, clinic, indications.

2. Terminal anesthesia by refrigeration. Indications, technique, substances used.

3. Terminal anesthesia by injection. Indications, technique, substances used.

4. Terminal anesthesia by contact (topical, applicative). Indications, technique.

Topic Nr. 11 ( II year, IV quarter )

Theme: Regional anesthesia (nerve block). Infraorbital nerve block.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the infraorbital nerve block techniques. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Regional anesthesia (nerve block).Goals, indications, peculiarities.
2. Infraorbital Nerve block - anesthetized territory, indications.
3. Infraorbital nerve block, intraoral technique. Landmarks.
4. Infraorbital nerve block, extraoral technique. Landmarks.
5. Incidents, accidents and local complications.

Topic Nr. 12 ( II year, IV quarter )

Theme: Regional anesthesia (nerve block). Anesthesia of superior posterior alveolar nerves.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the superior posterior alveolar nerves block. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Troncular anesthesia of superior and posterior alveolar nerves - anesthetized territory, indications.
2. Superior posterior alveolar nerve block, intraoral technique. Landmarks.
3. Superior posterior alveolar nerve block, extraoral technique. Landmarks.
4. Incidents, accidents and local complications.

Topic Nr. 13 (II year, IV quarter )

Theme: Regional anesthesia (nerve block). Anesthesia of nasopalatine and anterior palatine nerves.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the nasopalatine and anterior palatine nerves block. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Troncular anesthesia of nasopalatine nerve (to the anterior palatine foramen or incisive foramen) – anesthetized territory, indications.

2. Nasopalatine nerve block, nasal and oral pathways, technique. Landmarks. Incidents, accidents and local complications.

3. Peripheral anesthesia (nerve block) of the upper palatine or anterior palatine nerve (at the posterior palatine foramen). Anesthetized territory, indications. Technique. Landmarks. Incidents, accidents and local complications.

Topic Nr. 14 (II year, IV quarter )

Theme: Regional anesthesia (nerve block). Anestesia of the lower alveolar nerve.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the inferior alveolar nerve block techniques. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Troncular anesthesia of the inferior alveolar nerve – anesthetized territory, indications.
2. Inferior alveolar nerve block, intraoral technique. Landmarks.
3. Inferior alveolar nerve block, extraoral technique. Landmarks.
4. Incidents, accidents and local complications.

Topic Nr. 15( II year, IV quarter )

Theme: Regional anesthesia (nerve block). Anestezia of the lingual and buccal nerves. Anesthesia at the mental foramen.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the anesthesia at the mental foramen, lingual and buccal nerve blocks. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Troncular anesthesia of the lingual nerve – anesthetized territory, indications. Lingual nerve block, technique. Landmarks. Incidents, accidents and local complications.
2. Buccal nerve block. Anesthetized territory, indications. Technique. Landmarks. Incidents, accidents and local complications.
3. Anesthesia at the mental foramen, indications. Technique. Landmarks. Incidents, accidents and local complications.

Topic Nr. 16 (II year, IV quarter )

Theme: Incidents, accidents and general complications of loco-regional anesthesia.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the accidents and general complications of loco-regional anesthesia. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. General toxic accidents caused by the anesthetic substance.
2. Fainting (lypothymia). Clinic. First aid.
3. Cardio-respiratory syncope. Clinic. First aid.
4. Cardio-respiratory stop. Clinic. Elementary measures to support vital functions. (Basic Life Support: A. Airway, B. Breathing, C. Circulations).
5. Convulsions. First aid.
6. Allergic accidents. (urticaria, Quincke's edema, anaphylactic shock).
7. Complications determined by the predisposing factors (elderly, pregnant, cardiovascular, diabetes, coagulopathy).

Topic Nr. 17 (II year, IV quarter )

Theme: Incidents, accidents and local complications of loco-regional anesthesia.

Work place: Clinical locations of the department

Purpose: During the practical work students learn the accidents and local complications of loco-regional anesthesia. Practical: attend and participate to patient’s receiving.

Work plan: 1. Discussion on the topic – 30 min.

2. Demonstration of the thematic patient – 30 min.

3. Work on the simulator – 35 min.

4. Generalization – 10 min.

Control questions:

1. Immediate accidents: pain, vascular lesions, transient paresis.
2. Immediate accidents: eye disorders, fall of the needle in the upper respiratory tract, needle rupture, lack of anesthesia.
3. Complications (secondary accidents): mucosal necrosis, post-anesthetic edema, dry alveolitis, perimaxillary infections, post-anesthetic neuritis.