**Topic 5. Inspection of disease place (Locus morbi): surveys, probing, percussion, palpation.**

1. Examination of patient A., 56 years old, revealed a tooth on the lower jaw on the left with changed color and loss of natural shine. Vertical percussion of the tooth is sharply painful. Which tissue is damaged at such symptoms?

   - Apical periodontium
   - Marginal periodontium
   - Crown pulp
   - Enamel
   - Dentine

   **Solution algorithm:**
   1. Pay attention to the result of the tooth examination. Loss of natural shine and discoloration indicates about devital condition of the pulp.
   2. Analyze the result of percussion. Vertical percussion determines the condition of the apical periodontium, inflammation of which occurs in the case of untimely treatment of pulpitis and spreading of infection in the periodontal space through the root canal. Painful percussion indicates inflammation of the apical periodontium.

2. Patient V. applied to the clinic of therapeutic dentistry with complaints of prolonged pain from thermal and chemical irritants. Examination of tooth 46 revealed a deep carious cavity on the chewing surface. What method can be used to assess the condition of the pulp of the damaged tooth?

   - Probing
   - Vertical percussion
   - Horizontal percussion
   - Palpation
   - Examination of the mucous membrane in the projection of the tooth root apex

   **Solution algorithm:**
   1. Horizontal and vertical percussion is used to assess the condition of the periodontium. Therefore, the 2nd and 3rd answers are excluded.
   2. Palpation of the mucous membrane in the area of the projection of the tooth root apex and its survey makes it possible to assess the condition of the periapical space, bone, periosteum, mucous membrane in the area of the causative tooth.
   3. The condition of the pulp can be assessed by probing. Painful probing, connection of the carious cavity with the tooth cavity indicates inflammation of the pulp.

3. Patient K., 46 years old, went to the clinic of therapeutic dentistry with complaints of pain in the gums around the tooth on the upper jaw in the frontal
area, which arose as a result of injury from a fish bone. Examination revealed the remains of a broken fish bone in the area between the distal gingival papilla and tooth 12, redness, swelling, pain on palpation of the marginal edge of the gums. What other objective method can be used to assess the condition of the marginal periodontium? What is the likely outcome?
Horizontal percussion is painful
Vertical percussion is painful
Thermodiagnostics is painful
Electroodontodiagnostics
Luminescent diagnostics

Solution algorithm:
1. Remember that the periodontium is a connective tissue that is located in the periodontal space and holds the tooth in the alveolus.
2. Note that an objective percussion method is used to determine the condition of the periodontium ligament.
3. Note that there are two types of percussion: vertical and horizontal. Vertical percussion can be used to assess the condition of the apical periodontium, and horizontal percussion is used to assess the marginal periodontium. At an inflammation horizontal percussion is painful.