

**Thematic lesson plan of lectures  
in the discipline "Cariology and hard tissue lesions of teeth"  
for students of the 2022 year of admission in the educational program 31.05.03 Dentistry,  
in the specialty of training, form of study – resident instruction  
3rd-Years Students (Term V, VI), for the 2024-2025 academic year**

№	Topics of lectures	Hours (academic)
<b>Term V</b>		
1	<b>Modern hypotheses concerning the etiology and pathogenesis of caries<sup>1</sup>.</b> Classification of dental caries. Enamel caries, dentinal caries, cemental caries. Histopathology, clinical and diagnostic features, differential diagnosis, treatment of dental caries <sup>2</sup> .	2
2	<b>Non-cariou lesions of teeth<sup>1</sup>.</b> Classification of non-cariou lesions. Tooth lesions at follicular period of tissue development – before tooth eruption (hypoplasia, the enamel hyperplasia, endemic fluorosis, abnormalities of size and form of teeth, Inherited abnormality in tooth development); non-cariou lesions occurring after eruption: hard tissue attrition, wedge-shaped defect, tooth erosion. Etiopathogenesis, pathoanatomy, clinical findings, diagnosis, differential diagnostics, prevention and treatment <sup>2</sup> .	2
3	<b>Non-cariou lesions occurring after eruption: pigmentation and dental plaque, hard tissue necrosis, dental hyperesthesia<sup>1</sup>.</b> Etiopathogenesis, pathoanatomy, clinical findings, diagnosis, differential diagnostics, prevention and treatment <sup>2</sup> .	2
<b>Term VI</b>		
1	<b>Non-cariou lesions occurring after eruption: dental injury<sup>1</sup>.</b> Etiopathogenesis, pathoanatomy, clinical findings, diagnosis, differential diagnostics, prevention and treatment <sup>2</sup> .	2
2	<b>Vital tooth bleaching<sup>1</sup>.</b> Classification of tooth bleaching methods. Indications and contraindications for teeth whitening. In-office and at-home whitening techniques. Mistakes and complications arising during in-office whitening, it's prevention and methods of elimination <sup>2</sup> .	2
3	<b>Tooth restoration<sup>1</sup>.</b> Concept of dental restoration. Indications and contraindications for dental restoration. Clinical concept of dental restoration in cases of caries and other diseases of hard dental tissues. The choice of filling materials for the restoration of different dental groups. Stages of aesthetic restoration of the chewing group of teeth. Stages of aesthetic restoration of the frontal group of teeth <sup>2</sup> .	2
	Total	12

<sup>1</sup> - Subject

<sup>2</sup> - essential content (if necessary)

Considered at the meeting of the department of Therapeutic Dentistry "06" June 2024, protocol No12

Head of the Department of Therapeutic  
Dentistry, DSci, Professor



I.V. Firsova