

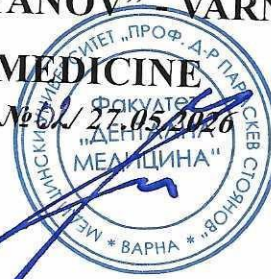


MEDICAL UNIVERSITY

“PROF. DR. PARASKEV STOYANOV” VARNА

FACULTY OF DENTAL MEDICINE

Approved by protocol of the FC № 61/27.05.2026



Approved:

DEAN:

/Assoc. Prof. G. Papanchev, DMD, PhD/

EDUCATIONAL PROGRAMME OF

“DENTAL ALLERGOLOGY”

Specialty “DENTAL MEDICINE”

Educational-qualification degree “MASTER”

Professional qualification “PHYSICIAN IN DENTAL MEDICINE”

	Semester	Horrarium – weekly	Total horrarium
Lectures	VIII	2	30
Practical classes	VIII	1	15
Total		2	45
Control and evaluation forms	Current control		Exam – VIII semester
Credits (ECTS)			3

Lecturers: Assoc. Prof. Dr. Miglena Balcheva-Eneva, DMD, PhD

Varna, 2026

ANNOTATION:

The “Dental allergology” course gives an opportunity to acquire practical and theoretical knowledge and competency on special dental allergology and complex focal diagnostics.

Tasks of the syllabus are mastering of the methods of complex focal and allergological diagnostics for the assessment of general and local reactivity of the organism; allergological status; differential and final diagnosis of the manifestations of chronic and allergic diseases in the oral cavity and oral mucosa, as well as the impact of dental and periodontal diseases on other organs and systems; acquiring knowledge and clinical experience in the sphere of dental medicine.

Preliminary requirements: In order to start the training in Dental Allergology students should have basic knowledge of: Biology, Physics, Chemistry, Anatomy and Histology, Cytology, Biophysics, Pathophysiology, Medical Ethics, General Medicine, Social Medicine, Dental Materials Science, Microbiology, Pharmacology, General pathology, Propaedeutics of Internal Medicine, Imaging diagnostics, General surgery, Occupational Diseases, Emergency Medicine, etc.

Training, control and evaluation forms

Training of students is theoretical and practical, and follows the contemporary methods of teaching and evaluation of achievements.

Evaluation is complex and includes routine assessment of student's activity during practical classes and practical examination, and estimation of theoretical knowledge through tests, oral examination and final exam.

Assessment aspects – complex:

- Clinical and paraclinical diagnostics.
- Clinical cases analysis.
- Test results.
- Exam results.

Evaluation criteria:

Evaluation – complex:

- Assessment of student's activity during practical classes.
- Colloquium.
- Final exam results.

Assessment aspects: The assessment is based on collected points (up to 102 points), as the weight of each component is determined by an appropriate coefficient. The formula is $S = A*3 + B*3 + C*4 + D*7$, such as:

- Clinical and paraclinical diagnostics, and clinical cases analysis – A
- Test results – B
- Final exam results – written topic – C
- Final exam results – oral topic – D

At the end of the course, students must have the following knowledge, skills and competencies:

- **Knowledge** about various allergic diseases, including their maxillo-facial manifestations and impact on dental work, about occupational allergic hazards and the relation between oral and general diseases.
- **Skills** to apply the methods of complex focal and allergological diagnostics for assessing local and general reactivity of the body, interpret the obtained results, master the differential diagnostic process and make correct diagnosis.
- **Competencies** for establishing focal and allergological status, prevention of allergic diseases induced by the use of dental drugs and materials, both in patients and in themselves as an occupational risk, consulting patients with relevant specialists, monitoring the treatment plan and evaluating the results at regular follow-ups.

PLAN OF TOPICS OF LECTURES AND PRACTICAL CLASSES

Lectures VIII semester

№	Topic	Hours
1.	Historical review. European and Bulgarian contribution to the field of dental allergology and oral diagnostics. Fields of dental allergology.	2
2.	Allergic diseases – definition, clinical classification, etiology. Allergic factors. Diagnostic and treatment allergens and haptens.	2
3.	Pathogenesis of allergic reactions. Atopy.	2
4.	Allergic diseases of the eyes and respiratory tract – allergic rhinitis, bronchial asthma. Impact on oral status and dental treatment.	2
5.	Allergic diseases of the skin and mucous membranes – atopic dermatitis, contact dermatitis, urticarial and angioedema.	2
6.	Complex allergic diseases – food allergy, insect allergy, drug allergy.	2
7.	Dental materials, causing allergic reactions – characteristics and clinical features. Specific oral allergic diseases.	2
8.	Local anesthetics – options in patients with allergic and systemic diseases. Anaphylactic shock. Latex allergy in dental practice.	2
9.	Occupational sensitization in dentistry.	2
10.	Treatment of allergic diseases. Allergen-specific immunotherapy. Targeted therapy and monoclonal antibodies.	2
11.	Chronic focal infection – definition, terms and historical review. Pischinger's ground regulation system.	2
12.	Oral disturbance fields – definition, types, classification. General and local reactivity tests. Chronic focal diseases.	2
13.	Focal rehabilitation plan – guidelines for the treatment of disturbance fields and focal diseases. Follow-up.	2
14.	Prevention and treatment of disturbance fields. Complex focal rehabilitation in medically compromised patients. Reasons for the	2

	failure of focal treatment.	
15.	Patient's health record – documents concerning allergic and focal diagnostics, prevention and treatment.	2
	Total	30

Practical classes VIII semester

№	Topic	Hours
1.	Theoretical part – Diagnostic protocol in dental allergology. Practice – Scratch- and prick-tests.	2
2.	Theoretical part – Contraindications for allergy testing. Factors that hamper skin and mucosal testing and affect its results. Complications. Practice – Patch test.	2
3.	Theoretical part – Paraclinical tests in oral allergic and focal diagnostics. Practice – Electro-skin test of Gehlen. Test 1	2
4.	Theoretical part – Burning mouth syndrome. Practice – Local thermometric test.	2
5.	Theoretical part – Drugs used in oral allergology. Practice – Pathogalvanism – measurement of corrosion potentials.	2
6.	Theoretical part – Premedication protocols in oral allergology. Practice – Thermography. Test 2	2
7.	Theoretical part – Structure and functions of the specialized office for allergic and focal diagnostics. Emergency locker drugs. Practical exam	3
	Total	15

SYLLABUS:

General part (written examination):

1. Complex oral diagnostics – requirements for patients.
2. Allergy diagnostics – allergic history and physical examination.
3. Diagnostic procedures in allergology – skin prick test and intradermal test.
4. Diagnostic procedures in allergology – patch test.
5. Diagnostic procedures in allergology – specific tests, elimination, exposition and provocation tests; indirect tests.
6. Factors that hamper skin and mucosal testing and affect its results.
7. Indications and contraindications for allergy testing. Complications after skin and mucosal testing.
8. Paraclinical tests and studies in oral allergology.
9. Paraclinical tests and studies in focal diagnostics.
10. Local reactivity tests, applied in maxillofacial area.
11. Thermography.
12. Drugs in oral allergology. Antihistamines.
13. Drugs in oral allergology. Corticosteroids.
14. Drugs in oral allergology. Leukotriene antagonists. Decongestants.
15. Premedication before local anesthesia. Protocols.
16. Specialized office for allergic and focal diagnostics.
17. Dentavax – indications, contraindications, administration.
18. Patient's health record – documents concerning allergic and focal diagnostics, prevention and treatment.

Specific part (oral examination):

1. Allergy and allergic diseases – definition, classification, etiology.
2. Classification of allergens. Diagnostic allergen extracts.
3. Pathogenesis of allergic reactions. Atopy.

4. Allergic rhinitis and rhino-sinusitis. Dentist's approach.
5. Bronchial asthma. Dentist's approach.
6. Atopic dermatitis. Dentist's approach.
7. Contact dermatitis. Dentist's approach.
8. Acute and chronic urticaria. Quincke's edema.
9. Food allergy with oral manifestations.
10. Insect allergy. Dentist's approach.
11. Drug allergy with oral manifestations. Dentist's approach.
12. Dental materials with allergic potential – metals, acrylates, root canal sealants. Short characteristics.
13. Clinical features of allergy, induced by dental materials. Specific oral allergic diseases.
14. Local anesthetics – sensitizing capacity and choice in medically compromised patients.
15. Allergic reactions during local anesthesia. Anaphylactic shock.
16. Latex in dentistry. Dentist's approach in cases of latex allergy.
17. Occupational allergies in dental staff.
18. Treatment of allergic diseases. Targeted therapy and monoclonal antibodies.
19. Immunotherapy.
20. Burning mouth syndrome.
21. Chronic focal infection – definition and terms. Pischinger's ground regulation system.
22. Oral disturbance fields – definition, types, classification. Chronic focal diseases.
23. Prevention of maxillo-facial disturbance fields. Primary and secondary prophylaxis.
24. Treatment of maxillo-facial disturbance fields. Treatment plan.
25. Maxillo-facial disturbance fields – reasons for the treatment failure.

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