



CD 8.5.1 DISCIPLINE CURRICULUM

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FACULTY OF STOMATOLOGY

STUDY PROGRAM 0911.1 STOMATOLOGY

CHAIR OF STOMATOLOGICAL PROPAEDEUTICS „PAVEL GODOROJA”

APPROVED

at the meeting of the Committee for Quality Assurance and the evaluation of the Curriculum Faculty of Stomatology

Minutes No. 2 of 13.02.2018

Committee president, PhD., DMS.,

Associate professor,

Stepco Elena [Signature]

APPROVED

at the Council meeting of the Faculty of Stomatology

Minutes No. 6 of 20.02.2018

Dean of Faculty of Stomatology,

PhD., DHMS., Professor,

Ciobanu Sergiu [Signature]

APPROVED

at the meeting of the chair of Stomatological Propaedeutics

„Pavel Godoroja”

Minutes No. 3 of 20.10.2017

Head of the chair, PhD., DHMS., Associate professor

Uncuța Diana [Signature]

SYLLABUS

DISCIPLINE: THE COMPLETE DENTURE TECHNOLOGY, SEMIOLOGY AND NOZOLOGICAL FORMS OF STOMATOGNATHIC SYSTEM

Integrated studies

Type of course: **Compulsory discipline**

Chișinău, 2017



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I. PRELIMINARIES

- *General presentation of the discipline: the place and role of the discipline in the formation of the specific competences of the vocational/specialty training program.*

The discipline of complete denture technology, semiology and nozological forms of the stomatognathic system, represent some important aspects of preclinical and clinical education of the future dentist. This discipline has a major objective to studying the component of the total edentulism, components of the complete dentures and their techniques of fabrication. Examination of the patients and the options of clinical and paraclinical examination described in this compartment are targeted to develop a student clinical thinking for the purpose of establishing a plan of diagnosis and prosthetic treatment.

To determine a correct, complete and differential diagnosis requires that in the patient's clinical and paraclinical examination must be distinguish and synthesized a clinical symptoms with increased attention. It should be noted that the characteristic of clinical symptoms are easier to detect, taking into account the basic nozological forms of diseases of the stomatognathic system, which require prosthetic treatment.

Mission of the curriculum (aim) in vocational training

The discipline of complete denture technology, the semiology and the nozological forms of the stomatognathic system aim to accumulate the knowledge about the technology of the complete denture manufacturing, the semiology and the nozological forms of the stomatognathic system. At the same time, the knowledge of the complete denture technology, semiology and nozological forms of the stomatognathic system, develops the students' clinical skills, thinking and their implementation in the following courses in becoming a good dentist. The study of this discipline ensures the understanding of the medical role of the complete denture technology, the semiology and nozological forms of the stomatognomy system as part of the prosthetic treatment. The deep knowledge of the proposed objectives ensures the student-dentist's chance to become a good specialist in the health care of the patients.

Discipline teaching languages: Romanian, Russian and English.

- **Beneficiaries:** students of the third year, the Faculty of Stomatology.

II. DISCIPLINE ADMINISTRATION

| | | | |
|-----------------------------------|------------|---|-----------|
| Discipline code | | S.05.O.051 | |
| Discipline name | | Complete denture technology, the semiology and the nozological forms of the stomatognathic system | |
| Responsible for discipline | | Bajurea Nicolae , PhD., DMS., Associate professor Uncuța Diana , Head of the chair, PhD., DHMS., Associate professor | |
| Year | III | Semester | V |
| Total number of hours, including: | | | 60 |
| Lectures | 17 | Practical courses | 17 |
| Seminars | 17 | Individual work | 9 |



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Evaluation form

E

Number of credits

2

III. THE TRAINING OBJECTIVES OF THE DISCIPLINE

- ***At the level of knowledge and understanding:***

- To define the notions: total edentulism, complete denture;
- To describe the component parts of the prosthetic area in total edentulism and the component parts of the complete denture;
- To know the classification of alveolar processes on the upper and lower jaw by various authors and the prosthetic area mucosa;
- To understand the necessity of preliminary and functional impression of the prosthetic area in total edentulism;
- To know the anatomical landmarks for determining the jaw relations;
- To know the particularities of choosing and mounting the artificial teeth;
- To know and describe the steps of flasking, packaging and processing of the complete denture;
- To know the classification of nosological forms of the stomatognathic system diseases;
- To know and understand the necessity of clinical and paraclinical examination of the patient and to determine the correct diagnosis;
- To know the ethical and medical principles in examining patients in dental prosthetics;
- To know the sequence of clinical examination (subjective and objective) and the importance for the treatment of the patient;
- To know the symptoms of stomatognathic system disease;
- To know the particularities of the paraclinical exam (radiography, study model, electroodontodiagnostics);
- To know and be able to diagnose dental prosthetics disease;
- To know the general principles of prosthetic treatment;
- To know and understand why the patient needs the pre- and pro - prosthetic treatment;
- To know general indications and contraindications to the prosthetic treatment of the stomatognathic system diseases;
- To know local indications and contraindications to the prosthetic treatment of the stomatognathic system diseases;
- To know the methods of prevention of nosocomial infections in preclinical endodontics.

- ***Application level:***

- To perform the primary impression on the phantom models;
- To produce the primary model and the custom tray;
- To determine the landmarks of prosthetic area and to identify the peripheral extension on working models;
- To design and to construct the registration rims for occlusal registration;
- To determine and record the occlusal registration on models;
- To mount the models in the articulators;
- Positioning the denture artificial teeth.

- ***At the integration level:***

- ✓ to appreciate the level and importance of knowing the complete denture technology, semiology and nosological forms of the stomatognathic system;
- ✓ To have skills to implement and integrate knowledge obtained in clinical disciplines;



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- ✓ To be able to objectively evaluate and self-assess the knowledge in the field;
- ✓ To be able to assimilate new achievements in dental treatment;
- ✓ to know and respect the professional and deontology ethics.

IV. PRECONDITIONS AND EXIGENCIES

Knowledge about the notions: total edentulism, complete denture. Description of the component parts of the prosthetic area in total edentulism and the component parts of the complete denture. Knowledge about the classification of alveolar processes on the upper and lower jaw by various authors and the prosthetic area mucosa. Understanding the necessity of preliminary and functional impression of the prosthetic area in total edentulism. Knowing the anatomical landmarks for determining the jaw relations. Knowing the particularities of choosing and mounting the artificial teeth. Knowing and describe the steps of flasking, packaging and processing of the complete denture. Knowing the classification of nosological forms of the stomatognathic system diseases. Knowing and understanding the necessity of clinical and paraclinical examination of the patient and to determine the correct diagnosis. Knowing the ethical and medical principles in examining patients in dental prosthetics. Knowing the sequence of clinical examination (subjective and objective) and the importance for the treatment of the patient. Knowing the symptoms of stomatognathic system disease. Knowing the particularities of the paraclinical exam (radiography, study model, electroodontodiagnostics). Knowing and be able to diagnose dental prosthetics disease. Knowing the general principles of prosthetic treatment. Knowing and understanding why the patient need the pre- and pro - prosthetic treatment. Knowing general indications and contraindications to the prosthetic treatment of the stomatognathic system diseases. Knowing local indications and contraindications to the prosthetic treatment of the stomatognathic system diseases. Knowing the prevention methods of nosocomial infections in preclinical endodontics.

V. THEMES AND ORIENTATIVE DISTRIBUTION OF HOURS

| Nr. d/o | THEME | Number of hours | | | |
|------------|--|-----------------|----------|-----------|------------|
| | | Courses | Seminars | Practices | Individual |
| 1. | Total edentulism. Etiology. Clinical aspects of prosthetic area. Aspects of prosthetic area, component elements, characteristics. Classification of alveolar ridges in total edentulism, characteristic by Schroder and Koller. Classification of mucous membrane of totally edentulous prosthetic area by Supple, Gavrilov. Primary impression of totally edentulous prosthetic area – aim, necessary materials and equipments. Primary cast – aim and method of manufacturing. | 1 | 1 | 1 | |
| 2. | Custom impression trays. Techniques of manufacturing. Characteristic . Functional tests by Herbst for the upper and lower jaw. Functional impression. Final (working) cast, characteristics. Necessary materials and equipments. | 1 | 1 | 1 | |
| 3. | Techniques of taking impressions for edentulous arches. Technique of taking the mucostatic dental impression, particularities. Technique of taking the dynamic impressions, particularities. Mucocompressive impressions. Indication. Contraindication. The selective pressure dental impressions. Indications. Technique of taking impressions by Schreinemakers. Advantage. Disadvantages. Techniques of taking impressions by Herbst. Advantages. Disadvantages. Techniques of taking impressions by Pedro Saizar, Y.Gilbert and M.Blandin. | 1 | 1 | 1 | 1 |



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| Nr. d/o | THEME | Number of hours | | | |
|------------|---|-----------------|----------|-----------|------------|
| | | Courses | Seminars | Practices | Individual |
| 4. | Occlusal rims manufacturing. Requirements. Characteristics. Component parts. Technique of manufacturing. | 1 | 1 | 1 | |
| 5. | Recording of the occlusal relationship. Methods of the cast fixation in articulators. The aim of recording the central relation. Methods of recording occlusion, the steps of the procedure. Limits of occlusal rims on the upper and lower jaw. Principles and methods of cast fixation in articulators. | 1 | 1 | 1 | 1 |
| 6. | Arrangement of teeth on the upper jaw for complete denture. Complete denture wax-up. General and individual rules of teeth arrangement on the upper jaw. Artificial teeth, varieties, characteristics. The principles for choosing and arrangement technique of artificial teeth in maxilla and mandible for complete denture. Techniques of artificial teeth arrangement. | 1 | 1 | 1 | |
| 7. | Arrangement of teeth on the lower jaw for complete denture. Artificial teeth: classification, requirements, using. Marking the anatomical guidelines on the working cast for correct manufacturing of the lower artificial dental arch. Techniques of artificial teeth arrangement. Complete denture wax-up. | 1 | 1 | 1 | 1 |
| 8. | Final modeling of the complete denture. The aim of the final modeling. Objectives. The modeling of the upper and lower wax patterns of the complete dentures. | 1 | 1 | 1 | |
| 9. | Flasking procedure. Investing, packing, polymerization, unpacking the complete denture. Flask. Notion. The aim of flasking. Packing methods. Advantages. Disadvantage. Eliminating the wax from the mold (dewaxing). Steps in resin packing. Polymerization cycle. Steps of polymerization. Unpacking. Notion. Deflasking. | 1 | 1 | 1 | |
| 10. | Finishing and polishing of the complete denture. Abrasive instruments. Finishing instruments. Trimming and sand paper finishing. Instruments and materials for polishing. Totalization | 1 | 1 | 1 | |
| 11. | Nosological forms and clinical symptoms of stomatognathic system disorders. Classification of nosological forms. Hard tissue lesions. Carious and non-carious lesions. Types of tooth wear. Dental anomalies, developmental and acquired. Partial edentulism. Total edentulism. Periodontal diseases. TMJ disorders. | 1 | 1 | 1 | 2 |
| 12. | Clinical symptoms of stomatognathic system disorders. Subjective symptoms of stomatognathic system disorders. Objective symptoms of stomatognathic system disorders. | 1 | 1 | 1 | 1 |
| 13. | Clinical examination of the patient in the prosthetic department. The sequence of clinical examination. Sequence of extraoral clinical examination of patients in the dental prosthetic department. Subjective examination (complaints, anamnesis morbi, anamnesis vitae). Objective extraoral examination and TMJ examination. Intraoral objective examination (teeth examination, dental arches examination, examination of occlusion in dynamic, examination of alveolar processes, mucous membrane | 1 | 1 | 1 | 2 |



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| Nr. d/o | THEME | Number of hours | | | |
|--------------|--|-----------------|-----------|-----------|------------|
| | | Courses | Seminars | Practice | Individual |
| | examination). | | | | |
| 14. | Paraclinical examination of the patient in the prosthetic department. Indications for paraclinical investigations of patients in dental prosthetic department. Varieties of x-ray exam of patients in dental prosthetic department. To analyze the study cast. Electroodontometry. Thermodiagnostic. Masticatory efficiency. Totalization | 1 | 1 | 1 | |
| 15. | Indications for prosthetic treatment of stomatognathic system disorders. General indications to prosthetic treatment. Local indications to prosthetic treatment. | 1 | 1 | 1 | |
| 16. | Contraindications for prosthetic treatment of stomatognathic system disorders. General contraindications to prosthetic treatment. Local contraindications to prosthetic treatment | 1 | 1 | 1 | |
| 17. | General principles and methods of prosthetic treatment. Prophylactic principle of prosthetic treatment. Curative principle of prosthetic treatment. Biologic principle of prosthetic treatment. Biomechanic principle of prosthetic treatment. Homeostatic principle of prosthetic treatment. Ergonomic principle of prosthetic treatment. Methods of prosthetic treatment. Characteristic. Totalization | 1 | 1 | 1 | 1 |
| Total | | 17 | 17 | 17 | 9 |

VI. REFERENT OBJECTIVES AND CONTENT UNITS

| Objectives | Content units |
|---|---|
| Chapter 1. Complete denture technology | |
| <ul style="list-style-type: none"> To define the notions: total edentulism, complete denture; To describe the component parts of the prosthetic area in total edentulism and the component parts of the complete denture; To know the classification of alveolar processes on the upper and lower jaw by various authors and the prosthetic area mucosa; To understand the necessity of preliminary and functional impression of the prosthetic area in total edentulism; To know the anatomical landmarks for determining the jaw relations; To know the particularities of choosing and mounting the artificial teeth; To know and describe the steps of flasking, packaging and processing of the complete denture. | <ul style="list-style-type: none"> ✓ Impression of edentulous prosthetic area ✓ Impression materials ✓ Stock impression trays ✓ Primary model ✓ Custom Impression trays ✓ Working model ✓ Occlusal rims ✓ Articulators ✓ Facebows ✓ Artificial teeth ✓ Flasks ✓ Investing materials ✓ Abrasive instruments |



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| Objectives | Content units |
|--|--|
| Chapter 2. Nosological forms and clinical symptoms of stomatognathic system disorders. | |
| <ul style="list-style-type: none"> To know the classification of nosological forms of the stomatognathic system diseases; To know and understand the necessity of clinical and paraclinical examination of the patient and to determine the correct diagnosis; To know the ethical and medical principles in examining patients in dental prosthetics; To know the sequence of clinical examination (subjective and objective) and the importance for the treatment of the patient; To know the symptoms of stomatognathic system disease; To know the particularities of the paraclinical exam (radiography, study model, electroodontodiagnostics); To know and be able to diagnose dental prosthetics disease. | <ul style="list-style-type: none"> ✓ Hard tissue lesions. Carious and non-carious lesions. ✓ Types of tooth wear; ✓ Dental anomalies, developmental and acquired; ✓ Partial edentulism; ✓ Total edentulism; ✓ Periodontal diseases: gingivitis, periodontitis. ✓ TMJ disorders: arthritis, arthrosis, dysfunctional syndrome; ✓ Occlusal disorders; ✓ Dental migration; ✓ Mucosal disorders of the oral cavity; ✓ Tongue disorders; ✓ Diagnosis: Component elements. |
| Chapter 3. General principles and methods of prosthetic treatment. Indications and contraindications to the prosthetic treatment of stomatognathic system disorders. | |
| <ul style="list-style-type: none"> To know the general principles of prosthetic treatment; To know and understand why the patient needs the pre- and pro - prosthetic treatment; To know general indications and contraindications to the prosthetic treatment of the stomatognathic system diseases; To know local indications and contraindications to the prosthetic treatment of the stomatognathic system diseases; To know the methods of prevention of nosocomial infections in preclinical endodontics. | <ul style="list-style-type: none"> ✓ General principles of prosthetic treatment ✓ Pre- and pro - prosthetic treatment ✓ Indications for prosthetic treatment ✓ Contraindications for prosthetic treatment |

VII. PROFESSIONAL (SPECIFIC (SC)) AND TRANSVERSAL (TC) COMPETENCES AND STUDY OUTCOME

Professional competencies (specific) (SC)



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SC1: To know the etiology, symptomatology, diagnosis and prosthetic treatment plan of the total edentulism;

SC2: To simulate the sequence of extraoral clinical examination of patients in dental prosthetic department. To realize the clinico-technical stages of fabrication the complete denture.

SC3: To know the diagnosis and treatment plan in various nozological forms;

SC4: Analysis of radiological clusters, evaluation and description of anatomical formations based on orthopantomograms. Study and analysis of diagnostic models of dental diseases in various clinical situations for prosthetic treatment;

SC5: Planning of prosthetic treatment in various clinical situations according to the general principles of prosthetic treatment (prophylactic, curative, biological, biomechanical, homeostatic and ergonomic).

SC6: Demonstration and application of knowledge in mobile prosthesis manufacturing technology.

Transverse competencies (TC)

TC1: Application of professional evaluation standards, professional ethics, and applicable legislation. Promoting logical reasoning, practical applicability, assessment and self-assessment in decision-making.

TC2: Performing activities and exercising the roles specific to team work within the endodontic cabinet / department. Promoting the spirit of initiative, dialogue, cooperation, positive attitude and respect for others, empathy, altruism and continuous improvement of their own activities;

TC3: Systematic assessment of competencies of personal role and expectations, application of self-evaluation of learned processes, acquired skills and professionalism needs, effective use of language skills, knowledge in information technologies, research and communication skills, adapting to the dynamics of policy requirements in health and for personal and professional development.

Study finalizations

At the end of the course, the student will be able to:

- To define total edentulism and the component parts of the totally edentulous prosthetic area;
- To know the classification of alveolar processes on the upper and lower jaw by various authors and the prosthetic area mucosa;
- To understand and describe the technological and clinical manufacturing steps of complete denture;
- To know the classification of nozological forms of stomatognathic system disorders;
- To know and understand the necessity of clinical and paraclinical examination for establishing the correct diagnosis;
- To know the particularities of the paraclinical examination (radiography, model study ,electroodontodiagnostics);
- To know and be able to diagnose dental prosthetics disorders;
- To know the general principles of prosthetic treatment;
- To know and understand why the patient need pre- and pro prosthetic treatment.
- To know general indications and contraindications of the prosthetic treatment in the stomatognathic system disorders;
- To know the local indications and contraindications of the prosthetic treatment in the stomatognathic system disorders.



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VIII. STUDENT'S SELF-TRAINING

| Nr. | Expected product | Implementation strategies | Assessment criteria | Implementation terms |
|-----|------------------------------------|---|--|----------------------|
| 1. | Working with informational sources | Reading the lecture or the material in the manual on the subject. Reflecting on the topic in the questions. Knowing and selecting additional information sources on the topic. Reading the text carefully and describe the essential content. Wording of generalizations and conclusions regarding the importance of the theme / subject. | The ability to extract the essentials. Interpretative skills. The ability to analyze and communicate the material accumulated on its own. | During the semester |
| 2. | Solving case problems | Solving case problems, with argumentation of conclusions at the end of each practical lessons. Verification of the finalities and appreciation of their achievement. Selection of additional information, using electronic addresses and additional bibliography. | The quality of solving problems of situation and clinical case, the ability to formulate and interpret clinical and paraclinical data. Ability to analyze selected information from national and international professional websites. | During the semester |
| 3. | Working with online materials | Online self-evaluation, study of online materials on the SITE Chair, expressing your own opinions through forum and chat | Number and duration of entry at the SITE , self-evaluation results | During the semester |



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IX. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-ASSESSMENT

- **Teaching and learning methods used**

In the teaching process of the discipline “Complete denture technology, semiology and nozological forms of the stomatognathic system” different teaching methods are used, oriented towards the efficient acquisition and achievement of the objectives of the didactic process. The course provides lectures, seminars, practical works and individual work. Courses are held in the third semester by the course owner (titular). The following forms of training are used in the practical work: frontal, individual activity, brainstorming sessions, group discussions, case studies in community pharmacies, case study. As a teaching aid, the specialized manuals are available in the university library, the methodological recommendations of the department's staff, tables, schemes, information sources in electronic format, national and international professional websites, etc. are available. Students receive individual assignments that are presented for group discussions, which subsequently assess the quality of individual work and practical skills. In order to acquire the didactic material and teambuilding, during the semester the students perform a mini-research in the field, the results of which are presented at the seminars and practical lessons organized in the last month of the semester.

Recommended *learning* methods are: *learning* theoretical *material* after lecture and manual; *observation* - identifying the characteristic features of doctor-patient communication; *analysis* - in the use of clinical and paraclinical examination methods of patients, as well as methods and stages of prevention, asepsis and antisepsis; *comparison* - analysis by comparison of the methods of collecting the anamnesis, of the paraclinical examination methods according to their advantages and disadvantages; *elaboration of the algorithm* - selection of the mandatory elements and elaboration of the patient consultation algorithm; *modeling* - identifying and selecting the elements necessary for modeling the situations when consulting patients, formulating the conclusions, argumentation and making the final decision.

- ✓ ***Applied teaching strategies / technologies (specific to the discipline)***

Face-to-face, individual, brainstorming, group discussion, clinical case analysis, teambuilding, clinical exam simulation, mini-research, comparative analysis.

- ✓ ***Methods of assessment (including the method of final mark calculation)***

Current: Current checks during seminars and practical lessons, 3 totals in writing and / or as test-control. For the individual work done during the semester, the student is evaluated, the grade being included in totals. At the end of the semester, based on the grades from the totals, the average annual score is calculated.

Final: The course ends with an exam. The final grade is calculated at the end of the discipline study - 50%; from test-control - 20% and oral interview - 30%. The average annual mark and the marks of all final stages of testing (test and oral answer) - are expressed in numbers according to the scoring scale (according to the table) and the final mark obtained is expressed in two decimal digits, to be entered in the notes book.



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Method of mark rounding at different assessment stages

| Intermediate marks scale (annual average, marks from the examination stages) | National Assessment System | ECTS Equivalent |
|--|----------------------------|-----------------|
| 1,00-3,00 | 2 | F |
| 3,01-4,99 | 4 | FX |
| 5,00 | 5 | E |
| 5,01-5,50 | 5,5 | |
| 5,51-6,00 | 6 | |
| 6,01-6,50 | 6,5 | D |
| 6,51-7,00 | 7 | |
| 7,01-7,50 | 7,5 | C |
| 7,51-8,00 | 8 | |
| 8,01-8,50 | 8,5 | B |
| 8,51-9,00 | 9 | |
| 9,01-9,50 | 9,5 | A |
| 9,51-10,0 | 10 | |

Note: Absence on examination without good reason is recorded as "absent" and is equivalent to 0 (zero). The student has the right to have two re-examinations.



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X. RECOMMENDED LITERATURE:

A. Mandatory:

1. Lecture materials
2. Duncan J. Wood, Tony Johnson. Techniques in Complete Denture Technology. 2012
3. Tony Johnson, Duncan J. Wood, Christopher W. Stokes, David G. Wildgoose. Basics of Dental Technology: A Step by Step Approach, 2010
4. Bratu, Dorin. Bazele clinice si tehnice ale protezarii edentatiei totale / D. Bratu, L. Ieremia, S. Uram-Tuculescu. - Timisoara : Editura Medicala, 2005
5. Ортопедическая Стоматология. Трезубое В. Н., Щербаков А. С., Мишнев Л. М. Санкт-Петербург ИКФ "ФОЛИАНТ" 2002, 576с.
6. Hutu E.și a. – Edentația totală. – București, 2000.
7. Postolachi I. și colab. Protetica Dentară. Chișinău, „Știința”1993
8. Bîrsa, Gh., Postolachi, I. Tehnici de confecționare a protezelor dentare. Chișinău 1994.

B. Suplimentary:

1. Constantiniuc, Mariana. Terapia protetică a edentației totale / Mariana Constantiniuc ; Universitatea de Medicină și Farmacie "Iuliu Hațieganu". - Cluj-Napoca : Editura Medicală Universitară "Iuliu Hațieganu", 2015
2. Gabriela Bereșescu, Alina Cămărășan, Simona Mucenic. Tehnologia protezelor dentare mobile. UMF Tîrgu Muriș. 2015.
3. Sabău Mariana, Nicolae Vasile, Smarandache Andrea, Dumitra Dana, Sas Albertina. Tratamentul edentației totale: clasic și modern. Sibiu 2009.