

## Faculty of Dentistry

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**Dean:** Prof. Tarek Lotfy Alkhateeb

**Vice Dean For Academic Affairs:** Dr. Abdulghani Ibrahim Mira

**Vice Dean For Clinical Affairs:** Dr. Fahad Hassan Banaser

**Vice Dean For Females Section:** Dr. Salma Ahmed Bahannan

### Faculty Council:

Tarek Lotfy Alkhateeb (Chairman), Abdulghani Ibrahim Mira, Fahad Hassan Banaser, Salma Ahmed Bahannan, Ahmed Shaea Jundos , Ali Habiballah Akbar, Abdullah Saeed Mushait.

### Faculty Contacts

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### History

Establishment of the Faculty of Dentistry was in 1985. The program started in 1988.

### Departments

The Faculty of Dentistry comprises four departments : Oral Basic and Clinical Sciences (OBCS), Oral & Maxillofacial Rehabilitation (OMR), Preventive Dental Sciences (PDS)and Conservative Dental Sciences (CDS)

### Academic Degrees

Bachelor of Dental Medicine and Surgery (B.D.S)

### Vision

The faculty is committed to the vision of becoming the best Dentistry institution in the nation, regionally recognized for innovation and leadership in Dentistry and its applications.

### Mission Statement

- To graduate dynamic males and female dentists high quality dental care in all dental specialties.
- To use preventive measures, apply managerial capable of delivering skills and optimally utilize auxiliary personnel in order to achieve high standards of dental health care.
- To demonstrate sensitivity and responsibility towards the social and cultural needs of the community and individual patients.
- To provide high quality dental treatment in all dental specialties including Implantology for Patients using advanced techniques in oral diagnosis and treatment.
- To provide high standard dental consultation for different governmental sectors.

### Total study units and credit hours for faculty curriculum

YEAR	UNITS		TOTAL CREDIT HOURS
	Lec.	Clinic./ Pract.	
FIRST YEAR	60	6	1080
SECOND YEAR	34	11	840
THIRD YEAR	39	14	1005
FOURTH YEAR	25	22	1035
FIFTH YEAR	19	27	1095
SIXTH YEAR	4	38	1200
<b>TOTAL</b>	181	118	6255
<b>Total credit hours</b>	2715	3540	6255

### Graduation Requirements

In order to qualify for a Bachelor of Dental Medicine and Surgery (B.D.S) degree, students must successfully complete University Requirements (14 study unit ) in addition to requirements from outside the faculty (122 Study unites) and all departmental requirements (163 study units).The faculty program is six years and one obligatory year for clinical practice (internship Program).

### Graduation Requirements

Requirement	UNITS			TOTAL STUDY UNITS
	Lec.	Practical	Clinical	
Faculty requirements	66	20	77	163
University Requirement	14	-	-	14
Requirements from outside	101	19	2	122
Total	181	39	79	299

### University Requirement:

University Requirement (14 study units):

NO.	CODE	COURSE TITLE	STUDY UNIT
101	ISLS	Islamic studies	2
201	ISLS	Islamic studies	2
301	ISLS	Islamic studies	2
401	ISLS	Islamic studies	2
101	ARAB	Arabic Language	3
201	ARAB	Arabic Language	3
TOTAL			14

### Requirements from outside the faculty :

(122 study units)

Code	COURSE TITLE	UNITS		
		Lec.	Prac	Clinc.
BIO 101 M	Medical Biology	10	2	-
CHE 101 M	Medical Chemistry	10	2	-
PHS 101 M	Medical Physics	10	2	-
ELC 101 M	English Language (1)	24	-	-
ELC 201 M	English Language (2)	8	-	-
ANTD 201 M	Gross Anatomy	4	4	-
HIED 201 M	Histology & Embryology	4	2	-
PHYD 201 M	Physiology	6	2	-
BCHD 201 M	Biochemistry	6	2	-
PATD 301 M	General & Systemic Pathology	6	2	-
MICD 301 M	Microbiology, Immunology & Parasitology	4	1	-
PHAD 301 M	Pharmacology	4	-	-
MEDD 401 M	General Medicine (including Dermatology & Venereology)	2	-	1
SURD 401 M	General Surgery (including ENT & Anesthesia)	2	-	1
CPHD 501 M	Pharmatherapeutics	1	-	-
Total		101	19	2
		122		

## Department of OBCS – Oral Basic and Clinical Sciences

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**Chairman:** Abdullah Saeed Mushait

### History

The Department was established in 1985.

The Department includes the following divisions: Oral Biology, Dental Anatomy & Oral Histology, Oral Pathology, Periodontics, Oral Diagnosis and Oral Radiology & Oral Medicine.

### Departmental Courses

Course No.	Course Title	Study unit		
		Lec.	Clinic.	Pract.
OBCS 223	Dental Anatomy & Occlusion	2	1	-
OBCS 334	Oral Pathology	4	2	-
OBCS 322	Oral Histology	4	1	-
OBCS 377	Oral Radiology	1	1	-
OBCS 468	Oral Diagnosis & Treatment Planning	1	-	1
OBCS 445	Periodontics	2	-	3
OBCS 545	Periodontics	2	-	3
OBCS 477	Oral Radiology	1	-	1
OBCS 411	Oral Biology & Nutrition	4	-	-
OBCS 556	Oral Medicine	2	-	2
	<b>Total</b>	<b>23</b>	<b>5</b>	<b>10</b>

## Department of OMR – Oral/Maxillofacial Rehabilitation

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**Chairman:** Ahmed Omar Shea Alyamani

### History

The Department was established in 1985.

The Department includes the following divisions: Oral Surgery, Removable Prosthodontics and Fixed Prosthodontics.

### Departmental Courses

Course No.	Course Title	Study unit		
		Lec.	Clinic.	Pract.
OMR 323	Preclinical Removable Prosthodontics	2	3	-
OMR 423	Removable Prosthodontics	2	-	3
OMR 523	Removable Prosthodontics	2	-	3
OMR 434	Fixed Prosthodontics	4	4	-
OMR 534	Fixed Prosthodontics	2	-	5
OMR 511	Oral Surgery	2	-	3
OMR 611	Oral Surgery	2	-	3

OMR 412	Pain Control & Anesthesia	1	-	1
<b>Total</b>		<b>17</b>	<b>7</b>	<b>18</b>

### Department of PDS – Preventive Dental Sciences

**Chairman:** Ali Habiballah Akbar

#### History

The Department was established in 1985.

The Department includes the following divisions: Pediatric Dentistry, Orthodontics and Community Dentistry.

#### Departmental Courses

Course No.	Course Title	Study unit		
		Lec.	Clinic.	Pract.
PDS 334	Biostatistics & Methods of Scientific Research	2	-	-
PDS 411	Pediatric Dentistry	1	1	-
PDS 511	Pediatric Dentistry	2	-	3
PDS 615	Comprehensive Pediatric Care	-	-	4
PDS 422	Orthodontics	1	1	-
PDS 522	Orthodontics	2	-	3
PDS 626	Comprehensive Orthodontic Care	-	-	4
PDS 633	Community Dental Practice	2	-	3
<b>Total</b>		<b>10</b>	<b>2</b>	<b>16</b>

### Department of CDS – Conservative Dental Sciences

**Chairman:** Abdulghani Ibrahim Mira

#### History

The Department was established in 1405H (1985G)

The Department includes the following divisions: Operative Dentistry, Endodontics and Biomaterials .

#### Departmental Courses

Course No.	Course Title	Study unit		
		Lec.	Clinic.	Pract.
CDS 311	Pre-clinical Operative Dentistry	4	4	-
CDS 411	Operative Dentistry	2	-	3
CDS 511	Operative Dentistry	2	-	3
CDS 333	Biomaterials	4	-	-
CDS 422	Preclinical Endodontics	2	2	-
CDS 522	Endodontics	2	-	3
<b>Total</b>		<b>16</b>	<b>6</b>	<b>9</b>

Course No.	Course Title	CREDIT HOURS		
		Lec.	Clinic.	Pract.
CCC 600	Adult & Geriatric Comprehensive Care Course	-	-	24
<b>Total (24) credit hours</b>		<b>-</b>	<b>-</b>	<b>24</b>

**Taught by the following three departments.**

- OBCS – Oral Basic and Clinical Sciences Department .
- OMR – Oral/Maxillofacial Rehabilitation Department .
- CDS – Conservative Dental Sciences Department .

**Courses Descriptions**

**BIO 101 M Medical Biology**

During the course, students learn the basic biological concepts relevant to the study of medicine. Develop skills in the following areas: microscopy, dissection and experimental techniques. Students learn to carry out correct laboratory procedures, record their observations, interpret data, and make conclusions about their work in their laboratory notebooks .

**CHE 101 M Medical Chemistry**

This course aims to help students to acquire knowledge and skills in Chemistry essential to the study of medical sciences, particularly biochemistry, physiology, pharmacology and clinical chemistry. The department aims also to introduce the students to the fundamentals of scientific habits and attitudes. On completion of this course, the student will understand the basic principles of chemistry necessary to pursue their medical studies and will be able to identify the chemical properties of classes of drugs, biochemicals and metabolites and understand basic chemical methods of analysis.

**PHS 101 M Medical Physics**

This course is part of the first year core curriculum. The course is aimed at students with minimal background in quantitative experimental work. measurement and ending with instrumentation used in subsequent courses providing experience in elementary maths, statistics and physics using examples relevant to medical studies.

**ELC 101 M English Language (1)**

The course provide skills necessary for the students to successfully follow their English-medium science curriculum initially with English Language Center support and ultimately with relative independence.

The course consists of intensive interrelated components (core studies, intensive reading, science activities and self-assessment, language teaching purpose in series of units called “Topics”).

**ELC 201 M English Language (2)**

The aim of each unit is the development of language and study skills in English in a scientific context.

Part 1. aim at bringing the students back up to the level.

Part 2. is based on a series of units in which the students research subjects related to their studies (e.g. the oral cavity)

**OBCS 223 M Dental Anatomy & Occlusion**

This course deals with anatomy and morphology of primary and permanent dentition as well as the sequence of tooth eruption and surface anatomy of the oral cavity. The course includes study of static occlusion and these factors concerned with the development and stability of masticatory system. Student will relate morphology to function and will exercise their technical abilities to develop skills needed for practice.

**ANTD 201 M Gross Anatomy**

Students shall develop anatomical concepts and acquire in-depth knowledge of the gross anatomy of the human body with emphasis on the head and neck and in particular those areas relevant to the practice of dentistry. The study of the thorax shall receive detailed coverage while abdomen shall be taught to the extent that is necessary for understanding the functioning of abdominal viscera.

**HIED 201 M Histology & Embryology**

**-Histology**

This course begins with a general discussion of histological techniques and basic principles of different fields of microscopy. This is followed by the study of cell structure as seen with the electron and light microscopes, and functions of its different components; it then goes on to the study of the histological structure of the four basic tissues of the body which is followed by study of organs/systems in a proper sequence.

**-Embryology**

This course deals with general embryology followed by detailed considerations of the development of the head and neck region with special emphasis on dental, oral and para-oral structures. A brief consideration of the development of skeletal, cardiovascular, respiratory, gastrointestinal, and central nervous systems will also be included. Attention shall be given to the correlation of gross anatomy with the study of embryology.

**PHYD 201 M Physiology**

The course will consider the functions of cells, tissues and organ systems. Particular emphasis shall be given to the integration of control mechanisms and correlation of normal function with clinical manifestation of disease. The course consists of lectures and practical classes on selected topics for reinforcement of theoretical knowledge.

**BCHD 201 M Biochemistry**

The objective of this course will be achieved by theoretical and practical consideration of the following:

Introduction of basic concepts, important biomolecules such as: lipids, proteins and carbohydrates; enzymes and coenzymes; DNA, RNA, molecules; metabolism; hormones; membrane components; blood constituents and clotting mechanisms; mineralization and trace elements; nutrition; inborn errors of metabolism; saliva and fluoride chemistry.

**PATD 301 M General & Systemic Pathology**

The first part of this course deals with basic principles of pathology including cell injury, inflammation and repair, fluid and hemodynamic disorders and neoplasia. The students are expected to acquire detailed knowledge of the patho-physiology of these processes as well as their morphologic manifestations.

The second component of this course will deal with common diseases of the various organ systems and specific types of infections. Gross and microscopic pathology of the various organ systems will be studied. Bacterial, viral, fungal and parasitic infections will also be studied. The course consists of lectures, and group discussions, microscopic study and examination of gross specimens.

**MICD 301 M Microbiology, Immunology & Parasitology**

The course content will include fundamental principles of genetics, growth, metabolism and death of microbes, host-parasite relations, immunologic phenomena, and the biologic and clinical manifestations induced by major pathogens. The microbiology of dental caries and periodontal disease will be considered in detail. Viral and fungal lesions of the mucosa will also be discussed.

**PHAD 301 M Pharmacology**

Aspects of pharmacology are presented with examples of drugs of clinical importance. The site and mechanism of action, pharmacological effects, uses and side-effects of different classes

of pharmacotherapeutics are addressed. The course contents consist of an introduction to general pharmacology, pharmacology of autonomic and central nervous systems, drugs acting on the cardio-vascular, respiratory, gastrointestinal, and renal systems. The course will also discuss different groups of the drugs such as coagulants and anti-coagulants, antimicrobial agents, sedatives, hypnotics, and drugs used in endocrine disorders and general anaesthetic agents. The mechanism of action and side effects of local anesthetics and nitrous oxide are discussed in details.

The course will also deal with pre- and post-operative medications with thorough consideration of different pain relieving drugs. The practical part of this course will include demonstrations of the biological effects of different drugs.

**OBCS 334 Oral Pathology**

Students should be able to identify, discuss and describe pathologic conditions of the soft and hard tissue of the oral cavity and related structures.

Each disease and disease category will be considered as to etiology, clinical, radiographic and histologic manifestations along with expected prognosis. The topics will include developmental and acquired abnormalities of the teeth and surrounding structures including salivary gland diseases, and malignancies. The course consist of lectures, problem-solving, group discussions, microscopic study and viewing of radiographs.

**OBCS 322 Oral Histology**

The course deals with histological, ultra structural and developmental aspects of hard and soft, oral and para-oral structures such as teeth, periodontium, salivary glands and oral mucosa. The composition of calcified tissues including enamel and dentine will be considered. The students shall correlate morphological structure with function.

**CDS 311 Pre-clinical Operative Dentistry**

The objective is to assist students in developing the manual skills required to perform basic technical procedures used in restorative dentistry, e.g. the principles of cavity preparation.

The course also familiarizes the students with instruments and materials used in various types of cavity preparation and with criteria and techniques for use of the dental materials employed in restoring teeth with amalgam, pin amalgam, composite resins, gold inlay and onlay.

**OBCS 377 Oral Radiology**

The objectives of this course are to introduce the common characteristics of x-radiation and to make students familiar with the types of x-ray machines and their components, radiation hazards and radiation safety measures. The objectives

also include introduction and training of students on the various intraoral, extraoral radiographic exposure procedures and recent specialized radiographic techniques as well as film, processing techniques.

**OMR 323 Preclinical Removable Prosthodontics**

Students will gain experience in the fabrication of maxillary and mandibular complete dentures. The clinical and laboratory procedures will be taught and their interdependence stressed.

**CDS 333 Biomaterials**

The dental student should be capable of selecting, manipulating and evaluating dental materials based on a scientific understanding of their structure and properties. Students will be able to recognize the limitations of dental materials and the reasons for their clinical failures. They will be able to work as in the dental laboratory using different materials.

**PDS 334 Biostatistics & Methods of Scientific Research**

The objective of this course is to teach students principles of biostatistics and its application in dentistry as well as research methodology and retrieval of medical data using electronic means such as bit net, gulf net and internet. The student will be able to conduct applied research projects in the field of dentistry.

**MEDD 401 M General Medicine (including Dermatology & Venereology)**

The contents of this course will cover the etiology, symptoms and signs of major disease processes, including skin and venereal disease, with a brief description of treatment. Students shall also become familiar with the use of laboratory tests and radiographic investigations and their interpretation. The course shall consist of lectures, clinical and rounds and demonstrations of essential procedures such as cardio pulmonary resuscitation (CPR) and intravenous infusion.

**SURD 401 M General Surgery (including ENT & Anesthesia)**

The course enables students to understand the clinical aspects of major diseases of the various systems of the body so as to relate the general medical conditions to oral disease and being familiar with the use of laboratory tests and radiographic investigations and their interpretation. The course also includes theoretical and practical aspects in the selection and use of different anesthetic agents and sedatives.

**OBCS 468 Oral Diagnosis & Treatment Planning**

This course prepares students for handling patients in the clinic, thorough history taking, clinical examination both extra and intra oral as general assessment of the patient conditions.

The primary course includes different laboratory investigations and their applications in the field of dentistry, together with handling of medically involved patients. The course also prepares students to formulate and rationalize a preliminary treatment planning for their patients.

**CDS 411 Operative Dentistry**

The procedures to be performed will include cavity and tooth preparation and proper selection of restorative material. The didactic part of the course will review diagnostic procedures, administration of local anesthetics, use of rubber dam, protection of the dental pulp, and techniques for restoring endodontically treated teeth.

**OBCS 445 Periodontics**

The course deals with a review of the histology, ultra-structure, biochemistry, physiology and morphology of the periodontium. The histopathological and radiographic changes in various classes of periodontal disease and their clinical correlation are presented.

Dental plaque, calculus, local irritants and systemic conditions as etiological factors in periodontal diseases are discussed. The course also includes an introduction to the basic principles of the immune system of the periodontium in health and its changes in various disease process. The students will also learn to examine, record and diagnose periodontal diseases, formulate treatment plans and proceed to learn the theory of various methods of treatment.

**OBCS 477 Oral Radiology**

The objectives of this course are to familiarize students with the requirements of an acceptable diagnostic radiograph, to study intraoral and extraoral normal radiographic anatomical landmark, photography in dental practice, as well as the interpretation of radiographic changes associated with various local systemic diseases.

**CDS 422 Preclinical Endodontics**

This course is designed to familiarize dental students with materials and instruments used in endodontics. The objective is to assist students in developing the manual skills required to perform basic technical procedures used in endodontics.

**OMR 423 Removable Prosthodontics**

In the first part Students will study the partial denture components, and principles of partial denture design. They will do all the necessary steps for construction of chromium-cobalt metallic framework as well as acrylic partial dentures.

In the second part Students will be taught how to manage and treat fully edentulous patients following standardized techniques.

#### **OMR 412 Pain Control & Anesthesia**

The course will provide a review of applied anatomy and it includes theoretical and practical aspects in the selection and use of different anesthetic agents and sedative. The lectures will be reinforced with demonstration and clinical training and the student should demonstrate skill in applying local anesthetic agents and sedative. The lectures will be reinforced with demonstration and clinical training and the student should demonstrate skill in applying local anesthesia for dental patients.

#### **OBCS 411 Oral Biology & Nutrition**

The course will correlate basic science information relevant to the clinical practice of dentistry. The disease processes that the dentist is diagnosing and treating will be discussed in terms of basic biological phenomena through case presentations and problem solving. Students will attend lectures on food and nutrition as applied to clinical dentistry in order to give appropriate dietary advice.

#### **OMR 434 Fixed Prosthodontics**

The objective is to assist students in developing the manual skills required to perform basic technical procedures used in fixed prosthodontics. The course includes study of masticatory system and occlusion and its relation to fixed prosthodontics.

#### **PDS 411 Pediatric Dentistry**

The course provides students with the opportunity to develop the skills necessary to provide treatment for children. Emphasis is placed on the development of manual dexterity, provision of ideal tooth preparation and restoration at reasonable time period.

#### **PDS 422 Orthodontics**

This course will enable students to recognize the importance of coordinating treatment timing as it coincides with facial, dental & somatic growth.

#### **OMR 511 Oral Surgery**

Students will practice diagnosis, extraction of teeth, removal of remaining roots, impacted teeth, epicoectomy and removal of cysts. The course will also provide a review of applied anatomy and different methods of pain control.

#### **CDS 522 Endodontics**

The course will have two main components.

- 1- Classroom lecture series, which correlate between clinical, and biological principles of endodontics.
- 2- Clinical experience to perform endodontic treatment for single and multicanaled teeth.

#### **OMR 523 Removable Prosthodontics**

Students will be able to complete all stages concerning various laboratory and clinical procedures. This is the first clinical course in removable partial dentures. Students will be taught how to manage and treat partially edentulous patients following standardized techniques.

#### **OMR 434 Fixed Prosthodontics**

The objective is to assist students in developing the manual skills required to perform basic technical procedures used in fixed prosthodontics. The course includes study of masticatory system and occlusion and its relation to fixed prosthodontics.

#### **PDC 511 Pediatric Dentistry**

Emphasis will be placed on the theory and practice of effective child management, preventive dental practices and maintenance of primary dentition in good health. Other objectives of this course include care for special patients beyond the age of adolescent, who demonstrate mental, physical or emotional problems

#### **CDS 511 Operative Dentistry**

Patients in need of restorative treatment will be assigned for diagnosis and development of a treatment plan will be discussed with the faculty. After approval of the plan, students will prepare the teeth for the proper restorations. Instructions on preventive procedures will be offered and a recall plan for follow up will be formulate by students. The didactic part of the course will deal with technical details acquired in Dental lab. 2. The syllabus will help to provide motivation for students to continue independent study and to participate in research.

#### **PDS 522 Orthodontics**

Concepts of diagnosis and treatment will be able to fabricate acceptable removable appliances and ultimately gain judgement knowledge and skill to treat uncomplicated orthodontic cases.

#### **OBCS 545 Periodontics**

The relationship between periodontal disease with other clinical disciplines of dentistry will be presented. Students will also be expected to learn more advanced aspects of the relationship between periodontal diseases and systemic conditions. The students should be aware of the objectives, indications and contraindications of the various surgical periodontal procedures.

The course shall depend on lectures and clinical experiences in the treatment of advanced non-complicated periodontal cases.

#### **OBCS 556 Oral Medicine**

Students shall acquire the clinical skills to differentiate between various types of oral

diseases and the ability to correlate radiographic and histopathological features with the clinical findings. Students shall also be able to relate oral disease to systemic conditions.

#### **CPHD 401 M Pharmacotherapeutics**

The students should acquire a firm understanding of the physiological and biochemical through which different drug acts so as to be able to select and use therapeutic agents effectively. Factors involved in the absorption, disposition of drugs, patients variables and drug interactions are addressed. Some of those drugs most relevant to the dentist are:

Antibiotics, hypnotics, sedatives, local and general anesthetics, hypertensive drugs, coagulants, anticoagulants. The route of administration, the side effects and the toxicities of these drugs will be reviewed.

#### **OMR 611 Oral Surgery**

Students will participate in diagnosis, observe and assist in treatment of facial bone fractures, preprosthetics surgery, orthognathic and tempromandibular joint surgery. Students will attend lectures and perform minor oral surgical procedures as well as attend major oral surgical operations.

#### **PDS 633 Community Dental Practice**

The course is designed to prepare students for the practice of dentistry by introducing the environment (population, dental practices, organizations and community agencies) in which they will fulfill their professional role. This will be accomplished by direct observation and participation during the field experiences. This course will allow the students to be able to identify and distinguish the unique features among the various publicly supported dental programs and to enable them to endeavor to make such programs efficient and successful in terms of improvement of dental health, betterment of the dental profession and representing dentistry in their community in matters of health needs and resources.

#### **PDS 611 Comprehensive Pediatric Care**

The objective of this course is to ascertain that each student in the final year of study has acquired the clinical judgement and technical knowledge and skills to deliver high quality general dental care to the children.

During this course, students will be expected to demonstrate these qualities and competences on a number of assigned children in need of a variety of dental services. The student will perform the diagnosis, prepare an acceptable treatment plan and carry out the plan to completion.

#### **PDS 622 Comprehensive Orthodontic Care**

Emphasis would be place on the orthodontic practices applicable to the general dental practices.

The course would also train the students on the values of dental/medical consultation, referral system as well as patient auditing and recall system.

The overall goal would be to train the student to be able to apply the principles of children's dentistry and orthodontics to a good standard in general practice and to have a sound foundation for continuing postgraduate education.

#### **CCCD 600 Adult & Geriatric Comprehensive Care**

Perform the diagnosis, prepare an acceptable treatment and carry out the plane to completion. Each student for review will present one or more completed cases by faculty and fellow students in-group discussions. The faculty who also evaluates the results to the comprehensive treatment must ascertain completion of the case. Recognize the importance of referral of patients and be able to with appropriate referral reports. Or rehabilitating the dentition promoting good hygiene habits. Providing nutritional counseling and instituting preventive measures . The student will provide these measures with the consideration to the physical and medical peculiarities of the geriatric patients

