CLD831 - Comprehensive Care Clinic

Comprehensive care is defined as the diagnosis, prevention and treatment needed to restore optimal oral health, function and appearance. The School's pre-doctoral students manage their patients comprehensively. This includes referral of their patients to the School's advanced education programs when indicated, while always maintaining oversight of the patient's overall care.

Clinic Courses Included in the Comprehensive Care Clinic Sequence

Early Fall Session: starting point for CLD831

Third Year (D3): CLD831, Fall Semester – 3.0 credit hours

Early Fall Session (D4 students) follows the Third Year (D3):

This clinical session enables students to provide continued patient care and to gain additional clinical experience. For D3 students who have satisfied all qualitative and quantitative requirements, the Early Fall Session marks the beginning of the Fourth Year. For D3 students who have not satisfied all qualitative and/or quantitative requirements, the Early Fall may provide an opportunity to make up performance deficiencies. If a student does not satisfy all qualitative and/or quantitative requirements of each discipline course they will be assigned an extended clinical session, dates to be determined by Group Director and Associate Dean for Clinical Affairs, to complete assigned requirements. If the student has not satisfied all qualitative and/or quantitative requirements after the extended session they will not be promoted to the D4 year.

The determination of whether a student repeats one or both semesters of D3 versus assignment of an extended clinical session will be made by the Executive Council based on the recommendation of the Student Progress and Promotions Committee.

Early Fall carries no credit hour designation. Clinical treatment that is completed during Early Fall sessions is credited to the students overall clinical requirements.

Fourth Year (D4):

CLD841, Fall Semester – 3.0 credit hours CLD842, Spring Semester – 3.0 credit hours

CLD835 - Treatment Planning & Cases I

The course will be based on team-based learning. The purpose of the course is to facilitate student learning through group activities focusing on evidence based literature, observing D4 case presentations and participating in class discussion. D3 students are divided into presentation groups. Each group will present an evidence-based published article one time during the academic year in either the Fall or Spring semester

ODS832 - Oral Radiology Clinic

Third-year students with faculty supervision, will provide bitewing, periapical, occlusal and full-mouth series of radiographs as per electronically written referral for new, reassigned, and emergency UB SDM predoc patients. The proper use of equipment, shielding, exposure settings, infection control, patient management, quality assurance, image processing, storage, and record documentation will be reinforced. Radiographic reviews will take place with the student as part of quality assurance and interpretation instruction. The radiology faculty review all rotation radiographs prior to storage in the patient electronic record.

Dr. DeLuca will present a case-based mini-seminar "Dental Anatomy and Radiographic Restorative Materials Identification" will augment the student's clinical experience and improve radiographic identification and interpretation.

Dr. Hinchy will present a panoramic review comparing anatomical structures on the skull and their appearance on the panoramic radiograph to assist in panoramic interpretation.

The charting of full-mouth series of radiographs imaged by rotation students and the one-to-one review with radiology faculty, will improve their understanding of technique, accuracy and parallelism, and procedures used to avoid and correct technical errors, while increasing their ability to discern normal anatomy, caries, restorations, periodontal disease, artifacts and pathology and provide opportunities for clinical and radiological discussions. Students will become more familiar with digital image enhancement tools including: contrast, inversion, colorization, edge-enhancement, magnification, measurements, descriptions, calibration, annotations, and diagnostic comparisons.

The student assigned to rotation will be responsible for cleaning and maintaining the clinic x-ray rooms, equipment and scanning stations. The referred student will arrive with an electronic "planned treatment" order for radiographs while their patient waits in the radiology waiting room. The referred student will sign into the paper Radiographic Log and complete all of the requested information. The Radiographic Log entry also serves as a list of patients in order of arrival. When an x-ray room, rotation student, and scanning station are available, the referred student will sign into axiUm and locate their patient.

The rotation student will image the patient. Each student assigned to the rotation, will serve as a Designated Digital Scanner to reinforce the skills required for digital radiographic processing including reserving MIPACS, selecting a template, reserving the scanner, scanning images, correcting mirrored and rotated images, remounting a series, describing a series, recording the exposure in the Series Description, saving to the DICOM server in MIPACS with faculty approval, access the patient (E.H.R.)Electronic Health Record and complete the radiographic note in axiUm. Radiology faculty will approve the Radiographic Note in axiUm via swipe card. The Radiology Faculty will change the "Planned Order" in axiUm by double clicking the "P" and mark the Radiographic Order as "Complete "changing it to a "C". The faculty who wrote the Radiographic order will swipe the completed order.

ODS836 - Oral Pathology II

This course in Diseases of the *Oral Mucosa* targets selected soft-tissue lesions of the mouth

ODS837 - Clinical Diagnosis I

This course tests the ability of 3rd year dental students to present a patient to a faculty member and demonstrate an appropriate comprehensive head and neck exam. Medical history, a review of the patients' medical problems, vital signs analysis, and head/ neck physical examination are performed while being reviewed by faculty. A grade is assigned, based on the thoroughness of the patient presentation and examination

OSU831 - Oral Surgery I

This required course in Oral and Maxillofacial Surgery follows coursework and pre-clinical courses in local anesthesia and normally occurs concomitantly with Oral and Maxillofacial Surgery clinical rotations. Didactic instruction will consist of lectures and suggested readings. It is the first in the two-semester sequence required of all third-year students. It precedes Oral and Maxillofacial Surgery OSU832 given in the Spring semester, which will consider patient evaluation in greater depth as well as complex oral and maxillofacial surgery. OSU831 will focus on basic principles and practices in dentoalveolar surgery with emphasis on pre-surgical evaluation, basic and surgical extractions, management of impacted teeth, biopsy principles and complications arising from dentoalveolar surgery.

OSU833 - Oral Surgery Clinic I

The students will function in the various clinical environments with responsibilities including performance of patient assessment and dentoalveolar surgery, assisting/observation of complex dentoalveolar surgery and observation of conscious sedation administration.

OSU837 - Oral Surgery Boot Camp

This required course sponsored by Oral & Maxillofacial Surgery Dept. follows coursework and preclinical courses in local anesthesia and precedes anesthesia and pain control (including modalities of sedation and anesthesia). Didactic instruction will consist of lectures, selected demonstrations and practical exercises and suggested readings. Course material to be covered will include: practicums in physical examination, patient presentation, relevant documentation, pharmacology immediately relevant to risk factors for dental treatment, local anesthesia, oral surgical armamentarium relevant to general dentists, suturing techniques and armamentarium, infection control, mock code and practical radiographic interpretation. All material lectured upon and practically applied during this week will be tested on the final day via a MEGACODE/CPE.

PDO831 - Pediatric Dentistry and Clinic I

This course is uniquely designed to incorporate a modular curriculum. A stepwise approach to learning will be utilized and includes didactic instruction through case-based lectures (CBL), followed by clinical simulation exercises (CSE) and culminating in direct patient care (DPC). Students will be introduced to the distinctive aspects of pediatric care in the dental environment. The physical, cognitive, emotional and social aspects of the pediatric population coupled with the epidemiology of oral disease at that age will be addressed.

Students will learn the fundamentals of the developing dentition, the essential techniques of pediatric dental procedures, as well as gain exposure to varying pathologies and anomalies that may occur in this population. Skills in the methods of basic and advanced behavior guidance will be developed. Students will also gain an understanding of the basic relationships in pediatric dentistry as reflected within the treatment triangle and the importance of child advocacy

PDO836 - Public Health Principles

The second-year lecture course in public health is designed to provide the pre-doctoral dental student with basic concepts in a broad range of topics related to the health of the general population.

PER831 - Non-Surgical Periodontal Therapy

This course focuses on the diagnosis and non-surgical treatment of different forms of periodontal disease. This course builds upon and assumes knowledge of the didactic and clinical material covered in the first two years of dental school including material in PER821 and PER822. PER831 consists of:

- 14 sessions
- 3 or more quizzes
- 1 midterm examination
- 1 final examination

This course is designed to complement clinical care provided by D3 students. The course starts with a review of periodontal examination and diagnosis at approximately the same time that students are performing oral examination and preparing problem lists for their patients. The major areas in non-surgical periodontal therapy are covered so that by the end of the semester, students are able to diagnose periodontal diseases, develop a treatment plan for the treatment of periodontal diseases, and are knowledgeable of non-surgical periodontal therapies.

PER833 - Periodontology Clinic I

This clinical course is designed to increase your knowledge and improve your technical expertise in the delivery of periodontal therapy and its role in maintaining oral health.

PER835 - Endodontics II

This course is the second phase of the Endodontic educational program of the Department of Periodontics and Endodontics. PER835 is designed to enhance the student's understanding of the biologic basis of endodontic disease, rationale for treatment modalities for routine, emergency, and advanced endodontic situations including retreatment and traumatic injuries, and to expose the student to adjunctive endodontic therapy.

PER835 is a 1.5 credit-hour course consisting of:

- 14 Lecture sessions
- Quizzes
- Lab Projects
- Midterm Examination
- Final Written Examination

PER836 - Endodontics Clinic I

This course is part of the combined third and fourth year integrated clinical program, specifically addressing the Endodontic needs of the patients of the School of Dental Medicine.

PMY831 - Principles of Pharmacology

Principles of Pharmacology presents information to help students gain thorough understanding of drugs essential to the practice of dentistry and to achieve a broad knowledge of common medications used by patients which may have oral side effects or that may influence the patient's dental treatment. In addition, the course presents survey information of drugs commonly used and affecting bodily systems.

PMY831 Part I will be delivered in the Early Fall semester live by distance learning using Zoom technology. Part I will present the principles of pharmacology and the pharmacology of common drugs used in dentistry. PMY831 Part II will present the pharmacology of drugs that dental patients may be taking and how these may affect dental therapy. Part II will also encompass specific drugs that affect the oral cavity as well as inclusion of the top approximate 100 prescribed drugs with which all health practitioners including dentists should be familiar.

RDN828 - Implant Dentistry I

This course will focus on aspects of Implant Restorative Dentistry and will be strictly a Laboratory course. Students will learn how to fabricate a radiographic guide, a surgical guide, how to make an impression from implants. Furthermore will learn how to fabricate a temporary crown over an implant, hot to make a fixture level impression, and work on implants-retained overdenture.

RDN831 - Implant Dentistry II

This course will focus on aspects of Implant Dentistry Surgery. Pharmacological information's related to premedication and post op medications will be provided. Flap design techniques, Osteotomy sites techniques will be presented and explained. Furthermore ridge augmentation and ridge preservation techniques will be explained and presented, together with soft tissue augmentation techniques. Bone augmentation procedures will be presented such as sinus lift augmentation procedures. The dental students will understand all steps needed to handle an implant patient, how to refer and what to ask to the surgeon. Implant Dentistry II consists of:

- 16 one-hour lecture sessions with required reading assignments
- 1 Midterm Examination
- 1 Final Examination

RDN833 - Fixed Prosthodontics I

RDN833 is a lecture series in the Fall semester of the Third Year of the DDS program. Material presented in this course will enhance and expand student understanding of the principles and procedures presented in RDN813[Preclinical Indirect Restorations]. Presentations provide clinically relevant and practical information that supports the students' clinical experience. The Fall Semester lecture series emphasizes general principles of fixed prosthodontics diagnosis, treatment planning and procedures.

RDN834 - Indirect Restorations Clinic I

The course entails those same clinical procedures which are initiated with:

a] review and recording of medical and dental history;
b] recognition and recording of individual's chief concern (complaint);
c]data gathering and recording during a clinical patient examination and radiographic survey;
d] followed by definition of a problem list with associated treatment options;
e] then definition of a patient specific plan of treatment.

This is followed by a series of treatment procedures that are attendant to fixed restorative dentistry, including:

(a)foundation restorations;
(b)tooth preparation, shade selection;
(c)tooth provisional stabilization;
(d)tissue displacement and tooth impression;
(e)laboratory preparation of working casts mounted on a semi adjustable articulator;
(f)completion of laboratory work authorization; and
(g)culminated with refinement and definitive placement of an indirectly fabricated restoration.

Included throughout this treatment sequence are an ongoing assessment of patient compliance and education in oral hygiene procedures and review of patient responsibilities once active treatment is complete. This approach to patient treatment is repeated with multiple patients across the third clinical year with a minimum of treatments required to satisfy the course criteria.

RDN835 - Cariology & Direct Restorations I

This Year 3 Fall semester (D3 Fall) lecture course will expand on caries management and direct restorative dentistry preparations and restorations that were taught during the first two years of the curriculum. Emphasis will be place on caries risk assessment for individualizing patient preventive and treatment planning. Minimally Invasive treatment and Evidence-Based care will be stressed.

RDN836 - Direct Restorations Clinic I

Operative Dentistry is the art and science of Dentistry which deals with the prevention and diagnosis of caries, its management based on risk assessment, the restoration of individual teeth to proper occlusal function and to a form which is in harmony with surrounding hard and soft tissues. This 3rd year patient-centered clinical experience in Operative Dentistry puts into practice what was learned in the 2nd year Operative Preclinical course series (RDN809/810) and 3rd year Operative didactic course (RDN835), and serves as the foundation for the comprehensive patient treatment of the 4th year.

RDN837 - Removable Prosth III

RDN837 “Removable Prosthodontics III” is an advanced and clinically oriented continuation of the pre-clinical lecture and technique courses (RDN824 andRDN826). It assumes knowledge from all the previous courses completed during the 1st and 2nd years of dental school.

RDN837 focuses on the diagnosis, treatment planning, and prosthetic rehabilitation of the edentulous state, while it reinforces and expands on the previously attained basic knowledge of the pre-doctoral student on removable rehabilitation. As students begin their entry-level clinical exposure to removable prosthodontics, they need didactic enhancement of the complicated technical aspects of their prosthodontic therapy while reinforcing basic knowledge.

By the end of this course, the student should have obtained a strong theoretical foundation for removable prosthodontics. In addition, it is the intent of this course to familiarize the student with certain aspects of prosthodontics that may or may not have a clinical component in the school curriculum but remains an area to which the student should have exposure.

RDN839 - Removable Prosth Clinic I

This course is part of the combined third-and fourth-year integrated clinical program. The overall goals, objectives and methods of evaluation are consistent with those of third-year Comprehensive Care Clinic courses CLD831-832.