DEPARTMENT OF DIAGNOSTIC SCIENCES

The Department of Diagnostic Sciences has three divisions: Oral Diagnosis, Oral Pathology, and Oral Radiology, all with their own director and teaching programs.

Oral Diagnosis combines teaching with patient screening, evaluation, and treatment planning for the College of Dentistry. In addition, they staff a limited care treatment clinic.

Oral Pathology ([https://dentistry.tamhsc.edu/diagnostic/training/oral-pathology.html](https://dentistry.tamhsc.edu/diagnostic/training/oral-pathology.html)) is responsible for the teaching of all general and oral pathology curriculum to first professional dental, dental hygiene, and graduate students. They provide consultation and biopsy services ([https://dentistry.tamhsc.edu/diagnostic/pathology-service.html](https://dentistry.tamhsc.edu/diagnostic/pathology-service.html)) to the College of Dentistry and the professional community. They offer a combined MS in Oral Biology and Certificate program in Oral and Maxillofacial Pathology.

Oral Radiology ([https://dentistry.tamhsc.edu/diagnostic/training/oral-radiology.html](https://dentistry.tamhsc.edu/diagnostic/training/oral-radiology.html)) is responsible for all imaging service throughout the College of Dentistry. Additionally, imaging services are provided to patients referred by extramural dental providers through the Imaging Center. They offer a Certificate program in Oral and Maxillofacial Radiology.

Faculty

Benson, Byron W, Professor
Diagnostic Sciences
MS, The University of Texas Health Science Center at San Antonio, 1986
DDS, The University of Iowa, 1975

Budinskaya, Oksana V, Clinical Associate Professor
Diagnostic Sciences
DDS, Omsk State Medical Institute Russia, 1990

Cheng, Yi Shing Lisa, Professor
Diagnostic Sciences
PHD, Baylor University, 1990
DDS, Kaohsiung Medical College, 1990

Clemetson, Jonathan C, Adjunct Associate Professor
Diagnostic Sciences
DDS, Baylor College of Dentistry, 2002

Fallis, Bruce D, Adjunct Professor
Diagnostic Sciences
MD, Washington University School of Medicine, 1952

Flint, Diane J, Associate Professor
Diagnostic Sciences
MS, The University of Texas Health Science Center at San Antonio, 2005
DDS, Baylor College of Dentistry, 1986

Gonzalez, Janet P, Adjunct Assistant Professor
Diagnostic Sciences
DDS, Texas A&M Baylor College of Dentistry, 1991

Hennessy, Bernard J, Clinical Associate Professor
Diagnostic Sciences
DDS, University of Illinois at Urbana-Champaign, 1986

Kofford, Kelly R, Clinical Associate Professor
Diagnostic Sciences
DDS, Creighton University, 1978

Liang, Hui, Professor
Diagnostic Sciences
PHD, Beijing Medical University, 1992
DDS, Beijing Medical University, 1988

Murchison, David F, Adjunct Professor
Diagnostic Sciences
DDS, Baylor College of Dentistry, 1980

Naidu, Aparna G, Clinical Associate Professor
Diagnostic Sciences
MS, Texas A&M University System Health Sciences Center, 2006
DDS, Northwestern University Evanston, 2001

Osinde, Eliphas A, Adjunct Assistant Professor
Diagnostic Sciences
DDS, Texas A&M University College of Dentistry, 2015

Payne, Michael B, Clinical Assistant Professor
Diagnostic Sciences
DDS, Baylor College of Dentistry, 1981

Pugalagiri, Pavithra, Adjunct Assistant Professor
Diagnostic Sciences
DDS, Tamil Nadu Dr. M.G.R. Medical University, 2006

Puttaiah, Raghunath, Professor
Diagnostic Sciences
MPH, The University of Alabama at Birmingham, 1990
DDS, University of Mysore, India, 1984

Wright, John M, Professor
Diagnostic Sciences
MS, Indiana University, 1977
DDS, West Virginia University, 1973

Certificates

• Oral and Maxillofacial Pathology Certificate ([http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/dentistry/diagnostic-sciences/oral-maxillofacial-pathology-certificate](http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/dentistry/diagnostic-sciences/oral-maxillofacial-pathology-certificate))


Courses

OMFP 600 Current Issues in Oral and Maxillofacial Pathology I
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar discussion of current and past literature in oral and maxillofacial pathology.

OMFP 601 Current Issues in Oral and Maxillofacial Pathology II
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar discussion of current and past literature in oral and maxillofacial pathology.
OMFP 602 Current Issues in Oral and Maxillofacial Pathology III
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar discussion of current and past literature in oral and maxillofacial pathology.

OMFP 603 Oral and Maxillofacial Pathology Seminar I
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 604 Oral and Maxillofacial Pathology Seminar II
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 605 Oral and Maxillofacial Pathology Seminar III
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 606 Oral and Maxillofacial Pathology Seminar IV
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 607 Oral and Maxillofacial Pathology Seminar V
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 608 Oral and Maxillofacial Pathology Seminar VI
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 609 Oral and Maxillofacial Pathology Seminar VII
Credits 0 to 10. 0 to 10 Lecture Hours.
Seminar format on surgical anatomic pathology. The student interacts daily with faculty, utilizing multiheaded teaching microscopes, to discuss all pathology cases accessioned daily. These are supplemented with more diagnostically challenging cases. All aspects of the diseases and conditions are discussed as well as current and historical literature.

OMFP 610 Anatomic Pathology and Autopsy - Baylor University Medical Center I
Credits 0 to 10. 0 to 10 Other Hours.
Baylor University Medical Center rotation in Department of Pathology. Anatomic pathology, clinical pathology, autopsy service, cytology, selected electives.

OMFP 611 Anatomic Pathology and Autopsy - Baylor University Medical Center II
Credits 0 to 10. 0 to 10 Other Hours.
Baylor University Medical Center rotation in Department of Pathology. Anatomic pathology, clinical pathology, autopsy service, cytology, selected electives.

OMFP 612 Oral and Maxillofacial Pathology Service I
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 613 Oral and Maxillofacial Pathology Service II
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 614 Oral and Maxillofacial Pathology Service III
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 615 Oral and Maxillofacial Pathology Service IV
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 616 Oral and Maxillofacial Pathology Service V
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 617 Oral and Maxillofacial Pathology Service VI
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 618 Oral and Maxillofacial Pathology Service VII
Credits 0. 0 Lab Hours. 0 Other Hours.
Independent study in surgical anatomic oral and maxillofacial pathology. Gross tissue preparation, microscopic analysis of routine surgical head and neck biopsies, special study sets and microscopic description.

OMFP 619 Advanced Oral Pathology
Credits 0 to 10. 0 to 10 Other Hours.
Disease of the head and neck; developmental malformations, oral signs of systemic diseases, salivary gland disorders; neoplasms of odontogenic and nonodontogenic origin. Three semester hours credit plus 1 additional hour for optional laboratory.
OMFP 620 Advanced Oral Pathology Laboratory
Credits 0 to 10. 0 to 10 Lab Hours.
Elective laboratory that complements OMFP 619; designed for post-graduate students that might need to view and interpret biopsy results; histologic correlation for the clinical pathologic lesions discussed in OMFP 619; basic interpretation skills of histopathologic sections as viewed under the microscope.

OMFP 689 Special Topics In...
Credits 0 to 4. 0 to 4 Other Hours.
Selected topics in an identified area of oral and maxillofacial pathology. May be repeated for credit.

OMFP 691 Research
Credits 0 to 10. 0 to 10 Other Hours.
Research for thesis or dissertation.

OMFR 600 Radiation Physics and Biology for Radiology Residents I
Credits 0. 0 Lecture Hours.
Non-credit. This course will provide instruction in radiation physics, advanced imaging technology, radiobiology, and radiation safety. The student/resident will develop the skills necessary to understand the scientific basis of imaging systems and successfully challenge the certification examination of the American Board of Oral and Maxillofacial Radiology. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 601 Radiation Physics and Biology for Radiology Residents II
Credits 0. 0 Lecture Hours.
Non-credit. This course will provide instruction in radiation physics, advanced imaging technology, radiobiology, and radiation safety. The student/resident will develop the skills necessary to understand the scientific basis of imaging systems and successfully challenge the certification examination of the American Board of Oral and Maxillofacial Radiology. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 602 Radiation Physics and Biology for Radiology Residents III
Credits 0. 0 Lecture Hours.
Non-credit. This course will provide instruction in radiation physics, advanced imaging technology, radiobiology, and radiation safety. The student/resident will develop the skills necessary to understand the scientific basis of imaging systems and successfully challenge the certification examination of the American Board of Oral and Maxillofacial Radiology. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 603 Radiation Physics and Biology for Radiology Residents IV
Credits 0. 0 Lecture Hours.
Non-credit. This course will provide instruction in radiation physics, advanced imaging technology, radiobiology, and radiation safety. The student/resident will develop the skills necessary to understand the scientific basis of imaging systems and successfully challenge the certification examination of the American Board of Oral and Maxillofacial Radiology. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 604 Case Conference I
Credits 0. 0 Other Hours.
Non-credit. Case presentations of complicated clinical cases encountered while on clinical radiology services which require advanced skills by students/residents and graduate faculty in a prescribed format. Participants will review the literature, present selected imaging studies, and discuss salient points relative to the diagnosis and management of specific diagnostic entities. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 605 Case Conference II
Credits 0. 0 Other Hours.
Non-credit. Case presentations of complicated clinical cases encountered while on clinical radiology services which require advanced skills by students/residents and graduate faculty in a prescribed format. Participants will review the literature, present selected imaging studies, and discuss salient points relative to the diagnosis and management of specific diagnostic entities. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 606 Case Conference III
Credits 0. 0 Other Hours.
Non-credit. Case presentations of complicated clinical cases encountered while on clinical radiology services which require advanced skills by students/residents and graduate faculty in a prescribed format. Participants will review the literature, present selected imaging studies, and discuss salient points relative to the diagnosis and management of specific diagnostic entities. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 607 Case Conference IV
Credits 0. 0 Other Hours.
Non-credit. Case presentations of complicated clinical cases encountered while on clinical radiology services which require advanced skills by students/residents and graduate faculty in a prescribed format. Participants will review the literature, present selected imaging studies, and discuss salient points relative to the diagnosis and management of specific diagnostic entities. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 608 Case Conference V
Credits 0. 0 Other Hours.
Non-credit. Case presentations of complicated clinical cases encountered while on clinical radiology services which require advanced skills by students/residents and graduate faculty in a prescribed format. Participants will review the literature, present selected imaging studies, and discuss salient points relative to the diagnosis and management of specific diagnostic entities. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 609 Advanced Radiology Interpretation in Oral and Maxillofacial Radiology
Credits 2. 2 Lecture Hours.
Advanced interpretation of oral and maxillofacial radiology imaging studies. Topics include recognition of normal anatomy and its variants, diseases, conditions, abnormalities as they appear on imaging studies of different modalities. Skills in differential diagnosis based on interpretive findings will be developed along with assessing the clinical significant of findings.

OMFR 610 Advanced Imaging Technology in Oral and Maxillofacial Radiology
Credits 1 to 2. 1 to 2 Lab Hours.
Acquisition techniques using ionizing radiation, nonionizing radiation and other imaging modalities; plain radiography image projects, panoramic radiology, cone beam computed tomography and multi-detector computed tomography; magnetic resonance imaging, nuclear medicine/molecular imaging and ultrasonography.

OMFR 611 Advanced Oral and Maxillofacial Radiology
Credit 1. 1 Lecture Hour.
Advanced review of medico-legal aspects of radiology; advanced interpretation principles, comparison and selection of digital imaging systems, advanced imaging techniques and radiation risk.
OMFR 612 Clinical Teaching I  
Credits 0. 0 Other Hours.  
Non-credit. Students/residents give clinical instruction in contact with second-, third- and fourth-year dental students. Four hours per week per semester of clinical instruction, including technical/acquisition, interpretation of imaging studies, and clinical significance of findings. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 613 Clinical Teaching II  
Credits 0. 0 Other Hours.  
Non-credit. Students/residents give clinical instruction in contact with second-, third- and fourth-year dental students. Four hours per week per semester of clinical instruction, including technical/acquisition, interpretation of imaging studies, and clinical significance of findings. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 614 Clinical Teaching III  
Credits 0. 0 Other Hours.  
Non-credit. Students/residents give clinical instruction in contact with second-, third- and fourth-year dental students. Four hours per week per semester of clinical instruction, including technical/acquisition, interpretation of imaging studies, and clinical significance of findings. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 615 Clinical Teaching IV  
Credits 0. 0 Other Hours.  
Non-credit. Students/residents give clinical instruction in contact with second-, third- and fourth-year dental students. Four hours per week per semester of clinical instruction, including technical/acquisition, interpretation of imaging studies, and clinical significance of findings. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 616 Literature Review Journal Club I  
Credits 0.5-1. 0.5-1 Other Hours.  
5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 617 Literature Review Journal Club II  
Credits 0.5-1. 0.5-1 Other Hours.  
5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance.

OMFR 618 Literature Review Journal Club III  
Credits 0.5-1. 0.5-1 Other Hours.  
5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance.

OMFR 619 Literature Review Journal Club IV  
Credits 0.5-1. 0.5-1 Other Hours.  
5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance.

OMFR 620 Literature Review Journal Club V  
Credits 0.5-1. 0.5-1 Other Hours.  
5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance.

OMFR 621 Literature Review Journal Club VI  
Credits 0.5-1. 0.5-1 Other Hours.  
Literature Review Journal Club IV. 5-1. Detailed review of significant literature on all subjects related to oral and maxillofacial radiology. Critical evaluation of the scientific literature will be stressed. Students are assigned recent or classical articles from selected journals for critical review for scientific merit and relevance.

OMFR 622 Clinical Oral and Maxillofacial Radiology Service I  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 623 Clinical Oral and Maxillofacial Radiology Service II  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 624 Clinical Oral and Maxillofacial Radiology Service III  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 625 Clinical Oral and Maxillofacial Radiology Service IV  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients.

OMFR 626 Clinical Oral and Maxillofacial Radiology Service V  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients.
OMFR 627 Clinical Oral and Maxillofacial Radiology Service VI  
Credits 2 to 6. 2 to 6 Other Hours.  
This course will prepare the student/resident for the clinical practice of oral and maxillofacial radiology. The student/resident will develop the skills necessary to order, acquire, and interpret diagnostic imaging studies. This will include the formulation and dictation of interpretation reports and interactions with other health care professionals and patients.

OMFR 628 Medical Clinical Radiology Service I  
Credits 1 to 4. 1 to 4 Other Hours.  
This clinical course will familiarize the student/resident with the imaging modalities used in contemporary medical radiology and their application to diseases of the head and neck. The course includes specialty level modality selection, study acquisition, and interpretation. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 629 Medical Clinical Radiology Service II  
Credits 1 to 4. 1 to 4 Other Hours.  
This clinical course will familiarize the student/resident with the imaging modalities used in contemporary medical radiology and their application to diseases of the head and neck. The course includes specialty level modality selection, study acquisition, and interpretation. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 630 Medical Clinical Radiology Service III  
Credits 1 to 4. 1 to 4 Other Hours.  
This clinical course will familiarize the student/resident with the imaging modalities used in contemporary medical radiology and their application to diseases of the head and neck. The course includes specialty level modality selection, study acquisition, and interpretation. Must be taken on a satisfactory/unsatisfactory basis.

OMFR 689 Special Topics In...  
Credits 0 to 4. 0 to 4 Other Hours.  
Selected topics in an identified area of oral and maxillofacial radiology. May be repeated for credit.

OMFR 691 Research  
Credits 0 to 10. 0 to 10 Other Hours.  
Research for thesis or dissertation.