



REGIONAL MEETING

Anatomy & Osteopathic Medicine

**An Integrated Approach to
Structure & Function**

AMERICAN
ASSOCIATION FOR
ANATOMY

October 7, 2023

**University of the Incarnate Word
San Antonio, TX**

SCHEDULE

7:30 am

BADGE PICK-UP

Location: Building 2 Foyer

7:30 am – 8:30 am

CONTINENTAL BREAKFAST

Location: Building 2 Foyer & Dining Hall

8:45 am – 9:00 am

WELCOME & OPENING REMARKS

Location: Interactive Learning Studio, Building 2
Earlanda Williams, PhD, UIW School of Osteopathic Medicine

SESSION 1:

9:00 am - 11:00 am

PLENARY PRESENTATIONS

Location: Interactive Learning Studio, Building 2
Moderators: Earlanda Williams, PhD and Omid Rahimi, PhD

9:00 am - 9:30 am

Respect, Diversity & Inclusion in Anatomy Curricula: A Student Perspective

Haley Nation, PhD, UT Health San Antonio

9:30 am - 10:00 am

Osteopathic Treatment of TMJ Dysfunction

Anastasia Abbott, OMS 3, UIW School of Osteopathic Medicine
Abigail Garcia, OMS 3, UIW School of Osteopathic Medicine

10:00 am – 10:30 am

Continuum Distortions of the Knee Joint: A Cadaveric Study

Matt Booth, DPT, Fascial Distortion Model Academy

10:30 am – 11:00 am

“Is it Anatomy or Is It Art?”

Ron Philo, PhD, Retired Anatomist

11:00 am – 11:30 am

Coffee Break

SESSION 2:

11:30 am - 1:00 pm

CONCURRENT PROCEEDINGS: ANATOMY EDUCATION & INTEGRATION

Location: Interactive Learning Studio, Building 2
Moderators: Irina Nizamutdinova, MD, PhD & Carol Browne, DO

- 11:30 am - 11:45 am **Reflections on the Anatomical Gift**
Linda Solis, PhD, UIW School of Osteopathic Medicine
- 11:45 am - 12:00 pm **Integration of Ultrasound into Anatomy Education**
Rekha Kar, PhD, UT Health San Antonio
- 12:00 pm – 12:15 pm **The Integration of Structure and Function: How to Incorporate Anatomy and Physiology Using Ultrasound and Biopacs**
Jessica Bradley, PhD, UIW School of Osteopathic Medicine
- 12:15 pm – 12:30 pm **Challenges of Integrating Pathology and Anatomy**
Douglas Warden, MD, UIW School of Osteopathic Medicine
- 12:30 pm – 12:45 pm **Oral Presentation Award: Anatomical Variation of the Suprascapular Artery Origin: A Cadaveric Study**
Lila Huston, University of the Incarnate Word School of Osteopathic Medicine
- 12:45 pm – 1:00 pm **Oral Presentation Award: Anomalous Left Vertebral Artery off the Aortic Arch in Cadaver with Extensive Vascular Complications: A Case Report**
Kaylah Perez, Tillman J. Fertitta Family College of Medicine
- 11:30 am - 1:00 pm **CONCURRENT PROCEEDINGS: INNOVATIONS IN ANATOMY TEACHING**
Location: Room A3230, Building 2
Moderators: Lora Watts, PhD & Arun Bhattacharya, PhD
- 11:30 am - 11:45 am **Socrates and Supraspinatus: Teaching Shoulder Anatomy in a New Age with an Old Approach**
Roberto Fajardo, PhD, UIW School of Osteopathic Medicine
- 11:45 am- 12:00 pm **Median and Ulnar Nerves: Mixed Messages?**
Denise Norton, MD, UT Health San Antonio
Margaret Norton, PT, PhD
- 12:00 pm – 12:15 pm **A 3-D Printed Larynx Model for Surgical Resident Training**
Erin Kraus, OMS 2, UIW School of Osteopathic Medicine
- 12:15 pm – 12:30 pm **Using Active Learning to Teach Anatomy in a Problem-Based Curriculum**
Debra Kaliski, PhD, UIW School of Physical Therapy
Mona Bains, PhD
- 12:30 pm – 12:45 pm **3D Printed Models: From Students to Patients**
Ramaswamy Sharma, PhD, UT Health San Antonio
Arunabh Bhattacharya, PhD, UIW School of Osteopathic Medicine
- 12:45 pm – 1:00 pm **Oral Presentation Award: A Unique Aortic Arch Branching Structure and Potential Dysfunction**
Kevin Reilly, Arkansas Colleges of Health Education

SESSION 3:

- 1:00 pm - 3:00 pm **LUNCH & POSTER SESSION**
Location: Dining Hall & Foyer, Building 2

Poster #	Title and First Author
1	Cross-Sectional Neuroanatomy for Medical Education: Addressing and Overcoming Limitations Anastasia Abbott, UIWSOM
2	A Literature Review on Teaching Medical Students to Utilize Point-of-Care Ultrasound (POCUS) for Atherosclerosis Identification Omar Ajlouni, Kansas College of Osteopathic Medicine
3	The Clinical Anatomy Summer Program (CASP) 2013 – 2019 at Stanford University: An introduction to medical school for high school students Miguel Angeles, Stanford University
4	Student Perceptions of OMS-2 Teaching Assistant Effectiveness in Osteopathic Manipulative Medicine Training Courses Lisa Brambert, Kansas College of Osteopathic Medicine
5	A Review of the Utilization of Digitally Enhanced Auscultation vs Traditional Auscultation in Undergraduate Medical Education Rachel Boots, Kansas College of Osteopathic Medicine
6	Benefits Toward a Flipped Classroom Design for Active Learning Neuroanatomy Blood Supply in Medical School Samhitha Boyapalli, M.S., KHSC Kansas College of Osteopathic Medicine
7	Incorporating Complete Anatomy and Visible Human Dissector Models into Lecture Slides to Enhance Lectures and Create Interactive Study Tools for Students Shannon Curran, Eastern Virginia Medical School
8	Aberrant proper hepatic artery originating from the superior mesenteric artery Racha Cherradi, Texas A&M Health Science Center School of Medicine
9	The Osteopathic philosophy & its role in the self-selection of anatomy teaching assistants: a thematic analysis Jennifer Dennis, Kansas City University
10	Prevalence of patent foramen ovale in adult cadaveric hearts Lauren Franklin, Texas A&M University School of Medicine
11	Hemiplegic Circumduction Gait Mechanics and the Impact of Ankle Foot Orthoses: An Artistic Visual Analysis Abigail Joy Garcia, University of the Incarnate Word School of Osteopathic Medicine
12	Morphometric study of meniscofemoral ligaments - A Pilot study Trayce Gray, University of Houston Tilman J. Fertitta College of Medicine
13	First- and Second-Year Osteopathic Medical Students' Perspectives on Practicing OMT in PGY and Future Clinical Years Tanya Gupta, Kansas College of Osteopathic Medicine

- 14 **Birth defect trends within Texas Public Health Region 11, 2000-2019: an analysis of Texas Department of State Health Services public data**
Jonathan Hebert, University of Texas Rio Grande Valley School of Medicine
- 15 **Adult intestinal malrotation with additional anatomical variations: a case report**
Caleb Hnatek, Texas A&M University
- 16 **Why Words Matter: Exploring the Importance of Inclusive Language in Anatomical Medical Education**
Cara Hofrichter, Kansas College of Osteopathic Medicine
- 17 **Differences in Point-of-Care Ultrasound (POCUS) Education in Medical School and Residency Training**
Ryan Ivey, Kansas College of Osteopathic Medicine
- 18 **Can separate be equal: Challenges & opportunities of teaching a concurrent anatomy course to students on different campuses**
Rekha Kar, UT Health San Antonio
- 19 **Case Study: Anatomical Anomaly of Accessory Right Hepatic Artery from Superior Mesenteric Artery**
Maha Kirmani, Texas A&M School of Medicine
- 20 **Change in Neuroanatomy Laboratory Delivery Method Does No Harm**
Stephanie Klinessmith, Touro College of Osteopathic Medicine
- 21 **Cadaveric investigation of posterior interventricular artery variation and review of clinical implications**
Colton Lane, Midwestern University
- 22 **Twisting Our Way to Neuroanatomy Mastery**
Tiffany Lui, Kansas College of Osteopathic Medicine
- 23 **Building a Web-Based Interactive Brainstem Atlas**
Emily Minner, Texas A&M School of Engineering Medicine
- 24 **Evaluating Implementation for Non-Invasive Point-of-Care Respiratory Infectious Disease Detection in the Clinical Setting**
Asma Mirza, MSc-GH, Steradian Technologies, Inc.
- 25 **Enhancing Medical Education: Exploring the Benefits of Escape Rooms in Non-Cadaveric Anatomy Labs Using the Mock Code Model**
Jessica Mitchell, Kansas College of Osteopathic Medicine

- 26 The Effectiveness of the Different Teaching Modalities for Detection of Heart Murmurs in Undergraduate Medical Education: A Review**
Alvin Nagi, Kansas Health Science Center - Kansas College of Osteopathic Medicine
- 27 Reviewing the Barriers to Implementing Point-of-Care Ultrasound in Undergraduate Medical Education**
Sharad Nair, Kansas College of Osteopathic Medicine
- 28 Novel Finding: Hyo-mandibular Ligament - A Case Series**
Meghan Neill, University of Texas Health Science Center At San Antonio
- 29 Common Hepatic Artery arising from Superior Mesenteric Artery instead of Celiac Trunk**
Karimeh Ortiz, University of the Incarnate Word School of Osteopathic Medicine
- 30 Supra-Concentrate of Autologous Human Bone Marrow Stem Cells for Clinical Use and for the Expansion of Autogenous VSEL Cells in Co-cultures**
Hugo Pedrozo, Texas State University
- 31 Anatomical Variations of Nasal Cavity and Paranasal Sinuses on Computerized Tomographic Imaging**
Maryam Faiz Qureshi, Western University of Health Sciences
- 32 A Low-Fidelity 3D Model for Teaching Knee Ligament Anatomy and Biomechanics: Engaging Health Professions Students in Active Learning**
Bryan Richie, Burnett School Of Medicine
- 33 The dominance of dorsal scapular artery as the blood supply to muscles of the back in the absence of two primary vessels: a cadaveric case report**
Janay Rocha, University of the Incarnate Word School of Osteopathic Medicine
- 34 Superficial course of the palmar branch of radial artery in the hand: a rare cadaveric finding**
Olivia Ross, University of Incarnate Word School of Osteopathic Medicine
- 35 Preliminary Analysis of Variation in Gonadal Artery Observed in Cadaveric Specimens**
Kianna Ruble, Midwestern University
- 36 Education of High School Students in the Human Cadaver Lab**
Marsha Rutland, Hardin-Simmons University
- 37 Interactive Learning and Peer Collaboration: Exploring the Use of SECTRA Tables for Peer Review and Formative Assessment Using Cross-sectional and 3D Anatomy**
Adil Sayeed, Kansas College of Osteopathic Medicine
- 38 Game-Based Learning in Spinal Cord Syndromes**
Kelsey Schmittling, Kansas College of Osteopathic Medicine

- 39 **Osteopathic Medical Student Experiences with Diagnosing Somatic Dysfunction Using Red-Reflex in Different Skin Tones**
Prarthna Shah, Kansas Health Science Center- Kansas College of Osteopathic Medicine
- 40 **Pinning Down Neuroanatomy Knowledge with Gamification**
Saumya Sharman, Kansas Health Science Center College of Osteopathic Medicine
- 41 **Teaching Anatomical Relationships of the Upper and Lower Limbs: Using VH Dissector to Compare Cross-Sectional Anatomy to CT and MRI Images**
George Shunnarah, M.S., Kansas College of Osteopathic Medicine
- 42 **Examining Bladder Innervation and Its Clinical Application to Ureteral Reimplantation Surgery**
Leyla Spennato, Western University
- 43 **A Unique Bifurcation of the Sartorius Muscle: A Cadaver Study**
Nicholas Tchekryguin, University of Houston
- 44 **Faculty Perceptions of OMS-2 Teaching Assistant Effectiveness in Osteopathic Manipulative Medicine Training Courses**
Marcela Treviño, Kansas College of Osteopathic Medicine
- 45 **Analysis of High Bifurcation of the Radial Artery, a Cadaveric Study**
Christopher Veltkamp, Midwestern University
- 46 **The State of Human Skeletal Remains at U.S. Medical Schools**
Sabrina Woods, Indiana University
- 47 **Demonstrating Equity, Diversity, and Inclusion through Adaptions in Neurological Disorder Assessment**
Gloria Yahui Xie, Kansas Health Science Center- Kansas College of Osteopathic Medicine
- 48 **Deep Learning-Based Model for Anatomy-Specific Classification**
Yasir Eltahir, Almaarefa University Riyad KSA
- 49 **Glucose Ameliorates the Morphological and Cellular changes Associated with Maternal Deprivation in the Brain of Wistar Rats**
Judith Alawa, University of Abuja, FCT, Nigeria
- 50 **A Comparison of Femoral Cortical Bone Thickness and Medullary Canal Width in Caucasian and Asian Populations**
Najam Siddiqi, College of Medicine and Health Sciences, National University of Science and Technology
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SESSION 4:

3:00 pm - 5:00 pm

CONCURRENT WORKSHOPS

NOTE: Each workshop will occur in a different location. Workshops are interactive and will run for the full time period. Workshops will not be repeated.

The Role of Fascia in Osteopathic Manipulation

Location: Clinical Skills Lab (CSL), Building 2

Todd Capistrant, DO, Fascial Distortion Model Academy

Scott Leggoe, DO, UIW School of Osteopathic Medicine

Anastasia Abbott, OMS 3

Abigail Garcia, OMS 3

Simulated Experiences in an Integrated Osteopathic Curriculum

Location: Simulation Suite, Building 2

Robert Allen, DO, UIW School of Osteopathic Medicine

Robert Slater, MD

Ultrasound as a Diagnostic Tool for Pre-Clinical Medical Students

Location: Room 3130 and 3131, Building 2

Jessica Bradley, PhD, UIW School of Osteopathic Medicine

Adam Ratner, MD

Margaret Norton, PT, PhD

Yolanda Rangel, PhD

The Whole Art of Medicine Lies in Observation

Location: Room A3230, Building 2

Carlos Machado, MD, Medical Illustrator

SESSION 5:

5:00 pm - 5:30 pm

NETWORKING

Location: Dining Hall, Building 2

5:30 pm - 6:30 pm

AWARDS & CLOSING RECEPTION

Award presentations will be held in the Interactive Learning Studio in Building 2 at 5:30pm, followed by the closing reception in the Dining Hall.

Session Presenters: Earlanda Williams, PhD and Irina Nizamutdinova, MD, PhD