



**University of the Pacific Arthur A. Dugoni School of Dentistry**  
**125th Alumni Association Annual Meeting – 2024 Alumni Weekend**  
Including The 38th Frederick T. West Orthodontics Lectureship and  
The Inaugural Alan H. Gluskin Endodontics Symposium



**Jesse W. Manton, '14 DDS, MS, CHSE**

Friday, February 9, 2024

1:30 pm – 4:30 pm – 3 CE units

Location: The Fairmont Hotel

**Subject Area:** Medical Emergencies, Anesthesiology

**Title:** "Back To The Future: A Simulation-Based Review of CardioPulmonary Physiology for Every Dental Practitioner"

**Course Description:**

This unique program brings an innovative simulation-based medical education (SBME) blended learning experience, translated from the medical school simulation lab to the beautiful halls of the Fairmont Hotel. Through this dynamic program, you will be immersed in a scenario where you are faced with an acutely unwell patient in your dental practice who requires the application of essential monitoring equipment to diagnose the nature of the medical emergency so you can determine how best to manage the situation.

Just when the rapid deterioration of a patient makes time seem to fly by, Dr. Manton will slow things down and take you on a captivating stroll through a real life-threatening emergency using his innovative SBME blended learning approach. This is a Master Class on patient monitoring. Get ready to understand exactly what those vital signs are really telling you about the physiology inside your patient, as Dr. Manton uses human patient simulators, audience participation, and dynamic presentation technology to bring CardioPulmonary medicine, to life.

**Objectives:**

- 1) Recognize the signs and symptoms of a patient who needs urgent or emergent care.
- 2) Describe the biomedical science foundations for basic patient monitors.
- 3) Explain the proper use of basic monitoring equipment: Pulse Oximeters, Manual and Automated Blood Pressure Systems, Blood Glucometers, and Electrocardiograms.
- 4) Describe physical examination skills that are important to the dental practitioner.
- 5) Compare the pros and cons of changing patient positioning.
- 6) Compare the pros and cons of supplemental oxygen therapy during various medical emergencies.
- 7) Describe recent guideline updates for emergent patient management in the pre-hospital setting by the American Heart Association's.
- 8) Understand common contraindications to nitrous oxide/oxygen administration.
- 9) Review local anesthetic drug nomenclature and dosing principles.
- 10) Review evidence-based management of several common medical urgencies and emergencies.

**Short Bio:**

Dr. Jesse West Manton is a native Californian. He completed his D.D.S. at University of the Pacific Dugoni School of Dentistry (UOP) in 2014, followed by a General Practice Residency at VA Palo Alto Health Care System and Stanford Medical Centers. He then completed the Advanced Clinical Simulations Fellowship through the Anesthesiology Departments at University of California and VA San Francisco Medical Centers and subsequently gained designation as a Certified Healthcare Simulation Education (CHSE) with the Society for Simulation in Healthcare.

Dr. Manton completed the Dental/Maxillofacial Anesthesiology residency at The Ohio State University Wexner Medical Center in Columbus, OH in 2019. After residency, he held a dual appointment as an attending faculty anesthesiologist for the OSU Wexner Medical Center and College of Dentistry. He is a board-certified diplomate of the American Dental Board of Anesthesiology. He is a certified instructor with the American Heart Association for the Advanced Cardiac Life Support program.

He currently works at his alma mater, Pacific Dugoni, where he currently holds the title of assistant professor and is the inaugural Chief of the Division of Anesthesiology & Perioperative Care, part of the Department of Oral & Maxillofacial Surgery. He is the founder and Director of the Dugoni Medical Emergency Response Team program and its teaching internship program for the dental students, overseeing management and disposition of all patients who become acutely unwell in the dental school. Dr. Manton developed and now runs the OMS SurgiCenter at the dental school where he maintains a widely scoped clinical practice providing general anesthesia and perioperative care services to pediatric and adult dental patients of the Dugoni School.