



Soman Sen, M.D., M.A.S., M.S.

Philosophy of Care

Dr. Sen believes that the treatment and care of burn injured patients needs a team approach. He believes that all aspects of care, nursing, physical therapy, nutrition, respiratory care, social service need to be integrated with the medical care to provide the best treatment. This care also involves incorporating the patient and their loved ones in both the treatment and recovery from burn injuries. He believes this team approach will result in returning burn injured patients to a productive and meaningful life.

Clinical Interests

Dr. Sen is a surgeon who specializes in the care and treatment of patients with severe burn injury. He is involved with all aspects of care for burn injured patients including critical care management in the ICU, acute treatment and surgery for burn injuries, burn injury reconstruction, and follow up care.

Research/Academic Interests

Dr. Sen's research has focused on the clinical outcomes of patients who have suffered a burn injury. He has throughout my career incorporated his observations as a clinician into his research questions in order to advance the care and improve outcomes for burn injured patients. During his time as a physician and researcher he obtained a master's degree in clinical research (NIH K30) to help him design and implement clinical trials to improve the care and treatment of burn patients. This coupled with his experience as a member and committee Vice Chair of the UC Davis Institutional Review Board has provided great insight into developing clinical trials. His overall goal for my research is develop optimal care guidelines and strategies that not only improve the survival of burn patients but also improve their quality of life.

Title Professor, Department of Surgery

Specialty Surgery, Surgery - Burn, Surgical Critical Care

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Division Burn Surgery

Center/Program Affiliation [Burn Center](#)

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Education	M.D., Chicago Medical School/Rosalind Franklin School of Medicine, Chicago IL 2000 M.S., Chicago Medical School/Rosalind Franklin School of Medicine, Chicago IL 1997 M.S., UC Davis, Sacramento CA 2014 B.S., UC Irvine, Irvine CA 1996
Internships	Surgery, Loyola University Medical Center, Maywood IL 2000-2001
Residency	Surgery, Loyola University Medical Center, Maywood IL 2000-2007
Fellowships	Surgery/NIH Trauma Research Training, Loyola University Medical Center, Maywood IL 2002-2004 Surgery/Burn Surgery, UC Davis, Sacramento CA 2007-2008 Surgery/Surgical Critical Care, UC Davis, Sacramento CA 2008-2009
Board Certifications	Advanced Burn Life Support Advanced Trauma Life Support American Board of Surgery American Board of Surgery - Surgical Critical Care California State Board of Radiology, Fluoroscopy Medical Board of California, Physician and Surgeon License
Professional Memberships	American Burn Association American College of Surgeons
Honors and Awards	Administrative Chief Resident Department of Surgery, Loyola University Medical Center, 2007 Finalist Chicago Committee of Trauma, American College of Surgeons Scientific Symposium, 2004 Innovations in Leadership, Loyola University Medical Center, 2003
Select Recent Publications	Sen S, Barsun A, Romanowski K, Palmieri T, Greenhalgh D. Neuropathy May Be an Independent Risk Factor for Amputation After Lower-Extremity Burn in Adults With Diabetes. Clin Diabetes. 2019 Oct;37(4):352-356. doi:10.2337/cd18-0066. PMID:31660008. Sen S, Hsei L, Tran N, Romanowski K, Palmieri T, Greenhalgh D, Cho K. Early clinical complete blood count changes in severe burn injuries. Burns. 2019 Feb;45(1):97-102. doi:10.1016/j.burns.2018.09.004. Epub 2018 Sep 29. PMID:30274810. Lin J, Falwell S, Greenhalgh D, Palmieri T, Sen S. High-Dose Ascorbic Acid for Burn Shock Resuscitation May Not Improve Outcomes. J Burn Care Res. 2018 Aug 17;39(5):708-712. doi:



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Romanowski K, Curtis E, Barsun A, Palmieri T, Greenhalgh D, Sen S. The frailty tipping point: Determining which patients are targets for intervention in a burn population. *Burns*. 2019 Aug;45(5):1051-1056. doi:10.1016/j.burns.2018.11.003. Epub 2019 May 10. PMID:31079960.



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Curtis E, Romanowski K, Sen S, Hill A, Cocanour C. Frailty score on admission predicts mortality and discharge disposition in elderly trauma patients over the age of 65 y. J Surg Res. 2018 Oct;230:13-19. doi:10.1016/j.jss.2018.04.017. Epub 2018 May 12. PMID:30100028.

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