

NEAL K. SIKKA, MD

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QUALIFICATION SUMMARY

Leader in telemedicine, mobile health, & technology enabled health care, specifically EMR integration, user adoption, clinical utility, value perceptions. Creative emergency physician with over fifteen years of academic clinical practice. Adept at applying unique EP world view to complex problems, team building and outside the box thinking. Highly effective as a leader, developer of partnerships and supporter of an organizations goals and objectives. Equipped with outstanding presentation, leadership, problem-solving, marketing, analytical and communication skills.

EXPERIENCE

The George Washington University Medical Center, Washington, DC

Associate Professor & Attending Physician in Emergency Medicine

June 2003- present

The George Washington University Hospital and GW Medical Faculty Associates, Washington, DC

- Leading team of emergency providers to ensure high quality and efficient delivery of medical care
- Managing multiple complex patients while maintaining commitment to resident and student education
- Maintaining excellent working relationships with emergency department leadership, hospital administration, consulting physicians and referring physicians
- Conducting clinical research focusing on access, technology, telemedicine, and mobile applications

Internal Leadership activities:

MFA (practice group)

- Physician Manager ED Information System
- Member, Board of Trustees
- Co-Chair, Clinical Integration Committee
- Access Committee

GWU

- Strategic Planning Committee
- Fiscal Planning & Budgeting Committee
- Course Director novel graduate and undergraduate courses

- Multidisciplinary mHealth Collaborative, Lead
- Virtual Reality in Healthcare Institute, founding faculty

GWU Hospital

- Peer Review Committee
- Hospital Quality Council

External Leadership activities:

- Health Advisory Board, Panasonic Solutions Company
- INADEV mobile application company
- Advisory Board member, Mid-Atlantic Telemedicine Resource Center
- Chair - ACEP Telemedicine Section
- Guest Editor mHealth Supplement Journal Health Communications
- Educational Committee, American Telemedicine Association

Director, Innovative Practice and Telehealth Section, Department of Emergency Medicine Jan 2008-present

- Directing day to day operations and strategic vision of non-traditional medical services programs to include: telemedicine, onsite services, staffing services, transport services, defibrillator services, and consulting
- Designed, developed and overseeing operations of 24/7 communication center to support all business lines
- Developing and implementing quality and process improvement initiatives for internal and external stakeholders
- Managing 12 employees and budget of over \$2.0 million
- Fellowship Director, Telemedicine and Digital Health
- Medical Director : US Department of State Teleconsult Program, Nationwide Automated External Defibrillator Programs, International medical staffing programs (commercial and DOD subs), DC EMS agency, GW OnSite House Call Program
- Research Investigator – mobile health applications, telehealth in dialysis patients, telemedicine with FQHCs, specialty Teleconsults, emergency telemedicine services.

Chief Medical Officer and Founder – SonoStik, LLC

Sept 2013- present

- Lead medical research and development for novel difficult IV access PIV guidewire introducer
- Completed product testing and application preparation for FDA 510K process
- Awarded 1st Place GW Business Plan Competition 2013, 2nd Place GW Elevator Pitch Competition

Chief Medical Officer – 22otters, Inc. (40% FTE)**July 2013-June 2016**

- Lead physician for digital health startup leveraging voice for mobile patient engagement and coaching
- Provided CEO clinical insights on product development and business development
- Conducted needs assessments, content customization and implementations with physician practices and hospitals
- Developed clinical pathways with subject matter experts for acute and chronic disease management

EDUCATION

Residency in Emergency Medicine The George Washington University Medical Center, Washington, D.C.	2000-2003
Internship in Internal Medicine Barnes-Jewish Hospital, Washington University School of Medicine in St. Louis, MO	1999-2000
Medical Degree Washington University School of Medicine in St. Louis, MO	1995- 1999
Bachelors' of Science, Biochemistry, <i>Magna cum Laude</i> University of Illinois at Urbana-Champaign, IL	1992-1995

AWARDS AND CERTIFICATIONS

- DHCF Grant Building capacity for telehealth in Wards 7 and 8 (\$50K)
- CareFirst Foundation Telemedicine Grants (\$410K)
- Health Care Innovation Award, Center for Medicare and Medicaid Innovation (\$1.9M)
- Innovation and Product Development Program, Clinical and Translation Science Institute and Sheikh Zayed Institute for Pediatric Surgical Innovation
- Mobilizing for Health Grant, McKesson Foundation (\$250K)
- Mentor Development Program, Clinical & Translational Science Institute at Children's National
- Fellow, American College of Emergency Physicians
- Board Certified and Diplomate, American Board of Emergency Medicine
- R.R. Hannas Award for Excellence in Emergency Medicine
- Ciba-Geigy Community Service Award
- Merck Award

CURRENT MEDICAL LICENSURE

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|----------------------------|-------------------------------|
| • District of Columbia | • State of Maryland (expired) |
| • Commonwealth of Virginia | • State of Alaska |

RELEVANT PUBLICATIONS (PEER REVIEWED)

Magnus M, Edwards E, Dright A, Gilliam L, Brown A, Levy M, **Sikka N**, Siegel M, Criss V, Watson CC, Machtinger E, Kuo I. A Feasibility Study of a Telehealth Intervention on Health Care Service Utilization among Transgender Women of Color in Washington, DC. *ACI Open* 2018; 02(01): e1-e9

Bhatt K, Pourmand A, **Sikka N**. Targeted Applications of Unmanned Aerial Vehicles (Drones) in Telemedicine. *Telem J E Health*. 2018 Feb 28. doi: 10.1089/tmj.2017.0289. PMID: 29489441

Jacob MS, Kulie P, Benedict C, Ordoobadi AJ, **Sikka N**, Steinmetz E, McCarthy ML. Use of a midstream clean catch mobile application did not lower urine contamination rates in an ED. *Am J Emerg Med*. 2018 Jan;36(1):61-65. doi: 10.1016/j.ajem.2017.07.016. PMID: 28711277

Pourmand A, Davis S, Lee D, Barber S, **Sikka N**. Emerging Utility of Virtual Reality as Multidisciplinary Tool in Clinical Medicine. *Games Health J*. 2017 Oct;6(5):263-270. doi: 10.1089/g4h.2017.0046. PMID: 28759254

Rosner MH, Lew S, Conway P, Ehrlich J, Jarrin R, Patel UD, Rheuban K, Robey RB, **Sikka N**, Wallace E, Brophy P, Sloand J. Perspectives from the Kidney Health Initiative on Advancing Technologies to Facilitate Remote Monitoring of Patient Self-Care in Renal Replacement Therapy. *Clinical Journal of the American Society of Nephrology*. 2017 Jul 14 (epub ahead of print).

Lew SQ, **Sikka N**, Thompson C, Cherian T, Magnus M. Adoption of Telehealth: Remote Biometric Monitoring Among Peritoneal Dialysis Patients in the United States. *Perit Dial Int*. 2017 Sep-Oct;37(5):576-578. doi: 10.3747/pdi.2016.00272. PMID: 28931699

Magnus M, **Sikka N**, Cherian T, Lew SQ. Satisfaction and Improvements in Peritoneal Dialysis Outcomes Associated with Telehealth. *Applied Clinical Informatics*. Vol. 8; Issue 1, 2017 Mar 1;8(1):214-225.

Lee A, **Sikka N**, O'Connell F, Dyer A, Boniface K, Betz J. Telepsychiatric assessment of a mariner expressing suicidal ideation. *Int Maritime Health*. Vol 66, No 1 (2015).

Sikka N, Pirri M, Carlin K, Strauss R, Rahimi F, Pines J. The Use of Mobile Phone Cameras in Guiding Treatment Decisions for Laceration Care. *Telemed J E-Health*. Col 18 (7); September 2012; 554-557.

Sikka N, Carlin K, Pines J, Pirri M, Strauss R. The Use of Mobile Phones for Acute Wound Care: Attitudes and Opinions of Emergency Department Patients. *J Health Commun*. 17:37-43, 2012

(INVITED)

Quinn, R and **Sikka, N**. Can Patient Stories be Therapeutic? *The Wharton Healthcare Quarterly*. January 2015. <http://www.whartonhealthcare.org/article.html?aid=1960>

Sikka, N. Choudhri, T. and Jarrin, R. The George Washington University Emergency Medicine Telemedicine and Digital Health Fellowship. *Virtual Mentor*. 2014; 16:976-980.

Sikka, N. Security and Privacy : Clinical Case Studies. 2011 *Developing Cyber Security Synergy*. Cyber Security Policy and Research Institute at The George Washington University. 2011.

Reynolds, N, Zubrow, M, Alcorta, R, and **Sikka, N**. Chapter: Adult Emergency and Critical Care Telehealth. *Understanding Telehealth (2017)*; Editors Karen Rheuban and Elizabeth Krupinski

Shafer, K and **Sikka, N** Chapter 26 Telemedicine Fellowship. *EMRA Fellowship Guide – Opportunities for Emergency Physicians 2016*; Editor in Chief Krystle Shafer, MD

Redha, W. Kartwick, K, and **Sikka, N**. Chapter: Mobile Health in Emergency Care. Pp837-850. *Encyclopedia of Mobile Phone Behavior*, edited by Zheng Yan 2015.

Sikka, N. Chapter: User-Generated Images in Health Care. *The Thought Leaders Project : E-Health, Telemedicine, Connected Health - The Next Wave of Medicine*; edited by Brian Bierbaum, 2012.

HOBBIES

traveling, cooking, basketball, reading

REFERENCES, OTHER PUBLICATIONS AND PRESENTATIONS

Available Upon Request