April W. Armstrong, MD is a board-certified, academic dermatologist with expertise in clinical and outcomes research. She is an Assistant Professor of Dermatology, Co-Director of the Dermatology Clinical Research Unit, and Director of Teledermatology at University of California Davis.

Dr. Armstrong graduated high honors with Bachelor of Arts degrees in Biochemistry and Communication from Lewis & Clark College in Portland, Oregon. She obtained her M.D. degree from Harvard Medical School, where she was also awarded the Doris Duke Charitable Foundation Clinical Research Fellowship to study tumor-infiltrating lymphocytes in melanoma. After medical school, she served as an intern in internal medicine at Harvard's Massachusetts General Hospital. Dr. Armstrong completed her dermatology residency at the Harvard Dermatology Residency Program. During residency, Dr. Armstrong also completed a Clinical Research Fellowship and the Clinical Effectiveness Program at the Harvard School of Public Health. She was twice the recipient of the American Telemedicine Association Teledermatology Resident Research Award, a national award for innovative research in health technology.

Dr. Armstrong is the recipient of a federal K08 Career Development Award from the Agency for Healthcare Research and Quality (AHRQ). Dr. Armstrong was also selected to receive the Dermatology Foundation Career Development Award in Healthcare Policy as well as the Mentored Career Development Award from the Clinical and Translational Science Center at University of California Davis.

Dr. Armstrong was a founding editor for a major pharmacology textbook, *Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy*. For the past decade, she has been an associate editor for all editions of the textbook and authored many chapters. This medical textbook has become a leading pharmacology textbook among U.S. medical schools and has been translated into 5 different languages.

Dr. Armstrong provides real-time, videoconference-based teledermatology consultations as well as store-and-forward consultations to 31 rural sites in California. By October 2009, she has performed over 1500 real-time teledermatology consultations to patients in Massachusetts and California. Dr. Armstrong is active in the Teledermatology Special Interest Group of the American Telemedicine Association and Telemedicine Task Force of the American Academy of Dermatology.

RESEARCH FOCUS

Dr. Armstrong is committed to health outcomes research. She is interested in examining ways by which new therapies and healthcare models improve patients' disease states, quality of life, and their access to medical care. She conducts rigorous clinical studies that test new, technology-enabled models of healthcare delivery aimed at increasing patient access to specialty care. Dr. Armstrong has led multiple investigator-initiated studies that use health information technology to improve outcomes in dermatology patients. She examined whether interactive teledermatology was an economically viable means of providing dermatological care to medically underserved patients in remote areas. Dr. Armstrong was among the first investigators that examined strategies to improve patient adherence to therapy in dermatology.

Dr. Armstrong's clinical interest in dermatology lies in general dermatology. She conducts clinical studies on common skin conditions, such as skin cancer, psoriasis, and atopic dermatitis, with an emphasis on investigating effective and safe uses of systemic therapies.

SELECTED PUBLICATIONS

Gatto C, Wang AX (Armstrong AW), Kaplan JH. The M4M5 cytoplasmic loop of the Na,K-ATPase, overexpressed in E. Coli, binds nucleoside triphospate with the same selectivity as the intact native protein. Journal of Biological Chemistry, 1998; 273: 10578-10585.

Armstrong AW, Setyadi HG, Liu V, Strasswimmer J. Follicular eruption on arms and legs. Phrynoderma. Arch Dermatol. 2008 Nov;144(11):1509-14.

Armstrong AW, Baden HP. Folliculitis. British Medical Journal Point-of-Care 2008, British Medical Journal, 2008, at www.pointofcare.bmj.com.

Armstrong AW, Dorer D, Lugn N, Kvedar JC. Economic evaluation of interactive teledermatology compared with conventional care. Telemedicine and e-Health, 2007; 13(2): 91-99.

Armstrong AW, Idriss SZ, Kimball AB, Bernhard JD. Fate of manuscripts declined by the Journal of the American Academy of Dermatology. J Am Acad Dermatol. 2008 Apr;58(4):632-5.

Armstrong AW, Idriss N, Bergman H. Physician Workforce for Acne Care in the United States 2003 through 2005, Archives of Dermatology. 2009 Oct; 145(10):1195.

Armstrong AW, Watson AJ, Kazanis M, Frangos JE, Kimball AB, Kvedar JC. Text-Message Reminders Improve Sunscreen Use: A Randomized, Controlled Trial Using Electronic Monitoring. Archives of Dermatology. 2009 Nov;145 (11):1230-1236.

Armstrong AW, Sanders C, Farbstein A, Wu G, Lin SW, Liu FT, Nesbitt TS. Evaluation and Comparison of Store-and-Forward Teledermatology Applications, Telemedicine and e-Health, *in press*.

Idriss N, Alikhan MA, Baba K, Armstrong AW. Online, video-based patient education improves melanoma awareness: A randomized controlled trial. Telemedicine and e-Health, in press.

Idriss SZ, Armstrong AW, Kvedar JC, Lio PA. Digital imaging in dermatology: attitudes, behaviors, and innovations. Skin Research and Technology. 2009:15 (3): pp 376-377.

Armstrong AW, Liu V, Mihm MC. Pathologic characteristics of malignant melanoma, Part I. In: UpToDate, Rose BD (Ed), UpToDate, Wellesley, MA 2003-2009.

Armstrong AW, Liu V, Mihm MC. Pathologic characteristics of malignant melanoma, Part II. In: UpToDate, Rose BD (Ed), UpToDate, Wellesley, MA 2003-2009.

Books

Golan DE, Tashjian AH, Armstrong EJ, Galanter JM, Armstrong AW, Arnaout RA, Rose HS. Eds. *Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy, 1st Edition*. Lippincott Williams & Wilkins, Baltimore, MD, 2005.

Golan DE, Tashjian AH, Armstrong EJ, Armstrong AW. Eds. *Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy, 2nd Edition*. Lippincott Williams & Wilkins, Baltimore, MD, 2008.