

Journal of Surgical Education

formerly *Current Surgery*

Contents January/February 2019

PERSPECTIVES

Mentoring Sideways—A Model of Resident-to-Resident Research Mentorship 1
Alexander S. Chiu, MD, Kevin Y. Pei, MD, and Raymond A. Jean, MD

Power of Judgment: The Significance of Kant's Philosophy for the Medical System Today 4
T.F. Weigel, E. Hanisch, A. Hanisch, A. Buia, L.P. Müller, J. Messias, and C. Hessler

Global Health in the 21st Century: Equity in Surgical Training Partnerships 9
Jennifer Rickard, MD, MPH, Faustin Ntirenganya, MD, Georges Ntakiyiruta, MD, and Kathryn Chu, MD, MPH, FACS

ORIGINAL REPORTS

Resident Education

Nontechnical Skills in Surgery: A Systematic Review of Current Training Modalities 14
Esther Ounounou, BSc (Hons), Abdullatif Aydin, BSc (Hons), MBBS, Oliver Brunckhorst, BSc (Hons), MBBS, M. Shamim Khan, OBE, FRCS Urol, FEBU, Prokar Dasgupta, MSc, MD, FRCS Urol, FEBU, and Kamran Ahmed, PhD, FRCS Urol

Quantitative Analysis of Surgical Residency Reform: Using Case-Logs to Evaluate Resident Experience 25
Sarah B. Cairo, MD, MPH, Wendy Craig, PhD, Caitlin Gutheil, MS, Paul K.J. Han, MD, MA, MPH, Kristiina Hyrkas, PhD, Lynda Macken, PhD, and James F. Whiting, MD

Computerized Residency Interview Scheduling: A Randomized Controlled Trial of Categorical General Surgery Applicants 36
Heather E. Hoops, MD, Karen J. Brasel, MD, MPH, FACS, Caroline Q. Stephens, BA, Erin M. Anderson, BA, Liane LeBlanc, BS, and Sanjay Krishnaswami, MD, FACS

Value of Dedicated Research Time for IMGs in Obtaining Surgical Residency Training Positions: A 10-Year Review of Applicants from a Medical College in Pakistan 43
Mohammad Raheel Jajja, MBBS, Marvi Tariq, MBBS, Salila Shoaib Hashmi, MBBS, Thomas F. Dodson, MD, FACS, and Rashida Ahmed, MBBS, MHPE, FCPS

Identifying and Addressing High Priority Issues in General Surgery Training and Education 50
Jonathan Fryer, MD, Mary Schuller, MS, Greg Wnuk, MHSA, Shari Meyerson, MD, Joseph Zwischenberger, MD, Andreas Meier, MD, Reed Williams, PhD, and Brian George, MD

Time Out of General Surgery Specialty Training in the UK: A National Database Study 55
Elizabeth J. Elsey, MBChB, Joe West, PhD, Gareth Griffiths, MD, and David J. Humes, PhD

Going Beyond the Numerical Scoresheet: Identifying Maladaptive Narcissistic Traits in Residency Applicants 65
Nada Gawad, MD, MAEd, Andrea Marie Ibrahim, MSc, Melissa Duffy, PhD, Isabelle Raiche, MD, MAEd, FRCSC, and Carolyn Nessim, MD, MSc, FRCSC, FACS

Student Education

Hemorrhage Control Training Promotes Resilience-Associated Traits in Medical Students 77
Nomi C. Levy-Carrick, MD, MPhil, Justin C. McCarty, DO, Muhammad Ali Chaudhary, MBBS, Edward J. Caterson, MD, PhD, Adil H. Haider, MD, MPH, Andrew J. Eyre, MD, Pamela B. Mahon, PhD, and Eric Goralnick, MD, MS

Efficacy of Medical Student Surgery Journal Club 83
Daniel Berman, BA, Zachary Braig, BS, Brian Simms, BS, Taylor Anderson, BS, Kristen Dougherty, BS, Katrina Marcinkowski, BS, and Rachel Seaman, BS

Prediction of Postoperative Surgical Risk: A Needs Assessment for a Medical Student Curriculum 89
Samantha L. Able, MD, James M. Healy, MD, MHS, and Kevin Y. Pei, MD

Fellow Education

Fellow Perceptions of Residency Training in Obstetrics and Gynecology 93
Renata R. Urban, MD, Amin A. Ramzan, MD, David W. Doo, MD, Henry L. Galan, MD, Lorie Harper, MD, MSCI, Kenan Omurtag, MD, Tyler M. Muffly, MD, Jeanelle Sheeder, PhD, and Saketh R. Guntupalli, MD

Faculty Development

Impostor Phenomenon and Burnout in General Surgeons and General Surgery Residents 99
Patricia K. Leach, Rachel M. Nygaard, PhD, Jeffrey G. Chipman, MD, Melissa E. Brunsvold, MD, and Ashley P. Marek, MD

Correlation Between Cost of Publication and Journal Impact. Comprehensive Cross-sectional Study of Exclusively Open-Access Surgical Journals 107
Jason Yuen, Samiul Muquit, and Peter C. Whitfield



1931-7204(201901/02)76:1;1-R

The Preferred Attributes of a Trauma Team Leader: Evidence from a Discrete Choice Experiment	120
<i>David Mo, MBT, Nathan N. O'Hara, MHA, Ross Hengel, BSc, Alexander R. Cheong, BSc, and Ash Singhal, MD FRCSC</i>	

Curriculum Development

An Innovative Approach for Familiarizing Surgeons with Malpractice Litigation	127
<i>Yen-Yi Juo, MD, MPH, Catherine Lewis, MD, Christina Hanna, Howard A. Reber, MD, and Areti Tillou, MD</i>	

Break out of the Classroom: The Use of Escape Rooms as an Alternative Teaching Strategy in Surgical Education	134
<i>Anna Eva Kinio, MSc, Laurence Dufresne, MD, Tim Brandys, MD, FRCSC, and Prasad Jetty, MD, FRCSC</i>	

The Influence of the Instructional Approach on Acquiring Clinical Skills in Surgery: A Comparative Effectiveness Study	140
<i>Miriam Ruessler Mairén Tomczak, MD, Monika Thrun, MD, Sebastian Pfau, MD, Ingo Marzi, and Jasmina Sterz, MD</i>	

A Comprehensive Surgical Curriculum Reduced Intra-operative Complication Rates of Resident-performed Cataract Surgeries	150
<i>Sheila Borboli-Gerogiannis, MD, Karen W. Jeng-Miller, MD, MPH, Nicole Koullis, MD, Giannis A. Moustafa, MD, Kenneth K. Chang, MD, MPH, Sherleen H. Chen, MD, Matthew F. Gardiner, MD, Scott H. Greenstein, MD, Zhonghui Luo, MD, Teresa C. Chen, MD, John I. Loewenstein, MD, Joan W. Miller, MD, Miriam J. Haviland, MSPH, and Carolyn E. Kloek, MD</i>	

Quality and Safety

Communication Deficits Among Surgical Residents During Difficult Patient Family Conversations.	158
<i>Carolina Fernandez Branson, PhD, James Houseworth, PhD, and Jeffrey G. Chipman, MD, FACS</i>	

Using Implementation Science to Adapt a Training Program to Assist Surgeons with High-Stakes Communication	165
<i>Lauren J. Taylor, MD, Sarah Adkins, MD, Andrew W. Hoel, MD, Joshua Hauser, MD, Pasithorn Suwanabol, MD, Gordon Wood, MD, Wendy Anderson, MD, Carolina Branson, PhD, Steven Skube, MD, Sara K. Johnson, MD, Amy Zelenski, PhD, Jennifer L. Tucholka, BS, Toby C. Campbell, MD, MSCI, and Margaret L. Schwarze, MD, MPP</i>	

Lessons Learned From the Surgical Morbidity and Mortality Conference.	174
<i>Kaio S. Ferreira, MD, Kenneth Lynch, NP, Beth A. Ryder, MD, Michael Connolly, MD, Thomas Miner, MD, and David T. Harrington, MD</i>	

The Safety Level of Total Central Venous Access Port Implantation Performed by Residents.	182
<i>Teresa Schreckenbach, MME, Indra Münch, Hanan El Youzouri, Wolf Otto Bechstein, and Nils Habbe</i>	

Assessment

Understanding and Assessing Nontechnical Skills in Robotic Urological Surgery: A Systematic Review and Synthesis of the Validity Evidence	193
<i>Jethro C.C. Kwong, BSc, Jason Y. Lee, MD, and Mitchell G. Goldenberg, MBBS</i>	

Objective Assessment of the Early Stages of the Learning Curve for the Senhance Surgical Robotic System	201
<i>Andrew R. Hutchins, Roberto J. Manson, MD, Reginald Lerebours, Alfredo E. Farjat, PhD, Morgan L. Cox, MD, Brian P. Mann, PhD, and Sabino Zani Jr. MD</i>	

A Method to Evaluate Trainee Progression During Simulation Training at the Urology Simulation Boot Camp (USBC) Course	215
<i>Mithun Kailavasan, MBChB, BMedSci, PG, MSc, MRCS, Vishwanath Hanchanale, MBBS, MS, PGCE, MSc, FRCS (Urol), FEBU, Sanjay Rajpal, MBBS, FRCS Ed., Roland Morley, MBBS, FRCS Ed., Craig McIlhenny, MBChB, FRCS, FFST(Ed), Bhaskar Somani, MRCS, FEBU, DM, FRCS (Urol), Ghulam Nabi, MBBS, MS, MCh, FRCS Ed., Raj Gowda, MBBS, MS, FRCS (Urol), Sunjay Jain, MD, FRCS (Urol), Chandra Shekhar Biyani, MS, D.Urol, MSc, FRCS, (Urol) FEBU, and Andy Myatt, FRCS (Urol)</i>	

Simulation and Technology

Interprofessional Simulations to Inform Perioperative Facility Planning and Design.	223
<i>Samuel Torres-Landa, MD, Christopher Neylan, BA, Kristin Quinlan, BSN, RN, CCRN, CHSE, Christopher Klock, MBA, LSSBB, Christi Jefferson, MBA, Noel N. Williams, MD, M Ch, FRCSE, FRCS, Robert C. Caskey, MD, Stephen Greulich, Gretchen Kolb, MS, Cynthia Morgan, MSOD, VP, Kevin Mahoney, MBA, and Kristoffel R. Dumon, MD, FACS</i>	

Surgical Simulation: Markers of Proficiency.	234
<i>Jana Binkley, BS, Alex D. Bukoski, DVM, PhD, Jennifer Doty, RN, Megan Crane, LPN, Stephen L. Barnes, MD, FACS, and Jacob A. Quick, MD, FACS</i>	

Haptic Feedback, Force Feedback, and Force-Sensing in Simulation Training for Laparoscopy: A Systematic Overview	242
<i>Evelien M. Overtoom, MD, Tim Horeman, PhD, Frank-Willem Jansen, MD, PhD, Jenny Dankelman, PhD, and Henk W. R. Schreuder, MD, PhD</i>	

Is Virtual Reality Surgical Performance Influenced by Force Feedback Device Utilized?	262
<i>Abdulgadir Bugdadi, MD, MSc, Robin Sawaya, BSc, MSc, Khalid Bajunaid, MD, MSc, MMgt, FRCSC, Duaa Olwi, MSc, Alexander Winkler-Schwartz, MD, Nicole Ledwos, BA, Ibrahim Marwa, MD, MPH, Ghusn Alsideri, MD, MSc, Abdulrahman Jafar Sabbagh, MBChB, FRCSC, Fahad E. Alotaibi, MD, MSc, Gmaan Al-Zhrani, MD MA, and Rolando Del Maestro, MD, PhD</i>	

A Facial Plastic and Reconstructive Surgery Training Module Using Surgical Simulation for Capacity Building	274	A Structured Review Instrument Improves the Quality of Orthopaedic Journal Club	294
<i>Jennifer C. Fuller, MD, Natalie S. Justicz, MD, Jennifer Kim, MD, Mack Cheney, MD, Rodrigo Castrillon, MD, and Tessa Hadlock, MD</i>		<i>Sean T. Campbell, MD, John P. Kleimeyer, MD, Jeffrey L. Young, MD, Michael J. Gardner, MD, Kirkham B. Wood, MD, and Julius A. Bishop, MD</i>	
A Simple and Low-cost Drilling Simulator for Training Plunging Distance Among Orthopedic Surgery Residents	281	Corrigendum to: Using the ACMGE Milestones as a Handover Tool From Medical School to Surgery Residency Journal of Surgical Education 2017 May-Jun;74(3):519-529	301
<i>Efi Kazum, MD, Oleg Dolkart, PhD, Yoav Rosenthal, MD, Haggai Sherman, MD, Eyal Amar, MD, Moshe Salai, MD, Eran Maman, MD, and Ofir Chechik, MD</i>		<i>Lauren M. Wancata, MD, Helen Morgan, MD, Gurjit Sandhu, PhD, Sally Santen, MD, and David T. Hughes, MD</i>	

Surgical Subspecialties

Orthopedic In-Training Examination: An Analysis of the Sports Medicine Section—An Update	286
<i>John Synovec, MD, MBA, Leah Plumblee, MD, MS, William Barfield, PhD, and Harris Slone, MD</i>	