

# Stanford

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## James R. Korndorffer, Jr. MD, MHPE, FACS

Associate Professor of Surgery (General Surgery) at the Stanford University Medical Center

Surgery - General Surgery

 Curriculum Vitae available Online

### CLINICAL OFFICES

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### Bio

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#### BIO

James R. Korndorffer, Jr. MD MHPE FACS is Associate Professor and Vice Chair of Education in the Department of Surgery at Stanford University. Previously he served as Vice chair of Surgery at Tulane University Health Sciences Center in New Orleans. While at Tulane he also was the Surgery Residency Program Director, the assistant dean for Graduate medical education and the Medical Director of the Tulane Center for Advanced Medical Simulation and Team Training. He received his undergraduate degree in Biomedical Engineering from Tulane University, his Medical Degree from the University of South Florida College of Medicine and his Masters in Health Professions Education from the University of Illinois Chicago. His general surgery residency was completed at The Carolinas Medical Center in Charlotte, North Carolina and his Advanced Laparoscopic Fellowship was completed at Tulane University.

He is actively involved in numerous national societies including the American College of Surgeons, the Society for Gastrointestinal and Endoscopic Surgeons, the Association for Surgical Education, and the Association for Program Directors in Surgery. He serves on the American College of Surgeons Committee on Validation of Surgical Knowledge and Skills, SAGES Fundamentals of Laparoscopic Surgery and Development Committees and also serves as the APDS research committee vice chair.

Dr. Korndorffer has published over 60 papers in peer reviewed journals, 5 book chapters and has presented at over 100 national meetings. Dr. Korndorffer's clinical interests include minimally invasive surgery for gastrointestinal disorders and hernias. His research interests include surgical education, surgical simulation, patient safety, and patient care quality.

#### CLINICAL FOCUS

- General Surgery

#### ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Surgery - General Surgery

## **ADMINISTRATIVE APPOINTMENTS**

- Vice Chair of Education, Department of Surgery, (2017- present)

## **HONORS AND AWARDS**

- Best Doctors, New Orleans (2017-2018)
- Teaching Scholar, Tulane University School of Medicine (2012)
- ACS Young Surgeon Representative, ACS Louisiana Chapter (2005)
- Best Surgical Resident Teacher, Carolinas Medical Center (1995)
- Distinguished Service Award, University of South Florida COM (1990)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, Southern Surgical Association (2016 - present)
- Member, Editorial Board, Surgical Council on Resident Education (2014 - present)
- Recorder, American College of Surgeons Accredited Education Institutes (2018 - present)
- Chair, Program Committee, American College of Surgeons Accredited Education Institute (2015 - 2016)
- Member, Program Committee, American College of Surgeons – Accredited Education Institutes (2013 - present)
- Co-Chair, Research and Development Committee, American College of Surgeons – Accredited Education Institutes (2013 - 2015)
- Chair, Graduate Surgical Education Committee, Association for Surgical Education (2011 - 2013)
- Member, Graduate Surgical Education Committee, Association for Surgical Education (2008 - present)
- Member, Board of Directors, Association for Surgical Education (2011 - 2013)
- Vice Chair, Research and Development Committee , Association of Program Directors in Surgery (2016 - present)
- Co-Chair, Curriculum Task Force Society of American Gastrointestinal and Endoscopic Surgeons (2015 - present)
- Member, Fundamentals of Endoscopic Surgery Committee, Society of American Gastrointestinal and Endoscopic Surgeons (2011 - present)
- Member, Committee on Validation of Surgical Knowledge and Skills, American College of Surgeons (2013 - present)
- Member, Development Committee, Society of American Gastrointestinal and Endoscopic Surgeons (2016 - present)

## **PROFESSIONAL EDUCATION**

- Fellowship: Tulane University School of Medicine Registrar (2005) LA
- Board Certification: General Surgery, American Board of Surgery (1996)
- Fellowship, Tulane University School of Medicine , Minimally invasive Surgery (2005)
- Residency: Carolinas Medical Center General Surgery Residency (1995) NC
- Residency, Carolinas Medical Center, Chalotte NC , Surgery (1995)
- Medical Education: University of South Florida College of Medicine Registrar (1990) FL
- MHPE, University of Illinois, Chicago , Masters of Health Professions Education (2011)
- MD, University of South Florida College of Medicine (1990)

## **PATENTS**

- James Korndorffer. "United States Patent 7,802,990 Laparoscopic Camera Navigation Trainer", Sep 28, 2010

## Publications

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### PUBLICATIONS

- **A Surgeon Led Clinically Focused Anatomy Course Increases Student Selection of General Surgery As a Career** *JOURNAL OF SURGICAL EDUCATION*  
Santini, A. G., Korndorffer, M. L., Barraza, M., Johnson, H. R., Kaplan, J. L., DuCoin, C. G., Satchell, E. K., Korndorffer Jr, J. R.  
2019; 76 (3): 694–99
- **A Surgical Team Simulation to Improve Teamwork and Communication across Two Continents: ViSIOT Proof-of-Concept Study.** *Journal of surgical education*  
Weldon, S. M., Korkiakangas, T., Calzada, J., Korndorffer, J. R., Kneebone, R. L.  
2019
- **How Much Are We Spending on Resident Selection?** *Journal of surgical education*  
Gardner, A. K., Smink, D. S., Scott, B. G., Korndorffer, J. R., Harrington, D., Ritter, E. M.  
2018
- **A Surgeon Led Clinically Focused Anatomy Course Increases Student Selection of General Surgery As a Career.** *Journal of surgical education*  
Santini, A. G., Korndorffer, M. L., Barraza, M. J., Johnson, H. R., Kaplan, J. L., DuCoin, C. G., Satchell, E. K., Korndorffer, J. R.  
2018
- **The Change in Surgical Case Diversity Over the Past 15 Years and the Influence on the Pursuit of Surgical Fellowship**  
Ducoin, C., Hahn, A., Baimas-George, M., Slakey, D. P., Korndorffer, J. R.  
SOUTHEASTERN SURGICAL CONGRESS.2018: 1476–79
- **Preparing for the American Board of Surgery Flexible Endoscopy Curriculum: Development of multi-institutional proficiency-based training standards and pilot testing of a simulation-based mastery learning curriculum for the Endoscopy Training System** *AMERICAN JOURNAL OF SURGERY*  
Franklin, B. R., Placek, S. B., Gardner, A. K., Korndorffer, J. R., Wagner, M. D., Pearl, J. P., Ritter, E.  
2018; 216 (1): 167–73
- **The Economics of Private Practice versus Academia in Surgery.** *Journal of surgical education*  
Baimas-George, M., Fleischer, B., Korndorffer, J. R., Slakey, D., DuCoin, C.  
2018
- **Time crunch: increasing the efficiency of assessment of technical surgical skill via brief video clips**  
Sawyer, J., Anton, N. E., Korndorffer, J. R., DuCoin, C. G., Stefanidis, D.  
MOSBY-ELSEVIER.2018: 933–37
- **Learning preferences of surgery residents: a multi-institutional study**  
Kim, R. H., Viscusi, R. K., Collier, A. N., Hunsinger, M. A., Shabahang, M. M., Fuhrman, G. M., Korndorffer, J. R.  
MOSBY-ELSEVIER.2018: 901–5
- **The Economics of Academic Advancement Within Surgery** *JOURNAL OF SURGICAL EDUCATION*  
Baimas-George, M., Fleischer, B., Korndorffer, J. R., Slakey, D., DuCoin, C.  
2018; 75 (2): 299–303
- **Developing a robust suturing assessment: validity evidence for the intracorporeal suturing assessment tool**  
Anton, N. E., Sawyer, J. M., Korndorffer, J. R., DuCoin, C. G., McRary, G., Timsina, L. R., Stefanidis, D.  
MOSBY-ELSEVIER.2018: 560–64
- **Simulation-based mastery learning for endoscopy using the endoscopy training system: a strategy to improve endoscopic skills and prepare for the fundamentals of endoscopic surgery (FES) manual skills exam**  
Ritter, E., Taylor, Z. A., Wolf, K. R., Franklin, B. R., Placek, S. B., Korndorffer, J. R., Gardner, A. K.  
SPRINGER.2018: 413–20
- **Best Practice for Implementation of the SCORE Portal in General Surgery Residency Training Programs.** *Journal of surgical education*  
Joshi, A. R., Klingensmith, M. E., Malangoni, M. A., Delman, K. A., Korndorffer, J. R., Smink, D. S., Barrett, K. B., Hickey, M.  
2018; 75 (6): e11–e16

- **SAGES University MASTERS Program: a structured curriculum for deliberate, lifelong learning (vol 31, pg 3061, 2017) *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES***  
Jones, D. B., Stefanidis, D., Korndorffer, J. R., Dimick, J. B., Jacob, B. P., Schultz, L., Scott, D. J.  
2017; 31 (11): 4863
- **Is the Title worth the Cost? Economic Nuances of Academic Surgery**  
Baimas-George, M. R., Fleischer, B., Korndorffer, J. R., Slakey, D. P., DuCoin, C.  
ELSEVIER SCIENCE INC.2017: E89
- **Using Simulation to Improve Systems-Based Practices *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY***  
Gardner, A. K., Johnston, M., Korndorffer, J. R., Haque, I., Paige, J. T.  
2017; 43 (9): 484–91
- **SAGES University MASTERS Program: a structured curriculum for deliberate, lifelong learning *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES***  
Jones, D. B., Stefanidis, D., Korndorffer, J. R., Dimick, J. B., Jacob, B. P., Schultz, L., Scott, D. J.  
2017; 31 (8): 3061–71
- **Is it All About the Money? Not All Surgical Subspecialization Leads to Higher Lifetime Revenue when Compared to General Surgery. *Journal of surgical education***  
Baimas-George, M., Fleischer, B., Slakey, D., Kandil, E., Korndorffer, J. R., DuCoin, C.  
2017
- **Choosing Surgery: Identifying Factors Leading to Increased General Surgery Matriculation Rate *AMERICAN SURGEON***  
Pointer, D. T., Freeman, M. D., Korndorffer, J. R., Meade, P. C., Jaffe, B. M., Slakey, D. P.  
2017; 83 (3): 290–95
- **Muscle-Cooling Intervention to Reduce Fatigue and Fatigue-Induced Tremor in Novice and Experienced Surgeons: A Preliminary Investigation *SURGERY JOURNAL-NEW YORK***  
Jensen, L., Dancisak, M., Korndorffer, J.  
2016; 2 (4): E126–E130
- **Simulation-based summative assessments in surgery**  
Szasz, P., Grantcharov, T. P., Sweet, R. M., Korndorffer, J. R., Pedowitz, R. A., Roberts, P. L., Sachdeva, A. K.  
MOSBY-ELSEVIER.2016: 528–35
- **The value proposition of simulation**  
Gardner, A. K., Nepomnayshy, D., Reickert, C., Gee, D. W., Brydges, R., Korndorffer, J. R., Scott, D. J., Sachdeva, A. K.  
MOSBY-ELSEVIER.2016: 546–51
- **Using simulation for disaster preparedness**  
Gardner, A. K., DeMoya, M. A., Tinkoff, G. H., Brown, K. M., Garcia, G. D., Miller, G. T., Zaidel, B. W., Korndorffer, J. R., Scott, D. J., Sachdeva, A. K.  
MOSBY-ELSEVIER.2016: 565–70
- **Force feedback vessel ligation simulator in knot-tying proficiency training *AMERICAN JOURNAL OF SURGERY***  
Hsu, J. L., Korndorffer, J. R., Brown, K. M.  
2016; 211 (2): 411–15
- **Pre-Operative Antisepsis Protocol Compliance and the Effect on Bacterial Load Reduction *SURGICAL INFECTIONS***  
Lundberg, P. W., Smith, A. A., Heaney, J. B., Wimley, W. C., Hauch, A. T., Nichols, R. L., Korndorffer, J. R.  
2016; 17 (1): 32–37
- **Effect of Visuospatial Training on Surgical Skill Acquisition**  
Wright, M., Drake, C. B., Alsaleh, N., Korndorffer, J. R.  
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- **Choosing surgery: identifying factors leading to increased general surgery matriculation rate**  
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- **Design of vessel ligation simulator for deliberate practice** *JOURNAL OF SURGICAL RESEARCH*  
Hsu, J. L., Korndorffer, J. R., Brown, K. M.  
2015; 197 (2): 231–35
- **Using Simulation to Improve Systems** *SURGICAL CLINICS OF NORTH AMERICA*  
Lundberg, P. W., Korndorffer, J. R.  
2015; 95 (4): 885+
- **Camera navigation and cannulation: validity evidence for new educational tasks to complement the Fundamentals of Laparoscopic Surgery Program**  
Watanabe, Y., Ritter, E., Schwaitzberg, S. D., Korndorffer, J. R., Scott, D. J., Okrainec, A., Bilgic, E., Kaneva, P. A., O'Donnell, M. T., Feldman, L. S., Fried, G. M., Vassiliou, M. C.  
SPRINGER.2015: 552–57
- **Multicenter longitudinal assessment of resident technical skills** *AMERICAN JOURNAL OF SURGERY*  
Stefanidis, D., Gardner, C., Paige, J. T., Korndorffer, J. R., Nepomnayshy, D., Chapman, D.  
2015; 209 (1): 120–25
- **Establishing technical performance norms for general surgery residents** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Stefanidis, D., Grewal, H., Paige, J. T., Korndorffer, J. R., Scott, D. J., Nepomnayshy, D., Edelman, D. A., Sievers, C.  
2014; 28 (11): 3179–85
- **Using simulation to improve root cause analysis of adverse surgical outcomes** *INTERNATIONAL JOURNAL FOR QUALITY IN HEALTH CARE*  
Slakey, D. P., Simms, E. R., Rennie, K. V., Garstka, M. E., Korndorffer, J. R.  
2014; 26 (2): 144–50
- **Fundamentals of endoscopic surgery: creation and validation of the hands-on test** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Vassiliou, M. C., Dunkin, B. J., Fried, G. M., Mellinger, J. D., Trus, T., Kaneva, P., Lyons, C., Korndorffer, J. R., Ujiki, M., Velanovich, V., Kochman, M. L., Tsuda, S., Martinez, et al  
2014; 28 (3): 704–11
- **Fundamentals of Endoscopic Surgery cognitive examination: development and validity evidence** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Poulose, B. K., Vassiliou, M. C., Dunkin, B. J., Mellinger, J. D., Fanelli, R. D., Martinez, J. M., Hazey, J. W., Sillin, L. F., Delaney, C. P., Velanovich, V., Fried, G. M., Korndorffer, J. R., Marks, et al  
2014; 28 (2): 631–38
- **Development and Verification of a Taxonomy of Assessment Metrics for Surgical Technical Skills** *ACADEMIC MEDICINE*  
Schmitz, C. C., DaRosa, D., Sullivan, M. E., Meyerson, S., Yoshida, K., Korndorffer, J. R.  
2014; 89 (1): 153–61
- **The American College of Surgeons/Association of Program Directors in Surgery National Skills Curriculum: Adoption rate, challenges and strategies for effective implementation into surgical residency programs**  
Korndorffer, J. R., Arora, S., Sevdalis, N., Paige, J., McClusky, D. A., Stefanidis, D., PEGASUS Res Grp  
MOSBY-ELSEVIER.2013: 13–20
- **Does the Incorporation of Motion Metrics Into the Existing FLS Metrics Lead to Improved Skill Acquisition on Simulators? A Single Blinded, Randomized Controlled Trial** *ANNALS OF SURGERY*  
Stefanidis, D., Yonce, T. C., Korndorffer, J. R., Phillips, R., Coker, A.  
2013; 258 (1): 46–52
- **The Modern Surgery Department Chairman The Job Description as Identified by Chairmen** *JAMA SURGERY*  
Slakey, D. P., Korndorffer, J. R., Long, K. N., Clark, T., Hidalgo, M.  
2013; 148 (6): 511–15
- **The Ethics of Conducting Graduate Medical Education Research on Residents** *ACADEMIC MEDICINE*  
Keune, J. D., Brunsvold, M. E., Hohmann, E., Korndorffer, J. R., Weinstein, D. F., Smink, D. S.  
2013; 88 (4): 449–53
- **Can simulation improve the traditional method of root cause analysis: A preliminary investigation** *SURGERY*  
Simms, E. R., Slakey, D. P., Garstka, M. E., Tersigni, S. A., Korndorffer, J. R.

2012; 152 (3): 489–97

- **Effective home laparoscopic simulation training: a preliminary evaluation of an improved training paradigm**  
Korndorffer, J. R., Bellows, C. F., Tekian, A., Harris, I. B., Downing, S. M.  
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- **Research Regarding Methods of Assessing Learning Outcomes** *SIMULATION IN HEALTHCARE*  
Boulet, J. R., Jeffries, P. R., Hatala, R. A., Korndorffer, J. R., Feinstein, D. M., Roche, J. P.  
2011; 6: S48–S51
- **Effect of Structuring Clinical Services Based on Resident Educational Objectives**  
Korndorffer, J. R., Slakey, D. P.  
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- **Simulation training for vascular access interventions** *JOURNAL OF VASCULAR ACCESS*  
Davidson, I. A., Yoo, M. C., Biasucci, D. G., Browne, P., Dees, C., Dolmatch, B., Gallieni, M., La Greca, A., Korndorffer, J. R., Nolen, B., O'Rear, S., Peden, E., Pittiruti, et al  
2010; 11 (3): 181–90
- **SAGES guideline for laparoscopic appendectomy** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Korndorffer, J. R., Fellinger, E., Reed, W.  
2010; 24 (4): 757–61
- **Initial Laparoscopic Basic Skills Training Shortens the Learning Curve of Laparoscopic Suturing and Is Cost-Effective** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*  
Stefanidis, D., Hope, W. W., Korndorffer, J. R., Markley, S., Scott, D. J.  
2010; 210 (4): 436–40
- **Robotic assistance improves intracorporeal suturing performance and safety in the operating room while decreasing operator workload** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Stefanidis, D., Wang, F., Korndorffer, J. R., Dunne, J., Scott, D. J.  
2010; 24 (2): 377–82
- **A call for the utilization of consensus standards in the surgical education literature**  
Korndorffer, J. R., Kasten, S. J., Downing, S. M.  
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2010: 99–104
- **Do Metrics Matter? Time Versus Motion Tracking for Performance Assessment of Proficiency-Based Laparoscopic Skills Training** *SIMULATION IN HEALTHCARE*  
Stefanidis, D., Scott, D. J., Korndorffer, J. R.  
2009; 4 (2): 104–8
- **Proficiency maintenance: impact of ongoing simulator training on laparoscopic skill retention.** *Journal of the American College of Surgeons*  
Stefanidis, D., Korndorffer, J. R., Markley, S., Sierra, R., Scott, D. J.  
2006; 202 (4): 599–603
- **Intensive continuing medical education course training on simulators results in proficiency for laparoscopic suturing.** *American journal of surgery*  
Stefanidis, D., Sierra, R., Korndorffer, J. R., Dunne, J. B., Markley, S., Touchard, C. L., Scott, D. J.  
2006; 191 (1): 23–27
- **Skill retention following proficiency-based laparoscopic simulator training.** *Surgery*  
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2005; 138 (2): 165–70
- **Simulator training for laparoscopic suturing using performance goals translates to the operating room.** *Journal of the American College of Surgeons*  
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2005; 201 (1): 23–29
- **Multicenter construct validity for southwestern laparoscopic videotrainer stations.** *The Journal of surgical research*  
Korndorffer, J. R., Clayton, J. L., Tesfay, S. T., Brunner, W. C., Sierra, R., Dunne, J. B., Jones, D. B., Rege, R. V., Touchard, C. L., Scott, D. J.  
2005; 128 (1): 114–19

- **Determining standards for laparoscopic proficiency using virtual reality.** *The American surgeon*  
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2005; 71 (1): 29–35
- **Developing and testing competency levels for laparoscopic skills training.** *Archives of surgery (Chicago, Ill. : 1960)*  
Korndorffer, J. R., Scott, D. J., Sierra, R., Brunner, W. C., Dunne, J. B., Slakey, D. P., Townsend, M. C., Hewitt, R. L.  
2005; 140 (1): 80–84
- **Robotic Laparoscopic Fundoplication.** *Current treatment options in gastroenterology*  
Stefanidis, D., Korndorffer, J. R., Scott, D. J.  
2005; 8 (1): 71–83
- **Development and transferability of a cost-effective laparoscopic camera navigation simulator.** *Surgical endoscopy*  
Korndorffer, J. R., Hayes, D. J., Dunne, J. B., Sierra, R., Touchard, C. L., Markert, R. J., Scott, D. J.  
2005; 19 (2): 161–67
- **Laparoscopic virtual reality training: are 30 repetitions enough?** *The Journal of surgical research*  
Brunner, W. C., Korndorffer, J. R., Sierra, R., Massarweh, N. N., Dunne, J. B., Yau, C. L., Scott, D. J.  
2004; 122 (2): 150–56