

SHANE BORKOWSKY, M.D.

Curriculum Vitae

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EMPLOYMENT:

University of Illinois Hospital and Health Sciences System- Chicago, IL	7/1/2015-present
Associate Professor of Clinical Medicine, Department of Medicine	2019-present
Affiliate Faculty, Center for Pharmacoepidemiology and Pharmaco-economic Research	2018-present
Visiting Associate Chief Health Information Officer, University of Illinois Hospital and Health Sciences System	2015-present
Attending Physician, Division of Academic Internal Medicine, Department of Medicine, UIC College of Medicine, Assistant Professor of Clinical Medicine	2015-present
Faculty Member, Clinical Informatics Fellowship	
• Leadership roles in the UIHealth 3i Project:	
○ Co-lead for Legacy Data Migration. Identifying content for migration from Cerner to Epic, validating data, working with content owners to ensure consistency of data.	
○ Co-Lead for Research Governance. Member of the Research Steering Committee and Research Support Committee. Working closely with UIC/UIH Research Community to standardize the method for defining and identifying clinical trials which are to be built into Epic, improving research compliance and communication.	
○ Steering Committee member	
○ Member of CORE Team- Ambulatory Medicine	
• Participate in CMO leadership meetings, Ambulatory Leadership Committee, Ambulatory Quality Improvement group. Work with Department Chairs, Division Chiefs, Ambulatory Leadership, Medical Directors, Faculty and Staff to educate on the Electric Health Record (EHR), help identify ways to optimize our EHR to meet practice and documentation standards and requirements, remove unnecessary alerts to reduce alert-fatigue.	
• Collaborated with multidisciplinary groups on hospital initiatives, including designing an EHR rule to ensure attending signage of "Admit to" order for compliance and billing purposes, implementation and education regarding ILPMP (Illinois Prescription Monitoring Program)	
• Co-chair of Patient Portal Steering Committee, Portal Enhancement Project	
• Co-chair, Medication Reconciliation Committee	
• Co-lead of IUPG MU/MIPS group, working with the Director of Finance of the Medical Service Plan to identify workflows to meet MU/MIPS requirements, and educating physicians and clinical staff on requirements, including increasing the use of non-physician staff to assist in meeting measures.	
• Serve as core faculty member of the UIC Clinical Informatics Fellowship Training Program. Oversee the Clinical Decision Support rotation	
• Chair the Electronic Medical/Health Record (EMR) committee, which oversees implementation, adoption, utilization, optimization, and documentation processes of the EHR. Participated in the development of standards, policies and procedures to assure the availability of a complete and organized medical/health record. Worked to ensure that the EMR reflected regulatory requirements as they pertain to documentation, accuracy, and confidentiality. Participated in efforts to reduce unsigned Verbal Orders. Worked on leveraging new tools in the EHR, including eClipboard for patient generated health data.	
• Chair of Rules/Orders Committee, Member of Clinical Documentation Committee.	

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- Member, Clinical Informatics Group
- Helped create and co-lead Physicians Informatics Group (PhIG), a new UIHealth group of representative physicians/APRNs with interest in optimizing usage of and disseminating updates to the EHR, as well as providing feedback and recommendations on changes.
- Physician lead of Ambulatory Care Transformation 2.0 project
- Physician co-lead of Advance Directives group
- Represent CHIO group on hospital-wide committees and projects, including IS Project Management Council, Project Intake Committee
- Co-author of G 19.01 Alcohol Withdrawal Management In The Adult Hospitalized Patient
- Working group on Rounding Report, Hand-off Tool, Hospital Interoperability/Health Information Exchange.
- Worked closely with IS Training to develop documents, teaching content for upgrades and new content. Physician co-lead of the Fluency Direct education project.
- Support Clinical directors and practitioners in changes to, and enhancements of the EHR. Educate groups on updates, best practices, and workflow improvements to enhance the interaction with the EHR.
- Member, Workplace Violence Prevention Committee
- Maintain an active Internal Medicine Practice in the Primary Care Plus Clinic, precept in the General Medicine Clinic, and participate in medical student education.

Stroger Hospital of Cook County/Cook County Health and Hospitals System- Chicago, IL

7/2003-6/2015

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| Attending Physician, Internal Medicine, Division of Hospital Medicine (DHM), Stroger Hospital of Cook County | 2003-2015 |
| Director of Operations, Division of Hospital Medicine, Department of Medicine. | 2009-2014 |
| Assistant Professor, Internal Medicine, Rosalind Franklin University of Medicine and Science | 2014-2015 |
| Assistant Professor, Internal Medicine, Rush Medical College | 2003-2015 |
- Physician liaison to Information Systems, representing physicians in all clinical aspects of the EHR. Various project and committee work at Stroger Hospital/CCHHS including:
 - Chair of Medical Records Committee, Orders Committee, Drug Utilization and Evaluation Subcommittee, Medication Error and Adverse Drug Event Committee.
 - System-Wide quality projects, including: Medication Safety Workgroup, Catheter Associated Urinary Tract Infection (CAUTI) prevention group, Alcohol Withdrawal Management Committee, Bureau-wide Anticoagulation Working Group Task Force, Inpatient Diabetes Group, Pharmacy Taskforce, Medication Process Committee, Admission Orders Committee, Medication Reconciliation/Depart Process Group, Computerized Physician Order Entry Group, Clinical Decision Support.
 - Physician lead of institution of CPOE, electronic note entry, and powernote creation
 - Institute for Healthcare Improvement (IHI) Leading Quality Improvement: Essentials for Managers-Stroger site Co-director
 - Drug and Formulary Committee, Member
 - Meaningful Use Governance Group, Lead Physician Member: Lead physician on eNotes, CPOE Lab Orders, Contributor to eRx, View/Download/Transmit, Transition Summary of Care.
 - ICD-10 Transition Project, Cook County Health and Hospital System (CCHHS), Lead Physician Member
 - Quality and Regulatory Affairs, CCHHS
 - Joint Commission (JCAHO/TJC) Steering Committee, Member. Group Leader/Lead Physician Member of Information Management and Record of Care Chapter Group
 - Discharge Summary template, Co-Creator/manager. Created content, policy, and education to facilitate discharge summary note completion prior to discharge on 100% of hospital admissions
 - Quality Improvement: Perform, guide, and teach quality improvement projects within the Division of Academic Internal Medicine, as well as in the residency program. Topics include disease-specific management protocols and care sets, immunization administration, reducing hospital readmissions.

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- Member of Executive Medical Staff
- Director of Emergency Department Exercise Stress Lab

Post Residency- Boston Area. In House Physician/Attending Roles

2002-2003

Attending, Urgent Care- Saints Memorial Medical Center, Lowell, MA
Attending, Urgent Care- East Boston Neighborhood Health Ctr, E. Boston, MA
In-House Physician- Jordan Hospital, Plymouth, MA
In-House Physician- Milton Hospital, Milton, MA

CAPABILITIES PROFILE:

- Skilled in Internal Medicine inpatient and outpatient care.
- Educator of the principals of patient care, both in the medical school and residency level.
- Educator of all users of the EHR regarding use, workflow, and best practices.
- Mentoring and educating fellows in the Clinical Informatics Fellowship program to learn the fundamentals of the field, as well as working with them on hospital-wide projects to enhance their experiences as well as the goals of the hospital system.
- Skilled in implementing and optimizing an EHR to meet the needs of a large hospital system, including training new clinical capabilities to a broad clinical audience.
- Leader in implementation of new EHR in both clinical and research areas.
- Experienced in leading multidisciplinary groups, with the ability to engage members, allow for thoughtful communication, and encourage collaboration and creativity to achieve team member and stakeholder goals with buy-in and support from involved parties.
- Able to clearly communicate with the end user, translating institutional needs to fit in the workflow of the clinician, and utilizing IT capabilities to meet the clinicians' needs and requests, with a focus in the areas of documentation, orders, and clinical decision support.
- A leader in Meaningful Use/MACRA/PI programs at UIHealth.
- Assisted hospital attestation for Meaningful Use stage 2, achieve HIMSS stage 6, and prepare for transition to ICD-10.
- 16 years of experience in clinical informatics as a physician liaison, lead physician, and project lead.
- Board Certified in Internal Medicine and in Clinical Informatics.
- Skilled in the use of business intelligence tools, including Excel, SharePoint, Vision, Business Objects.
- Epic Certified in Clinical Informatics

EDUCATION:

Boston University Medical Center Residency Training Program in Internal Medicine Boston Medical Center, Veteran Administration Boston Healthcare System. Internship and Residency in Internal Medicine Teaching Associate in Medicine, Boston University School of Medicine	1999-2002
New York University School of Medicine, New York, NY M.D. 1999 James E. Constantine Award in Obstetrics and Gynecology	1995-1999
University of Chicago, Chicago, IL A.B., Linguistics 1994	1990-1994

LICENSURE AND CERTIFICATIONS:

SHANE BORKOWSKY, M.D.

Board Certified, Clinical Informatics, valid through 2025
Board Certified, American Board of Internal Medicine, valid through 2022
Medical License, Illinois
Illinois Controlled Substance License
US DEA Controlled Substance Certificate
Epic Certified in Clinical Informatics

PROFESSIONAL ORGANIZATIONS:

Association of Medical Directors of Information Systems (AMDIS), Member	2016-present
American Medical Informatics Association (AMIA), Member	2014-present
Society of Hospital Medicine (SHM), Member	2003-2016
Judge for SHM National Conference Innovations Poster Competition.	2006-2010
American College of Physicians, American Society of Internal Medicine, Member	2001-present

AWARDS/RECOGNITION

Top Box Doc Award FY20 Q1- best outcomes compared to peers in the three Press Ganey Awards categories: Rate the Provider, Recommend the Provider, and Quality of Physician. Received a percentile rank of 99 when compared to 29,000 ambulatory sites within the Press Ganey database.	12/2019
Outstanding Teaching, University of Illinois Internal Medicine Residency Program	2015-2016
Participated in CMIO Survival Guide: A Crash Course at AMDIS	2016
Diplomate, ABPM in Clinical Informatics	2014
Participated in Biomedical Informatics course sponsored by the National Library of Medicine under the directorship of James Cimino at the Marine Biology Lab, Woods Hole, MA.	2009
Student Education Award for Excellence in Medical Student Teaching, John H. Stroger Hospital of Cook County	2004-2005

RESEARCH EXPERIENCE, GRANT AND CONTRACT SUPPORT

ACCOuNT Translational Project, UIH site, co-PI. Collaborating with Pharmacy, IS.	2016-present
UIH Lung Cancer Screening Resident Project, Mentor.	2016-2018
CDS Anomaly Detection Project, UIH site, Principal Investigator	2015-2018

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Can a Post Discharge Telephone Intervention Reduce Readmission Rate in John H Stroger Hospital of Cook County, Principal Investigator.	2013-2015
The Evaluation of Pantoprazole Administration in the Hospital Setting, Principal Investigator.	2011-2015
VTE Risk Assessment and Prophylaxis: The reliability of clinical assessment by Medical Housestaff.	2011-2012
Tools for Optimizing Prescribing, Monitoring and Education (TOP-MED) CERT project- site Principal Investigator.	2007-2012
Using a Coping Peer Intervention to Improve Patient Adherence in Type 2 Diabetes During From Inpatient to Outpatient Care, Co-Principal Investigator.	2006-2011
Hand-Carried Ultrasounds for Bedside Echocardiograms, Investigator.	2006-2011
Faculty Development: Clinical Epidemiology and Clinical Research	2005-2007
Improving the Yield of Exercise Treadmill Tests, Investigator	2005-2009
Impact of a Bedside Procedure Service on General Medicine Inpatients: A Firm-Based Trial, Investigator	2005-2009

PUBLICATIONS/PRESENTATIONS/POSTERS

Smith S, **Borkowsky S**, Yedinak K. Medication Reconciliation= Accurate Medication Lists for Patient Safety, Selected for Quality and Safety Fair poster presentation, UIHealth October 2019.

Wright A, Ash J, Galanter W, Sittig D, **Borkowsky S**, et al. Clinical Decision Support Malfunctions: Analysis and Empirically Derived Taxonomy. *Journal of American Medical Informatics Association*, Volume 25, Issue 5, May 2018: 496-506

Pasquinelli M, Schmidt T, Westphal G, **Borkowsky S**, Feldman L. Assessing and Addressing Knowledge Gaps to Improve Lung Cancer Screening Rates. *Journal of Thoracic Oncology*, Volume 12, Issue 11, November 2017. Supplement 2, p S2311.

Implementing an Alcohol Withdrawal Management Plan Across a Hospital, presented at Cerner Regional User Group Meeting, June 2016

Implementing an Alcohol Withdrawal Management Plan Across a Hospital, presented at BHIS Monthly Conference, UIC, 2015

Ninan, Jacob, **Shane Borkowsky**, Bashar Attar. "Tumor Lysis Syndrome With Hypercalcemia: An Extremely Rare Occurrence In Colorectal Cancer." In *American Journal Of Gastroenterology*, Vol. 108, Pp. S401-S401. 75 Varick St, 9th Flr, New York, NY 10013-1917 USA: Nature Publishing Group, 2013.

Jacob Ninan, MD, **Shane Borkowsky, MD**, Bashar Attar, MD, D, FACG. Tumor Lysis Syndrome With Hypercalcemia: An Extremely Rare Occurrence In Colorectal Cancer. American College Of Gastroenterology Annual Meeting In San Diego 2013

Verda, Larissa, William Trick, Ashima Sahni, Abhimanyu Saini, Samrat Khanna, Monica Muppidi, **Shane Borkowsky**, And Krishna Das. "Comparison Of Electronic Caresets To Guide Venous Thromboembolism Risk Assessment." In *Journal Of General Internal Medicine*, Vol. 27, Pp. S148-S148. 2012.

Muppidi, Monica Reddy, Ashima Sahni, Abhimanyu Saini, Samrat Khanna, Larissa Verda, William Trick, **Shane Borkowsky**, Shweta Gupta, And Krishna Das. "VTE Risk Assessment And Prophylaxis: The Reliability Of Clinical Assessment By Medical Housestaff." *Blood*, Vol 118 (21) (2011): 4199-4199.

Muppidi, A Sahni, A Saini, S Khanna, L Verda, W Trick, **S Borkowsky** And K Das. VTE Risk Assessment And Prophylaxis: The Reliability Of Clinical Assessment By Medical Housestaff. 53rd American Society Of Hematology Annual Meeting, San Diego, California, 2011.

Brian P. Lucas MD MS FHM, Carolina Candotti MD, Bosko Margeta MD, Benjamin Mba MBBS MRCP, Rudolf Kumapley MB CHB, Abdo Asmar MD, Ricardo Franco-Sadud MD, Joshua Baru MD, Christine Acob MD, **Shane Borkowsky MD**, Arthur T. Evans MD MPHc. Hand-Carried Echocardiography by Hospitalists: A Randomized Trial. *American Journal of Medicine*: Aug;124(8):766-74. Epub 2011 Jun 12.

Yu S, Galanter W, DiDomenico R, **Borkowsky S**, Schiff G, Lambert B. Selection of drug-laboratory result pairs for an inpatient asynchronous alert program: Results of a Delphi survey. *American Journal of Health-System Pharmacy*: Vol 68 Mar 1: 407-414.

Yannis Guerra, Krishna Das, Pete Antonopoulos, **Shane Borkowsky**, Leon Fogelfeld, Melanie Gordon, Betsy Palal, Joanne Witsil, and Evelyn Lacuesta (2010) Computerized Physician Order Entry-Based Hyperglycemia Inpatient Protocol and Glycemic Outcomes: The CPOE-HIP Study. *Endocrine Practice*: May 2010, Vol. 16, No. 3, pp. 389-397.

Shane Borkowsky; William Trick; Joseph Asbury; ChukwuEmeka Ezike; Charles Ojielo; Shari Schabowski; Jennifer Smith. Treatment of Substance Dependence after Hospital Discharge. *Journal of Hospital Medicine*, 4 Supplement 1:8, Apr 2009

Lucas BP, Candotti C, Margeta B, Evans AT, Mba B, Baru J, Asbury JK, Asmar A, Kumapley R, Patel M, **Borkowsky S**, Fung S, Charles-Damte M. Diagnostic Accuracy of Hospitalist Performed Hand-Carried Ultrasound Echocardiography after a Brief Training Program. *J Hosp Med*. *J Hosp Med* 2009;4:340-349.

Calvin J, **Borkowsky S**, Evans A, Powell L, Lapidus S, Charles-Damte M, Al-Hindi A, Kravitz G, Kalavagunta S. Using a Coping Peer Intervention to Improve Patient Adherence in Type 2 Diabetes during Transition from Inpatients to Outpatient Care. Rush University Medical Center-John H. Stroger Jr. Hospital of Cook County Collaborative Research Grant. Presented at Forum for Rush Stroger Awardees, April 2008.

Lucas BP, Kumapley R, Mba B, Nisar I, Lee K, Ofori-Ntow S, **Borkowsky S**, Asmar A, Lewis T, Bienias JL. Hospitalist-run Short Stay Unit: Features that Predict Length-of-stay and Eventual Admission to Traditional Inpatient Services. *Journal of Hospital Medicine* 2009; 4:276-284.

Lucas BP, Candotti C, Margeta B, Mba B, Baru J, Asbury JK, Asmar A, Kumapley R, Patel M, **Borkowsky S**, Fung S, Charles-Damte M, Evans AT. Diagnostic Accuracy of Hand-Carried Ultrasound Echocardiography by Hospitalists after a Brief Training Program. *J Hosp Med* 2008 3(Suppl1):26. Poster presentation, National Society of Hospital Medicine Meeting, San Diego, CA.

Lucas BP, Ezeokoli C, Deshpande A, **Borkowsky S**, Kumapley R, Lee K, Ofori-Ntow S, Patel M, Mba B, Baru J, Asmar A, Candotti C. A Hospitalist-Run Exercise Treadmill Testing Laboratory in an Emergency Department. *J Hosp Med* 2008 3(Suppl1):66. Poster presentation, National Society of Hospital Medicine Meeting, San Diego, CA.

Borkowsky S, Trick W, Asbury J, Ezike C, Ojielo C, Schabowski S, Smith J. Treatment of Substance Dependent Patients after Hospital Discharge. Poster presentation at National Society of Hospital Medicine Meeting, Chicago IL. 2009. Submitted for publication.

Guerra Y, Das K, Antonopoulos P, Benson I, **Borkowsky S**, Fogelfeld L, Gordon M, Palal P, Witsin J, Lacuesta E. Effects of a Computerized Physician Order Entry (CPOE)- based Inpatient Insulin Protocol on Glycemic Outcomes. Abstract for 2008 ADA meeting.

Tamae Kakazu M, Gopireddy D, **Borkowsky S**. Toxic Epidermal Necrolysis and Systemic Lupus Erythematosus. 2007 ACP Illinois Chapter Poster Presentation.

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Lucas B, Asbury J, Wang Y, Lee K, Kumapley R, Mba B, **Borkowsky S**, Asmar A. Impact of a Bedside Procedure Service on General Medicine Inpatients: A Firm-Based Trial. *Journal of Hospital Medicine*. 2007; vol 2, No 3.

Majeed M, Tarjan G, **Borkowsky, S**. Weight Loss, Cholestasis, and a Large Pericardial Effusion in a Young Woman. *The New Zealand Medical Journal*. 2006; vol 119: No 1229

Majeed M, Kovarik P, Puttaswamy S, **Borkowsky S**. Panniculitis-like T-cell Lymphoma with an Unusual Clinical Presentation. *Leukemia and Lymphoma*. 2006; 47(8):1696-8.

Borkowsky S, Finlay TH, and Rosen T. Role of Angiogenic Activity in Dominant Ovarian Follicle Selection. Presented to Society of Gynecologic Investigation, 1999.

LANGUAGES

Fluent in Medical Spanish