**David Michael Schlossman, M.D., Ph.D., FACP, M.S. (Medical Informatics), CPHIMS**

***Contact Information***

Principal Consultant, MedInfoDoc LLC

2420 Lacewood Drive

Columbia, Missouri 65201

Phone (573) 864-6401

E-mail dschloss39@gmail.com

***Professional Experience***

A medical oncologist and computer enthusiast for over 30 years, Dr. Schlossman was initially excited about the potential for health information technology (health IT) to improve healthcare quality. When Electronic Health Records (EHRs) and Computerized Provider Order Entry (CPOE) were implemented at his organization, he quickly realized that current generation EHR software was never designed or optimized to support clinical workflow, creating a challenging user experience for practicing clinicians and preventing health IT from achieving its stated design goals.

It became, and still is, his passion to help overcome these barriers and see health IT reach its full potential. He obtained a master’s degree in medical informatics from Northwestern University. He became the founding chair of a clinical informatics committee at Boone Hospital Center (BHC). In this capacity, he worked on CPOE order sets as a subject matter expert and clinical advisory committee member and served as a physician champion during CPOE implementation. He served on the clinical advisory committee for the development of Clindesk 2, a local longitudinal EHR used along with the major vendor inpatient EHR at BHC. He achieved board certification in Clinical Informatics with the first class of Diplomates in that new subspecialty. He became active in the Healthcare Information Management and Systems Society (HIMSS), served a year on the Physician Committee, and qualified as a Certified Professional in Health Information and Management Systems (CPHIMS). He is also a member of the American Medical Informatics Association.

In 2014 and 2015 he served on the HIMSS Health IT User Experience Committee, the United States Oncology Network (USON) Data Governance Committee, and the USON EHR Physician Advisory Board. He also conducted a summative scenario-based usability study of the inpatient CPOE system at BHC which was presented at the 2015 International Symposium on Human Factors and Ergonomics in Healthcare. In 2015 and 2016, he served on a federal advisory committee evaluating the feasibility of mechanisms to assist providers in comparing and selecting certified EHR technology products. In 2017 he served as a physician educator and at-the-elbow trainer during the implementation of the Epic EHR at BHC, taught a master’s degree course in user-based research methods for the University of Alabama at Birmingham (UAB), and joined the HL7 EHR Usability Workgroup which is about to publish a new usability functional profile to supplement the HL7 EHR System Functional Model.

Since 2018 he has continued teaching a graduate course on Human Factors in Healthcare IT at UAB every fall and working with the HL7 Reducing Clinician Burden Project (<https://confluence.hl7.org/pages/viewpage.action?pageId=104568480>), serving as co-facilitator (co-leader) of the project. Now retired from clinical practice after more than 30 years, he continues with informatics consulting, currently working with Roche Information Solutions on the development of a clinical decision support systems for oncologists. His goal is to help develop next generation health IT systems that support well-informed, empathetic physicians with sophisticated predictive tools that free them from clinical workflow burdens, help them focus on patients, and help them reason more accurately. This is what it will take to produce the high quality, patient-centered, cost-effective healthcare system we all desire.

# Employment History

Oncology Physician Consultant, Roche Information Solutions, December 2019 to present working on Navify platform clinical decision support products.

University of Alabama at Birmingham, Birmingham, AL. Credentialed Credit Course Instructor, Graduate Program in Health Informatics, Department of Health Services Administration, August 2017 to present. Teaching HI 656 Human Factors in Healthcare IT.

MedInfoDoc LLC, Columbia, MO. December 2016 to present. Strategic consulting on healthcare IT implementation and training, evaluation and testing of healthcare IT usability and user experience, planning and evaluating User Centered Design programs in healthcare IT software development, and evaluating and testing human factors issues in Clinical Decision Support systems.

Missouri Cancer Associates, Columbia, MO. Private Medical Practice, Hematology and Medical Oncology, January 1990 to November 2015, partner January 1991. Member, United States Oncology Data Governance Committee and iKnowMed Generation 2 EHR Physician Advisory Board 2014-2015.

Boone Hospital Center, Columbia, MO. Member, Physician Information Technology Committee, June 2011 to June 2019, chair 2011 to 2012. Subject matter expert and clinical advisory committee member for CPOE order set development, physician champion for CPOE implementation, and member of the Clinical Desktop 2 clinical advisory committee. Principal investigator, inpatient EHR CPOE usability study (2013-2015). Provider educator and super-user, Epic EHR implementation (January-August 2017).

Duke University Medical Center, Durham, N.C. Associate in Medicine and Biochemistry July 1985 to May 1986, Assistant Professor of Medicine and Biochemistry June 1986 to December 1989.

***Education and Training***

Oregon Health and Science University, Portland, OR, October 2016 to December 2016, Update in Health Information Technology: Healthcare Data Analytics

Northwestern University School of Professional Studies, Chicago, IL, January 2011 to

 December 2012, M.S. in Medical Informatics.

Duke University Medical Center, Durham, NC, July 1984 to June 1985, Fellow in Hematology and Medical Oncology.

Stanford University Medical Center, Palo Alto, CA, July 1981 to June 1984, Helen Hay Whitney

 Foundation Postdoctoral Fellow in Biochemistry.

Duke University Medical Center, Durham, NC, July 1979 to June 1981, Resident in Internal Medicine.

Duke University Medical School and Duke University Graduate School, Durham, NC, September 1972 to May 1979, Medical Scientist Training Program, Ph.D. in Biochemistry, Sigma Xi, 1978, and M.D., Alpha Omega Alpha, 1979.

Columbia University, New York, NY, September 1968 to June 1972, B.A in Chemistry, Summa

 Cum Laude, Phi Beta Kappa.

***Credentials***

Certified, Subspecialty Board of Clinical Informatics, American Board of Preventive Medicine 2014-2024

Certified Professional in Health Information and Management Systems, Healthcare Information and Management Systems Society 2013-2022

Fellow of the American College of Physicians 2007-present

Certified, Subspecialty Board of Medical Oncology, American Board of Internal Medicine 1989-present

Certified, American Board of Internal Medicine 1985-present

Licensed, Physician and Surgeon, State of Missouri, 1989-present

***Professional Memberships and Volunteer Work***

Healthcare Information and Management Systems Society 2012 to present

* Member, Health Information Technology User Experience (UX) Committee, July 2014 to June 2016.
* Chair, Physician Community EHR Usability Workgroup, September 2013 to 2015.
* Member, Electronic Health Record Usability Task Force, July 2013 to July 2014.
* Member, Physician Committee, July 2013 to July 2014.
* UX Community Liaison to Physician Committee, October 2014 to June 2016.

Health IT Policy and Health IT Standards Committee Certified Technology Comparison Task

Force (federal advisory committee) November 2015 to January 2016, <https://www.healthit.gov/FACAS/health-it-policy-committee/hitpc-workgroups/certified-technology-comparison-task-force> and <https://www.healthit.gov/sites/default/files/macraehrpct_final_4-2016.pdf>

HL7 EHR Usability Workgroup, April 2016 to present

HL7 Reducing Clinician Burden Project, July 2018 to present, co-facilitator January 2019 to present

American Medical Informatics Association 2012 to present

American College of Physicians 1990 to present, Fellow 2007 to present

American Medical Association 1990 to present

***Selected Publications***

1. Schlossman, D.M., and Bell, R.M. (1976) Triacylglycerol synthesis in isolated fat cells: Evidence that the sn-glycerol-3-phosphate and dihydroxyacetone phosphate acyltransferase activities are dual catalytic functions of a single microsomal enzyme. J. Biol. Chem. 251: 5738-5744.

2. Schlossman, D.M., and Bell, R.M. (1977) Microsomal sn-glycerol-3-phosphate and dihydroxyacetone phosphate acyltranserase activities from liver and other tissues: Evidence for a single enzyme catalyzing both reactions. Arch. Biochem. Biophys. 182: 732-742.

3. Schlossman, D.M., and Bell, R.M. (1978) Glycerolipid biosynthesis in Saccharomyces cerevesiae: sn-Glycerol-3-phosphate and dihydroxyacetone phosphate acyltransferase activities. J. Bacteriol. 133: 1368-1376.

4. Patzer, E.J., Schlossman, D.M., and Rothman, J.E. (1982) Release of clathrin from coated vesicles dependent upon a nucleoside trisphosphate and a cytosol fraction. J. Cell Biol. 93: 230-236.

5. Schlossman, D.M., Schmid, S.L., Braell, W.A., and Rothman, J.E. (1984) An enzyme that removes clathrin coats: Purification of an uncoating ATPase. J. Cell Biol. 99: 723-733.

6. Braell, W.A., Schlosman, D.M., Schmid, S.L., and Rothman, J.E. (1984) The dissociation of clathrin coats coupled to the hydrolysis of ATP: Role of the uncoating ATPase. J. Cell Biol. 99: 734-741.

7. Schmid, S.L., Braell, W.A., Schlossman, D.M., and Rothman, J.E. (1984) A role for clathrin light chains in the recognition of clathrin coats by uncoating ATPase. Nature 311: 228-231.

8. Chappell, T.G., Welsh, W., Schlossman, D.M., Schlessinger, M., and Rothman, J.E. (1986) Uncoating ATPase is a member of the 70 kilodalton family of stress proteins. Cell 45: 3-13.

9. Hertler, A.A., Schlossman, D.M., Borowitz, M.J., Laurent, G., Jansen, F.K., Schmidt, C., and Frankel, A.E. (1987) A phase I study of T101-ricin A chain immunotoxin in refractory chronic lymphocytic leukemia. J. Biol. Response Modifiers 7: 97-113.

10. Kim, J.H., Bedrosian, C.L., Jain, R., and Schlossman, D.M. (1988) Peripheral T-cell lymphoma complicating common variable hypogammaglobulinemia. Am. J. Med. 85: 123-124.

11. Hertler, A.A., Schlossman, D.M., Borowitz, M.J., Poplack, D., and Frankel, A.E. (1989) An immunotoxin for the treatment of T-acute lymphoblastic leukemic meningitis: Studies in Rhesus monkeys. Cancer Immunol. Immunother. 28: 59-66.

12. Hertler, A.A., Schlossman, D.M., Borowitz, M.J., Blythman, H.E., Casellas, P., and Frankel, A.E. (1989) An anti-CD5 immunotoxin for chronic lymphocytic leukemia: Enhancement of cytotoxicity with human serum albumin-monensin. Int. J. Cancer 43: 2115-219.

13. Frankel, A., Schlossman, D. Welsh, P., Hertler, A., Withers, D., and Johnston, S. (1989) Selection and characterization of mutants of ricin toxin A chain in Saccharomyces cerevisiae. Mol. Cell. Biol. 9: 415-420.

14. Schlossman, D., Withers, D., Welsh, A., Alexander, A., Robertus, J., and Frankel, A. (1989) Role of glutamic acid 177 of the ricin toxin A chain in enzymatic inactivation of ribosomes. Mol. Cell. Biol. 9: 5012-5021.

15. Yu, Y.H., Schlossman, D.M., Harrison, C.L., Rhinehardt-Clarke, A., Klug, T.L., Soper, J.T., Zurawski, V.R., and Bast, R.C., (1991) Coexpression of different antigenic markers on moieties that bear CA 125 determinants. Cancer Res. 51: 468-475.

16. Rodriguez, G.C., Berchuck, A., Whitaker, R.S., Schlossman, D.M., Clarke-Pearson, D.L., and Bast, R.C. (1991) Epidermal growth factor receptor expression in normal ovarian epithelium and ovarian cancer. II. Relationship between receptor expression and response to epidermal growth factor. Am. J. Obstet. Gynecol. 164: 745-750.

17. Budman, D.R., Petroni, G.R., Johnson, J.L., Cooper, M.R., Schlossman, D.M., Barcos, M., and Peterson, B.A. (1997) Phase II trial of docetaxel in non-Hodgkin’s lymphomas: A study of the Cancer and Leukemia Group B. J. Clin. Oncol. 15:3275-3279.

18. Krenn, L.P. and Schlossman, D.M. (2017) Point Counterpoint: Have Electronic Health Records Improved the Quality of Patient Care? Physical Medicine and Rehabilitation 9: S41-S50.

***Presentations***

1. Schlossman, D., Masson, L., Cheng, J., Newman, B., Whittenburg, L., et al. (2019) The HL7 Reducing Clinician Burden Project. Presentation at the AMDIS Physician Computer Connection Symposium, Ojai, CA, June 19, 2019
<https://amdis.org/amdis-2019-pcc-symposium-presentations/>
2. Schlossman, D.M. and Staggers, N. (2016) Five Usability Barriers Preventing Health IT From Supporting Clinician Needs. HIMSS News Blog Post June 16, 2016. <https://www.himss.org/news/five-usability-barriers-preventing-health-it-supporting-clinician-needs>
3. Schlossman, D.M. and Staggers, N. (2016) 2016 Predictions for Health IT Usability. HIMSS Physician Community monthly Webinar, March 2016., <http://www.himss.org/ResourceLibrary/genResourceDetailWebinar.aspx?ItemNumber=47585>
4. Schlossman, D.M. (2015) Can Physicians become Empowered Consumers? Challenges of EHR Usability testing in a Community Hospital. Invited presentation at the 2015 International Symposium on Human Factors and Ergonomics in Health Care, Baltimore, MD, April 28, 2015.
<https://www.slideshare.net/schlodm/challenges-of-summative-usability-testing-hfes15-shared>

1. Schlossman, D.M. (2015) Challenges of Summative EHR Usability Testing in a Community Hospital Setting. Poster presentation at the Physician IT Symposium, HIMSS 2015 National Meeting, Chicago, IL, April 12, 2015 <http://www.himssconference.org/event.aspx?ItemNumber=36660>
2. Schlossman, D.M. and Schumacher, R.L. (2014) Results of the HIMSS physician EHR usability pain point survey. HIMSS Physician Community monthly Webinar, June 2014., <http://www.himss.org/ResourceLibrary/genResourceDetailWebinar.aspx?ItemNumber=30524> .
3. Schlossman, D.M. (2014) The challenges of EHR usability testing in a community hospital setting. HIMSS HIT Usability Community monthly Webinar, May 2014, <http://www.himss.org/Events/EventDetail.aspx?ItemNumber=29727> .
4. Schlossman, D.M. (2012) Website and Informatics e-Portfolio, <https://www.medinfodoc.net/>
5. Schlossman, D.M., Schmid, S.L., Braell, W.A., and Rothman, J.E. (1983). Factors related to the clathrin coated vesicle cycle. (abstract) J. Cell. Biochem. Suppl. 7B: 334. Presented at the 1983 Keystone Cell Biology meeting.
6. Schlossman, D.M., and Bell, R.M. (1976) Similarity of the sn-glycerol-3-phosphate and dihydroxyacetone phosphate acyltransferase activities from isolated fat cells. (abstract) Fed. Proc. 35: 1724. Presented at the 1976 meeting of the Federation of American Societies for Experimental Biology.