

Curriculum Vitae -- Aron C. Sousa, MD  
March 2020

Aron Sousa, M.D.

**Secchia Center Office**  
15 Michigan St. NE  
Grand Rapids, MI 49503

**Fee Hall Office**  
965 Wilson Rd., Rm A-118  
East Lansing, MI 48824

**Positions**

**Current**

Interim Dean, College of Human Medicine, Michigan State University, 10/2019 - present

Professor of Medicine, Division of General Internal Medicine, Health Professions Track,  
College of Human Medicine, Michigan State University, 2016-present

**Previous**

Senior Associate Dean for Academic Affairs, College of Human Medicine, Michigan  
State University, 4/2007 to 8/2015 and 10/2016 to 10/2019.

Interim Dean, College of Human Medicine, Michigan State University, 8/2015 – 10/2016

Interim Director, Division of Public Health, College of Human Medicine, Michigan State  
University, June 2016-July 2017

Associate Professor of Medicine, Division of General Internal Medicine, Health  
Professions Track, College of Human Medicine, Michigan State University, 2007 – 2016

Acting Associate Dean for Academic Affairs, College of Human Medicine, Michigan  
State University, 9/2005 to 4/2007

Assistant Professor of Medicine, Division of General Internal Medicine, Health  
Professions Track College of Human Medicine, Michigan State University, 1999-2007

Key Faculty, MSU Internal Medicine Residency, 1999-2005

AOEC Great Lakes Scholar, Association of Occupational and Environmental Clinics,  
2001-2002

**Training and Education**

Primary Care Fellowship

Primary Care Faculty Development Fellowship

Michigan State University - OMERAD

Academic year 1999-2000

Chief Resident

Michigan State University Internal Medicine Residency, East Lansing, MI  
July 1998 through June 1999  
Residency  
Michigan State University Internal Medicine Residency, East Lansing, MI  
July 1996 - June 1999  
Medical School  
Indiana University School of Medicine, Indianapolis, IN  
M.D., 1996  
Undergraduate  
Indiana University, Bloomington, IN  
B.S. Chemistry - Honors, 1992

### **Administration**

**Interim Dean**, College of Human Medicine, Michigan State University - August 2015-  
October 2016 and October 2019-present

Major responsibilities – stewardship of education, research, clinical, community and development activities of the Michigan State University College of Human Medicine. \$20M in fundraising toward the Grand Rapids Research Center.

**Senior Associate Dean for Academic Affairs** (contiguous with role as Acting Assoc. Dean - September 2005-August 2015 and October 2016 – October 2019)

Responsibility for College of Human Medicine Undergraduate Medical Education (including admissions, post-baccalaureate programs, advanced admissions programs, student affairs, curriculum, two preclinical campuses, and seven community campuses), Continuing Medical Education, graduate studies (CHM MA, MS, MPH, PhD programs and dual degrees MD/PhD, MD/MPH, MD/MBA), Graduate Medical Education, Office of Medical Education Research and Development, CHM teaching assignments, and Academic Affairs operations.

**Interim Director Division of Public Health (June 2016 – July 2017)** Responsibility for budget, HR, educational programs, recruiting and hiring faculty, managing the division, partnership with Hurley Medical Center on the Pediatric Public Health Initiative.

### **Major Projects**

New MD Curriculum – Shared Discovery Curriculum. Creation of a new medical school curriculum with implementation of a learning community model around three clinical experiences (Early, Middle, and Late). Responsibility for educational philosophy, pedagogical design, budget and project implementation. Pilot in 2013 and implementation Fall 2016.

CHM won the American Association of Medical Colleges (AAMC) Spencer Foreman Award in 2016 for work we did in Flint and rural communities. Application Spring 2016, Site visit and notification of award July 2016; award ceremony November 2016

Flint Expansion - Principle Investigator and lead administrator for \$30 million overall project, including responsibility for program design, community engagement, building design, community hospital negotiations, and foundation funding. As of Fall 2018 sixteen faculty have been hired who have a total of \$35M in in-hand NIH funding with \$53M in total external funding, and have made important contributions to understanding the 2014-16 lead exposure of children due to contaminated drinking water.

Led MSU effort to create Pediatric Public Health Initiative in response to the Flint water lead crisis. The Initiative is directed by Dr. Mona Hanna-Attisha, housed in the CHM Public Health Division and is a collaboration of Michigan State University with Hurley Medical Center, Genesee County Health department, and State of Michigan Department of Health and Human Services. The Initiative was announced January 14, 2016. <http://humanmedicine.msu.edu/pphi/About.htm>

College of Human Medicine Class expansion from 106 students per year in 2006 to 200 per year in 2010 on time and on budget (approximately \$12M) across six communities. The largest, fastest expansion of a LCME school at the time.

New clinical campuses – The college had the same group of six campuses from 1972 until the development of the Traverse City campus beginning in 2007. Responsibility for working with clinical partners, programmatic design, design and supervision of budget and partner contributions, accreditation for Traverse City campus, Midland Regional Campus, and Southeast Michigan Campus (based in Southfield).

#### Major Educational Spaces

- Renovation and lease of Flint Journal Building – Responsibility for negotiation for space with the CS Mott Foundation, schematic design of space, supervision of project. (Complete 2014)
- Secchia Center – Responsibility for programming, schematic design, and design development of 180,000 sq. ft. medical education building. (Complete 2010)
- Renovation of 30,000 sq.ft. for educational program at 234 Division Street, Grand Rapids (Complete 2007)

#### LCME Accreditation Activity

- Successful full survey visits
  - 2014 with one citation out of 133 standards, approval of a new curriculum, and approval of a new clinical campus.
  - 2006 Included 50% increase in class size.
- Creation of new campuses
  - Preclinical campus – Grand Rapids in 2008 Limited Site Visit
  - Clinical Campuses – Traverse City (2009), Midland (2011), Southeast Michigan (2014)
- Class Expansion
  - Overall doubling in class from 100 to 200 per year (2007-2014)
  - Expansion of campuses in Kalamazoo, Flint, Grand Rapids, Upper Peninsula, Lansing

- 2008 LCME Limited Site Visit
- Closing clinical campuses
  - Saginaw (2010)
  - Kalamazoo (2012)
- New educational spaces
  - Secchia Center –180,000 sq. ft. medical education building.
  - Renovation of 30,000 sq.ft. for educational program in Grand Rapids (2006)
- New Curriculum (2014)

New MD/PhD Program with community collaboration/funding. Conceived of funding partnership and completed successful negotiation with community hospitals to support program funding and 8-year student fellowships. Work includes creation and direction of steering committee, faculty and director hiring, curricular modification and management. First students admitted in fall 2008.

New MPH program and MD/MPH. Responsibility for implementation, faculty and director hiring, budget management, program management, curricular management, faculty governance, and accreditation. First class Fall 2008. Currently 300 students in the program.

Curricular Development of UME-GME competency. Creation of the college's Service-Care of Patients-Rationality-Integration- Professionalism- Transformation (SCRIPT) competencies which tie the UME curriculum directly to the six ACGME competencies.

Gateway Assessment Program – Pilot of new high stakes Objective Structures Clinical Examinations of end MS2's and early MS4's on Care-of-patients/Patient Care, Rationality/Practice-Based-Learning-and-Improvement, Integration/Systems-Based-Practice competencies.

Committee on Diversity in Education (CODE) – Created a faculty and student committee to review the college's curriculum and culture and improve the college's programs and social environment. Has resulted in changes in standardized patient cases, PBL cases, Standardized patient recruiting, student community service projects.

#### New MD Certificate Programs

- Leadership in Underserved Curriculum – Implementation and supervision of certificate program which provides students leadership training, systematic training in care of the underserved throughout MS3 year and 10 weeks of international care of the underserved in Central America. 18-25 students per year
- Rural Community Health Program – Integrated rotations for each clinical rotation in a single community for interested students. 12-18 students per year
- Rural Physician Program – Upper Peninsula certificate which includes 12 weeks of rural experience. 12 students per year
- Public Health Certificate in which MD students complete the first 18 credits of the MPH over their four years of medical school. 12-20 students per year

- Research Certificate – approved 2019 with implementation in Fall 2020

## **Teaching**

### MSU College of Human Medicine – Medical Undergraduates

Daniel Hale Williams Learning Society Fellow 2017-present

Lead Fellow for 8-member small group meeting 1-2 times a week

Simulation Precepting 2017-present

### Clinical

Yearly clinical teaching as clinic and hospital preceptor 1999-present

Clerkship Director - Advanced Medicine Clerkship 2000 – 2003

Acid-Base Core Competency Workshop – Lansing  
2003-2015

Spring 2005 DKA lecture (on-line) Advanced Medicine Clerkship in all communities used 2005-06 and 2006-07.

### Pre-clerkship

Electrolytes Large Group Activity Series 2017-present

Urinary Domain PBL preceptor 2011- 2015

Social Context of Clinical Decision Making – Ethics Preceptor 2000-present (2015)

Pulmonary PBL preceptor 2006- 2010

Clinical Skills – Neurological Examination 2002-2007

Mentor Group Faculty 1999 -2007

Clinical Skills Introduction to Interviewing 2001- 2006

Clinical Skills - Taking an Occupational History 2002-2004

Clinical Skills - Doctor Patient Relationship 2000

Faculty Advisor for MSU CHM Internal Medicine Interest Group, 2000 – 2005

### MSU Undergraduates

Fall 2000 – Spring 2001 Medical Scholars Thematic Component, co-taught with Alice Dreger, Ph.D.

Fall 1998 - LBS 492 - Medical Narratives, co-taught with Alice Dreger, Ph.D.

### MSU Internal Medicine Residency

1999 to present

Hospital Ward Attending 8-10 weeks a year

Teaching Rounds Preceptor 2-6 weeks a year

1999 – 2005 MSU Internal Medicine Residency (0.37 FTE)

- This included:

- New curriculum development (board review course, EBM - Journal Clubs series, Emergencies in Internal Medicine series,

Medical Ethics in the ICU, Professionalism Competency curriculum)

- Rotation management
- Organizing and presenting resident conferences
- Attending duties (ward attending, teaching attending, clinic attending, psychosocial rotation).

## Grants

### Foundation Funding

2011 – 2020 CS Mott Foundation “Public Health and Medical Education” supporting the investigation of a complete MD curriculum in Flint, developing a community-participatory research unit in Flint, and expanding the CHM Flint clinical campus. **CS Mott 2010-00741** funded for \$2.1M Role: PI

2013 CS Mott Foundation “Flint Public Health and Medical Campus Endowment” endowment creation grant supporting the creation of a Community Participatory Research Unit in Flint focused on Public Health. **CS Mott 2012-00441** funded for \$9.0 M Role:PI

### Federal Funding

2007-2009 PI Mary Nettleman “Travel Medicine Education Tools for Medical Students and Healthcare Professions” MM-1017-08108 Role: Faculty

2005-2008 HRSA Primary Care Training Grant **19-324-7145** PI Mary Noel “Gateway Assessments in UME through Family Practice” Role: co-PI

2003-2005 Co-PI and author of competitively funded HRSA Primary Training Grant Supplement 3D16HP00119-02 funded for \$280,000. PI David Solomon. Funded for the development and piloting of a Simulated Practice. The pilot was successfully completed in April 2005.

## Service

### Committee Service as Interim Dean of the College of Human Medicine

MSU Council of Deans

MSU Health Team Governance Board

University Council

College Advisory Council

College Executive Committee

Senior Associate Deans

Heads of Programs

Deans Student Advisory Council

### Committee Service as Senior Associate Dean

College of Human Medicine Committees (2007-15, 2017-present): College Executive Committee, Heads of Programs, Senior Associate Deans, Deans Staff, Community Assistant Deans (chair),  
Ex officio on College Advisory Council, Curriculum Committee (Vice Chair), Graduate Studies (Vice-Chair), Block I committee, Block II committee, Block III committee, Deans Student Advisory Council, Student Performance Committee, Secchia Center Steering Committee, Secchia Center Education Sub-committee (chair), Health Information Technology Steering Committee, University Council (dean's designee), ad hoc committees of LCME Task Force for 2006 and 2014 site visits, ad hoc committees of the Shared Discovery Curriculum Design Group.

### Board Service

Greater Flint Health Coalition (2017-present)  
East Lansing Historic District Commission (February 2015- present)  
Upper Peninsula Health Education Corporation Board of Directors and Executive Board (2005-present)  
MSU Flint Area Medical Education, Inc. Board of Directors and Executive Board (2005-present)  
The Right Place Board of Directors 2015-2016 (Grand Rapids economic development corporation)  
Grand Rapids Medical Education Partners – ex officio on Board of Directors 2015-2016  
Grand Rapids Medical Education and Research Corporation Voting Board and Board of Directors 2005-2010  
MSU Kalamazoo Center for Medical Studies Board of Directors and Executive Board, (2005-2012)  
Synergy Board of Directors 2005-2010 (Saginaw community corporation)  
Intersex Society of North America (Vice President Board of Directors) 1998-2000  
Intersex Society of North America Medical Advisory Board 2004 -2006

### Previous Institutional Service

#### Departmental

Internal Medicine Interest Group Faculty Advisor (2000-05)  
Director - Residents as Teachers Day 2002, 2003, 2004, 2005  
Department of Medicine Executive Committee 2001-03  
Department of Medicine Medical Education Committee 2002-05  
Clinic Director, IRMC Pennsylvania Campus Resident Clinic 2004

#### College

College of Human Medicine Curriculum Committee (member 2000-2005)  
Chair 2003-4 and 2004-5  
Block III Committee (2002-04)  
CHM Student Scholarship Rating Committee (2005-06)  
Virtual Practice Program Committee and Project Manager (2003)  
Electronic Medical Record Steering Committee (2003)  
Innovations in Medical Education Dean's Task Force (Competency Working Group Chair) – 2002

Information Management – Steering Committee Member (2002-03, 2003-04)  
Block 3 development  
NBME Stemmler Grant Team (with Henry Barry and Chris Reznich PI)  
(2003)

Other University

University Awards Committee (2007, 2008, 2009, 2010)  
President’s University Awards Committee (2006, 2007)  
President’s Grand Rapids Oversight Committee (2004-5)

**Other Professional Service**

AAMC Spenser Forman Award for Outstanding Community Service Selection  
Committee 2017 and 2018  
AAMC Council of Deans 2015-16 and 2019-present  
AAMC Core Entrustable Professional Activities for Entering Residency (CEPEAR Pilot)  
CHM team leader and member of CEAPAR steering committee 2014-2018  
AAMC Axis DSD Health Committee 2015-2016  
LCME Site Survey Team Member October 2015  
LCME Site Survey Team Member February 2015  
LCME Site Survey Team Member September 2012  
LCME Site Survey Team Member April 2012  
LCME Site Survey Team Member March 2011  
LCME Site Survey Team Member March 2010  
AAMC UME Cost Estimator Tool Curriculum Panel 2013  
AAMC GEA Session reviewer 2010  
ACP Michigan Chapter Associates Abstract Review Board 2000-2011  
ACP Michigan Chapter Scientific Meeting Poster Judge 2005, 2007  
ACP Michigan Chapter Student Meeting – Presenter 2007  
Founding Board Member - Intersex Society of North America (ISNA) 1998 – 2000  
AMA Medical Education Section college representative (2006-2014)

Memberships:

American College of Physicians  
AMA Medical Education Section  
Intersex Society of North America  
AAMC  
AAMC Central Group on Educational Affairs

**Honors and Awards**

University

Michigan State University Teacher Scholar Award 2006

College

CHM Student National Medical Association Faculty and Staff Award 2007  
College of Human Medicine Teacher Scholar Award 2005



Department/Hospital

Public Health Champion Award 2019 Division of Public Health College of Human  
Medicine

Excellence in Teaching Internal Medicine 2005 from MSU Internal Medicine Residents

Excellence in Teaching Internal Medicine 2003 from MSU Internal Medicine Residents

Outstanding Educator 2002, MSU-CHM Department of Medicine

Excellence in Teaching Internal Medicine 2001 from MSU Internal Medicine Residents

Outstanding Resident Teaching Award from the Lansing CHM Class of 2000

Internal Medicine Residency Outstanding Senior Award 1999

Sparrow Hospital Outstanding Intern Award 1996-97

MSU Internal Medicine Outstanding Intern Award 1996-97

AOA (MSU)

Phi Beta Kappa

### **Licensing and Certification**

Board Certified Internal Medicine – 1999, re-certified 2009 and 2019

State of Michigan Physician License

### **Major Media**

**2020**

- “Itching to get back in”: Medical students graduate early to join the fight” Quoted in AAMC News <https://www.aamc.org/news-insights/itching-get-back-medical-students-graduate-early-join-fight>

**2019**

- “How Hard Is the Medical School Curriculum?” quoted in US News and World Report April 18, 2019 <https://www.usnews.com/education/best-graduate-schools/top-medical-schools/articles/2019-04-18/how-hard-is-medical-school-and-what-is-the-medical-school-curriculum>

**2017**

- “Gauging the real risks and benefits of a medical procedure” quoted in The Baltimore Sun August 17, 2017 <http://www.baltimoresun.com/news/opinion/oped/bs-ed-op-0818-waseful-spending-health-20170816-story.html>
- “When Evidence Says No, but Doctors Say Yes” quoted in The Atlantic-Feb 22, 2017 <https://www.theatlantic.com/health/archive/2017/02/when-evidence-says-no-but-doctors-say-yes/517368/>
- “MSU med school reinvents curriculum” January 20, 2017 <http://www.grbj.com/articles/87094-msu-med-school-reinvents-curriculum>

**2016**

- “College of Human Medicine honored nationally for community service” Nov. 14, 2016 <http://msutoday.msu.edu/news/2016/college-of-human-medicine-honored-nationally-for-community-service/>
- “Construction Tour of MSU Grand Rapids Research Center” September 17, 2016 televised tour of the new building <http://woodtv.com/2016/09/17/construction-tour-of-msu-grand-rapids-research-center/>
- “New MSU Curriculum Gets Med Students in Front of Patients Early On” MiBiz July 24, 2016 quoted regarding the Shared Discovery Curriculum <https://mibiz.com/item/23846-new-msu-curriculum-gets-med-students-in-front-of-patients-early-on>
- “How cases like Flint destroy public trust in science” Washington Post | January 27; Quoted on the importance of academic researchers to ensure that science is part of the public good. <https://www.washingtonpost.com/news/energy-environment/wp/2016/01/27/how-cases-like-flint-destroy-public-trust-in-science/>
- “Pediatric Public Health Initiative” KCBS FM | January 25; Live interview with KCBS about Pediatrics Public Health Initiative and interventions for Flint children exposed to lead. <http://humanmedicine.msu.edu/News/2016/01.25.16%20-%20KCBS%20Radio%20-%20Sousa%20interview%20on%20Flint%20water.mp3>
- “Flint residents and the struggle for clean water” NBCNews.com | January 23; Interview regarding the Michigan State University-Hurley Pediatric Public Health Initiative. <http://www.nbcnews.com/news/nbcblk/flint-residents-struggle-clean-water-n502456>
- “Flint Water Crisis: What's being done to help children exposed to lead” ABC News | January 19; quoted on the activity of the MSU Pediatric Public Health Initiative in Flint. <http://abcnews.go.com/Health/flint-water-crisis-children-exposed-lead/story?id=36376739>
- Pediatrics Public Health Initiative – Live interview WOOD TV-8 Grand Rapids January 19 <https://www.youtube.com/watch?v=tfqMUDmZLgM>
- “New farmers market, MSU medical school growing Flint's downtown redevelopment” Crain's Detroit Business | January 9 Quoted on the expansion of the MSU's College of Human Medicine in Flint. <http://www.craigslist.com/article/20160109/NEWS/160109875/new-farmers-market-msu-medical-school-growing-flints-downtown> | Related: [Becker's Hospital Review](#)

## 2015

- “Dean Sousa discusses new Grand Rapids Research Center” WGVU's The Morning Show | December 7; live interview on the Morning Show

- to discuss the new MSU Grand Rapids Research Center  
<http://wgvunews.org/post/msu-college-human-medicine>
- “MSU celebrates milestone for new research center”  
 Grand Rapids Press | December 6; quoted about MSU Grand Rapids Research Center topping off ceremony.  
<http://humanmedicine.msu.edu/News/Archive/2015/12.06.15-GRPress-ToppingOffCeremony.pdf>  
 Related - <http://www.grbj.com/articles/83919-msu-tops-off-downtown-research-center>
  - MSUToday | November 19 <http://msutoday.msu.edu/news/2015/construction-milestone-achieved-for-msu-grand-rapids-research-center/>
  - Southbend Tribune [http://www.southbendtribune.com/news/local/msu-biomedical-research-center-moves-ahead/article\\_8d244d45-5870-5ea5-af9e-62c8a767020f.html](http://www.southbendtribune.com/news/local/msu-biomedical-research-center-moves-ahead/article_8d244d45-5870-5ea5-af9e-62c8a767020f.html)
  - FOX17 <http://fox17online.com/2015/11/19/final-beam-placed-on-new-msu-research-building/>
  - Fox 47 News <http://www.fox47news.com/we-are-spartans/construction-milestone-achieved-for-msu-grand-rapids-research-center>
  - “MSU rolls with the changes amid dispute between Spectrum, Mercy Health Saint Mary's”  
 MiBiz | October 25; quoted in a story about the changes in the residency consortium in Grand Rapids. <http://mibiz.com/item/23005-reporter-s-notebook-msu-rolls-with-the-changes-amid-dispute-between-spectrum,-mercy-health-saint-mary%E2%80%99s>
  - “MSU med students don white coats to begin journey to become doctors”  
 MLive | August 31; quoted in story about Michigan State University College of Human Medicine’s Rural Community Health Program in mid-Michigan and the Thumb area. [http://www.mlive.com/news/grand-rapids/index.ssf/2015/08/msu\\_med\\_students\\_don\\_white\\_coa.html](http://www.mlive.com/news/grand-rapids/index.ssf/2015/08/msu_med_students_don_white_coa.html)  
 Related: [Grand Rapids Press](#)
  - “More medical school grads means more competition for clerkships”  
 Crain's Detroit Business | August 9; quoted in story about the Michigan State University partnership on a seventh campus with Providence Hospital in Southfield, MI. <http://humanmedicine.msu.edu/News/Archive/2015/08.09.15-Crains-More-medical-school-grads-means-more-competition-for-clerkships.pdf>
  - “MSU, Providence Hospital to establish medical school campus”  
 Crain's Business Detroit | July 21; quoted in story about the partnership creating the MSU College of Human Medicine's seventh community campus, the East Lansing school said Tuesday. Providence Hospital is part of St. John Providence. <http://www.crainsdetroit.com/article/20150721/NEWS01/150729968/msu-providence-hospital-to-establish-medical-school-campus>  
 Related: [Detroit News](#), [Cincinnati Enquirer](#)
  - “Coaching the coaches”  
 Grand Rapids Press | July 5; quoted in story about team building exercise for all Michigan State University head coaches.

<http://humanmedicine.msu.edu/News/Archive/2015/07.05.15-GRPress-Coaching-the-coaches.pdf>

**Publications (peer review)**

"Michigan State University College of Human Medicine" Wagner DP, Mavis B, **Sousa A** Acad. Med. Accepted for September 2020 Snapshots Supplement

“Learning about medical student mistreatment from responses to the medical school graduation questionnaire.” Mavis B, **Sousa A**, Lipscomb W, Rappley MD. Acad Med. 2014 May;89(5):705-11. doi: 10.1097/ACM.000000000000199.

“Documenting clinical performance problems among medical students: feedback for learner remediation and curriculum enhancement.” Mavis BE, Wagner DP, Henry RC, Carravallah L, Gold J, Maurer J, Mohmand A, Osuch J, Roskos S, Saxe A, **Sousa A**, Prins VW. Med Educ Online. 2013 Jul 22;18:20598. doi: 10.3402/meo.v18i0.20598.

“The College of Human Medicine at Michigan State University: Expansion and Reinvention” Mavis, Brian; **Sousa, Aron MD**; Osuch, Janet MD; Arvidson, Cindy PhD; Lipscomb, Wanda PhD; Brady, Judy PhD; Green, Wrenetta MS SpED; Rappley, Marsha D. MD Acad Med. 2012;87:12 p1705-1709 (doi: 10.1097/ACM.0b013e318271f8c6)

“Using a problem-based learning case to facilitate curriculum redesign” Brian Mavis, Dianne Wagner, **Aron Sousa** & Kerry Polizzi Medical Education 2012; 46: 1108-1109

“Better Data for Learners, Better Patient Care: College-Wide Assessment at Michigan State University College of Human Medicine” **Sousa, A.**, Wagner, D., Henry, R, Mavis, B., Medical Education Online 2011;16:5926 (DOI:10.3402/meo.v16i0.5926)

“Michigan State University College of Human Medicine.” **Sousa A**, Wagner D, Rappley M. Acad Med. 2010 Sep;85(9 Suppl):S287-91. doi: 10.1097/ACM.0b013e3181e914c6.

“The Contextual Influence of Professional Culture: Certified Nurse-Midwives' Knowledge of and Reliance on Evidence-based Practice” Bogdan-Lovis, EA and **Sousa, A.** *Soc Sci Med.* 2006 Jun;62(11):2681-93.

“Changing the Nomenclature/Taxonomy for Intersex: A Scientific and Clinical Rationale” Dreger A, Chase C, **Sousa A**, Gruppuso P, Frader J J. *of Pediatric Endocrinology & Metabolism* 2005;18(8)

“Handheld Computing by Resident Physicians: Enhancing Performance and Demonstrating Competence “**Aron Sousa** and Michael Zaroukian *Seminars in Medical Practice* 2003; 6(1) pp21-32

“Handheld Computing in Graduate Medical Education: Supporting Residency Program Director Effectiveness,” Michael Zaroukian and **Aron Sousa** *Seminars in Medical Practice* 2002; 5(4) pp33-44

“Highly Efficient and Practical Syntheses of Lavendamycin Methyl Ester and Related Novel Quinolindiones” Mohammad Behforouz, Jalal Haddad, Wen Cai, Macklin B. Arnold, Farahnaz Mohammadi, **Aron C. Sousa**, and Mark A. Horn *J. Org. Chem.*, 61 (19), 6552 -6555

“Reduction of a,b Unsaturated Ketones and Aldehydes by Tungsten-Tungsten Triple Bonds: Formation of 1,2 and 1,4 adducts as opposed to C=O cleavage” Malcolm H. Chisholm, Eric A. Lucas, **Aron C. Sousa**, John C. Hoffman, Kirsten Folting, Emil Lobkovsky and William E. Streib, *J. Chem. Soc. Chem. Commun.*, 1991, 847

“On the Nature of the Olefination Reaction Involving Ditungsten Hexaalkoxides and Aldehydes and Ketones” M.H. Chisholm, J.C. Huffman, E.A. Lucas, **A.C. Sousa**, W.E. Streib, *J. Am. Chem. Soc.*, 1992, 114, 2710-2712

#### **Book Chapter**

**Sousa, Aron** “The Flint Water Crisis” *Bioethics in Action* ed. Francoise Baylis and Alice Dreger: Cambridge: Cambridge University Press, 2018 pp150-168

#### **Clinical Guidelines**

Contributor to *Clinical Guidelines for the Management of Disorders of Sexual Differentiation in Childhood*. Produced by The Consortium on the Management of Disorders of Sexual Differentiation. June 2005

#### **Published Abstract**

“Practice Simulator: Pilot of a Web-Based Electronic Medical Record Practice Simulator” **Aron Sousa**. *Teaching and Learning in Medicine* 2006; 19(2) pp173-4

#### **Non Peer-Reviewed**

“The Flint Water Scandal: The Role of Public Universities” **Aron Sousa** *Newsweek* January 26, 2016 <http://www.newsweek.com/flint-water-scandal-role-public-universities-419796>

“Jane Addams: A Bad Girl Good for Training Doctors” **Aron Sousa**, MD *Atrium* special issue “Bad Girls” Winter 2014 No. 12 pp16-17

“The Difference between Science and Technology in Birth.” **Sousa AC**, Dreger A. *Virtual Mentor*. 2013 Sep 1;15(9):786-90. doi:10.1001/virtualmentor.2013.15.9.msoc1-1309. PMID: 24021109

“The OHRP and SUPPORT--another view.” Macklin R, Shepherd L, Dreger A, Asch A, Baylis F, Brody H, Churchill LR, Coleman CH, Cowan E, Dolgin J, Downie J, Dresser

R, Elliott C, Epright MC, Feder EK, Glantz LH, Grodin MA, Hoffman W, Hoffmaster B, Hunter D, Iltis AS, Kahn JD, King NM, Kraft R, Kukla R, Leavitt L, Lederer SE, Lemmens T, Lindemann H, Marshall MF, Merz JF, Miller FH, Mohrmann ME, Morreim H, Nass M, Nelson JL, Noble JH Jr, Reis E, Reverby SM, Silvers A, **Sousa AC**, Spece RG Jr, Strong C, Swazey JP, Turner L. *N Engl J Med*. 2013 Jul 11;369(2):e3. doi: 10.1056/NEJMc1308015. Epub 2013 Jun 26. PMID:23803134

“The Dex Diaries, Part Four: A Perpetual Motion Machine of NIH Funding?” **Aron Sousa** in *Psychology Today* <http://www.psychologytoday.com/blog/fetishes-i-dont-get/201208/the-dex-diaries-part-four-perpetual-motion-machine-nih-funding> ; Aug 2, 2012

Alice Dreger and **Aron Sousa** "In Our Own Image," *The Realist*, no.136, Summer 1997 pp2-3

[ELi on Earth](#) a nearly weekly column (more than 60 articles) in EastLansingInfo.org (2012, 2014-16)

### **Invited Presentations**

**Sousa, A** “Epistemology, Evidence, and Honesty in the Practice of Medicine” Keynote, American College of Physicians – Michigan Chapter Resident and Students Day 2019, Warren, Michigan, May 3, 2019

**Sousa, A**, “Entrustable Professional Activities: Can They Help Us Better of professional activities and competency-bas Educate Our Students?” Opening Plenary 85<sup>th</sup> Annual NABP/AACP District IV Meeting, November 7, 2018 Grand Rapids, Michigan

**Sousa, A**, “Shared Discovery Curriculum” Plenary Dean’s Assistants Group Spring Meeting, April 14, 2018 Grand Rapids, Michigan

**Sousa A**, “Building Workforce for the Scientific Safety Net: Lessons from Flint”, Keynote Address - 13<sup>th</sup> Annual AAMC Health Workforce Research Conference, May, 4 2017 Arlington, Virginia

**Sousa, A**, “Improving Healthcare” Legislative Leadership Program Plenary, New Legislator Program, December 6 , 2016 Henry Center, Lansing ,Michigan

**Sousa A.**, “Flint Water Crisis and More: Community Engagement at the MSU College of Human Medicine” Big Ten Academic Alliance Academic Leadership Program, invited presentation to the fellows, Bloomington, IN, November 4, 2016

T. Ihring, J. Mulder, **A. Sousa**, J. Bonner, G. Harriman, “When Will Doctors Listen to Patients, “ Trillium Institute, Grand Rapids, March 23, 2016

### **Scholarly Presentations**

Laird-Fick H, Emery M, Wagner D, DeMuth R, Gold J, Mavis B & **Sousa A**. Progress testing of knowledge and skills for medical school grading and promotion. Poster presented at the annual meeting of the Association of American Medical Colleges Group on Educational Affairs, Phoenix AZ, November 11, 2019.

C. Parker, W. Lipscomb, D. Wagner, **A. Sousa**, “Strategies for Promoting Positive Educational Environment Free from Discrimination” AMA Change Med, September 2019, Chicago, IL

B. Mavis, D. Wagner, **A. Sousa**, M. Thompson, H. Laird Fick, “Residency Director Ratings of Core Entrustable Professional Activities for New Residents: A Pilot Study for Medical School Curriculum Evaluation” AAMC Medical Education Meeting, November 2015

**Sousa, A** “CHM New Curriculum: Pilot of an Early Clinical Experience” MSU Internal Medicine Grand Rounds. Lansing September 10, 2013

Mavis, B., Wagner, D., **Sousa, A.**, and Polizzi, K., Using a Problem-Based Learning Case to Facilitate Curriculum Redesign, Central Group on Educational Affairs annual meeting, St. Louis, March 30, 2012

Mavis, B., and **Sousa, A.**, “Medical Students’ Opinions about Medical School Expansion: Perceived Positive and Negative Effects”; Research in Medical Education, AAMC National Meeting, Denver, CO; Nov. 7, 2011

**Sousa, A** “Medical Education and The College of Human Medicine”; Testimony before the National Advisory Committee on Rural Health and Human Services, HHS; Traverse City, MI; June 15, 2011

Dianne Wagner, Brian Mavis, **Aron Sousa**, Rebecca Henry “Putting Teeth into Assessment: Driving a Renewed Curriculum”; Innovations in Medical Education, AAMC National Meeting, Boston, MA; Nov. 8, 2009.

Brian Mavis and **Aron Sousa**, “First Year Medical Students’ Opinions about the Impact of Medical School Expansion: A Comparison of Two Cohorts” Poster presented at the annual meeting of Research in Medical Education, Association of American Medical Colleges, Boston, MA Nov. 9, 2009

Brian Mavis and **Aron Sousa** “Monitoring Climate Change: Medical Student Experience of Medical School Expansion”; Central Group on Educational Affairs of the AAMC; Spring Meeting, Rochester, MN; March 27, 2009

Heather Hageman, MBA, **Aron Sousa, MD**, John X. Thomas, Jr. PhD “LCME Best Practices”; Central Group on Educational Affairs of the AAMC; Spring Meeting, Columbus, OH; April 12, 2008

**Aron Sousa, MD** “Making the Medical Mile”; invited plenary, Tradeline Academic Medical Centers 2007 Conference, San Diego, CA; Dec 3,2007

Michael Lauber and **Aron Sousa, MD** “Integrating Medical Education Facilities into the Larger Health Science Complex”; reviewed forum, Tradeline Academic Medical Centers 2007 Conference, San Diego, CA; Dec 3-4 ,2007

**Aron Sousa, MD** “What Are Doctors For?”; invited presentation to medical students, Indiana University School of Medicine, Bloomington Campus; Bloomington, IN; Nov. 12, 2007

Brian Mavis, PhD Discussants: Debra L. Klamen, MD, MHPE, William B. Jeffries, PhD, **Aron Sousa, MD** GEA/GSA Small Group Discussion “Assessing Medical Student Competence: Resource Limitations Versus Institutional Priorities” ; AAMC National Meeting; Washington, DC, Nov. 5, 2007

**Aron Sousa** “Patient Panel Simulation Using the MSU EMR: Pilot” National Meeting Clerkship Directors of Internal Medicine, Portland OR., Research plenary Oct 21, 2005

**Aron Sousa** “Simulated Practice on the MSU EMR” MSU Internal Medicine Grand Rounds. June 7, 2005

**Sousa, A.**, MSU Faculty Development Workshop – Marquette, MI “Using a PDA in Medical Education” May 16<sup>th</sup>, 2005

Gary Ferenchick and **Aron Sousa** MSU Faculty Development Workshop – Lansing “Strategies for Effective Clinical Precepting”

**Sousa, A.**, MSU Faculty Development Workshop – Grand Rapids “Using a PDA in Medical Education”, May 21, 2004 and Lansing, MI May 14, 2004

**Sousa, A.**, MSU Faculty Development Workshop “Assessing Diagnostic Reasoning” May 14, 2004, Henry Center, Michigan State University

**Sousa, A.**, OMERAD Faculty Development Seminar “Handheld Computing for Physicians” Feb 10, 2004

**Sousa, A.**, “MSU Virtual Practice: 3 Pilots” MSU Medicine Grand Rounds Presentation, Oct. 7, 2003

**Sousa, A.**, “Development of a Practice-based Medicine Simulator” Poster Presentation at Oct. 2003 meeting of the Clerkship Directors of Internal Medicine

**Sousa, A.**, MSU Faculty Development Workshops “RIME” and “Using a PDA to Teach Medical Students” Both May 5, 2003 Henry Center, Michigan State University



**Sousa, A.**, “Ethics and Evidence-based Medicine” Sept 24, 2002 Medicine Grand Rounds, College of Human Medicine, Michigan State University, East Lansing, MI

Christopher Reznich and **Aron Sousa**, “Evaluations of Educational Interventions” Workshop SIGM Annual Meeting, May 4, 2002 Atlanta, GA

**Sousa, A.**, “Pocket PC: The Empire Strikes Back” Pre-course for Association of Program Directors in Internal Medicine, April 6 and 7, 2002, Philadelphia, PA

Elizabeth Bogdan-Lovis and **Aron Sousa** “Certified Nurse-Midwives’ Knowledge of and Reliance on Evidence-based Practice.”; Invited paper read at the 9<sup>th</sup> *International Cochrane Colloquium* Plenary Session, “Why Evidence Is Not Used in Practice”, Lyon, France, October, 2001.

**Sousa, A.**, “EBM and Ethics”, oral presentation at Oct 2001 meeting of American Society for Bioethics and Humanities in Nashville, TN

**Aron Sousa**, Othelia Pryor, Michael Zaroukian, Gary Ferenchick, Bob Smith. “What do you do all day...now that you teach in a Medical School: A model for Educational RVUs.” Poster presentation at Oct 2001 meeting of Clerkship Directors in Internal Medicine in Tucson, AZ

**Sousa A.**, “Intersex and the Internist” Medicine Grand Rounds, MSU-Kalamazoo, Aug 29, 2001

**Sousa, A.**, “A Curriculum to Systematically Teach Internal Medicine Residents Core Concepts during Teaching Rounds” Primary Care: Research and Development Conference, June 9, 2000. Kellogg Center, East Lansing, MI

Cheryl Chase and **Aron Sousa**, Intersexuality Grand Rounds Coordinator and Introduction. Medical Grand Rounds, MSU Department of Medicine, 8/00

**Sousa, A.**, “Evidence-based Medicine in Primary Care: EBM in the Community of Physicians” Primary Care Week, MSU Primary Care Week Presentation, 10/17/00

**Sousa, A.**, “Making Room for Nothing” Center for Ethics and the Humanities in the Life Sciences, Brown Bag – Works in Progress Presentation 3/29/00

**Aron Sousa** and Alice D. Dreger "Report on Conference: Families on the Frontier of Dying", Center of Ethics and the Humanities in the Life Sciences - Works in Progress presentation  
Michigan State University, Oct. 27, 1998

A. Yates, **A. Sousa**, N. Rassouli, O. Idachaba "Using evidence-based medicine techniques to learn critical appraisal and solve clinical problems in a resident ambulatory clinic: a pilot study," ACP Associates Meeting 1998, Detroit, MI

**A.Sousa**, E.A Lucas, J.C. Huffman, M.H. Chisholm, "Reactions of  $\alpha,\beta$  Unsaturated Carbonyl Compounds with W-W Triple Bonds in  $W_2(OR)_6$  Compounds"; 201st American Chemical Society National Meeting, Atlanta, Georgia, April 1991