

Kelly C. Sandberg, MD, MSc

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Education and Post-Graduate Education

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|-----------------|--|
| 8/1997 – 4/2004 | <u>B.S.</u> (Biochemistry), <u>B.A.</u> (Russian), Brigham Young University, Provo, UT;
Hiatus for church service mission 5/1998—6/2000 |
| 7/2004 – 5/2008 | <u>M.D.</u> , University of Arizona College of Medicine, Tucson (2004—2006) and
Phoenix (2006—2008), AZ |
| 6/2008 – 6/2011 | Pediatric Residency, Nationwide Children's Hospital / The Ohio State
University, Columbus, OH |
| 7/2011 – 6/2014 | Pediatric Fellowship in Gastroenterology, C.S. Mott Children's Hospital /
University of Michigan, Ann Arbor, MI |
| 7/2012 – 6/2013 | <u>M.Sc.</u> (Health and Health Services Research), University of Michigan, Ann
Arbor, MI. Coursework taken with Robert Wood Johnson Clinical Scholars. |
| 7/2012 – 6/2014 | Fellowship in Pediatric Health Services Research, Child Health Evaluation
and Research (CHEAR) Unit, University of Michigan, Ann Arbor, MI |
| 8/2014 – 1/2015 | Intermediate Improvement Science Series (I ² S ²), Cincinnati Children's
Hospital / Dayton Children's Hospital, Dayton, OH |
| 1/2018 – 4/2018 | Intermountain Healthcare Advanced Training Prog. (ATP), Salt Lake City, UT |

Certification and Licensure

Board Certification: Diplomate of the American Board of Pediatrics

10/2011 General Pediatrics, Board Certified, #682601

11/2017 Pediatric Gastroenterology, Board Certified, #1796

Licensures

8/2008 – 6/2010 Ohio, 57.014806 (Inactive)
3/2011 – 1/2015 Michigan, 4301097801 (Inactive)
1/2010 – 1/1/2020 Ohio, 35.094745 (Active)
2/2014 – 2/29/2020 Controlled Substance License

Academic, Administrative and Clinical Appointments

Academic Appointments

7/2014 – present Assistant Professor in Pediatric Gastroenterology, Wright State University
Boonshoft School of Medicine, Dayton, OH

Administrative Appointments

6/2016—present Chief Medical Quality Improvement Officer, Dayton Children’s Hospital,
Dayton, OH

Clinical Appointments

7/2014 – present Staff Physician in Pediatric Gastroenterology, Dayton Children’s Hospital,
Dayton, OH

Research / Quality Improvement Interests

Care of children with Inflammatory Bowel Disease (IBD). As the U.S. moves towards population management, more questions surrounding hospital care and long-term risks will necessitate a clearer understanding of the processes and care practices currently employed. Please see bibliography (below) for current projects. Areas of focus within IBD include:

1. Quality Improvement
2. Structure and process of hospitalization
3. Immunosuppressant therapies

Current Projects Include:

1. Diagnosis changes in Pediatric Inflammatory Bowel Disease through ImproveCareNow (ICN). This study examines those patients who change diagnoses within the Inflammatory Bowel Diseases. Currently in data analysis. (PI)
2. PRO study through Eli Lilly. This is qualitative study of pediatric patients and their parents in developing patient-reported outcomes. Currently in recruitment. (PI)
3. COMBINE study through ImproveCareNow. This study is a placebo-controlled, double-blind, pragmatic, multi-site randomized clinical trial to compare anti-TNF monotherapy versus combination therapy with low-dose

- oral methotrexate for pediatric patients with IBD. Currently in enrollment. (Site PI)
4. Physician Global Assessment- colonoscopy score study through ImproveCareNow. This is a validation study of using an alternative endoscopic scoring system (to the Simple endoscopic score—SES-CD) for patients with Crohn disease. Currently in data collection. (Reviewer).
 5. QI project: Diagnostic and therapeutic delays in patients with inflammatory bowel disease. Poster accepted.
 6. Clinical Standardization: Co-lead with Dr. Dotson from Nationwide Children’s on a multi-center pilot project regarding further care standardization among eight other ICN centers. Introductory planning and goal setting.
 7. Mucosal Healing Survey: a multi-institutional survey of pediatric and adult gastroenterologists regarding practice patterns surrounding endoscopic surveillance. Currently in planning stages. (Reviewer)
 8. Biochemical Marker Development for Prometheus. (Site Sub-I).

Grants / Awards

7/2012 – 6/2014	T32 HD 7534-13 (PI – Matthew Davis) Competitive NICDH training grant for pediatric health services research fellowship
9/2018 – present	ImproveCareNow Parent Innovation grant. Competitive award for the creation of a shared decision making tool for ostomy surgery candidates and their families.

Membership in Professional Societies

10/2006 – present	Member, American Academy of Pediatrics (AAP)
7/2011 – present	Member, North American Society of Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN)
7/2013 – present	Member, Crohn’s and Colitis Foundation (CCF)
3/2018 – present	Member, Ohio State Medical Association (OSMA)
1/2019 – present	Member, American Gastroenterology Association (AGA)

Peer-review Activities

10/2012 – 6/2014	<i>Ad hoc</i> manuscript reviewer under supervision of Drs. Jeremy Adler and Matthew Davis. <i>J Pediatr Gastroenterol Nutr, J Pediatr, Am J Gastroenterol, Inflamm Bowel Dis, JAMA Pediatr</i>
7/2014 – present	Reviewer, <i>World Journal of Pediatrics</i>
1/2016 – present	Reviewer, <i>World Journal of Gastroenterology</i>
6/2016 – present	Reviewer, <i>PLOS ONE</i>
9/2017 – present	Reviewer, <i>Pediatrics</i>
12/2017 – present	Commentator, audio abstracts, <i>Inflammatory Bowel Diseases</i>
8/2018 – present	Section Editor—Pediatric Gastroenterology, <i>Current Treatment Options in Pediatrics</i>

1/2019 – present Reviewer, *Academy of Strategic Management Journal*
 5/2019 – present Reviewer, *American Academy of Pediatrics* National conference,
 Council on Quality Improvement & Patient Safety (COQIPS).

Teaching Activities

7/2008 – 6/2011 Resident teaching medical students (6 months/yr): 1-2 lectures per week, daily bedside teaching on rounds
 7/2011 – 6/2014 Fellow teaching medical students and residents (5/1/1 months/yr): 1-2 lectures per week, daily bedside teaching on rounds, rotating residents
 8/2014 – present Attending teaching medical students and residents (4-8 weeks/yr): 1-2 lectures per week, daily bedside teaching on rounds
 8/2016 – present Intermediate Quality Improvement Course (IQIC). Development and monthly teaching of an internal quality improvement course at Dayton Children’s Hospital.

A. Mentoring

9/2014 – present Multiple medical students: Aarti Vala, Sean Malarkey, Maryam Shahin, Madison Kavanaugh, Daniella Caudle, Courtney McCall. Work includes Chart reviews, systematic reviews, quality improvement projects, and secondary data analyses.
 1/2015 – present Multiple residents: Morbidity and mortality conference, various topics in general pediatrics, gastroenterology, quality improvement.
 7/2016 – present Personal mentor for multiple hospital professionals (including the Chair of Pediatrics, PICU physician, Director of Patient and Family Experience) as they progress through the hospital’s IQIC course. Also serve as a professional mentor for junior faculty members.
 7/2018 – 3/2019 Chloe Meyer, MS IV residency selection/couples match
 4/2019 – present Harold Duarte, MD, Internal Medicine Resident at Kettering Health. Harold is helping with the research project investigating the diagnosis changes that occur in Inflammatory Bowel Disease.

B. Intramural Lectures to Pediatric Residents

9/2008 Introductory statistics, Columbus, OH
 5/2010 NASPGHAN guidelines of constipation, Columbus, OH
 4/2011 Pornography and Deviant Sexual Behavior, Columbus, OH

4/2011	Morbidity and Mortality Conference, Columbus, OH
8/2013	Vomiting, Upper GI Tract Abnormalities, Ann Arbor, MI
4/2015	Extraintestinal Manifestations of Pediatric IBD, Dayton, OH
7/2015	Vomiting and GI track anomalies, Dayton, OH
12/2015, 12/2016	Malabsorption, Dayton, OH
6/2016, 11/2019	Inflammatory Bowel Disease, Dayton, OH
11/2018, 11/2019	Pediatric liver disease, Dayton, OH

C. Intramural Lectures to Pediatric Faculty & Staff:

9/2011	Alagille Syndrome
10/2011	Small Bowel Bacterial Overgrowth
1/2012	Extraintestinal manifestations of IBD
2/2012	Pediatric Adenocarcinoma
4/2012	Gastric Motility
6/2012	Polyposis syndromes
7/2012	Outcome Disparities in Pediatric GI (RWJ)
9/2012	Intestinal parasites
9/2012	Inflammatory Bowel Disease and Health Services Research
10/2012	Infliximab Dosing Practices
10/2012	Innovation Tournament I (RWJ)
1/2013	Innovation Tournament II (RWJ)
1/2013	Trends in IBD Hospitalizations
2/2013	Developmental embryology/physiology of the liver and bile ducts
3/2013	Complex Hospitalizations
7/2013	Clinical statistics
7/2013	Severe esophagus
8/2013	Morbidity and Mortality conferences
8/2013	Benign perianal disease
9/2013	Metrics of Hospital Burden
4/2014	Health System Compare / Employment Search
6/2014	Trends in IBD Hospitalization II
6/2014	Journal Club—survey of methodology
12/2014	Updates in Inflammatory Bowel Disease
12/2014	Improving Outcomes of Children Hospitalized with IBD
6/2014	Readmission of patients with IBD
1/2015	<u>Grand Rounds</u> -Updates in Pediatric IBD, Dayton, OH
5/2015	ImproveCareNow (ICN)
8/2015	Anti-TNF Therapy in Pediatric IBD
5/2016	Biologic Therapy in Pediatric IBD
10/2016	Nutrition assessment/planning for the hospitalized patient with IBD
11/2016	Nutrition Therapy in Pediatric IBD / ICN Update
1/2017	Chronic Disease Management

4/2017	COMBINE-trial: Pediatric Crohn's Disease Initiating Anti-TNF Therapy
7/2017	Dual Therapy in Pediatric IBD
8/2017	Improving Chronic Disease Mgmt. Through Learning Care Collabor.
11/2017	<u>Grand Rounds</u> - What is Quality Improvement?
1/2018	<u>Grand Rounds</u> -Improving Chronic Disease Mgmt. in IBD
5/2018	Home Biologic Infusions
6/2018	<u>Grand Rounds</u> -Quality Improvement Tools in Pediatrics
8/2018	Mock infusion reactions
1/2019	Clinical Standardization
3/2019	Standardization 2.0
9/2019	Biosimilars

D. Intramural Lectures (Intermediate Quality Improvement Course, IQIC)

8/2016, 8/2017	Process Map for a QI project
8/2016, 8/2017, 8/2018, 8/2019	Deming's System of Profound Knowledge
9/2016, 9/2017, 9/2018, 9/2019	Key Driver Diagrams
10/2016, 9/2018	Introduction to Graphical Representations of QI Data
10/2016, 10/2017	Introduction to PDSA cycles
11/2016, 11/2017 1/2017	Review / Practicum of Run and Control Charts PDSA review
10/2017, 10/2018	Introduction to Data and Run Charts
3/2018, 2/2019	Overcoming Resistance to Change in Chronic Disease Mgmt.
4/2018	Leadership in quality improvement efforts
8/2018	IHI Model for Improvement

E. Extramural Lectures

5/2013	Pediatric Academic Society Platform Presentation— U.S. Hospitalization Trends in Inflammatory Bowel Disease
3/2017	Consensus and Operations (ICN webinar)
4/2017	Quality Improvement Learning Lab (ICN Conference)
7/2017	Working with Senior Leaders (ICN webinar)
9/2017	ICNspire—Dayton Children's (ICN Conference)
4/2018	Improving Quality of Life for Pediatric IBD Patients (ATP)
9/2018	Increasing QI Capacity (ICN Conference)
9/2019	Rational Subgrouping (ICN Conference)

Committee, Organizational, and Volunteer Service

A. Institutional

- 12/2014 – 6/2016 **Quality Improvement Officer**, Dayton, OH. I have led initiatives in improving the way routine infusions are given to children with IBD. Standing membership on the Children’s Quality Improvement Committee (CQIC) and the Quality Steering Committee (QSC) for the hospital. We also worked on structure and process optimization in streamlining quality metrics and monitoring in the hospital.
- 1/2015 – present **Organizer, Mentor in Resident Morbidity and Mortality Conference**, Dayton, OH. As an organizer, we created a regular, required conference where residents could participate in cases. As a mentor, we meet on a monthly basis, mentoring specific residents, coordinating with involved groups, and arranging follow-up to presented issues.
- 9/2015 – present **Editor, Pediatric Forum**, Dayton, OH. I serve on the editorial board of the hospital’s academic journal for community physicians.
- 6/2016 – present **Chief Medical Quality Improvement Officer**, Dayton OH. In addition to committee memberships (Children’s Quality Improvement Committee, Quality Steering Committee, Quality and Safety Committee of the Board), I work with other quality leaders in administering an Intermediate Quality Improvement Course (IQIC) for physicians and employees of Dayton Children’s Hospital and seek to find other ways of building a health learning system at Dayton Children’s Hospital. In 2019, we became a portfolio sponsor for MOC Part IV.
- 8/2016 – present **Co-Creator, Intermediate Quality Improvement Course (IQIC)**, Dayton, OH. Along with Carol Croop, RN, I created our hospital’s quality improvement course. We teach a multidisciplinary class off-site, 1 day each month over 9 months using IHI tools and methodology. Students receive 1-on-1 mentoring. Entrance by application. MOC Part IV offered. Elizabeth Williams joined in 2018 and became a co-director with me.
- 7/2017 – present **Preceptor**, Dayton, OH. I precept pediatric residents interested in quality improvement, finding meaning in medicine course, and for career path/decisions.

- 1/2018 – present **Committee Member**, Dayton, OH. As a Research Scholars committee member, I rate applicants, participate in journal clubs, and other mentoring activities for junior faculty in Pediatrics at Wright State University.
- 5/2018 – present **Administrator**, Morbidity & Mortality Conference, Dayton, OH. This is for the pediatric gastroenterology division at Dayton Children’s Hospital. I have created standard selection criteria, templates, presentation rules, and guides for the division of 15 providers and approximately 30 staff.
- 1/2019 – present **Chair**, Quality Assurance Process Improvement Committee (QAPIC). This committee was created from 2 previous committees to streamline quality assurance, quality improvement, regulatory, and resource utilization efforts in the hospital. We meet monthly with senior leadership and front-line leaders. My co-chair is the director of quality assurance.

B. Regional

- 5/2015 – present **Physician lead, ImproveCareNow**. As the local physician lead for this quality-improvement / learning system national organization, I lead local efforts in improving the ways we provide care for children with Crohn disease and ulcerative colitis in the Dayton and surrounding areas. I spend an average of 5 hours a week supporting this work.
- 6/2015 – present **Committee member, Crohn’s and Colitis Foundation’s Chapter Medical Advisory Committee**. The Southwest Ohio Chapter covers Cincinnati, Dayton, and parts of Kentucky. We work to increase community awareness, educate, and fundraise for cures for these chronic, debilitating illnesses.

C. National

- 3/2018 – 9/2018 **Committee member, ImproveCareNow**. Parent and Patient Conference support. This national committee focuses on ensuring continuing support for parents and patient to attend national meetings.
- 7/2018 – present **Committee member, NASPGAN (North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition)**. I serve on the Clinical Care and Quality Committee of our national pediatric

gastroenterology group. This committee focuses on quality, quality improvement, process improvement, and safety issues relevant to pediatric gastroenterology.

10/2018 – present **Advisor/Committee member, ImproveCareNow.** Pathway to Mastery subcommittee. This national committee focuses on quality improvement education as administered through national meetings, webinars, and individually. I currently participate in higher level quarterly planning calls.

11/2018 – present **Committee co-chair, ImproveCareNow.** Clinical Standardization. This national committee focuses on standardizing care given to patients with inflammatory bowel diseases. We participate in biweekly webinars, biannual national meetings, and other meetings as needed.

July 2019 – June 2023 **Committee member, National Institute of Health.** Literature Selection Technical Review Committee. This study section of the NIH evaluates biomedical journals for inclusion in the MEDLINE database.

D. Community Volunteer Service

7/2004 – 12/2019 **Instructor / Mentor for church youth groups.** I work with various youth and adult groups in planning and organizing various community service activities. This includes activities in the Boy Scouts of America.

12/2016 – 6/2019 **High Councilor** for my church. I speak once a month at various congregations in Dayton's surrounding areas and serve on church service councils. We use <https://www.justserve.org/> as a way to organize our broader service efforts with community partners.

6/2019 – present **Bishop** for my church, The Church of Jesus Christ of Latter-day Saints. Together with my 2 counselors, we serve a congregation of approximately 400. A majority of my focus and time is spent with youth, 12-18 years old. I volunteer 10-40 hours per week.

Bibliography

A. Peer-Reviewed Publications

1. Adler J, **Sandberg KC**, Shpeen BH, Eder S, Clarke S, Freed GL. Variation in Infliximab Administration Practices in the Treatment of Pediatric Inflammatory Bowel Disease, *J Pediatr Gastroenterol Nutr*. 2013 Jul;57(1): 35-8. doi: 10.1097/MPG.0b013e31828f1ea2.
2. **Sandberg KC**, Davis MM, Gebremariam A, Adler J. Increasing Hospitalizations in Inflammatory Bowel Disease Among Children in the United States, 1988 – 2011. *Inflamm Bowel Dis*. 2014 Oct 20(10):1754-60. doi: 10.1097/MIB.000000000000195.
3. **Sandberg KC**, Davis MM, Gebremariam A, Adler J. Disproportionate Rise in *C. difficile*-Associated Hospitalizations Among U.S. Youth with Inflammatory Bowel Disease, 1997-2011. *J Pediatr Gastroenterol Nutr*. 2015 Apr 60(1): 486-492. doi: 10.1097/MPG.0000000000000636.
4. Cox M, **Sandberg K**. Modeling Causal Relationships in Quality Improvement. *Curr Probl Pediatr Adolesc Health Care*. 2018 Jul; 48(7): 182-185. doi: 10.1016/j.cppeds.2018.08.011. Epub 2018 Sep 11.
5. **Sandberg KC**. Leadership in Quality Improvement. *Curr Probl Pediatr Adolesc Health Care*. 2018 Sep 27. doi: 10.1016/j.cppeds.2018.08.007.
6. **Sandberg KC**, Lucian JN, Stoll D, Yanney E, Mezoff A. Decreasing Door-to-Door Times for Infliximab Infusions in a Children’s Hospital Observation Unit—A Quality Improvement Initiative. *Pediatric Quality and Safety*. 2019 Jan;4(1):e131. doi: 10.1097/pq9.000000000000131.
7. Pratt J, et al., **Sandberg KC**, et al. Implementing a Novel Quality Improvement-Based Approach to Data Quality Monitoring and Enhancement in a Multipurpose Clinical Registry. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 2019 7(1): 51, pp.1-10. doi: 10.5334/egems.262.
8. Gupta N, et al., **Sandberg K** contributing author. Continued Statural Growth in Older Adolescents and Young Adults with Crohn’s Disease and Ulcerative Colitis Beyond the Time of Expected Growth Plate Closure. *In Review*.
9. Caudle D, Yarger E, Abernathy, **Sandberg KC**. Timely Treatment: Decreasing time to 1st Maintenance dosing in pediatric inflammatory bowel disease. *In Preparation*.
10. **Sandberg KC**, Yarger E, Saeed S. Inflammatory Bowel Disease. *Curr Probl Pediatr Adolesc Health Care*. *In preparation*.

B. Non Peer-Reviewed Publications

1. **Sandberg K.** Personal Review of Anne Fadiman’s “The Spirit Catches You and You Fall Down.” Harmony Magazine, The University of Arizona College of Medicine, 2005: 75.
2. **Sandberg K, Shaikhkhalil A, Plogsted S, Ruth B.** Nationwide Children’s Hospital GI Inpatient Reference Guide for the Resident and Medical Student. Internal document: 40 pg. June2011. Available at <https://carmenwiki.osu.edu/download> or available upon request.
3. **Sandberg KC.** Pediatric Inflammatory Bowel Disease. Pediatric Forum, Dayton Children’s Hospital, 2017 (30): 3-7.

C. Abstracts & Posters presented at Scientific Meetings

1. **Sandberg K, Adam R.** “Monitoring VSP Gene Expression in *Giardia lamblia*” Oral presentation at The University of Arizona College of Medicine Summer Research Symposium, Tucson, AZ, 2004.
2. **Sandberg K, Morgan W.** “Predictors of Asthma Exacerbation” Oral presentation at The University of Arizona College of Medicine Summer Research Symposium, Tucson, AZ, 2005.
3. **Sandberg K, Woodley F, Machado R, Skaggs B, McCoy KS, Patel AR, Mousa H.** “Does swallowing velocity correlate with acidic gastroesophageal reflux indices in children with cystic fibrosis?” Poster at 2010 NASPGHAN national meeting, New Orleans, LA. *J Pediatr Gastroenterol Nutr*, 2010; 51:E45.
4. **Sandberg K, Shpeen B, Eder S, Dhanani M, Clark S, Freed G, Adler J.** "Infliximab Dose Rounding Practices in Pediatric Inflammatory Bowel Disease." Poster at University of Michigan Department of Pediatrics Research Symposium, Ann Arbor, MI, 2012.
5. **Sandberg K, Shpeen B, Eder S, Dhanani M, Clark S, Freed G, Adler J.** "Infliximab Dosing Practices in Pediatric Inflammatory Bowel Disease." Poster at 2012 NASPGHAN national meeting, Salt Lake City, UT, 2012.
6. **Sandberg KC, Davis MM, Gebremariam A, Adler J.** “U.S. Hospitalization Trends in Inflammatory Bowel Disease.” Oral platform presentation at Pediatric Academic Society national meeting, Washington, D.C., 2013.
7. **Sandberg KC, Davis MM, Gebremariam A, Adler J.** “National Trends in *C. difficile* Infections in Hospitalized Children and Young Adults with Inflammatory Bowel Disease, 2001 – 2010.” Poster at 2013 NASPGHAN national meeting, Chicago, IL, 2013.

8. **Sandberg KC**, Davis MM, Gebremariam A, Adler J. “*C. difficile* Trends in Hospitalized Children and Young Adults with Inflammatory Bowel Disease, U.S., 2001 – 2010.” Poster at University of Michigan Department of Pediatrics Research Symposium, Ann Arbor, MI, 2013.
9. **Sandberg KC**, Davis MM, Gebremariam A, Adler J. “Short Stay Hospitalization Rates for Pediatric Inflammatory Bowel Disease, 1988-2010.” Poster awarded ‘Best in Pediatrics’ for the 2013 Advances in Inflammatory Bowel Diseases: Crohn’s & Colitis Foundation’s Clinical and Research Conference, Hollywood, FL, 2013. *Inflamm Bowel Dis*, 2013; s19(13):S94.
10. **Sandberg KC**. “National Trends in IBD Hospitalizations” Oral presentation at 32nd annual NASPGHAN-Mead Johnson Fellows Research Conference. Scottsdale, AZ, 2014.
11. **Sandberg KC**, Adler J, Auger K, Gebremariam A, Davis MM. “Nutritional Support Predicts Readmissions for Children and Young Adults with Inflammatory Bowel Disease.” Poster presentation at Pediatric Academic Society national meeting, Vancouver, B.C., 2014.
12. **Sandberg KC**, Adler J, Auger K, Gebremariam A, Davis MM. “Are Standard 30-day Readmission Rates Adequate for Patients with IBD?” Poster presentation at 2014 NASPGHAN national meeting, Atlanta, GA, 2014.
13. Yarger E, Morgan P, **Sandberg KC**. “Improving Care for Our IBD Population through the Nurse Practitioner –led Annual Visit”. NASPGHAN national meeting, Las Vegas, NV, November 1-4, 2017.
14. Adler J, Gebremariam A, Eder SJ, French KR, Singer AA, Lewis JD, **Sandberg KC**, Picoraro J, Moran CJ, Goyal A, Rosh J, Bousvaros A, Zacur GM. “Validation of a New Global Assessment Colonoscopy Score (PGA-CS) for Pediatric Crohn’s Disease” Poster presentation at Crohn’s and Colitis Congress, Las Vegas, NV, February 7-9, 2019.
15. Kavanaugh M, Lackey M, Stolfi A, **Sandberg KC**. “The Utilization of Interdisciplinary Care in the Management of Overweight and Obese Patients with Inflammatory Bowel Disease at a Pediatric Hospital”. Poster presentation at Wright State University Boonshoft School of Medicine Research Day, April 2019.
16. Caudle D, Yarger E, Abernathy LY, **Sandberg KC**. “Decreasing diagnosis to treatment time for children with inflammatory bowel disease”. Poster presentation at the North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition, Chicago, IL, October 17, 2019.

17. Riedel A, Musinski M, Cox M, Borger N, **Sandberg KC**. "Development of Standardized Skin Rounds at Dayton Children's Hospital to Decrease Skin Integrity Related Injuries through a Quality Improvement Initiative". Poster presentation at the Midwest Wound Ostomy and Continent Nurses Conference, October 2019.