

Highlights of ongoing healthcare epidemiology research projects (2017-present)

Topic	Study	Lead	Collaborators	Presentations/Publication
Infection Control				
BSI				
	Changing epidemiology of candida bloodstream infections; predictive ability of guideline algorithm and providers	Olafsdottir*, Stack	Wright, Yassa, Snyder*, Gold, LaSalvia*, Mahoney*, McCoy*, Araujo-Castillo*	Poster presentation at SHEA and ASM 2014; update submitted to IDWeek 2017; manuscript in progress
CAUTI				
	Characteristics of ICU patients with indwelling Foley catheters and patients with CAUTIs	Olafsdottir*	Snyder*, Wright, Cocchi*	Poster presentation at SHEA Spring 2016; manuscript in progress
C. difficile				
	Patient survey of knowledge and attitudes around <i>C. difficile</i>	Gretzinger*	Snyder*, Wright	Manuscript in progress
	The role of the environment in transmission of <i>C. difficile</i>	Mehrotra	Wright, Snyder*, Smithey*	Protocol development and grant submission
ERCP				
	Prospective randomized double-blinded trial comparing three duodenoscope high-level disinfection and sterilization procedures (ASGE grant awarded 7/2015)	Snyder*, Sawhney*	Chuttani*, Pleskow*, Berzin*, Wright, Yassa, Sheppard*, Leffler*, Hirsch*, Smithey*, Heroux*	Presented at SHEA Spring 2016 and awarded "Top Poster"; manuscript published (Gastroenterology, 2017)
	Correlation between cultures and adenosine triphosphate (ATP) to detect microbial contamination of ERCP duodenoscopes	Olafsdottir*	Snyder*, Wright, Yassa, Hirsch*, Smithey*, Heroux*	Manuscript published (Infect Control Hosp Epi, 2017)

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	A systematic review of adenosine triphosphate as a surrogate for bacterial contamination of duodenoscopes	Olafsdottir*	Snyder*, Whelan*	Manuscript published (Am J Infect Control, 2018)
	Association between duodenoscope hang time and microbial contamination	Heroux*	Snyder*, Wright, Shepard*	Manuscript published (Amer J Infect Control 2017)
	Bacterial contamination of echoendoscopic ultrasound duodenoscopes	Becq	Snyder*, Wright, Heroux*, Sawhney*	Abstract presented at DDW 6/2018
Hand hygiene				
	Comparison between direct observation and product usage for hand hygiene measurement	Branch-Elliman	Wright, Snyder*	Poster presentation at ID Week 2014; manuscript published (Infect Control Hosp Epi 2018)
	Observer role impacts directly observed hand hygiene compliance on medical-surgical units	King*	Youssef*, Wright, Snyder*, Dooley*, Parrett*, Gretzinger*, Sulmonte*, Levash*	Poster presentation at APIC 2016; manuscript in progress
Influenza				
	HCW compliance and side effects with Tamiflu prophylaxis	Yassa	Wright, Nicholas*, Mix*, Branch-Elliman	Manuscript submitted
	Effect of a Healthcare Worker Mandatory Influenza Vaccination Policy on Rates of Nosocomial Influenza	Schrank*	Wright, Rabesa*	Work in progress
MRSA/VRE				
	Outbreak investigation of CA-MRSA in post-partum women and newborns	Yassa/Wise*	Gold, Gupta*, Wright, Gorwitz*	Manuscript in review

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	Outbreak interventions including educational and communications tools for staff, patients, external providers	Golen*/Gupta*	Ouellette*, Stabile*, Woolley*, Yassa, Muriel*, Wright	Manuscript in progress
	Epidemiologic and molecular characteristics of a mupirocin resistant community-associated methicillin-resistant <i>Staphylococcus aureus</i> outbreak among mothers and babies (AHRQ 1R18HS020200-01A1)	Aim 1: Wright/Yassa Aim2: Ngo Aim 3: Gold	Eliopoulos, Gupta*, Carbery	Aim1: Poster at IDWeek 10/2013; oral presentation at Conf on Statistical Practice, 2/2014; updated analysis in progress Aim 2: Oral presentation at JSM, 8/2013
	Staff survey of attitudes about discontinuation of Contact Precautions for MRSA/VRE	Mehrotra	Wright, Snyder*, Yassa	Poster Presentation at IDWeek 2016; manuscript in progress
	Costs and resource utilization associated with discontinuation of Contact Precautions for MRSA/VRE	Schrank	Wright, Branch-Elliman, Snyder*	Poster Presentation at SHEA Spring 2017; manuscript submitted
Outbreak				
	<i>Candida guilliermondii</i> pseudo-outbreak	Kirby*/ Wright	LaSalvia , Branch-Elliman, Yassa, Gold, Eichelberger*	Manuscript published (J Clin Micro 2017)
	Group A <i>Streptococcus</i> cluster in an inpatient psychiatric unit	Snyder	Wright, Madoff*	Manuscript in progress
SSI				
	Relationship between invasiveness index and spine surgery surgical site infections	Hollenbeck*	Wright, Yassa, McGuire*, White*	Manuscript published (Infect Control Hosp Epi 2017)
	Predictors of surgical site infection and adequacy of antimicrobial prophylaxis for hepatobiliary surgeries	Stack	McCoy*, Snyder*, Gold	Poster Presentation at SHEA Spring 2017; in press, (Infect Control Hosp Epi, 2018)

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AST				
	Potential adverse effects of broad-spectrum antimicrobial exposure in the ICU (MIMIC)	Snyder*	Wiens*, Celi*, Mahoney*, Finlayson*	Manuscript published (Open Forum Inf Dis 2017)
	Quantifying antimicrobial exposure: hazards in populations with end-stage renal disease	Snyder*	D'Agata*, McCoy*	Manuscript published (Infect Control Hosp Epi 2017)
	Lack of Concordance of SHEA/IDSA <i>Clostridium difficile</i> Disease Severity Scale in Solid Organ Transplant Patients	Lee*	McCoy*, Mahoney*, Alonso*, Snyder*	Abstract submitted IDWeek 2017; manuscript published (Open Forum Infect Dis 2017)
	Assessment of a Healthcare-Associated Pneumonia (HCAP) Risk Stratification and Empiric Treatment Guideline: A New Antimicrobial Stewardship Initiative	Chapin*	Mahoney*, Gold, Snyder*, McCoy	Abstract submitted IDWeek 2017, manuscript published (Open Forum Infect Dis 2017)
	Adverse Events Associated with Vancomycin Vs. Daptomycin in OPAT	Schrank	LaSalvia, Branch-Elliman, Wright	Poster presentation at SHEA Spring 2017; manuscript published (Infect Control Hosp Epi 2018)

As of 8/2018

Projects begun as current or prior fellows are in **bold**, *Collaborators outside of BIDMC ID Division