

## Ongoing healthcare epidemiology research projects

Topic	Study	Lead	Collaborators	Presentations/Publication
<b>MRSA/VRE</b>				
	Outbreak investigation of CA-MRSA in post-partum women and newborns	<b>Yassa/Wise*</b>	Gold, Gupta*, Wright, Gorwitz*	Manuscript in review
	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 Staphylococcus aureus 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 Aim 2: Oral presentation at JSM, 8/2013
	Staff survey of attitudes about discontinuation of Contact Precautions for MRSA/VRE	<b>Mehrotra</b>	Wright, Snyder, Yassa	Poster Presentation at IDWeek 2016; manuscript in progress
	Costs and resource utilization associated with discontinuation of Contact Precautions for MRSA/VRE	Branch-Elliman	<b>Schrank</b> , Wright	Poster Presentation at SHEA Spring 2017
<b>C. difficile</b>				
	Tigecycline for serious non-operable C.diff	<b>LaSalvia/ Branch-Elliman</b>	Gold, Wright, Mahoney*, Alonso*, Snyder	Manuscript published (OFID 2017)
<b>Influenza</b>				
	H1N1 and renal failure	<b>Yassa</b>	Wright, Gold, Smitley	
	HCW compliance and side effects with Tamiflu prophylaxis	<b>Yassa</b>	Wright, Nicholas, Mix, Branch-Elliman	Manuscript in progress

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<b>Norovirus</b>				
	Risk factors for norovirus infection in BMT patients	Wright	Alonso, <b>Araujo-Castillo</b>	Poster presentation at IDWeek 10/2013; manuscript in progress
	Norovirus outbreaks in psychiatric units	Snyder	Wright, Kalaidjian*, Eng*, Greenberg*, Smithey*	Manuscript in progress
<b>Hand hygiene</b>				
	Comparison between direct observation and product usage for hand hygiene measurement	Branch-Elliman/ Snyder	Wright, <b>Araujo-Castillo</b>	Poster presentation at ID Week 2014; manuscript in progress
	Correlation between hand hygiene performance and MDRO incidence	Snyder	Wright, <b>Araujo-Castillo</b>	Poster presentation at ID Week 2014; manuscript in progress
	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
<b>BSI</b>				
	Estimating relative risk of vascular catheters on BSI rates	<b>Patel</b>	Snyder, Wright, Yassa	Oral presentation at SHEA 2015; manuscript in progress
	Changing epidemiology of candida bloodstream infections; predictive ability of guideline algorithm and providers	<b>Olafsdottir, Stack</b>	Wright, Yassa, Snyder, Gold, LaSalvia*, Mahoney*, McCoy*, <b>Araujo-Castillo</b>	Poster presentation at SHEA and ASM 2014; update submitted to IDWeek 2017; manuscript in progress
<b>SSI</b>				
	Risk factors for cardiac surgery surgical site infections	Snyder/Yassa	Wright, Kalaidjian*, Baldini*, Khabbaz*	Manuscript in progress
	Relationship between invasiveness index and spine surgery surgical site infections	<b>Hollenbeck</b>	Wright, Yassa, McGuire*, White*	Manuscript published (Infect Control Hosp Epi 2017)

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	Efficacy of negative pressure wound therapy in prevention of cardiac surgical site infections	Wright	Gordon*, Kalaidjian*, Khabbaz*, Snyder, Schrank	
	Predictors of surgical site infection and adequacy of antimicrobial prophylaxis for hepatobiliary surgeries	Stack	McCoy*, Snyder, Gold	Poster Presentation at SHEA Spring 2017
<b>CAUTI</b>				
	Minimizing catheter-associated urinary tract infection risk through implementation of a team-generated nurse-directed protocol (BIDMC Innovations Grant)	Snyder	Wright, Kalaidjian*, Holland*	
	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
<b>ERCP</b>				
	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 in review
	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 in preparation
	Viability of bacterial cultures from simulated duodenoscope and patient cultures	Chen*	Hirsch*, Snyder, Lane*, Wright, Yassa	Presented at SHEA Spring 2016; manuscript in progress
	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	Heroux*	Snyder, Wright	Manuscript in progress
<b>AST</b>				
	Intra-abdominal infections: effect of AST intervention on antimicrobial treatment duration	Smith*	McCoy*, Snyder, Gold	Manuscript in progress
	Impact of antimicrobial exposure on outcomes among patients with non-bacteremic shock (MIMIC)	Snyder	Wiens*, Celi*, Mahoney*, Finlayson*	Manuscript in review
	Quantifying antimicrobial exposure: hazards in populations with end-stage renal disease	<b>Snyder</b>	D'Agata*, McCoy*	Manuscript published (Infect Control Hosp Epi 2017)
	Evaluation of the adequacy of empiric antimicrobial therapy and frequency of de-escalation for diabetic foot infections	Eljaaly*	McCoy*, Snyder, Mahoney*	Presented at ICAAC/ASM 2015; manuscript in progress
	High- versus low-dose sulfamethoxazole/trimethoprim (SMZ/TMP) for the treatment of <i>Stenotrophomonas maltophilia</i> pneumonia	Lee*	Mahoney*, McCoy*, Snyder, Hirsch*	Presented at ICAAC/ASM 2014; manuscript in progress

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	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
	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
	Adverse Events Associated with Vancomycin Vs. Daptomycin in OPAT	<b>Schrank</b>	LaSalvia, Branch-Elliman, Wright	Poster presentation at SHEA Spring 2017
<b>Other</b>				
	<i>Candida guilliermondii</i> pseudo-outbreak	Kirby*/ Wright	<b>LaSalvia</b> , 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
	Low Lactobacillus spp. abundance and low microbial diversity characterizes the fecal microbiome of patients colonized and acquiring multidrug-resistant organisms during hospitalization	Araos Bralic*	Tai*, Snyder, Blaser*, D'Agata*	Manuscript published (Clin Infect Dis 2016); second analysis Poster Presentation IDWeek 2016 and manuscript in review

As of 6/2017

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