

The Cost of Surgical Site Infections

PROLONGRO DRUG DRUG DRULLER

PolyPid KOL Event

June 2022

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Agenda

01	Introduction
02	The cost of SSI: a surgeon's view – Dr. Kyle Cologne
03	The cost of SSI: a hospital administration view – Dr. Elliot Goodman
04	Company updates
05	Q&A



Surgical site infections have significant clinical and economic impact on patients and hospitals

SSI impact on patient outcomes...

7-11 days additional post-operative hospital days

2-11x increased risk of death (up to 40% mortality after deep sternal infection)

Delayed wound healing

Readmission

... has direct economic impact on hospitals Cost of prevention and treatment of SSI

CMS penalties

Rankings and reputation

Link to 2020 KOL event on SSI impact on patient outcomes



Today's speakers



Kyle Cologne, MD

Kyle Cologne, MD completed his general surgery training in Chicago at Rush University and Cook County Medical Centers, followed by a fellowship in Colon and Rectal Surgery at the University of Southern California, where he joined the faculty in 2012. He is the current fellowship director for the colorectal training program. Dr. Cologne is double board certified in general and colorectal surgery. He is the recipient of several awards including the Castle Connelly Pasadena and Los Angeles Top Doctor distinctions. He has performed more than 1,000 major colorectal procedures.

Dr. Cologne serves as the Vice Chair of the Quality Committee in the Department of Surgery and is the physician champion for colorectal surgical site infections and NSQIP. He serves as a section editor for the Diseases of the Colon and Rectum Journal where he is the host of a podcast and is the immediate past President of the Southern California Chapter of the American Society of Colon and Rectal Surgeons.



Dr. Cologne is a paid advisor for PolyPid

Today's speakers



Elliot Goodman, MD

Elliot Goodman, MD was born in London and educated at the University of Cambridge. After one year of postgraduate training in Cambridge and London, he moved to the United States in 1990 and trained as a general surgeon at Maimonides Medical Center in Brooklyn, New York . During this period of training, he spent two years as a research fellow at Columbia University.

After spending time as a trauma fellow at Coney Island Hospital in Brooklyn, Dr. Goodman joined the faculty of the New Jersey Medical School. After two-and-a-half years in New Jersey, Dr. Goodman moved to Montefiore Medical Center where he became Chief of Bariatric Surgery. After a successful four-and-a-half year tenure at Montefiore, Dr. Goodman was recruited by Beth Israel Medical Center to become their Chief of Bariatric Surgery in 2004. After engagements at the new Mount Sinai Beth Israel and Mount Sinai Brooklyn hospitals as Head of House Staff, Associate Chief of Surgery and Vice-Chair for Surgical Quality, he was appointed in January 2022 as Associate Director for Systems Quality and Performance in Surgery for the entire 8-hospital Mount Sinai Health System.

Dr. Goodman is on the faculty of the Icahn School of Medicine at Mount Sinai. He is a visiting professor at Ben-Gurion University, Bar Ilan University (both in Israel) and EDU (in Malta). He is the North American coordinator for the global surgical community of The Upper Gastro-intestinal Surgeons society (TUGS).

SURGICAL SITE INFECTIONS (SSIs): BY THE NUMBERS



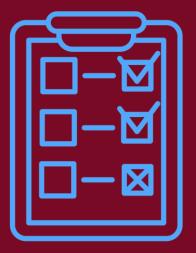


KYLE G. COLOGNE, MD, FACS, FASCRS

ASSOCIATE PROFESSOR OF SURGERY VICE-CHAIR, SURGICAL QUALITY COMMITTEE USC DIVISION OF COLORECTAL SURGERY

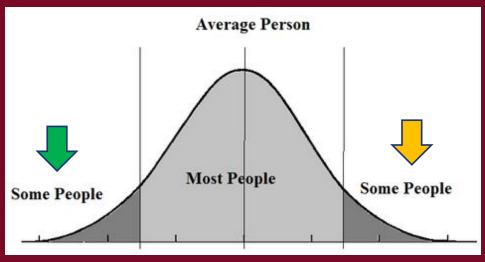
Learning Objectives

Understand the financial implications for SSI Describe specific opportunities improvement in SSI





• OVERALL RATE SSI: 6-26% (LOW AND HIGH OUTLIERS)



• IT IS GETTING WORSE:

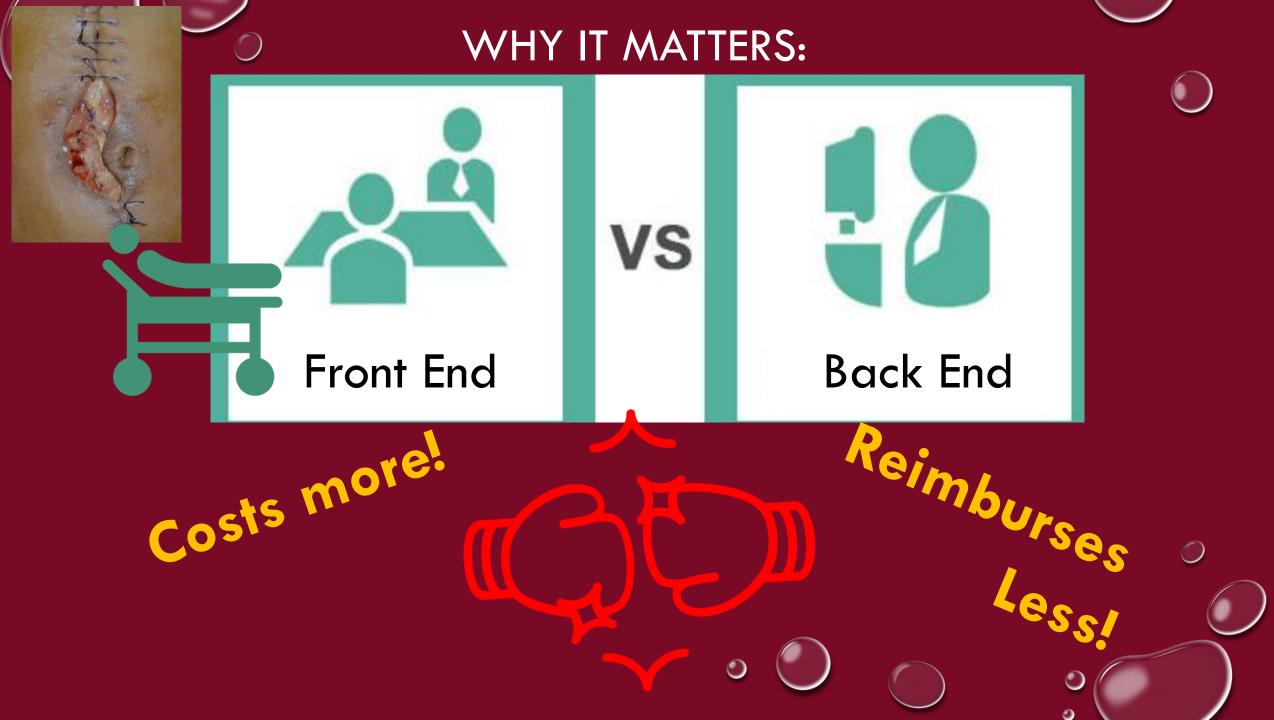
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CALIFORNIA REPORTED A 6% INCREASE IN COLON SURGERY SSI BETWEEN
 2008 (NATIONAL BASELINE) AND 2014 AND AN INCREASE OF 28% FROM
 2013 TO 2014

HOW BAD IS IT:

CDC'S ANNUAL INFECTIONS PROGRESS REPORT (HAI PROGRESS REPORT) (2014 HTTP://WWW.CDC.GOV/HAI/PDFS/PROGRESS-REPORT/HAI-PROGRESS-REPORT.PDF)

Morris SS. Ann Surg 2015Lawson EH. JAMA 2013Ohman KA. J Am Coll Surg 2017Gorgun E. Dis Colon Rectum 2018



WHY IT MATTERS: COSTS MORE

OVERALL: **\$10 BILLION COST** TO HEALTHCARE SYSTEM



Ban KA. J Am Coll Surg 2017 Leaper DJ. Dis Colon Rectum 2020

12-month estimated increased cost of SSI:



\$36,429-\$144,809 Commercial Insurance

\$17,551 - \$102,280 Medicare

2 BIGGEST COST DRIVERS OF HEALTHCARE:

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LENGTH OF STAY COMPLICATIONS

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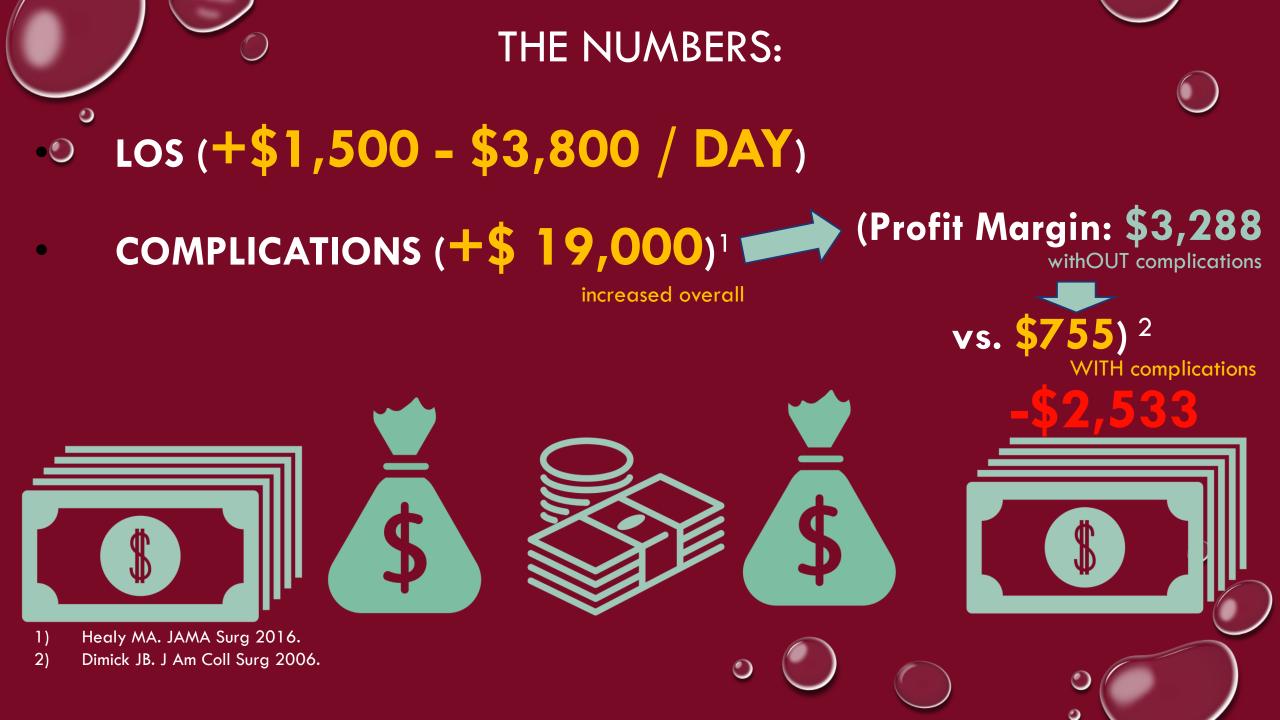


RESULTS:

• Reasons for prolonged (>10 day) LOS:

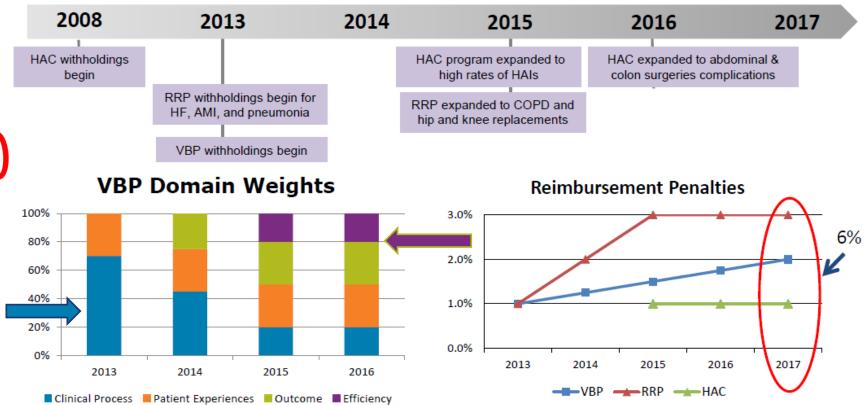
Factor	Odds Ratio	95% CI	p-value
American Society of Anesthesiology (ASA) score	2.152	1.245 to 3.721	0.019
Anastomotic leak	2.163	1.486 to 3.148	<0.001
lleus	8.790	4.501 to 17.165	<0.001
Surgical site infection	5.846	2.764 to 12.362	<0.001
Cancer diagnosis	0.607	0.310 to 1.189	0.289
Transfusion required	1.193	0.889 to 1.601	<0.158

Cologne KG, Byers S, Rosen D, Hwang GS, Ortega AE, Ault GT, Lee SW. American Journal Surgery 2016



WHY IT MATTERS: REIMBURSES LESS

Increasing Financial Penalty for HAIs



AMI = acute myocardial infarction; HAC = hospital-acquired condition; HF = heart failure; RRP = Readmission Reduction Program; VBP = Value-Based Purchasing Program.

1. CMS. Hospital-Acquired Conditions. Available at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/HospitalAcqCond/Hospital-Acquired_Conditions.html. Accessed July 21, 2014. 2. CMS. Hospital Value-Based Purchasing Program Fact Sheet. Available at: http://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/downloads/Hospital_VBPurchasing_Fact_Sheet_ICN907664.pdf. Accessed August 4, 2014. 3. CMS. Readmissions Reduction Program. Available at: http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/Readmissions-Reduction-Program.html. Accessed August 4, 2014. 4. Arkansas Foundation for Medical Care, Quality Improvements Organization. Available at: http://qio.afmc.org/LinkClick.aspx?fileticket=8PsE9YwcHy0%3D. Accessed August 20, 2014.

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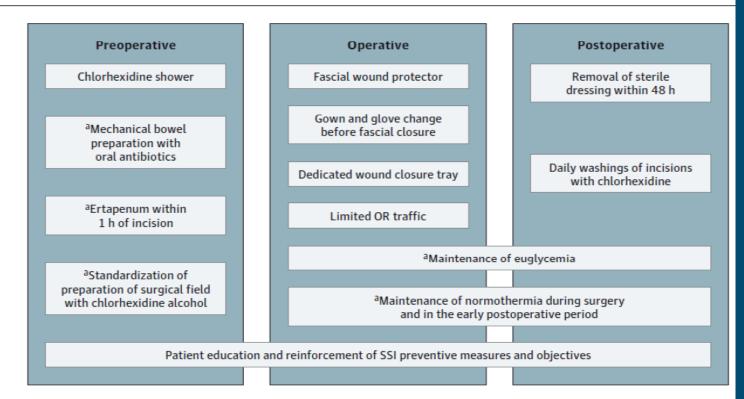


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The Preventive Surgical Site Infection Bundle in Colorectal Surgery An Effective Approach to Surgical Site Infection Reduction and Health Care Cost Savings

Figure 1. The Preventive Surgical Site Infection (SSI) Bundle in Colorectal Surgery



JAMA Surg. doi:10.1001/jamasurg.2014.3 Published online August 27, 2014.

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Preop: Mechanical + Oral bowel prep CHG wipes + shower Periop: Skin prep IV antibiotics Wound protectors Glove, sleeve, suction tip change Postop: Dressing removal after 48h **Observe for SSI**





\$

DOES IT WORK?



Monte-Carlo simulation of using antimicrobial sutures suggests (based on RCTs showing RR for SSI of 0.61 [0.52-0.73]):

> Cost Savings of \$809-1,170 / pt by avoiding SSI

> > RECTUN

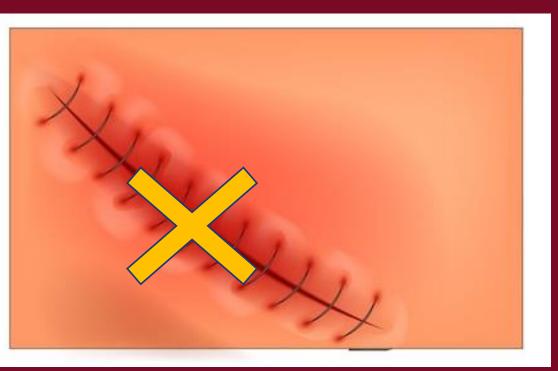


POTENTIAL FOR COST SAVINGS:

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by avoiding SSI \$10 BILLION COST TO HEALTHCARE SYSTEM



The economics of SSIs after colorectal surgery:

Elliot R Goodman MD, Associate Director for Surgical Quality, Mount Sinai Health System.





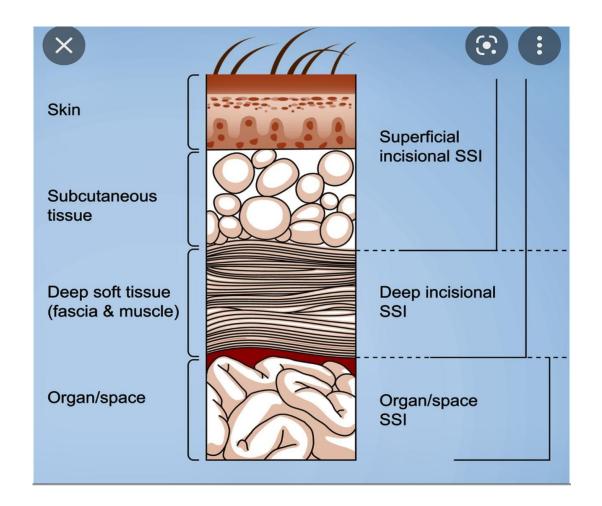


Few basic facts:

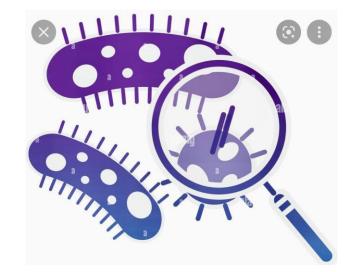
- 158,000 patients get SSIs after all surgical procedures in USA each year (ASCRS data, 2019).
- Total cost of treating these SSIs \$3.1B (approx. \$20,000/patient)
- Approximately 300,000 colorectal procedures performed in USA each year (Leaper, 2020)
- Range of reported incidence of SSI after CRS 9-41% (Leaper, 2020).
- SSI after colorectal surgery (CRS) increases total length of stay (LOS), ICU LOS, readmission rates and total cost of care (Leaper, 2020)

Definition of SSI in CRS (as per CDC and NHSN):

- Superficial incisional SSI
- Deep incisional SSI
- Organ/space SSI



- Rate of SSI is a KPI of hospital surgical services
- Publicly available data
- May be tracked, reported and publicized by hospitals themselves, by State DoHs, payers inc. CMS, third-party watch dogs (e.g. Leapfrog, Healthgrades)



- Hospitals themselves for internal quality improvement from ICD-10/DRG codes and billing data
- Govt agencies such as National Healthcare Safety Network [NHSN] and Agency for Healthcare Research and Quality [AHRQ] gather data from hospitals and report SSIs to CMS (may use data for VBP decisions)
- Third-party patient safety watch dogs such as Leapfrog and Healthgrades who grade hospitals using CMS data
- NSQIP ACS program involving 700+ hospitals in USA and overseas

Leapfrog/Hospital Safety Score



Includes deep incisional and organ space SSI - developed by ACS-CDC group

- NHSN and AHRQ data not risk adjusted, only report in-patient SSIs (missing 50% of SSIs diagnosed post-discharge) and do not include superficial incisional SSIs
- NSQIP risk adjusted for patient acuity/comorbidities, includes in- and outpatient diagnoses of SSI but data capture is labor intensive and misses 60-80% of all surgical cases

CMS Hospital Compare

	No. of Infections Reported (A)	Number of Procedures	Predicted No. Infections (B)	Standardized Infection Ratio (SIR) (A/B)	Evaluation
HARBORVIEW MEDICAL CENTER	11	97	3.630	3.030	Worse than the National Benchmark

Standardized infection ratio (SIR) national benchmark = 1. Lower SIRs are better. A score of (0) – meaning no SSI: Colons – is best.

Only deep incision and organ space, age and ASA for risk model. Incisions that open spontaneously are also included in "Serious Complications"/PSI-90 reporting.

CMS data accrued by NHSN

Colectomy SSI -

Proctectomy SSI

	Total	Obs	irved	Pred	Expected	Odds	95%	CL		-	Adjusted	Adjusted	
	Cases	Events	Rate	Obs Rate**	Rate		Lower	Upper	Outlier	Decile	Percentile	Quartile	Assessment*
GEN Colectomy Unplanned Intubation	72	6	8.94%	4.20%	3.45%	1.27	0.69	2.35		10	69	3	As Expected
GEN Colectomy Ventilator > 48 Hours	71	7	9.60%	7.99%	6.51%	1.32	0.68	2.59		9	69	3	As Expecte
GEN Colectomy VTE	72	2	2,78%	3.52%	3.73%	0.94	0.53	1.69		4	45	2	As Expecte
GEN Colectomy Renal Failure	72	1	1.30%	2.58%	2.73%	0.94	0.57	1.55		2	44	2	As Expecte
GEN Colectomy UTI	72	0	0.00%	1.23%	1.41%	0.87	0.42	1.81		2	40	2	As Expecte
GEN Colectomy SSI	67	8	7.46%	7.09%	6.88%	1.03	0.59	1.83		. 6	53	3	As Expecte
GEN Colectomy Sepsis	50	2	4.00%	3.38%	3.19%	1.06	0.50	2.24		7	53	3	As Expecte
GEN Colectomy C.dll Colitis	72	0	0.00%	0.81%	0.92%	0.88	0.37	2.10		3	42	2	As Expecte
GEN Colectomy ROR	72	7	9.72%	7.04%	6.19%	1.15	0.73	1.83			- 65	3	As Expects
GEN Colectomy Readmission	72	7	9.72%	9.90%	9.94%	1.00	0.71	1.40		5	40	2	As Expecte
GEN Colectomy Anastomotic Leak	72	0	0.00%	2.20%	2.75%	0.79	0.40	1.57		2	33	2	As Expected
GEN Colectomy Prolonged NPOINGT Use	72	28	38.89%	34.82%	23.19%	2.00	1.24	3.21	High	10	91	4	Needs Improvement
GEN Proclectomy Mortidity		0	0.00%	7.95%	8.37%	0.94	0.49	1.83		4	45	2	As Expecte
GEN Proceedomy Cardiac	6	0	0.00%	0.42%	0.42%	0.99	0.28	3.48		7	50	2	As Expecte
GEN Proctectomy Preumonia		¢	0.00%	0.68%	0.69%	0.98	0.24	3.93		6	49	2	As Expecte
GEN Proctectomy Renal Failure	6	0	0.00%	0.10%	0.10%	1.00	0.42	2.35	1		50	2	As Expects
GEN Proctectomy UTI	6	0	0.00%	1.50%	1.56%	0.96	0.27	3.35	-	8	48	2	As Expecte
GEN Proctectomy SSI	6	¢	0.00%	3.22%	3.32%	0.97	0.46	2.07		5	41	2	As Expecte
GEN Proclectomy Sepsia		0	0.00%	1.34%	1.36%	0.98	0.39	2.44			49	2	As Expects
GEN Proclectomy C diff Colifie	6	0	0.00%	0.78%	0.79%	0.98	0.31	3.16			50	2	As Expecte
GEN Proctectomy ROR		c	0.00%	5.29%	5.40%	0.98	0.59	1.63		4	45	2	As Expecte
GEN Proceedomy Anasiomotic Leak		0	0.00%	1.60%	1,70%	0.99	0.63	1.57	-	5	50	2	As Expecte
GEN Proceeding Protenged NPO/NOT Use		0	0.00%	2.58%	2.64%	0.98	0.48	2.09	-	5	48	2	As Expecte
GEN VIR MOUNTY	270	1	0.37%	0.36%	0.35%	1.01	0.39	2.66	-		51	3	As Expected
GEN VHR Morbidiy	270	2	0.74%	2.47%	4.75%	0.48	0.27	0.85	Low		7	1	Exemplar
GEN VHE Cardiac	270	1	0.37%	0.36%	0.36%	1.01	0.43	2.38			51	3	As Expected
GEN VHR Preumonia	200	0	0.00%	0.38%	0.52%	0.73	0.28	1.92		1	34	2	As Expected
GEN VHR Underned Intubation	270	0	0.00%	0.22%	0.28%	0.77	0.24	2.49	-		30	2	As Experier
GEN VHR Variation > 48 Hours	270	0	0.00%	0.23%	0.30%		0.22	2.50		1	38	2	As Expected
GEN WHR VTE	270	0	0.00%	0.30%	0.39%		0.51	1.67		1	43	2	As Expected
GEN VIE Benal Fallers	270	0	0.00%	0.16%	0.19%	0.85	0.28	2.56			43	2	As Expected
GEN VHR SSI	270	1	0.37%	1.58%	2.93%	0.52	0.27	1.01		-	12		Exemplar
GEN VHR Secols	270		0.37%	0.51%	0.55%	0.92	0.41	2.06		2	45	2	As Expected
GEN VIR BOR	270	0	0.00%	1,27%	1.57%	0.80	0.48	1.34		1	23	2	As Expected
GEN VHR Readmission	270	2	0.74%	2.60%	3.68%	0.71	0.46	1.11			16	1	Exemplar
GEN Appendectomy Morbidity	190	5	2.63%	2.88%	3.11%	0.92	0.50	1.68		4		2	As Expecte
GEN Appendectomy Pneumonia	190	0	0.00%	0.17%	0.22%	and the second second	0.16	3.66	-	1	41		As Expected
GEN Appendectomy Vendiator > 48 Hours	190	1	0.53%	0.13%	0.06%	2.12	0.23	19.65		10	69		As Expecte
GEN Appendictomy Virelautor > 68 Prours	190		0.53%	0.31%	0.29%	1.07	0.48	2.37	-		55		As Expecte
GEN Appendectomy UTI	190	0	0.00%	0.34%	0.36%	0.96	0.53	1.74			47	2	As Expecte
GEN Appendectomy 011	189	3	1.50%	1.77%	1.89%	0.93	0.46	1.87	-	-	45	2	As Expected
GEN Appendectomy Coll GEN Appendectomy C-diff Colitie	190	1	0.53%	0.37%	0.34%	1.10	0.40	3.07			40	3	As Expecte
GEN Appendectomy Collin Collis	190	2	1.05%	1.01%	0.98%	1.02	0.45	2.32	-		51	3	As Expected
	190		2.63%	3.00%	3.45%	0.87	0.49	1.56	-	3	30	2	As Expected
GEN Appendectomy Readmission GEN Appendectomy Intra-abdominal Abscess	190	3	1.52%	3.06%	0.65%	0.87	0.49	3.55	-	3	39	2	As Expedia As Expedia

Assessment: needs improvement, as expected, exemplary

ACS NSQIP semi-annual report 2020

Who monitors SSIs after CRS? NYS Department of Health [DoH] HAI surveillance program (since 2007):

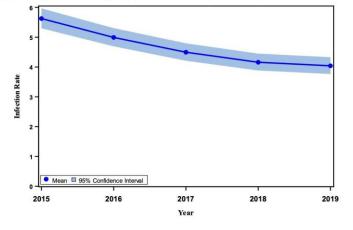
 Table 2. Method of detection of colon surgical site infection by depth of infection,

 New York State 2019

	When Detected						
Extent (Row%) (Column%)	Initial Hospitalization	Readmitted to the Same Hospital	Readmitted to Another Hospital	Post- Discharge Surveillance Not Readmitted	Total		
Superficial Incisional	165	106	7	93	371		
	(44.5%) (37.4%)	(28.6%) (35.3%)	(1.9%) (20.0%)	(25.1%) (93.0%)	(42.4%)		
Deep Incisional	25 (52.1%) (5.7%)	19 (39.6%) (6.3%)	2 (4.2%) (5.7%)	2 (4.2%) (2.0%)	48 (5.5%)		
Organ/Space	251 (54.9%) (56.9%)	175 (38.3%) (58.3%)	26 (5.7%) (74.3%)	5 (1.1%) (5.0%)	457 (52.2%)		
Total	441 (50.0%)	300 (34.2%)	35 (4.0%)	100 (11.4%)	876		

Data obtained directly [by mandate] from hospitals and indirectly from Federal sources (NHSN/CDC)

Figure 1. Trend in colon surgical site infection rates, New York State 2015-2019 Excluding infections present at time of surgery or detected in outpatient settings without readmission



2019 NYS DoH data

NYS DoH HAI surveillance program:

2019 data

Figure 2. Colon surgical site infection rates, New York 2019 (page 3 of 4)

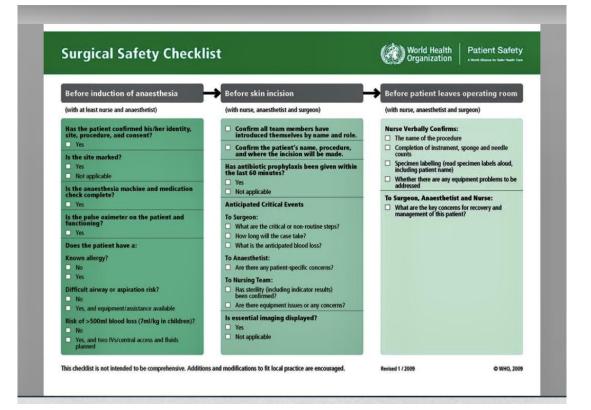
Hospital SSI excl. excl. Procs Rate Rate
NYP-Lawrence 3 0 0 63 4.8 5.0
NYP-Lower Manhattan 0 0 0 35 0.0 0.0
NYP-Morgan Stanley 2 0 0 30 6.7 6.6
NYP-Queens 8 6 0 197 4.1 4.1
NYP-Weill Cornell 14 6 0 440 3.2 3.7
NYU Langone Brooklyn 6 3 0 158 3.8 3.4
NYU Tisch 18 5 2 536 3.4 3.4
NYU Winthrop 9 9 0 366 2.5 2.2
Nassau University NA NA NA NA NA NA
Nathan Littauer NA NA NA NA NA NA
Newark Wayne 2 1 0 37 5.4 6.2
Niagara Falls 0 0 0 22 0.0 0.0
North Central Bronx 0 0 0 22 0.0 0.0
North Shore 13 16 0 454 2.9 2.7
Northern Dutchess 0 2 0 27 0.0 0.0
Northern Westchester 4 3 0 123 3.3 4.2
Noyes Memorial 1 0 0 23 4.3 3.5
Oishei Childrens 0 0 0 31 0.0 0.0
Olean General 3 0 1 34 8.8 8.4
Oneida Healthcare 5 4 1 95 5.3 6.6
Orange Regional [^] 13 2 0 178 7.3 7.6
Oswego Hospital 3 1 2 29 10.3 10.0
Our Lady of Lourdes 7 2 1 103 6.8 8.4
Peconic Bay Medical 0 2 0 58 0.0 0.0
Phelps Memorial 0 0 0 41 0.0 0.0
Plainview Hospital 2 0 0 98 2.0 2.0
Putnam Hospital 2 0 0 63 3.2 4.2
Queens Hospital 3 0 1 49 6.1 5.3
Richmond Univ MC^ 9 1 2 91 9.9 10.1
Rochester General 18 4 1 395 4.6 5.0
Rome Memorial 0 0 0 21 0.0 0.0 0

What have we done to reduce risk of CRS SSIs?

- CMS Surgical care improvement program (SCIP, 2002) - single perioperative checklist designed by CMS to align surgical quality to reimbursement
- Evidence-based surgical care bundles (antibiotics, skin prep, maintenance of normothermia and good glycemic control)
- Perioperative surgical checklists (first developed by WHO)

- These measures have reduced SSI rates by 40-55% in various meta-analyses (Turner and Migaly, 2019)
- Cost of admission reduced from mean of \$32,000/pt to \$22,000/pt (50% SSIs diagnosed pre-discharge)

What have we done to reduce risk of CRS SSIs?



Checklist and Complications

	<u>Before</u>	<u>After</u>
	n=3773	n=3955
•SSI	6.2%	3.4%
•Unplan Return-O.R.	2.4%	1.8%
•Any Complic	11.0%	7.0%
•Death	1.5%	0.8%

Haynes. NEJM 2009; 360: 491-9

The economic cost of SSI after CRS:

- Leaper 2020 study: retrospective observational cohort analysis of 108,000 patients undergoing CRS in USA 2014-2018
- Followed patients for 24 months after surgery
- 4% incidence of superficial incisional SSI
- 20% incidence of deep incisional or organ space SSI
- SSI added \$36-144,000/pt to cost of care for commercial payer cases and \$18-102,000/pt for Medicare cases
- Cost depended on severity of SSI
- Extra cost of care due to SSI seen over full 24 months of study

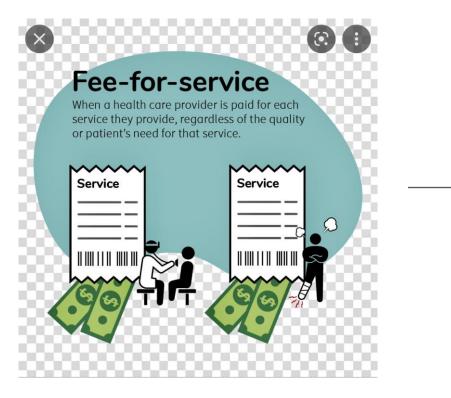


The economic cost of SSI after CRS:

- Leaper study: large, long-duration (24 months) longitudinal study
- Better assessment of incidence and cost of SSI after CRS than previous smaller and shorter-duration studies which probably underestimated both incidence and economic cost of SSI (7-10%, \$12-42,000/pt)
- Caveats: data capture of Leaper study not perfect and some differences in cost data due to recent increases in overall cost of healthcare



The economic cost of SSI after CRS - value based purchasing (VBP):





The economic cost of SSI after CRS - value based purchasing:

- Payers such as CMS now use KPIs such as rate of SSIs and other hospital-acquired infections (HAIs) to make VBP decisions
- CMS can reduce payment by up to 6% if best practice guidelines are not met e.g. hospital is in lowest quartile for HAIs
- Loss of reimbursement can be incentive to improve quality of care by reducing HAI rates

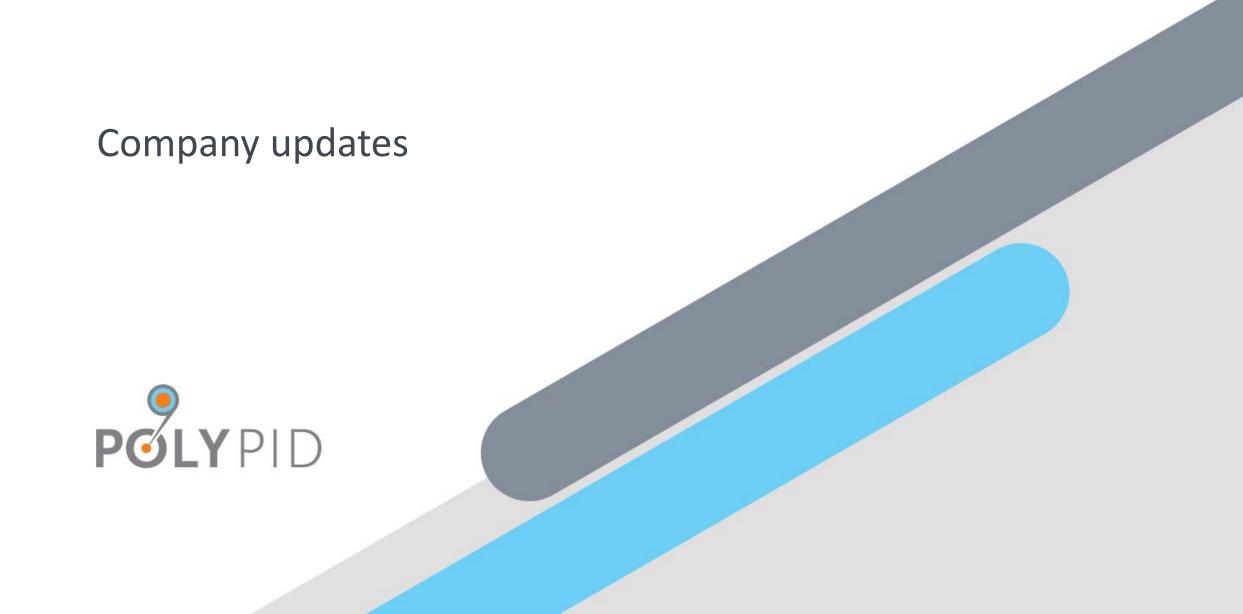


Conclusions:

- SSI after CRS is common and causes significant postoperative morbidity
- SSI adds greatly to the cost and length of care and can reduce payer reimbursement to hospitals
- Rates of SSI after CRS are reportable events and can become publicly available data points
- Hospital reputations can be damaged when SSI rates are higher than the benchmark range
- Anything we can do to reduce SSI after CRS will have significant clinical, economic and reputational benefits for hospitals and surgeons alike
- Hospital c-suites are acutely aware of clinical, economic and reputational implications of SSIs and hold providers and clinical managers accountable for their occurrence

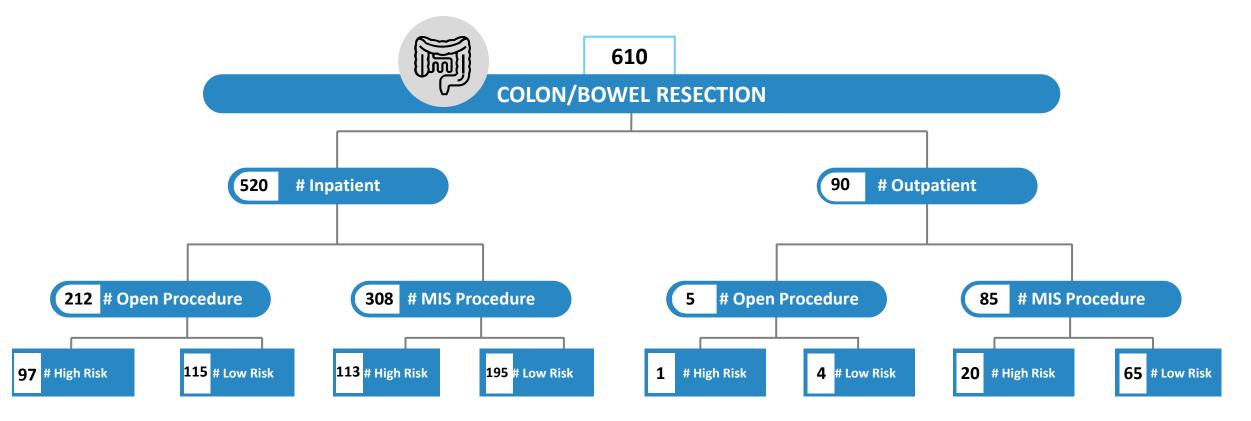
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Recent market research suggest that 40% of all in-patient colorectal resection procedures are performed on high-risk patients

Number of patients split by type of surgery and patient risk



Recent and upcoming milestones



- Data Safety Monitoring Board recently recommended concluding study at 950 patients, the minimum number of patients targeted
- Last-patient-in was announced on May 31
- A total of 977 patients enrolled in the trial the largest trial in colorectal surgery infection prevention in over a decade



• **Topline Results** expected by the end of Q3 2022



• Potential NDA submission targeted for H1 2023



