

New York State Partnership for Patients

Implementing the American College of Surgeons' Strong for Surgery Bundle

June 15, 2018

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A partnership of the Healthcare Association of New York State and the Greater New York Hospital Association



Agenda

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Торіс	Speaker
Welcome and Introductions	NYSPFP Staff
SSI Rates in New York	NYSPFP Staff
A Hospital-Based Preoperative Clinic Implementation of Enhanced Recovery After Surgery & Strong For Surgery	CHRISTUS St. Michael Health System, Texas
Hospital Questions and Discussion	Hospital Participants Facilitated by NYSPFP Staff
Next Steps	NYSPFP Staff



Why Focus on Surgical Site Infections?

- 2.6% of 30 million operations per year are complicated by SSI (800,000 – 2 million SSI annually)
- SSI accounts for 38% of HAI in surgical patients
- SSIs are associated with:
 - Increased length of stay
 - Increased hospital costs (estimated increase of \$1,300 \$5,000 per case)
 - Increased patient morbidity and mortality

Increased readmission rates

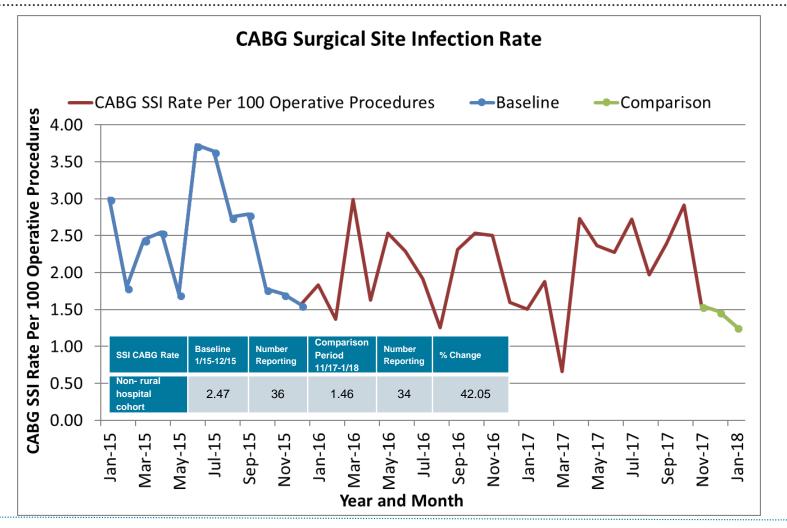
References:

- Boyce JM, Potter-Bynoe G, Dziobek L. Infect Conrol Hosp Epidemiol. 1990; 11(2):89-93
- 2. Poulson KB, Bremmelgaard A, Sorensen AI, Raahave D, Petersen JV. Epidemiol lfect. 1994; 113(2); 283-295
- 3. Martone WJ, Jarvis, WR, Culver DH, Haley RW, Bennet JV, Brachman PS, eds. Hospital Infections. 3rd ed. Little, Brown & Co. 1992:577-596
- 4. Vegas, AA, Jodra VM, Garcia ML. Eur J Epidemiol. 1993;9(5):504-510
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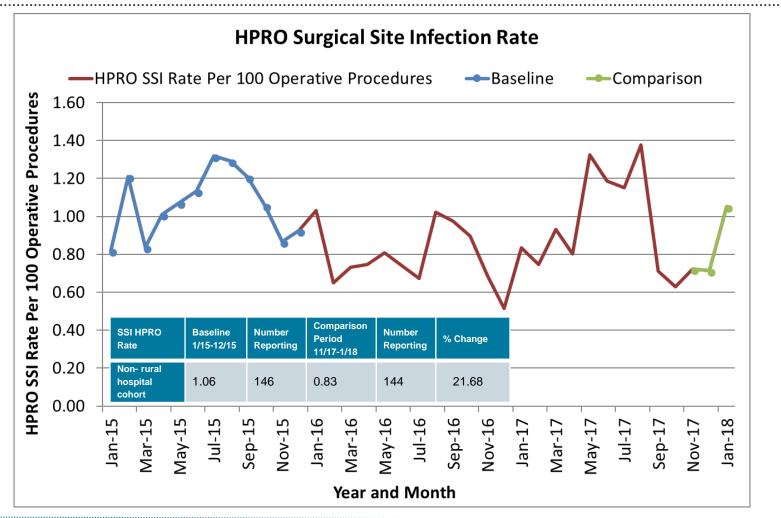


NYSPFP SSI Rate: CABG



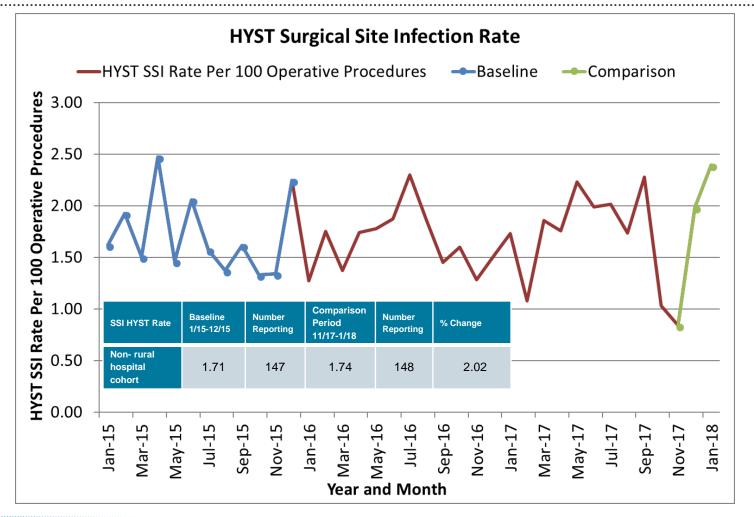


NYSPFP SSI Rate: Hip



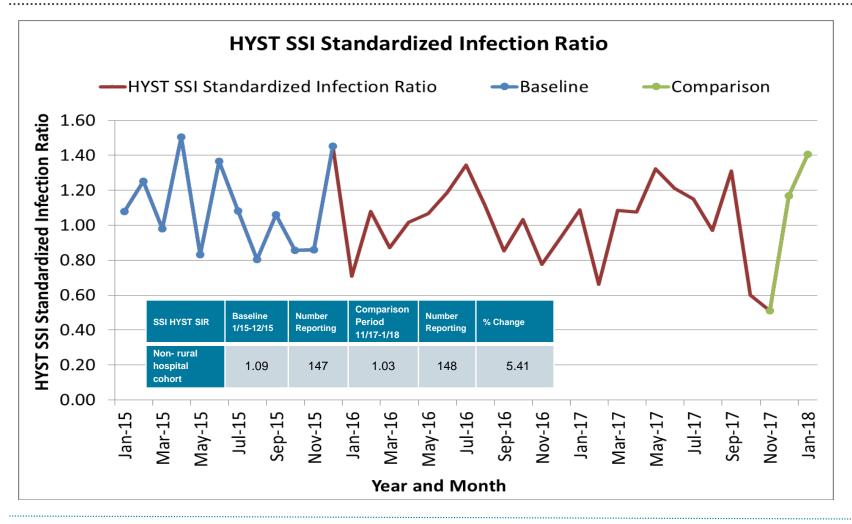


NYSPFP SSI Rate: Hysterectomy



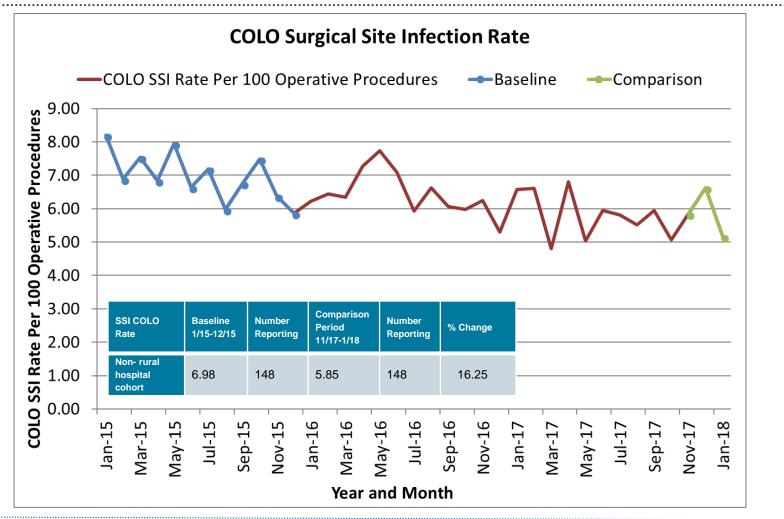


NYSPFP SSI SIR: Hysterectomy





NYSPFP SSI Rate: Colon



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Surgery Bundle Elements Applicable Across Multiple Surgical Service Lines

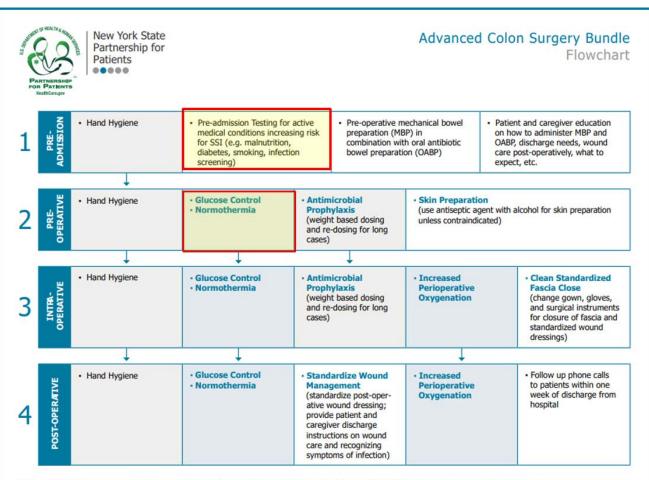
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	Wound Management		Mechanie Prepar Combina	Specific: cal Bowel ation in ation with tibiotics



Implementation of Cross Applicable Bundle Elements

Surgical subspecialties where implementation of bundle has begun	% of hospitals that have started implementation in NYSPFP (n=111)*
Hysterectomy	55%
Cardiac Surgery	14%
Orthopedics (Hip/Knee prosthesis)	61%
Our hospital has not begun implementation of the colon bundle on any other surgical subspecialties	17%
Other	15%

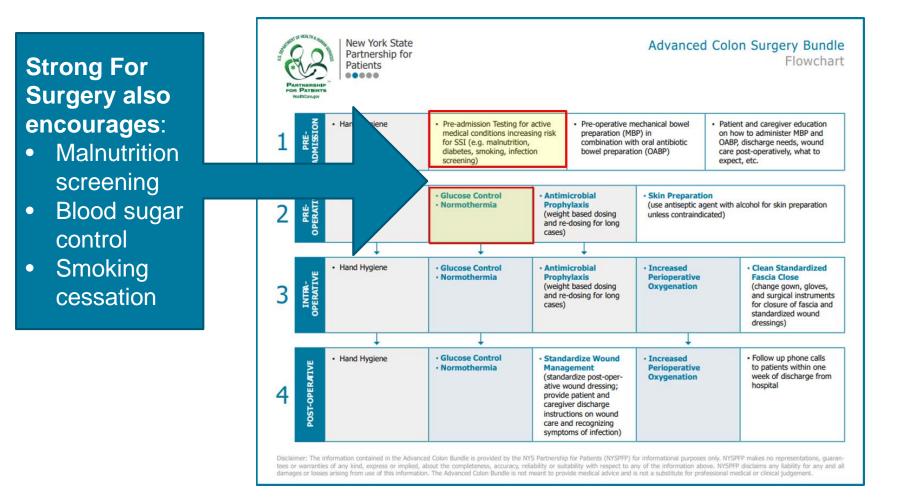
NYSPFP Advanced Bundle Pre-operative Interventions



Disclaimer: The information contained in the Advanced Colon Bundle is provided by the NYS Partnership for Patients (NYSPFP) for informational purposes only, NYSPFP makes no representations, guarantees or warranties of any kind, express or implied, about the completeness, accuracy, reliability or suitability or patients of the information above. NYSPFP disclaims any liability for any and all damages or losses arising from use of this information. The Advanced Colon Bundle is not meant to provide medical advice and is not a substitute for professional medical or clinical judgement.



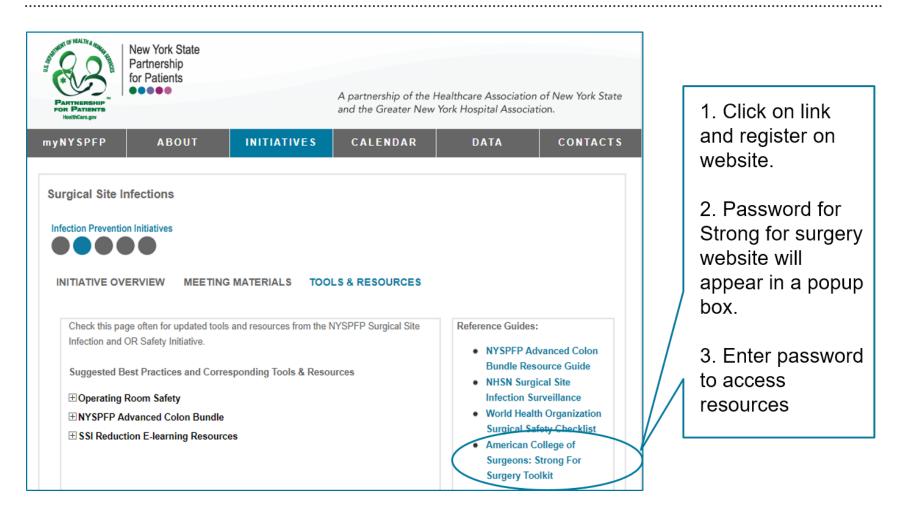
NYSPFP Advanced Bundle Pre-operative Interventions



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Access Strong for Surgery tools from the NYSPFP Website





Polling Question

- Has your hospital implemented a pre-operative patient optimization bundle?
 - Yes, for all surgeries
 - Yes, for specific surgeries only
 - No, not yet



New York State Partnership for Patients

A Hospital-Based Preoperative Clinic Implementation of Enhanced Recovery After Surgery & Strong For Surgery

CHRISTUS St. Michael Health System Texas

A Hospital-Based Preoperative Clinic Implementation of Enhanced Recovery After Surgery & Strong For Surgery

Dawn Davis, RN, MSN, NP-C Nurse Practitioner, Pre-Admission Center CHRISTUS St. Michael Health System, Texarkana, TX

Disclosure: I have no financial relationships to report

Objectives

Discuss implementation of Enhanced Recovery After Surgery (ERAS) & Strong For Surgery (\$4S) principles, within a community-based hospital pre-operative clinic

Explain the components of ERAS & S4S

Share successes, lessons learned, and future steps

► Q&A



Multidisciplinary Team Approach

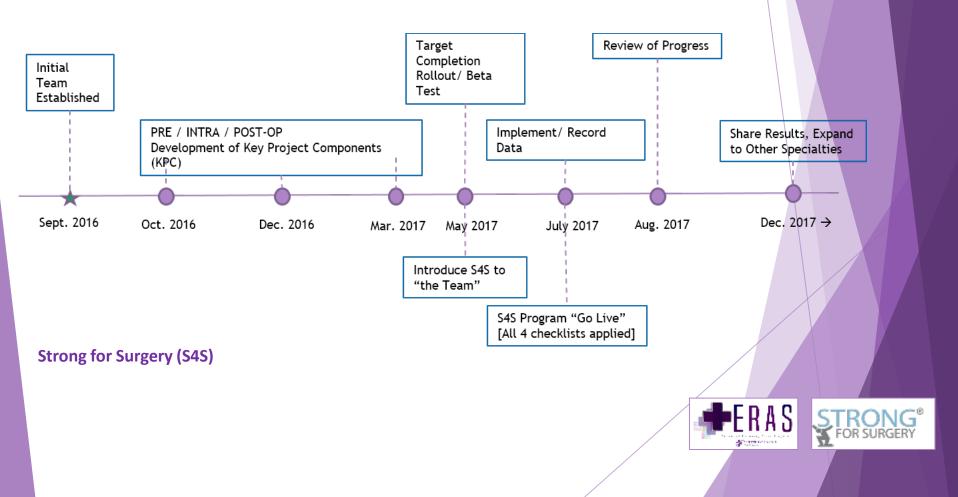


- Surgeon Champion
- Anesthesia
- Surgical Services
- Nurse Educator
- Clinical Informaticist
- Quality Outcomes
- Risk Management
- Marketing
- Administration
- Physical Therapy
- Nursing
- Case Management
- Respiratory
- Pharmacy
- Dietary
- Physician Office
 Staff
- Critical Care



Timeline for ERAS & S4S

Enhanced Recovery After Surgery (ERAS)



Components Addressed in the Pre-Op Clinic

ERAS	S4S
Pt. Education (Pre-op, Post-op, and Discharge Instructions)	Glycemic Control
Carbohydrate Loading	Nutrition
NSQIP Variables Identified	Tobacco Cessation
	Medications
	*Pain Management
	*PreHab / Frailty
	*Delirium in Elderly
	*Pre-Surgery Education

*Future S4S Components [Pending]



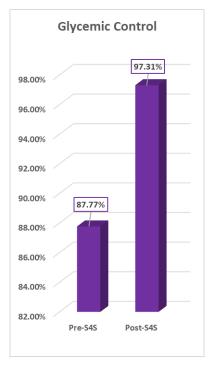
ERAS – Colorectal Results*



*ERAS started with Colorectal



S4S – Glycemic Control Results



S4S principles applied to <u>ALL</u> surgical patients seen in the Pre-Op Clinic by Nurse Practitioner



S4S – Smoking Cessation Results

10.2% of tobacco users quit smoking as defined by patient reported outcomes.









S4S Nutrition & Medications

Nutrition

- Assess for malnutrition, appetite, and ability to take food orally
- ▶ An albumin level <3.5 can be used to assess for post-op complications
- For complex surgeries we recommend supplementation with an immunomodulating supplement

Medication Optimization

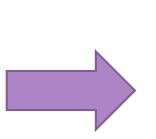
- Assess for bleeding risks
- Beta blockers continued
- ► Continuation of ASA when appropriate.



Continuing the Journey





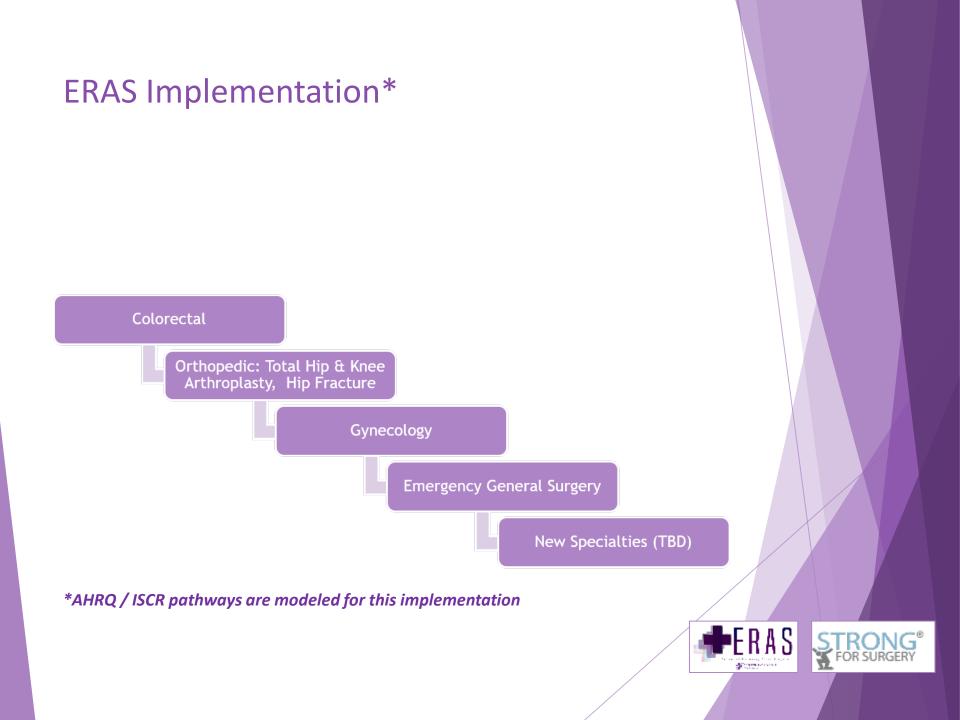






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Lessons Learned

- 1. Strong Leadership is key [e.g. Physician, Senior leadership, Front line management]
- 2. Engagement of key stakeholders
- 3. Establishing the right environment and mindset for a cultural change
- 4. Critically / honestly looking at process issues vs. "people issues"
- 5. Continuously affirming the vision Improving patient outcomes
- 6. Clear, concise, and timely communications with physician stakeholders
- 7. Validating progress and celebrating wins
- 8. Building a culture of "perpetual improvement"



Appendix – Files Are Available For Download

STRONG

Overview of Strong for Surgery

SMOKING CESSATION

GLYCEMIC CONTROL

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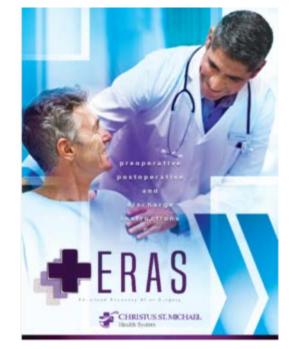
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Blood Sugar Control



All Patients

Does the patient have a prior diagnosis of diabetes?

Yes No

Patient's age > 45? □ Yes □ No

Petient's BMI 230?

Diabetic Patients Degree of Blood Sugar Controls

Hemoglobin A1c level > 7.0%? OR Has any fingerstick reading in the past 2 weeks been >200?

If YES to any of the questions:

Check fasting blood sugar level on the morning of surgery prior to OR case

 If fasting blood glucose level > 200, then recommend use of insulin drip during OR case

If YES or UNKNOWN them

Referral for diabetes management

Yes No

Diabetic Patients Perioperative Management:

If YES, while NPO and during prep:

Reduce Lentus by 50%

WII the patient be NPO after midnight?

 Stop all diabetic medications except for pioglitazone (Actos)

a L Link

Is the patient having bowel prep?

Yes No

Check blood sugars frequently and use sliding scale as needed

IMPORTANT NOTICE

These sample checklists are provided for informational purposes only and should <u>NOT</u> he used in the case of a petient outside of a comprehensive prequentiate purpose much as Shong in Sungery. Patients study for they on information on this checklist are an effectively to constrain advice from a doctor or other professional beakfraum provider. The logor on the checklist are registered instematic of Shong for Sungery and SCOAP. To find out how you can shall using the Shong for Surgery direction and a four check, place contact we at <u>standardseconsitybectual</u> norm.

Varsion 1.08 Revised 12/18/12



Medication Checklist



Bleeding Risks

Is the patient on a prescribed anticoagulant (ex. Cournadin, Plavfx, other)?

Yes No

Is the patient taking over the counter medications that increase bleeding risk (ex. NSAIDS)?

Yes No

Beta-Blockers

Is the patient taking a beta-blocker?

Yes No

If YES them

 Discuss with prescribing MD the safety of stopping medication 1 week prior to surgery

If YES then:

Consider slopping all over the counter medications that can increase risk of bleeding 2 weeks prior to surgery

If YES then:

Patient should take throughout perioperative period

Aspirin

Is the patient taking aspirin for cardiac protection?

Yes No

Herbal Medication

Is the patient taking herbal supplements containing ingredients that may increase perioperative risk (e.g. Echinacea, Garlic, Ginkgo, Ginseng, Kava, Saw Palmetto, St. John's Wort, Valerian)?

Yes No

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Version 1.08 Revised 10/1/13

If YES then:

 Patient should take throughout perioperative period

If YES then:

Consider stopping all herbal supplements that increase perioperative risk 2 weeks prior to surgery

Nutrition Screening Checklist

Screening for Mainutrition

Is BMI less than 197

Yes No

Has the patient had unintentional weight loss of over 8 pounds in the last 3 months?

Yes No

Has the patient had a poor appetite – eating less than half of meals or fewer than two meals per day?

Yes No

Is the patient unable to take food orally (ex. dysphagia, vomiting)?

Yes No

If YES to any of the questions:

 Referral to Registered Dietitian for evaluation unless currently receiving nutrition therapy

Lab Tests for Risk Stratification If YES then:

Is the patient having inpatient surgery?

Check albumin level to assess complication risk after surgery

Supplementation

If YES then:

Is the patient having complex surgery (example: GI anastomosis)? Give evidence-based immune modulating supplementation

Yes No

Yes No

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Version 1.07 Revised 01/25/2018



Smoking Cessation Checklist – All Patients Risk Stratification If YES then: Has the patient ever smaked? Record Patient's Smoking Status Current Smoker Current Smoker Record number of pack-years (packs per day x years smoking) Pack Years Pack Years

Does patient currently smoke?

If YES then:

Advise the patient to stop smoking and set quit date within 2 weeks Quit Date

Refer patient to preferred cessation program
Program Selected

Freedom From Smoking (ALA)
Fian My Quit

Become An Ex

1-800-quit-now

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New York State Partnership for Patients

Hospital Discussion and Questions

Hospital Participants Facilitated by NYSPFP Staff



Next Steps

- Access the Strong for Surgery Toolkit from the NYSPFP website
 - <u>https://www.nyspfp.org/Members/Initiatives/InfectionPrev</u> <u>ention/SSI/Tools.aspx</u>
- Contact your project manager to discuss:
 - Using the Strong for Surgery Toolkit to implement preoperative optimization for elective surgery patients.
 - Hardwiring the Advanced Colon Bundle Elements into workflow and expanding to other types of surgery if you have not already