

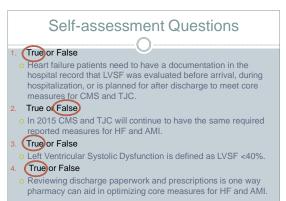
	Core Measu	ures for Heart	Failure
Meas	sure	CMS	TJC
HF-1	Discharge instruction	Retired Jan 1, 2014	Retired Jan 1, 2014
HF-2	Evaluation of Left Ventricular Systolic Function (LVSF)	Keeping	Keeping
HF-3	ACEi or ARB for Left Ventricular Systolic Dysfunction (LVSD)	Retired Jan 1, 2015 Voluntary for 2014	Keeping

	Heart Failure Core Measures
_	HF-1: Discharge instruction
	 Documentation that patients were discharged home w/ written instructions or educational material addressing ALL of the following: activity level, diet, discharge medications, follow-up appointment, weight monitoring, and what to do if symptoms worsen
	HF-2: Evaluation of Left Ventricular Systolic Function (LVSF)
	 Documentation in the hospital record that LVSF was evaluated before arrival, during hospitalization, or is planned for after discharge
	HF-3: ACEi or ARB for Left Ventricular Systolic Dysfunction (LVSD)
	Patients w/LVSD (LVEF <40%) are prescribed an ACEi or ARB at hospital discharge

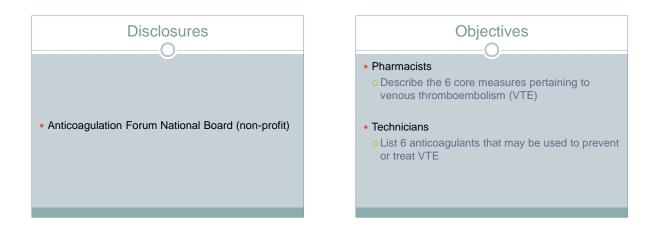


	Acute Myocardial In Core Meas	(/	
Measu	re	CMS	TJC
AMI-1	Aspirin at Arrival	Voluntary	Keeping
AMI-2	Aspirin Prescribed at Discharge	Retired Jan 1, 2015	Keeping
AMI-3	ACEi or ARB for LVSD	Voluntary	Keeping
AMI-5	Beta- Blocker Prescribed at Discharge	Voluntary	Keeping
AMI-7	Median Time to Fibrinolysis	Voluntary	Keeping
AMI-7a	Fibrinolytic Therapy Received Within 30min of Hospital Arrival	Keeping REQUIRED	Keeping
AMI-8	Median Time to Primary PCI	Voluntary	Keeping
AMI-8a	Primary PCI Received Within 90 minutes of Hospital Arrival	Keeping REQUIRED	Keeping
AMI-10	Statin Prescribed at Discharge	Retired Jan 1, 2015	Keeping









Self-assessment Questions

1. True or false

The VTE core measures include both prophylaxis and treatment populations

2. True or false

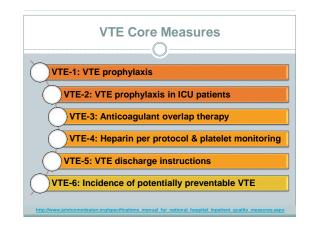
o It is possible to achieve core measures without providing optimal, evidence-based care

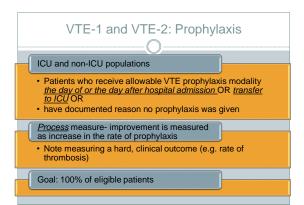
3. True or false

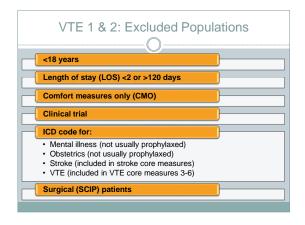
• VTE-5, discharge instructions, pertains to all anticoagulants

True or false

 There are numerous ways pharmacists can aid in optimizing management of VTE prophylaxis and treatment

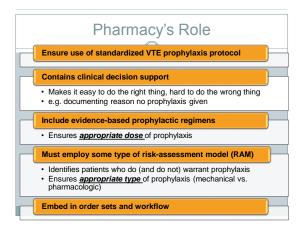


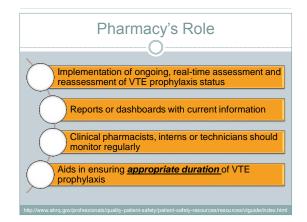


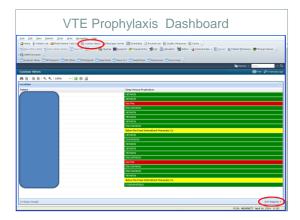


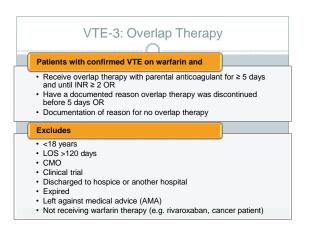
Allowable	" Prophylaxis Modalities	
Low-dose unfraction	nated heparin (UFH)	
Low molecular weig	ght heparin (LMWH)- e.g. enoxaparin	
Factor XA inhibitors	5	
Fondaparinux (Arix		
Rivaroxaban (Xarel		
Apixaban (Eliquis®))	
Warfarin (Coumadin	1®)	
Intermittent pneuma	atic compression devices (IPC)	
Graduated compres	sion stockings (GCS)	
Venous foot pumps	(VED)	-











VTE-3: Overlap therapy

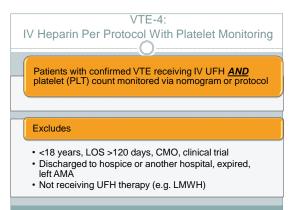
Rationale

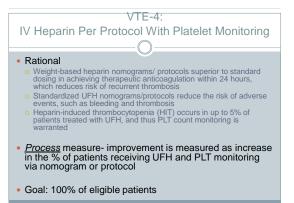
- Warfarin has a very slow onset of action
- Patients with acute VTE must receive rapid-acting parenteral anticoagulation until warfarin is therapeutic
- Discontinuing overlap therapy before 5 days and ${\sf INR}$ \ge 2 places patient at increased risk of recurrent thrombosis

<u>Process</u> measure- improvement is measured as increase in the % of patients receiving "5+2"

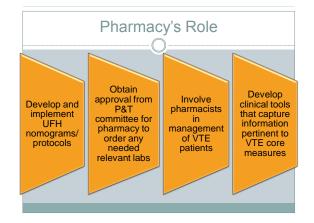
Goal: 100% of eligible patients

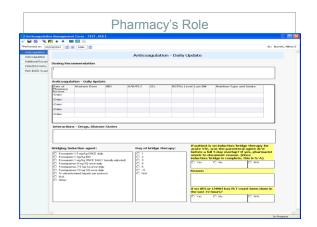
(e.g. those without valid reason for early discontinuation or avoidance of overlap therapy

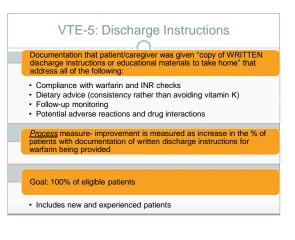




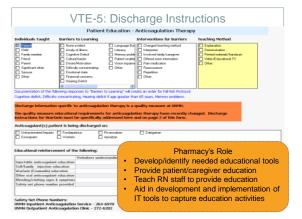
Raschke RA, Reilly BM, Guidry JR, Fontana JR, Srinivas S Ann Intern Med. 1993;119(9):874 Linkins LA, et al. CHEST 2012; Chest 141(2 Suppl):e495S–530S.







	VTE-5: Discharge Instructions
	Caution!
	May lead to "benchmarking mediocrity
	Only pertains to warfarin
	Should strive to include all anticoagulants
• •	Newer, less familiar target-specific oral anticoagulants
• Enoxa	parin monotherapy in patients with acute VTE & malignancy



VTE-6: Potentially Preventable VTE

Patients diagnosed with an acute VTE that did not receive appropriate VTE prophylaxis between admission and time to VTE diagnosis

- VTE present on admission (POA) excluded
- o Patients with contraindication to VTE prophylaxis excluded

Outcome measure

• Clinical outcome of acute VTE

Goal: 0%

- Requires more in-depth chart review and abstraction
 - Pharmacy may not have a big role in VTE-6
 Consider multidisciplinary discussion to determine what "i
 - Consider multidisciplinary discussion to determine what "went wrong" and ways to prevent recurrence
- o Real-time analysis preferable, but may not be feasible

Self-assessment Questions

I. True or false

The VTE core measures include both prophylaxis and treatment populations

2. True or false

 It is possible to achieve core measures without providing optimal, evidence-based care

3. True or false

o VTE-5, discharge instructions, pertains to all anticoagulants

4. True or false

 There are numerous ways pharmacists can aid in optimizing management of VTE prophylaxis and treatment





Objectives

Pharmacists

• Describe the 8 national inpatient quality measures pertaining to SCIP

Technicians

• List the inpatient quality reporting measures pertaining to SCIP that are time bound.







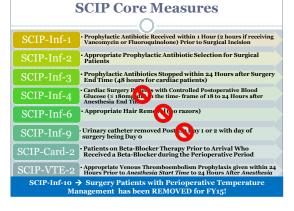
Morbidity

- Most common type of Healthcare Associated Infection (HAI) (~22% of all infections)
- An estimated 66,100 SSI's per year are attributed to SCIP procedures
- According to the CDC, an estimated 53,700 SSI's were associated with 10 SCIP procedures
- o 2%-5% of patients undergoing inpatient surgery develop a SSI
- Each SSI is associated with an increased LOS of approximately 7-10 days

• Mortality

- o 3% mortality
- $\circ~$ 2-11 times higher risk of death compared with patients without an SSI
- o 77% of deaths among patients with SSI are directly attributable to SSI
- Over 8% of the HAI's resulting in death in the US were associated with SSIs.
- Costs
 - Estimated cost per infection ranges from \$11,000 \$35,000
 - Estimated total cost in the United States ranges from \$3 billion \$10 billion annually

An **estimated** <u>40-60%</u> of these infections are preventable



How does CMS Measure SCIP?

- The following applies to all SCIP measures:
 - o <u>Type of Measure</u>: Process
 - <u>Improvement is Noted As</u>: An increase in rate (%) of compliance
 - o Goal: 100% of eligible patients

We Can't Afford Even One Miss!!

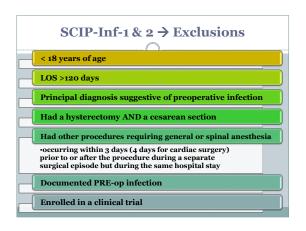
We **CAN** achieve our goal of 100% compliance if we **ALL** work together to <u>make it happen</u>!

SCII	P - INFECTION MODULE
	O
SCIP-Inf-1	 Prophylactic Antibiotic Received within 1 Hour (2 hours if receiving Vancomycin or Fluoroquinolone) Prior to Surgical Incision
SCIP-Inf-2	Appropriate Prophylactic Antibiotic Selection for Surgical Patients
SCIP-Inf-3	• Prophylactic Antibiotics Stopped within 24 Hours after Surgery End Time (48 hours for cardiac patients)
SCIP-Inf-4	• Cardiac Surgery Patients with Controlled Postoperative Blood Glucose (≤ 180mg/dL) in the time- frame of 18 to 24 Hours after Anesthesia End Time
SCIP-Inf-6	• Appropriate Hair Removal (no razors)
SCIP-Inf-9	Urinary catheter removed on Post-Op Day 1 or 2 with day of surgery being Day 0

Prophylactic Antibiotics – QUESTIONS?

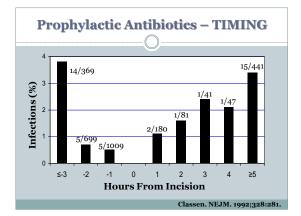
- Which cases benefit/are included?
- When should you start?
- Which drug should you use?
- How much should you give?
- How long should antibiotics be continued?

Surgical Procedures Coronary Artery Bypass Graft or Other Cardiac Surgery or Asscular Surgery Hip Arthroplasty or	Approved Antibiotics Cefazolin or Vancomycin ¹ Η β-lactam allergy: Vancomycin ¹ or Clindamycin ²
Other Cardiac Surgery or /ascular Surgery Hip Arthroplasty or	If β-lactam allergy:
Other Cardiac Surgery or /ascular Surgery Hip Arthroplasty or	
/ascular Surgery Hip Arthroplasty or	Vancomycin ² or Clindamycin ²
lip Arthroplasty or	
	Cefazolin or Vancomycin1
Knee Arthroplasty	If β-lactam allergy: Vancomycin ² or Clindamycin ²
	Ampicillin/Sulbactam or
Colon Surgery	Ampiolitin/Subactam or Metropidazole + Cefazolin or
	Metronidazole + Celazolin di
	Lif 6-lactam allergy:
	Clindamycin + Aminoglycoside or
	Clindamycin + Quinolone or
	Metronidazole + Aminoglycoside or
	Metronidazole + Quinolone
Abdominal Hysterectomy	Cefazolin or Cefuroxime or Ampicillin/Sulbactam
ar	If β-lactam allergy:
	Clindamycin + Aminoglycoside or
/aginal Hysterectomy	Clindamycin + Quinolone or
	Metronidazole + Aminoglycoside or
	Metronidazole + Quinolone or Vancomycin + Aminoglycoside or
	Vancomycin + Aminogiycoside or Vancomycin + Quinolone
Principal Procedure Code of Abdomina	
lysterectomy with an Other Procedure	Clindamycin + Aminoglycoside or
Code of Colon Surgery	Clindamycin + Quinolone or
ar	Metronidazole + Aminoglycoside or
/aginal Hysterectomy with an Other	Metronidazole + Quinolone or
Procedure Code of Colon Surgery	Vancomycin + Aminoglycoside or



Prophylactic Antibiotics - QUESTIONS?

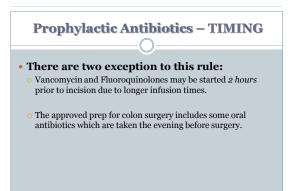
- Which cases benefit/are included?
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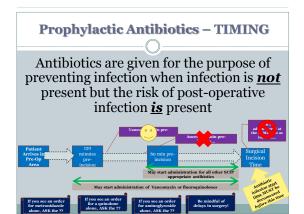


Prophylactic Antibiotics – TIMING

SCIP-Inf-1

- Prophylactic antibiotic must be received within one hour prior to surgical incision.
- This is measured by checking the earliest documented start time for the ordered antibiotic and comparing it to the surgical incision date and time for the procedure. To meet the measure the time <u>cannot</u> exceed 60 minutes.





Prophylactic Antibiotics - QUESTIONS?

- Which cases benefit/are included?
- When should you start?
- Which drug should you use?
- How much should you give?
- · How long should antibiotics be continued?

Surgical Procedures	Approved Antibiotics
Coronary Artery Bypass Graft or	If 6-lactam allergy:
Other Cardiac Surgery or	Vancomycin ² or Clindamycin ²
Vascular Surgery	variconycit ² of candanycit ²
Hip Arthroplasty or	Cefazolin or Vancomycin ¹
Knee Arthroplasty	If β-lactam allergy:
Knee Arthropiasty	Vancomycin ² or Clindamycin ²
Colon Surgery	Ampicillin/Sulbactam or
	Metronidazole + Cefazolin or
	Metronidazole + Ceftriaxone
	If β-lactam allergy: Clindamycin + Aminophycoside or
	Clindamycin + Aminogrycoside or Clindamycin + Quinolone or
	Metronidazole + Aminoglycoside or
	Metronidazole + Quinclone
Abdominal Hysterectomy	Cefazolin or Cefuroxime or Ampicillin/Sulbactam
or	If 8-lactam allergy:
	Clindamycin + Aminoglycoside or
Vaginal Hysterectomy	Clindamycin + Quinolone or
	Metronidazole + Aminoglycoside or
	Metronidazole + Quinolone or
	Vancomycin + Aminoglycoside or
	Vancomycin + Quinolone
Principal Procedure Code of Abdomin	
Hysterectomy with an Other Procedur	Clindamycin + Aminoglycoside or
Code of Colon Surgery	Clindamycin + Quinolone or
or	Metronidazole + Aminoglycoside or
Vaginal Hysterectomy with an Other	Metronidazole + Quinolone or
	Vancomycin + Aminoglycoside or
Procedure Code of Colon Surgery	Vancomycin + Quinolone

Guidelines	vs.	SCIP	Core	Measures
		_		

Guidelines	SCIP Measures
Comprehensive for all surgery types	Measures for specific surgery types
Provides antimicrobial recommendations for all surgery types	Provides antimicrobial choices for each reportable surgery type
Recommends all prophylactic antimicrobials be given 60 minutes prior to incision (120 for fluoroquinolones and vancomycin)	Requires all prophylactic antimicrobials be given 60 minutes prior to incision (120 for fluoroquinolones and vancomycin)
Includes dosing recommendations	No dosing information listed
Includes recommended redosing intervals	No redosing information listed
Advocates discontinuation of all prophylactic antimicrobials within 24 hrs	Requires discontinuation of all prophylactic antimicrobials within 24 hours (48 for cardiac)
Includes pediatric recommendations	No pediatric surgical data provided

	O	
	1999 (48 pages)	2013 (89 pages)
Preoperative-dose timing	"At induction of anesthesia"	Within 60 minutes before surgical incision (vancomycin and fluoroquinolones 120 minutes)
Updates on recommended doses	Recommends lower doses: Cefazolin 1 gm Vancomycin 1 gm Clindamycin 600 mg Gentamicin 1.7 mg/kg	Recommends higher doses: Cefazolin 2 gm Vancomycin 15 mg/kg Clindamycin 900 mg Gentamicin 5 mg/kg
Morbidly obese	No comments	Cefazolin 3 gm for patients weighing > 120 kg
Redosing Interval Defined	No redosing intervals listed	Redosing intervals listed Intraoperative redosing for procedures lastin longer than 2 half lives of antibiotic
Duration of prophylaxis	Evidence discussed in text, however no definitive recommendations	Single dose or continuation for < 24 hours fo most procedures

Operative Procedure	Common Pathogens	Recommended Antimicrobials* Arr NO ALLERGIES	B-Lactam Allergy ⁴	Post Operative Duration
Cardiac ^{5,0}	S. epidermidis, S. aureus	Cefezolin	Vancomycin	Discontinue within 48 hrs of end anesthesia time
Thoracic ⁶ (non cardiac)	S.aureus, S.epidermidis, streptococci, enteric: gram-negative bacili	Cefazolin	Vancomycin	Discontinue within 24 hrs of end anesthesia time
Gastrointestinal				
Small Intestine (ron obstructed), Gastroduodenal [®] Including: .PEG placementhevision	Enteric gram-negative bacili, gram positive cooci	Forhigh risk patients ⁴ : Cefazolin or Ampicilini/subactam	Clindamycin plus either Gentamicin or Ciprofloxacin or Levofloxacin*	Discontinue within 24 hrs of end anesthesia time
Small Intestine (obstructed)	Enteric gram-negative bacili, gram positive cocci	Cefazolin plus Metronidazole	Metronidazole plus either Gentamicin or Ciprofloxacin or Levofloxacin'	
Billary *	Enteric gram-negative bacili, gram positive cocci	For open procedure or high risk patients+X Cefazolin plus Metronidazole'	Clindamycin plus either Gentamicin or Ciprofloxacin or Levofloxacin/	
Colorectal ⁸ , Appendectomy ⁴ (ron-perforated)	Enteric gram-negative bacili, anaembes, enterococci	Cefazolin plus Metronidazole	Clindamycin plus either Gentamicin or Ciprofloxacin or Levofloxacin!	
Head and Neck * Contaminated	Anaerobes, Enteric gram-negative bacili, S.aureus, streptococci	Cefazolin pius Metronidazole	Clindamycin	Discontinue within 24 hrs of end anesthesia time
Neurosurgery *	Sauress, Sapidermidis	Cefazolin	Clindamycin or Vancomycin	Discontinue within 24 hrs of end anesthesia time
Orthopedic * Including: Spinal, Hip and Knee Arthroplasty*	Saureus, Sapidernidis	Cefazolin	Clindamycin or Vancomycin	Discontinue within 24 hrs of end anesthesia time
Hysterectomy ^{1, 9} , Cesarean Delivery	Enteric gram-negative bacili, anaerobes, Gp B strep, enterocooci	Cefazolin or Ampicillin/Sulbactam	Clindamycin or Vancomycin plus either Gentamicin or Ciprofloxacin'	Discontinue within 24 hrs of end anesthesia time
Urologic *	E. coli. S. aureus. S epidemidis. Go			
(with risk factors for infection)	A Streptococcus		otic Guidelines by pharmacy f	
Clean (without entry into urinary tract)	E. coli, S. aureus, S.epidermidis, Gp A Streptococcus		sting in all surg	
	antibiotics lo d anesthesia	Pyxis form	rmine availabil s and consider sh, historical s	ease of use

Vancomycin Documentation Criteria
O
If Vancomycin is ordered, <u>one of the following MUST be documented</u> <u>pre-operatively</u> by physician/APN/PA or <i>pharmacist</i> :
Beta-lactam allergy (PCN or cephalosporin)
MRSA, Colonization or infection
Patient with an acute inpatient hospitalization within the last year
Patient residing in a nursing home within the last year
Patient with chronic wound care or dialysis
Patient with continuous inpatient stay more than 24 hours prior to the principal procedure
Patient transferred from another inpatient hospitalization after a 3 day stay
Patient undergoing valve surgery



	ed Doses and Redosing Intervals for Commonly Us Recommended Dose		Half-Life in Adults with Normal	Recommended Redosing Interval	Infusion
Antimicrobial	Adult"	Pediatrics ^b	Renal Function, hr	(from initiation of preoperative dose), hr ^c	Duration (minutes
Ampicillin/ sulbactam	3 g (ampicillin 2 g/ sulbactam 1 g)	50 mg/kg of the ampicillin component	0.8-1.3	2	15
Ampicillin	2 g	50 mg/kg	1-1.9	2	15-30
Aztreonam®	2 g	30 mg/kg	1.3-2.4	4	30
Cefazolin	2 g*	30 mg/kg	1.2-2.2	4	10-60
Cefuroxime	1.5 g	50 mg/kg	1-2	4	15-30
Ceftriaxone	2 g*	50-75 mg/kg	5.4-10.9	NA	30
Ciprofloxacin	400 mg	10 mg/kg	3-7	NA	60
Clindamycin	900 mg	10 mg/kg	2-4	6	10-60
Fluconazole	1 400 mg	6 mg/kg	30	NA	60-120
Gentamicin [#]	5 mg/kg based on dosing weight (single dose)	2.5 mg/kg based on dosing weight	2-3	NA	30-60
Levofloxacin ⁴	500 mg	10 mg/kg	6-8	NA	60-90
Metronidazole	500 mg	15 mg/kg (Neonates weighing <1200g receive a single 7.5-mg/kg dose)	6-8 NA 30-60 All Pre and Post-Op		
Moxifloxacin ^R	400 mg	10 mg/kg	, Orde	r-sets should	60
Piperacillin- tazobactam	3.375 g	Infants 2-9 mo: 80 mg/kg of piperacillin component Children >9 mo and ≤40 kg: 100 mg/kg of piperacillin component	0 be reviewed by 30 Pharmacy for accuracy of dosing		g
Vancomycin	15 mg/kg	15 mg/kg	4-8	NA	60-90
Oral antibiotics for	colorectal surgery prophy	laxis (used in conjunction	with a mechanic	al bowel preparation)	
Erythromycin base	1g	20 mg/kg	0.8-3	NA	NA
Metronidazole	1 19	15 mg/kg	6-10	NA	NA
Neomycin	18	15 mg/kg	2-3	NA	NA

Prophylactic Antibiotics – **Re-dosing**

- Research shows that the success of the prophylactic antibiotics lies with maintaining a drug blood level during surgery
- If the procedure is long (over 4 hours) a second dose may need to be given...

	Recommended Dose			Recommended	
	inccommended bose		Half-Life in Adults	Redosing Interval	Infusio
Antimicrobial			with Normal	(from initiation of	Duratio
			Renal Function, hr		minute
	Adult [®]	Pediatrics ^b		hr	
Ampicillin/ sulbactam	3 g	50 mg/kg of the ampicillin	0.8-1.3	2	15
	(ampicillin 2 g/ sulbactam 1	component			
	g)				
Ampicillin	2 g	50 mg/kg	1-1.9	2	15-30
Aztreonam®	2 g	30 mg/kg	1.3-2.4	4	30
Cefazolin	2 g*	30 mg/kg	1.2-2.2	4	10-60
Cefuroxime	1.5 g	50 mg/kg	1-2	4	15-30
Ceftriaxone	2 g*	50-75 mg/kg	5.4-10.9	NA	30
Ciprofloxacin	400 mg	10 mg/kg	3-7	NA	60
Clindamycin	900 mg	10 mg/kg	2-4	6	10-60
Fluconazole	400 mg	6 mg/kg	30	NA	60-12
Gentamicin [#]	5 mg/kg based on dosing	2.5 mg/kg based on	2-3	NA	30-60
	weight (single dose)	dosing weight			
Levofloxacin ^f	500 mg	10 mg/kg	6-8	NA	60-90
Metronidazole	500 mg	15 mg/kg	6-8	NA	30-60
		(Neonates weighing			
		<1200g receive a single			
		7.5-mg/kg dose)			
Moxifloxacin [®]	400 mg	10 mg/kg	8-15	NA	60
Piperacillin-	3.375 g	Infants 2-9 mo: 80 mg/kg	0.7-1.2	2	30
tazobactam		of piperacillin component			
		Children >9 mo and ≤40 kg:			
		100 mg/kg of piperacillin			•
		component			
Vancomycin	15 mg/kg	15 mg/kg	4-8	NA	60-90
Oral antibiotics for	colorectal surgery prophy.	laxis (used in conjunction	with a mechanica	bowel preparation)	
Erythromycin base	1 g	20 mg/kg	0.8-3	NA	NA
Metronidazole	1g	15 mg/kg	6-10	NA	NA
Neomycin	1g	15 mg/kg	2-3	NA	NA

Prophylactic Antibiotics – QUESTIONS?

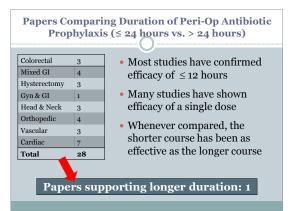
- Which cases benefit/are included?
- When should you start?
- Which drug should you use?
- How much should you give?
- How long should antibiotics be continued?

Prophylactic Antibiotics - DURATION SCIP-Inf-3 Prophylactic antibiotics must be discontinued within 24 hours after Anesthesia End Time. Consider surgical sticker scanned to pharmacy for antimicrobial timing if not accessible electronically (i.e. anesthesia on a separate system than pharmacy...) There is one exception to this indicator: > Prophylactic antibiotics must be discontinued within 48 hours after Anesthesia End Time for cardiac surgery. Daily Review of SCIP Report: Antibiotic stop date/time Ensure all post-op order-sets are Chart review for documentation reviewed by pharmacy and have appropriate frequencies/stop times justifying extended duration of antibiotic administration

Prophylactic Antibiotics - DURATION

"A goal of prophylaxis with antibiotics is to provide benefit to the patient <u>with as little risk as possible</u>. It is important to maintain therapeutic serum and tissue levels throughout the operation. Intraoperative re-dosing may be needed for long operations. However, **administration of antibiotics for more than a few hours after the incision is closed offers no additional benefit to the Surgical patient**. Prolonged administration does increase the risk of Clostridium difficile infection and the development of antimicrobial resistant pathogen

Consider requiring all antimicrobials to have an indication listed prior to being profiled...



Consequences of Prolonged Antimicrobial Use

- Increased antibiotic and drug administration costs
- Increased antibiotic-associated complications
- Increased patterns of antibiotic resistance
- Clostridium difficile Enterocolitis
- Colonization with MRSA
- > Based on this, many guidelines recommend not continuing any prophylactic antibiotics post-op OR ordering just one dose to be given before the patient leaves PACU.

Reasons To Extend Post-Op Antibiotics

- Postoperative infection
- · Lower extremity original or revision arthroplasty with documentation of a current benign or malignant bone tumor of the same extremity
- Erythromycin for the purpose of increasing gastric motility
- · Demeclocycline for the treatment of SIADH or hyponatremia
- · An antibiotic was administered postoperatively for the: treatment of hepatic encephalopathy
 - treatment of pulmonary fibrosis
 - treatment of acne or rosacea

The practitioner must document the very specif Symptoms alone don't count! reason for antibiotic extension \rightarrow either written or dictated after the incision bu Pharmacist documentation is not accepted... days for cardiac surgery) after anesthesia end time

DCD

SCIP - VTE MODULE

- <u>SCIP-VTE-2:</u> Appropriate Venous Thromboembolism Prophylaxis given within 24 Hours Prior to Anesthesia Start Time to 24 Hours After Anesthesia End Time
- Mechanical and/or pharmacological prophylaxis is ordered according to VTE risk assessment and type of surgery, OR **document reason** for **NOT** administering BOTH mechanical and pharmacological prophylaxis.

Physician, PA, APN, or *pharmacist* documentation required if there is a reason for NOT administering or contraindicated : i.e. open wounds, bleeding risk...

Things to remember:

- Patients whose surgery time was ≤ 60 minutes are excluded
- Check for Preadmission Oral Anticoagulation and document findings!
- An allergy or ADR to one type of pharmacological prophylaxis is NOT sufficient as a reason for not administering all pharmacological prophylaxis.
- Patient refusal (refused to the chaminate manifest and pharmacologic) must be documented within 24 hrs after End of Anesthesia time, and <u>may</u> be documented by the RN.

SCIP - VTE MODULE					
_	Intracranial Neurosurgery	Select from any of the following			
	Low molecular weight heparin (LMWH)	and any or the following			
	Low-dose unfractionated heparin (LDUH)				
ū					
	LDUH or LMWH combined with IPC or GCS				
	Note: Current guidelines recommend postoperative low	w molecular weight heparin for Intracranial Neurosurgery			
	General Surgery	Select from any of the following			
	Low molecular weight heparin (LMWH)				
	Low-dose unfractionated heparin (LDUH)				
	Factor Xa Inhibitor (fondaparinux)				
	Intermittent pneumatic compression devices (IPC				
	Gynecologic Surgery	Select from any of the following			
	Low molecular weight heparin (LMWH)				
	LDUH or LMWH or Factor Xa Inhibitor combined				
-	Urologic Surgery	Select from any of the following			
	Low molecular weight heparin (LMWH)				
	Low-dose unfractionated heparin (LDUH)				

- Factor Xa Inhibitor (fondaparinux) Intermittent pneumatic compression devices (IPC)
- LDUH or LMWH or Factor Xa Inhibitor combined with IPC or GCS

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SCIP - VTE MODULE						
	\bigcirc					
	ive Total Knee or Total Hip Replacement Select from any of the following					
	cular weight heparin (LMWH)					
	unfractionated heparin (LDUH)					
	Inhibitor (fondaparinux)					
	r Xa Inhibitor (Rivaroxaban)					
Aspirin						
Warfarin						
	nt pneumatic compression devices (IPC)					
	ot pump (VFP) pod and Drug Administration has approved Xarelto (rivaroxaban) to reduce the risk of blood clots, deep vein					
	to reduce the risk of blood clots, deep vein and pulmonary embolism (PE) following knee or hip replacement surgery ONLY.					
unombosis (D	Hip Fracture Surgery Select from any of the following					
Low mol	cular weight heparin (LMWH)					
	unfractionated heparin (LDUH)					
Factor X	Inhibitor (fondaparinux)					
Aspirin						
□ Warfarin	Daily Review of SCIP Report:					
Intermit	Intermittent pr VTEP start date/time					
	•VTEP dosing and appropriateness based					
	on procedure					
	•Chart review for documentation justifying					
	reasons NOT to administer					
	reasons nor to administer					

	Examples of reasons for not administering mechanical prophylaxis:
	Arterial insufficiency of lower extremities
	• Bilateral amputee
	 Bilateral lower extremity trauma
	• Patient refusal
	 Patients on continuous IV heparin within 24 hours before or after surgery
•	Examples of reasons for not administering pharmacological prophylaxis:
	 Active bleeding (GIB, cerebral hemorrhage, retroperitoneal bleeding)
	 Bleeding risk
	• GI bleed
	 Hemorrhage
	 Patient refusal
	 Patients on continuous IV heparin within 24 hrs before or after surgery
	 Risk of bleeding

te: Physician documentation of bleeding risk or active bleeding <u>in reference to</u> the normal risk of bleeding or to the normal bleeding associated with surgery, is not considered a contraindication to pharmacological VTE prophylaxis.

SCIP - CARDIOVASCULAR MODULE

SCIP-Card-2

- > Patients on Beta-Blocker Therapy Prior to Arrival Who Received a Beta-Blocker during the Perioperative Period (Day prior to surgery through Post-Op Day 2 with day of surgery being Day 0)
 - o Continue if patient on home beta blocker therapy
- Must document date of last dose taken, if taken prior to arrival
- · Beta blocker may be given 24 hrs. prior to surgery or day of procedure (up to 12 midnight) If held according to parameters, physician, PA, APN, or pharmacist
- reason must be documented
- Then Beta blocker should be continued through POD's 1 & 2 If held according to parameters, physician, PA, APN, or pharmacist reason must be documented EACH day!

SCIP - CARDIOVASCULAR MODULE Perioperative myocardial ischemia has been identified as the #1 risk factor for mortality after non-cardiac surgery. This is attributed to the exaggerated sympathetic response leading to persistently elevated heart rate. Has the potential to significantly reduce cardiac deaths for up to 2 years postoperatively! Reasons for NOT administering Beta-Blocker Perioperative: Bradycardia [HR < 50] The use of bradycardia as a reason must be substantiated with documentation that the heart rate was less than 50 bpm. Hypotension [systolic < 100 mm/Hg] $\circ\,$ The use of hypotension as a reason must be substantiated by documentation that the blood pressure was < 100 mm/Hg.

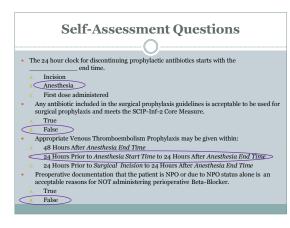
Concurrent use of intravenous inotropic medications during the peri-op period

→ Preoperative documentation that the patient is NPO or due to NPO status alone is not acceptable

SCIP Documentation Requirements				
Indicator	Documentation Requirements			
Pre-op antibiotic administration within 1 hour of incision (2 hr window allowed for Vancomycin & FQN)	•MUST clearly document to reflect actual administration and 1. ABX Name; 2. Date of Admin; 3. Time of Admin; 4. Route of ABX. •Document suspected/diagnosed infections clearly. •Be mindful of delays in surgery			
Antibiotic selection	•MUST clearly document to reflect actual administration and 1. ABX Name; 2. Date of Admin; 3. Time of Admin; 4. Route of ABX. •Document suspected/diagnosed infections clearly. •MDs must use appropriate prophylactic antibiotic •Document clarification of appropriate antibiotic selection for patients with beta- lactam allergy			
Antibiotic discontinued w/in 24 hours of anesthesia end time	•MD/APN/PA order reflecting continuation of antibiotics must have documentation of allowable reason to extend •The date/time/route of antibiotic administration <u>MUST</u> clearly documented			

SCIP Documentation Requirements

O					
Indicator	Documentation Requirements				
VTE ordered & given w/in 24 hours anesthesia end time	 Date/time/route of VTE administration <u>MUST</u> be clearly documented by Nursing in the appropriate data field 				
Beta Blocker given perioperatively, if on Beta Blocker prior to arrival	 <u>• 2 categories:</u> Patients with a LOS postoperatively < 2 days: Looking for documentation of administration of BB the day prior to or the day of surgery Patients with a LOS postoperative 2 or more days: Looking for documentation of administration of BB the day prior to or day of surgery AND POD 1 or POD 2 • A Conditional Hold with parameters (re: HR or BP) counts as a reason IF there is documentation that the beta-blocker was held due to the specified parameters. A reason must be noted each day the BB is held or not administered. Note: If pt took BB prior to arrival, the date and time of the last dose must be documented for specific documentation that the BB was taken the day of surgery, to determine if Wing adjust prior to arrival. 				



REFERENCES



QUESTIONS?					
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