

# Pharmacist Meeting

November 3, 2016

## CRRT – order set confusion

11. Pre Blood Pump (PBP) Fluid and Flow Rate (white scale - minimum 800 ml/hr)  
*Prismaflo w/ Ca 2.5mg/l 1000ml/hr*  
 0.5% Trisodium Citrate at \_\_\_\_\_ ml/hr.  
PHARMACY PREPARED BY PHARMACEUTICAL SERVICES  
 PSOF 1916  
 Physician Standing Order (1/16)

CONTINUOUS RENAL REPLACEMENT THERAPY (CRRT) ORDERS

12. Dialysate Fluid and Flow Rate (Green Scale)
- Prismaflo BGK 4/0/1.2 (Sodium 140mEq/L, Magnesium 1.2 mEq/L, Potassium 4 mEq/L, Chloride 110.2 mEq/L, Lactate 3 mEq/L, Bicarbonate 32 mEq/L, Glucose 110 mg/dl). *Add Ca 2.5mg/l*
  - Prismaflo B22GK 4/0 (Sodium 140mEq/L, Magnesium 1.5 mEq/L, Potassium 4 mEq/L, Chloride 120.5 mEq/L, Lactate 3 mEq/L, Bicarbonate 22 mEq/L, Glucose 110 mg/dl).  
 Rate: 2000 ml/hr
13. Replacement Fluid and Flow Rate (purple scale minimum 200 ml/hr *Pre-filter*)
- Prismaflo BGK 4 / 0 / 1.2 (Sodium 140 mEq/L, Magnesium 1.2 mEq/L, Potassium 4 mEq/L, Chloride 110.2 mg/L, lactate 3 mEq/L, Bicarbonate 32 mEq/L, Glucose 110 mg/dl). *Add Ca 2.5mg/l*
  - Prismaflo B22GK 4 / 0 (Sodium 140 mEq/L, Magnesium 1.5 mEq /L, Potassium 4 mEq/L, Chloride 120.5 mEq/L, Lactate 3 mEq/L, Bicarbonate 22 mEq/L, Glucose 110 mg/dl).  
 Rate: 1800 ml/hr

## CRRT – Pharmacy Set Changes

PHARMEM.N (AVF/LIVE/MIS/178/) - BALDWIN,JEFFREY G.

Options Edit Help

Enter Orders

Patient TEST,TEST Acct # 0035030573 Loc RAD U # 0367095  
 Ag/Sx 87/F Rm Reg 06/05/12  
 Status PRE REF Bed DIS

DOB: 02/01/29 Service: Pharmacy Site: MAIN

Delete?	Order Type	Medication
1	M	HEPARIN 1000 UNIT/ML 10 ML UL
2	M	ALTEPLASE (tPA) 2 MG/2 ML UL
3	M	WATER FOR INJECTION USP 10 ML UL
4	PIU	CRRT BGK 4/0/1.2 PRE BLOOD PUMP FLD 5,000 ML (WHITE)
5	PIU	CRRT B22GK 4/0 PRE BLOOD PUMP FLD 5,000 ML (WHITE)
6	PIU	TRISODIUM CITRATE 4,000 ML (WHITE)
7	PIU	CRRT BGK 4/0/1.2 DIALYSATE FLUID 5000 ML (GREEN)
8	PIU	CRRT B22GK 4/0 DIALYSATE FLUID 5,000 ML (GREEN)
9	PIU	CRRT BGK 4/0/1.2 REPLACEMENT F 5,000 ML (PURPLE)
10	PIU	CRRT B22GK 4/0 REPLACEMENT FLD 5,000 ML (PURPLE)

Links (Ex: 1,2,3) Link Type

1  
2

## Protocol & Order Set Changes – Cardizem Drip Protocol

1. Continuous EKG monitoring.
2. Vital signs including blood pressure prior to administration, 15 minutes after each bolus and Q 1 hour X 2, then Q 4 hours during the infusion.
3. Initial dose 0.25 mg/kg (maximum 20 mg) IV bolus over 2 minutes. Heart rate should slow in 2-7 minutes. If patient is on beta-blocker or amiodarone, reduce dose by 50%.
4. Immediately follow bolus with Diltiazem drip (concentration = 1mg/1ml) at 10 mg/hr (10 ml/hr).
5. If HR > 120 after 30 minutes (following initial bolus and drip at 10 mg/hr) give additional loading dose of 0.35 mg/kg (maximum 25 mg) IV bolus over 2 minutes. Following bolus, increase drip by 5 mg/hr to 15 mg/hr (maximum dose).
6. If HR remains uncontrolled (> 120) after 1 hour with drip at 15 mg/hr, notify MD for further treatment.
7. If systolic BP drops below 90 mmHg, stop drug until systolic BP > 90. When systolic BP > 90, restart drip at 1/2 the previous rate unless the patient was symptomatic with the drop in BP. Hypotension has been shown to resolve in 1-3 hours.
8. If HR < 90 decrease infusion by 5 mg/hr and if HR < 80 decrease infusion rate by an additional 50%.
9. If HR < 60 at any point during infusion, stop the infusion and resume at 1/2 the previous rate when HR > 90. If at any point HR < 50, stop the infusion and notify MD for further instructions.
10. If patient converts to normal sinus rhythm (NSR) stop the infusion. If the patient's rhythm converts out of NSR and HR > 90 resume at previous rate. If the infusion has been stopped for > 2 hours a repeat bolus dose may be necessary - contact physician for orders if HR does not respond to the restarted infusion.

## Colon Surgery Post-op Orders – Changes to limit APAP exposure

8. Analgesia:  
 If epidural in place:  
 ▶ Follow ANESTHESIA STANDING ORDERS-PATIENT CONTROLLED ANALGESIA for epidural and nausea.  
 ▶ Initiate PCA when epidural has been discontinued or if patient has no epidural.
- Morphine PCA:  
 Morphine (conc. = 1mg/ml) IV  
 PCA dose: 1mg  
 Lockout interval: 6 min  
 One hour limit: 8 mg
- Hydromorphone (Dilaudid) PCA:  
 Hydromorphone (conc. = 1mg/ml)  
 PCA dose: 0.2mg  
 Lockout interval: 10 min  
 One hr limit: 1.2 mg
- Multi-modal Pain Options:  
 Acetaminophen (Tylenol) 1 gm PO Q 6 hours.  
 Gabapentin (Neurontin) 300 mg PO bid if ≥ 70 years old  
 Gabapentin (Neurontin) 600 mg PO bid if < 70 years old
- Moderate Pain (choose only one - if more than one box is checked only the first selection will be used)  
 \*If scheduled Acetaminophen is ordered the Oxycodone without APAP option will be substituted.  
 Hydrocodone 5 mg + Acetaminophen 1 tablet PO Q 4 hrs PRN moderate pain  
 Oxycodone 5 mg + Acetaminophen 1 tablet PO Q 6 hrs PRN moderate pain  
 Oxycodone 5 mg 1 tablet PO Q 6 hrs PRN moderate pain
- Severe Pain (choose only one - if more than one box is checked only the first selection will be used)  
 \*If scheduled Acetaminophen is ordered the Oxycodone without APAP option will be substituted.  
 Hydrocodone 5 mg + Acetaminophen 2 tablets PO Q 4 hrs PRN severe pain  
 Oxycodone 5 mg + Acetaminophen 2 tablets PO Q 6 hrs PRN severe pain  
 Oxycodone 5 mg 2 tablets PO Q 6 hrs PRN severe pain
11. Fever:  
 Acetaminophen (Tylenol) 650 mg PO/PR Q 4 hrs PRN. DO NOT GIVE if on scheduled Tylenol.

## Pneumonia Order Set Changes

In the HCAP/HAP/VAP section:

- 1) Cefepime has replaced piperacillin/tazobactam (please keep in mind that cefepime can be automatically dose adjusted)
- 2) Non-ICU patients no longer receive a second gram negative agent
- 3) ICU patients will always receive tobramycin as a second agent regardless of renal function
  - a. 7mg/kg dose for normal renal function (CrCl ≥ 60 mL/min)
  - b. 5mg/kg dose for renal dysfunction (CrCl <60 mL/min)

Kinetics

[Aminoglycoside Reference](#)

[Antimicrobial Dosing – CRRT & IHD](#)

### HEALTHCARE ASSOCIATED/HOSPITAL ACQUIRED/VENTILATOR ASSOCIATED PNEUMONIA (HCAP/HAP/VAP)

#### Non-ICU Treatment

##### Preferred regimen

- Cefepime 1g IV Q 6 hrs PLUS
- Vancomycin 1 gm IV now then Pharmacy to dose

##### Alternate regimen (Anaphylaxis to PCN, Severe Cephalosporin allergy)

- Aztreonam 2 gm IV Q 8 hrs PLUS
- Vancomycin 1 gm IV now then Pharmacy to dose

#### ICU Treatment

##### Preferred regimen

- Cefepime 1g IV Q 6 hrs PLUS
- Tobramycin Pharmacy to dose PLUS
- Vancomycin 1 gm IV now then Pharmacy to dose

##### Alternate regimen (Anaphylaxis to PCN, Severe Cephalosporin allergy)

- Aztreonam 2 gm IV Q 8 hrs PLUS
- Tobramycin Pharmacy to dose PLUS
- Vancomycin 1 gm IV now then Pharmacy to dose

#### Suspected Aspiration

(check box below to add Metronidazole to any of above orders)

- Metronidazole 500 mg IV Q 8 hrs

## P&T Updates

- ▶ New drug approvals
  - ▶ **Entyvio**
    - ▶ Integrin receptor antagonist indicated for the treatment of CD and UC in adults with moderately to severely active disease who have had an inadequate response with, or were intolerant to TNF agents, or had an inadequate response with, or dependence on corticosteroids.
    - ▶ Inhibits leukocyte binding to the endothelial surface of the GI tract and reduces the chronic inflammatory process present in UC
    - ▶ Restrictions: Outpatient use only for documented condition applicable to the FDA approved indication.
  - ▶ **Inflectra (biosimilar version of infliximab)**
    - ▶ See other slides...

## P&T Updates – new formulary interchanges

- ▶ **Rexulti® (brexpiprazole)** – atypical antipsychotic
  - ▶ Similar MOA to aripiprazole (partial dopamine agonist)
  - ▶ Therapeutic interchange approved to sub orders to therapeutically equivalent dose of aripiprazole → [see form web for details](#)
- ▶ **Phenazopyridine products**
  - ▶ *Upcoming* therapeutic interchange to 95 mg products
  - ▶ Go live date unknown → must use up existing supplies
- ▶ **DPP-4 Inhibitors (Januvia®, etc.)**
  - ▶ *Upcoming* therapeutic interchange to alogliptin (Nesina®)
  - ▶ Go live date unknown → must use up existing supplies

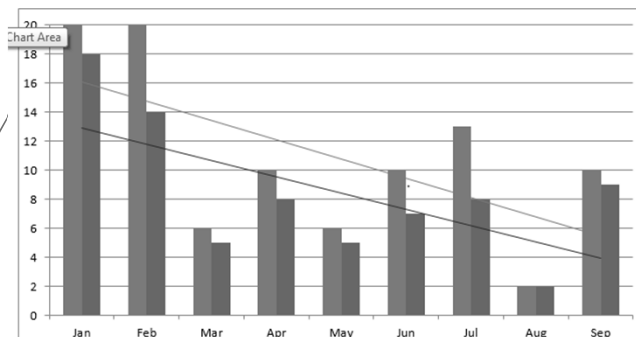
## P&T Updates – national P&T changes

- ❑ **Cleviprex® (clevidipine)**
  - Removed from CHI formulary
- ❑ **Nipride® (nitroprusside)**
  - Removed from CHI formulary
    - *Facilities may keep limited stock for specific clinical indications*
- ❑ **Bladder Antimuscarinic Interchange**
  - CHI interchange differs slightly from what we approved in August
    - We will now keep trospium & oxybutynin IR, ER → form web updated
- ❑ **IV APAP**
  - "Formulary Restricted to 24 hours post-op" by CHI
    - Remains **NON-FORMULARY** at Memorial
- ❑ **Entresto® (sacubitril/valsartan)**
  - "New starts restricted to cardiology" – need for inpatient initiation not yet determined
  - Pioneer HF study – we will be a study site for this which will evaluate if inpatient initiation important

## P&T Updates - MUE

OPIOID SAFETY – NALOXONE ADMINISTRATION  
January – September 2016

Narcan Administration Events/Patients



## P&T Updates – Policy Changes Enoxaparin dose adjustments

Imagine better health.™

### POLICY

Title: <b>ANTICOAGULATION MANAGEMENT</b>			
		Page 1 of 3	
Policy Number: MM-05401		Date Last revised/Revised: 12/14	Valid Until: 12/17
Department(s) Affected: All Clinical Areas		Review Period: every 3 years	

**OUTCOME:** To reduce the likelihood of patient harm associated with the use of anticoagulation therapy.

**PURPOSE:**

To implement a defined anticoagulant management program to individualize the care provided to each patient receiving anticoagulant therapy.

Proposed edit: automatic adjustment of ANY prophylactic dose of LMWH – including 30 mg BID dosing

- d. Low Molecular Weight Heparins (enoxaparin): Lovenox (enoxaparin) dosing protocol available for physician use. The hospital approved dosing for renal failure (CrCl < 30 ml/min), dosing in the elderly (age ≥ 70 yrs), and dosing in obese patients (BMI > 50 kg/m<sup>2</sup>) is as follows:
- i. Renal failure (prophylaxis): Doses of 40 mg daily are automatically reduced by pharmacy to 30 mg daily.
  - ii. Renal failure (treatment dose): Pharmacy may automatically adjust patients with CrCl < 30 ml/min to 1 mg/kg once daily. If CrCl < 20 ml/min, pharmacy will order an anti-Xa level to determine if once daily dosing with enoxaparin is appropriate. Abnormal lab results will be communicated directly to physician.
  - iii. Obesity (prophylaxis): Recommended dose of 40 mg BID.
  - iv. Obesity (treatment): Actual body weight to be used for dosing in patients >150 kg. Anti-Xa levels will be monitored following 3rd dose to ensure adequate dosing for patients > 190 kg.

## P&T Updates – Policy Changes IV to PO Conversions

- Removed ICU as exclusion criteria
- Removed febrile neutropenia
  - These patients may be switched to oral **once afebrile** regardless of neutropenia status

**CRITERIA FOR INCLUSION:**

- Taking other oral medications by mouth
- Afebrile for at least 24 hours (T < 100.4)
- WBC that is normalizing (< 15K), or a known, non-infectious reason can be identified for WBC count (i.e., steroids) – *applies to antibiotics & antifungals only*
- Functioning GI tract (eating full liquids or better)
- ~~Non-ICU setting~~

**CRITERIA FOR EXCLUSION:**

- Patient has not yet received at least 24 hour duration of IV therapy
- ~~ICU~~
- NPO
- Active GI bleed – *applies to PPI's and H2 blockers only*
- ~~Febrile neutropenia – applies to antibiotics & antifungals only~~
- Patient with recent nausea or vomiting (antiemetic use within the last 24 hours)
- GI obstruction or non-functioning GI tract
- Inability to swallow

## New Initiative – Relistor vs. Movantik

- **Movantik (naloxegol)**
  - **Therapeutic class:**  
Peripheral Mu-Opioid Receptor Antagonist (PAMORA)
  - **Indications:**  
Treatment of opioid-induced constipation (OIC) in adult patients with chronic non-cancer pain.
  - **Mechanism of action:**  
Binds to peripheral mu-opioid receptors in tissues such as the GI tract where it decreases the constipating effects of opioids – limited systemic side effects due to inability to cross the blood brain barrier
  - **Clinical Studies:**  
Two identical phase III studies investigated the efficacy and safety of naloxegol. KODIAC-04 (N=652) and KODIAC-05 (N=700) subjects were randomly assigned to receive a daily dose of 12.5 or 25 mg of naloxegol or placebo. The primary endpoint was the 12-week response rate. A shorter time to the first post-dose spontaneous bowel movement and a higher mean number of days per week with one or more spontaneous bowel movements were observed with 25 mg of naloxegol versus placebo in both studies and with 12.5 mg of naloxegol in KODIAC-05. Adverse events, primarily gastrointestinal, occurred most frequently in the groups treated with 25 mg of naloxegol. Overall, the studies showed that treatment with naloxegol achieved response rates that were increased by 10-15%, as compared to placebo, in patients with chronic non-cancer pain and opioid-induced constipation.
  - **Comparison to Relistor (methylnaltrexone):**  
Due to similar mechanisms of action on peripheral mu-opioid receptors, comparative safety and efficacy between naloxegol and methylnaltrexone may be questioned. While no head to head comparative trials have been performed the following data is available for both products:

## Movantik vs. Relistor (injection)

	Naloxegol (Movantik)	Methylnaltrexone (Relistor)
<b>Time to peak concentration</b>	<2 hours with secondary plasma peak 0.4-3 hrs after initial peak	30 minutes
<b>Efficacy Onset</b>	<b>Median time to first SBM:</b>  KODIAC-04: 25mg – 5.9 hrs 12.5 mg – 20.4 hrs  KODIAC-05: 25 mg – 12 hrs 12.5 mg – 19.3 hrs	<b>% of patients with SBM within 4 hrs of first dose:</b>  Study 1: Methylnaltrexone 12 mg daily - 33% (~50% of patients had SBM within 24 hours) Study 3: Methylnaltrexone 0.15 mg/kg – 62% Methylnaltrexone 0.3 mg/kg – 58% Study 4: Methylnaltrexone 0.15 mg/kg – 48%
<b>Adverse Effects</b>	Abdominal Pain: 12-21% Diarrhea: 6-9% Nausea: 7-8% flatulence 3-6% vomiting 3-5%	Abdominal Pain: 21-29% Nausea: 9-12% Diarrhea: 6% Flatulence: 13% Hyperhidrosis: 6% Dizziness: 7%
<b>Cost (per dose)</b>	\$8.27	\$95.16

- **Note: Oral formulation of Relistor is also now approved although this is NON-FORMULARY at this time**
  - A therapeutic interchange to Movantik will likely be implemented in the coming months (more info on next slide)
  - If you receive orders now call and recommend Movantik as alternative

## Movantik vs. Relistor (oral)

	Movantik (oral)	Relistor (oral)
Protein Binding	4.2%	11% to 15.3%
Elimination t <sub>1/2</sub>	6-11 hrs.	15 hrs.
T <sub>max</sub>	< 2 hrs.	1.5 hrs.
Drug Interactions	<p><b>Contraindicated – strong CYP3A4 inhibitors</b> (most azole antifungals, many antivirals, clarithromycin, nefazodone, conivaptan, cobicistat, idelalisib, imatinib) – Concomitant use is not recommended.</p> <p><b>Major:</b> CYP3A4 inducers (anti-seizure medications, barbiturates, rifampin, St. John's Wort) – Concomitant use is not recommended</p> <p><b>Moderate – 3A4 inhibitors</b> (diltiazem, erythromycin, verapamil) Increased naloxegol concentrations; avoid concomitant use; if unavoidable, reduce dosage to 12.5 mg ONCE daily.</p>	<p><b>Major:</b> selected opioid antagonists can increase withdrawal</p>
Adverse Effects	Diarrhea, N/V, flatulence, arthralgia, headache, abdominal pain, GI perforation, withdrawals	Abdominal pain, flatulence, nausea, GI perforation, withdrawals
Dosing	25 mg <u>po qam</u> Take at least 1 hour before or 2 hours <u>after</u> the first meal of the day; Avoid grapefruit products	450 mg <u>po qam</u> Take with water 30 minutes <u>prior</u> to first meal of the day
Dose Adjustments	Renal: CrCl < 60 mL/min: 12.5 mg <u>qam</u> Hepatic, severe: avoid use	Renal: CrCl < 60 mL/min: 150 mg <u>po qam</u> Hepatic, moderate to severe: 150 mg <u>qam</u>
Time to First Bowel Movement	Avg: 6 hours (@25 mg); 20 hours (@12.5 mg)	Within 4 hours: 50.5% (450 mg); 47.8% (300 mg); 41.3% (150 mg)

## Movantik vs. Relistor - Theradoc

- ▶ EZ Alert created to identify patients on Relistor
- ▶ Suggest Movantik as alternative
  - Enter as "New Therapy Recommendation"
  - New canned text available via form web link (accessed via rounds assistant) to populate the text of your CI
- ▶ Future: may consider automatic interchange

MRN: 00148923 Location: 1-MH - MIC MIC 13 Attending: JOVES, FROILAN B. Account #: 44725401

**Alert**  
 11/02/2016 04:53  
 Dismiss  
 Suppress  
 Intervention

**Alert**  
 EZ Alert: Targeted Drug: methylnaltrexone (Relistor) [X]  
 Admit Diagnosis: PNEUMONIA, SEPSIS  
 Age: 73 years Sex: F  
 SCr: 0.46 (11/02/2016) Height: 65 in (165 cm)  
 >120 mL/min(Cockcroft-CrCl: Gault; weight used=76 kg) Weight: 229.9 lb (104.5 kg)

Review for appropriateness and/or possible conversion to oral alternative (Movantik)

Order/Culture	Result	Source	Collected	Result Status (Date/Time)	Specimen #	Ordering Provider
COMPREHENSIVE METABOLIC PANEL	CREATININE = 0.46 MG/DL L (0.55-1.02)		11/02/2016 04:05	F (11/02/2016 04:53)	20161102:C00071U	PESCE,RICHARD,R,...

**Medication:**

Drug	Dose	Start	End	Status	Pat Class
Relistor 12 MG VI	12 MG SC DAILY	11/01/2016 09:00	11/03/2016 12:00	ACTIVE	I

Medications                      Lab Review                      Microbiology Review



## Stewardship Updates – Clindamycin, Cefazolin dosing

Cefazolin (Ancef <sup>®</sup> )			
CrCl (ml/min)	UTI (no sepsis); Uncomplicated ABSSSI	All other indications	Treatment of confirmed GNR from a non-urinary source and MIC > 2
> 30	1 gm IV Q 8 hrs	2 gm IV Q 8 hrs	Contact stewardship pharmacist as cefazolin may not be the best drug for the patient
10-30	1 gm IV Q 12 hrs	2 gm IV Q 12 hrs	
<10	1 gm IV Q 24 hrs		
HD	1 gm IV Q PM (For outpatient use: 2 gm IV post-HD only)		
CRRT	2 gm IV Q 12 hrs		

Note: The MIC > 2 comment in the last column only applies to gram-negative infections.  
Continue using the dosing strategies listed in the first two columns for gram-positive infections.

Clindamycin (IV)		
Standard Dose	600mg IV q8h	No adjustment for renal dysfunction
Necrotizing fasciitis	900mg IV q8h	

## Stewardship Updates - Biofire

### Multiplex PCR System (BioFire) for rapid identification of blood pathogens

Utilizes polymerase chain reaction to amplify several different DNA sequences simultaneously to identify pathogens within 1 hour of blood culture growth identification.



#### Gram-Positive Bacteria

*Enterococcus*  
*Listeria monocytogenes*  
**Staphylococcus**  
*Staphylococcus aureus*  
**Streptococcus**  
*Streptococcus agalactiae*  
*Streptococcus pneumoniae*  
*Streptococcus pyogenes*



#### Gram-Negative Bacteria

*Acinetobacter baumannii*  
*Haemophilus influenzae*  
*Neisseria meningitidis*  
*Pseudomonas aeruginosa*  
**Enterobacteriaceae**  
*Enterobacter cloacae* complex  
*Escherichia coli*  
*Klebsiella oxytoca*  
*Klebsiella pneumoniae*  
*Proteus*  
*Serratia marcescens*



#### Yeast

*Candida albicans*  
*Candida glabrata*  
*Candida krusei*  
*Candida parapsilosis*  
*Candida tropicalis*



#### Antibiotic Resistance Genes

*mecA* – methicillin resistant  
*vanA/B* – vancomycin resistant  
KPC – carbapenem resistant

## Biofire – Meditech examples

**CULTURE BLOOD** Preliminary  
ONE POSITIVE BLOOD CULTURE OF TWO COLLECTED 10/31/16

GROWTH OF **ESCHERICHIA COLI** **RPC-NOT DETECTED**  
SENSITIVITY TEST TO FOLLOW.

**CULTURE BLOOD** Preliminary  
TWO POSITIVE BLOOD CULTURES OF TWO COLLECTED 11/01/16

GROWTH OF **STAPHYLOCOCCUS** **meCA DETECTED**  
SENSITIVITY TEST TO FOLLOW.

**CULTURE BLOOD** Final  
ONE POSITIVE BLOOD CULTURE OF TWO COLLECTED 10/31/16

GROWTH OF **PASTEURELLA MULTOCIDA**

ANTIBIOTIC SENSITIVITY STUDIES ARE NOT ROUTINELY PERFORMED  
ON PASTEURELLA SPECIES.

SUGGESTED ANTIBIOTICS INCLUDE: PENICILLIN (DRUG OF CHOICE),  
TETRACYCLINE, CHLORAMPHENICOL, AND BETA LACTAMASE/BETA  
LACTAMASE INHIBITORS.

AMINOGLYCOSIDES, ERYTHROMYCIN, AND CLINDAMYCIN ARE NOT  
RECOMMENDED.

**POSITIVE BLOOD CULTURE WAS PROCESSED BY BIOFIRE FILMARRAY  
AND NO TARGET ORGANISMS WERE DETECTED.**

## Vancomycin Dosing

- ▶ **Patients with Osteomyelitis or other indications requiring longer term therapy (post hospitalization)**
  - Be cautious with aggressive dosing (Q 8 hr, etc.)
  - Be mindful of possible accumulation post discharge if aggressive dosing continued as home therapy
  - Watch for possible discharge orders and communicate with MD when necessary
  
- ▶ **Q 18 hr, Q 36 hr dosing intervals**
  - These can be problematic for post discharge orders (home therapy, etc.)

## Competency Exams

- ▶ TPN – due now
- ▶ Kinetics – to be released next week
- ▶ Coag – December
- ▶ Review sessions will follow each to review the results

## Theradoc

### Intervention Documentation

- ▶ DO NOT USE Meditech CI's to communicate issues (see below)
- ▶ **Logout issue**
  - ▶ May use CITRIX or use internet explorer directly
  - ▶ CHI is investigating the logout issue and we are hopeful this will be resolved soon
- ▶ **Password expiration – If you have an alternate network ID**

Patient	TEST,TEST	Start	11/03/16 1009
Type	CLAR-DOSE Clarify Drug, Dose, Schedule	WL Fcn	Cnt
Status	COMPLETE Complete	User	PHAPNE MR Form? N

Edit Text ...

.....10+.....20+.....30+.....40+.....50+.....60+.....70+.....80+.....90+..

\*\*\*\*\* DO NOT USE THIS INTERVENTION IF FURTHER PHARMACIST FOLLOW UP IS NEEDED - USE THERADOC FOR ANY ISSUES THAT NEED FURTHER FOLLOW-UP

USE TO DOCUMENT CLARIFICATION OF A MEDICATION ORDER (DRUG, DOSE, OR SCHEDULE)  
 EXAMPLES: ILLEGIBLE HANDWRITING, INCOMPLETE DOSE INFORMATION, NO DOSE, PRN VS SCHEDULED ORDER, ETC.

## Theradoc – CI documentaion

### Theradoc CI Observations:

- **IV to PO conversions:** I am working with Theradoc on some issues that we have discovered regarding the alert logic for their IV to PO rule. I believe this has detrimentally impacted our IV to PO numbers for the past two months. Continue to **NOT DISMISS** these alerts due to these not “re-firing” and behaving as expected.
- **Medication reconciliation activities** – we are now HEAVILY involved in med-rec activities and we need to make sure we are capturing this work
  - **Discharge counseling/education** – remember to use the 2 interventions below for any patient that you counsel at discharge
    - 1-MH/MNP Discharge counseling/education (use this instead of the generic “General Medication Education” CI)
    - Discharge Medication Reconciliation
      - *These can both be documented at the same time (see below) and this enables us to more accurately track our med-rec activities*

Activities

Remove All	discharge	Search
<input checked="" type="checkbox"/> 1-MH/MNP Discharge counseling/education <input checked="" type="checkbox"/> Discharge Medication Reconciliation	Clinical Activities >> Search Results 4 results found. <input checked="" type="checkbox"/> 1-MH/MNP Discharge counseling/education <input type="checkbox"/> 3-MMC/MWL Transition Care: Medication Teaching/Discharge Education <input checked="" type="checkbox"/> Discharge Medication Reconciliation <b>2</b> <input type="checkbox"/> Program Enrollment and Discharge Prescription Coordination <b>1</b>	

- **Home med clarifications, etc.**
  - Please also use the “Admission Medication Reconciliation” for any home med clarifications that you are involved in clarifying (ED tech follow up calls, etc.)
- **Med-rec ADE Minor & Major**
  - In addition to the above mentioned CI’s also document any ADE preventions using either the minor or major CI’s

Questions?