

### HOUSTON METHODIST PHARMACY & THERAPEUTICS NEWS

January & February 2025

## FORMULARY UPDATES

The following medications and classes were reviewed

Imetelstat (Rytelo<sup>™</sup>) ADDED to Formulary

Category: Antineoplastic agent, Telomerase Inhibitor

**Formulary restrictions:** Restricted to FDA—labeled indications with prescribing restricted to hematology/oncology physicians. Patients must be in the outpatient treatment setting and have prior financial approval.

**Rationale:** High unmet need for patients with low to intermediate risk myelodysplastic syndrome and limited treatment options.

#### Axatilimab (Niktimvo™) ADDED to Formulary

**Category:** Colony stimulating factor-1 receptor (CSF-1R) directed monoclonal antibody used for chronic graft-versus-host disease (cGvHD)

**Formulary restrictions:** Restricted to FDA—labeled indications with prescribing restricted to hematology/oncology physicians. Patients must be in the outpatient treatment setting and have prior financial approval.

**Rationale:** High unmet need for patients with refractory or recurrent active cGvHD and limited treatment options.

#### Cangrelor (Kangreal®) ADDED to Formulary

**Category:** Non-thienopyridine P2Y12 antagonist used as an adjunct to percutaneous coronary intervention (PCI)

**Formulary restrictions:** Restricted to ordering by physicians for patients that require continued P2Y12 therapy in the setting of intolerance or contraindication to use of oral P2Y12 inhibitors.

**Rationale:** Increasing literature available to support the use of cangrelor in populations at HM for a variety of indications

Nirsevimab-alip (Beyfortus™) Restriction Criteria Revised

Category: Respiratory syncytial virus (RSV) directed monoclonal antibody

Restrictions: Updated to include use in all infants admitted to the NICU

Prothrombin complex concentrate, human-lans (Balfaxar®) NOT ADDED to Formulary

Category: 4-factor prothrombin complex concentrate, non-activated

**Rationale:** Limited data on Balfaxar<sup>®</sup> use across all HM populations where prothrombin complex concentrate, human (Kcentra<sup>®</sup>) is used

To request a medication for formulary review, click here

The *Pharmacy & Therapeutics News* is dedicated to providing the most current information regarding medication-use policy and formulary issues. Each issue details recently approved actions from the system P&T committee as well as relevant patient safety, pharmacotherapy and drug distribution updates. Entity representatives to the system P&T committee structure can be found <u>here.</u>

### **Policy Updates**

**RXCLIN 139 Pharmacy Consult for Ticagrelor** 

Triennial review changes include the addition of mandatory soft stop questions at the point of ordering to assure safe prescribing. This allowed for retirement of the pharmacy consult. Additional safeguards for appropriate use will be managed through alert monitoring.

# <u>RXCLIN 142</u> Pharmacy Consult to manage Warfarin

Warfarin INR fallout data collected over a year was analyzed to identify trends and opportunities. Many warfarin patients had a change in INR greater than 0.7 one day prior to their peak INR reading. The pharmacy warfarin policy and order set were adjusted to allow lowdose vitamin K (1mg PO) administration as an option when the INR rises by 1.0 or more to reduce fallouts.

### **Epic Updates**

#### Alvimopan (Entereg)

The alvimopan build was updated in 2024 to include instructions to discontinue use once bowel function returns. Nursing instructions direct to hold the medications, and pharmacists are authorized to discontinue the order after the first post-op bowel movement.

Upon administration, the last documented bowel movement from the I/O flowsheet now appears in the medication administration box, similar to how antihypertensives display the last recorded blood pressure and heart rate.

Alvimopan remains a <u>REMS</u> monitored therapy.



## MEDICATION SAFETY UPDATES

#### SMSC 2025 Charter

The System Medication Safety Committee Charter will continue the focus on Barcode Medication Administration Compliance, Alaris Guardrail Utilization and Interoperability, and Medication Reconciliation Discrepancy/Error.

#### **Tranexamic Acid Best Practices**

Following ISMP recommendations, system-wide efforts are underway to align EPIC optimization for <u>nebulized</u> medications, such as tranexamic acid, that are more commonly administered via different routes like intravenously. Tranexamic Acid has been added to the High-Risk Medication Policy and the Look Alike/Sound Alike Policy.

#### Irritant/Vesicant List Addition to the High-Risk Medication Policy

To ensure safe use and best practices around irritant and vesicant administration, verbiage in the High-Risk Medication Policy (PCPS126) has been updated and a reference document has been added as an appendix denoting medications that can be given via peripheral IV, midline, and central line.

#### **EPIC Custom IVF Builder Updates**

Separate custom IV fluid builds for central and peripheral line administration have been approved as distinct ERXs. Further optimizations include fluid/nutrition warnings for osmolarity and electrolyte administration rates with frequency defaulting to once for review and renewal.

#### Vasopressin Dose Warnings

The adult alert threshold for vasopressin has been lowered from the current 0.9 units/min to > 0.07 units/min in order to align with the usual dosing range (0.01-0.04 units/min) and the package insert maximum of 0.07-0.1 units/min depending on indication.

#### **Evaluation of Continuous Infusion Neuromuscular Blocking Agents**

A review of the current NMBA agents revealed a need to improve monitoring compliance. The following changes will be implemented: keep default weight as IBW (ABW if less than IBW) for dosing, add rocuronium to continuous infusion order sets, re-categorize the protocols into nurse titrated and intensivist managed, remove indication-based selection, create NMBA titration instruction chart, reword general "nursing communication" with Train-of-four (TOF) instructions, add monitoring frequency for BIS to nursing communication and keep default 72-hour expiration for NMBA orders.

#### **CRRT Electrolyte Replacement Protocol Quality Review**

A review of the current protocol lead to the following recommendations, keep current replacement amounts for K, Mg, and Ca and lab monitoring recommendations, add radio buttons for nephrologists to choose q6h, q8h, q12h lab monitoring for patients on CRRT, and remove labs from other order set sections. Furthermore, the following comment was added to ensure safe repletion of potassium and phosphate "If using potassium phosphate replacements please contact pharmacy for assistance, 1 mmol of potassium phosphate contains 1.5 mEq of Potassium".

#### Patient Dialysis Status Visibility

The dialysis status and type will now be displayed alongside CrCl along with a look back and forward of 72 hours (as seen below). This will be a great tool to help assess the most appropriate dosing strategies for this patient population.

Example#1			
Code: Not on file	Wt 67 kg	Allergies: No Known Allergies	Readmit
CSN: MRN	Ht. 5' 6" BSA: 1.77 m <sup>2</sup>	IBW: 59.3 kg _ Adj Wt: 62.4 kg CrCl: 50.8 mL/min (A), HD Order	BMI: 23.
Example #2			
	Wt: 112 kg	Allergies: Egg, Penicillins	Readm
Code: Not on file	THE THE NY	rangigios, Lyg, i cincilino	Reaum
Code: Not on file CSN: MRN:	Ht: 4' 5" BSA: 2.05 m <sup>2</sup>	IBW: *** _ Adj Wt: *** CrCl: 53.3 mL/min (A), CRRT Order	BA

## HOUSTON METHODIST PHARMACY & THERAPEUTIC NEWS MEDICATION SAFETY UPDATES

#### Tenecteplase for Pulmonary Embolism

Tenecteplase is a viable thrombolytic option for pulmonary embolism with hemodynamic instability or cardiac arrest, offering faster reconstitution and administration compared to alteplase. The "Alteplase for Pulmonary Embolism" order set was renamed, "Thrombolytics for Pulmonary Embolism" and tenecteplase dosing was added for enhanced safety.

#### Updates to Duplicate Therapy and DDI Warning Suppression by Phase of Care

In order to ensure consistency with phase of care alert suppression for PACU/Phase II phase of care, mirroring of duplicate warnings and DDI alert suppression was approved.

#### Non-Interruptive Duplicate PRN Warnings for Pharmacists: Sidebar Summary

A pharmacist workflow enhancement in Epic is part of an initiative to further reduce duplicate PRN order verifications. The change involves the addition of a non-interruptive warning for pharmacists. Located in the sidebar summary, this alert will highlight in red when a potential duplicate PRN therapy exists upon verification or in the current medication list. Multiple orders for the same pain level without clear instructions as to which therapy to administer are not allowed. This enhancement improves the pharmacists ability to recognize these potential duplicates before verification.

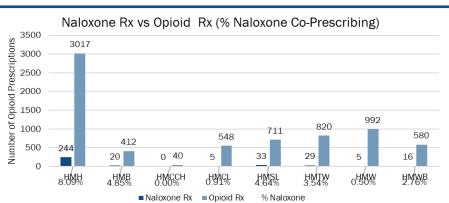
## PAIN MANAGEMENT COMMITTEE

#### Sidebar Summary Handoff Rx Sidebar С Meds & L SnapShot More -Q Æ L. Θ Time [Refresh] Mark \*\*\*This patient has unverified PRN order(s) with the same PRN reason as another order without any PRN comment or Administration Instructions.\* Please ensure all PRN orders with the same PRN reason have clear instructions on when to administer which order.

#### Tatjana Ramos, PharmD

#### Naloxone Discharge BPA System-wide Expansion

Rates of naloxone prescribing at discharge for patients being discharged with prescriptions for opioids and benzodiazepines or an opioid and muscle relaxer (specifically carisoprodol and baclofen) are low. An epic alert is in place now system-wide. The alert is coupled with a reminder to provide a prescription for naloxone as a safeguard for potential overdose.



#### FLACC for Use in Adult Patients

System PCPS 169: Pain Management Poli-

cy Addendum will be updated to expand the use of FLACC pain assessment tool for adult patients. The <u>FLACC assessment</u> is a behavioral scale for pain assessment assessing: Facial expression, Leg movement, Activity level, Crying, Consolability with each domain rated on a scale of 0-3 with lower ratings reflecting less discomfort.

#### Pain Re-assessment for Sleeping Patients

A system-wide policy update has been approved to guide documentation of pain reassessment within 60 minutes if patient is sleeping after PRN pain medication is administered. Designation of "Unable to assess – Patient Asleep" or "S" option is proposed to be added to dropdown in Epic Flowsheets Pain Assessment tab and in Tableau Compliance Logic.

#### Pharmacy Consult to Monitor Pain Management—Policy Retirement

Due to the implementation of multiple electronic surveillance safeguards through Vigilanz and other interventions, the System\_RXCLIN 128 Pharmacy Consult to Monitor Pain Management will be retired.

### HOUSTON METHODIST PHARMACY & THERAPEUTIC NEWS

## ANTIMICROBIAL STEWARDSHIP

Shivani Patel, PharmD

# Microbiology Department BCID Implementation and ID Consult Recommendations

The BioFire FilmArray Blood Culture Identification (BCID2) Panel is an FDA-approved multiplex PCR assay that rapidly detects a number of commonly-identified bloodstream pathogens and resistance markers allowing for rapid, empiric antimicrobial selection. Currently there is no guidance for interpretation of results, and infectious diseases specialists review all results. The Antimicrobial Stewardship Program has made guidance documents on the interpretation of the results from the panel along with antimicrobial recommendations and important comments for consideration.

# Meropenem-Vaborbactam Preferred use for KPC Enterobacteriaceae

At Houston Methodist,92.2% of carbapenem resistant organisms (CRO) and carbapenem resistant Enterobacterales (CRE) are non-carbapenemase-producing Enterobac-



terales. Among CROs and CREs, approximately 70% produce the carbapenemase KPC.

Iternative Selection		
Alternative Recommended		
You selected: ceFTAZidime-avibactam (AVYCAZ) in 100 ML IVPB (RESTRICTED): intra	venous, at 50 mL/hr, Administer over 2 H	ours, Starting today at 1355
Details		
PREFERRED TREATMENT		
The Houston Methodist System's preferred agent for known or suspec Klebsiella and E.coli) is Meropenem/Vaborbactam (Vabomere).	ted Carbapenemase-positive Enterobac	eteriaceae (AKA, KPC producing
Contact pharmacy for further questions.		
Alternatives		
Alternatives		
Alternative		
O MEROPENEM-VABORBACTAM IVPB ORDERABLE (RESTRICTED) IV	/PB (RESTRICTED)	
Continue with:	avenous, at 50 mL/hr, Administer over 2 Ho	urs, Starting today at 1355

Meropenem-Vaborbactam, a betaactam/beta-lactamase inhibitor combination, is recommended by IDSA guidelines for KPC-producing Enterobacteriaceae. While resistance is rare, t is not active against NDM- or OXA-48 producing organisms, nor against meropenem-resistant *P aeruginosa* or *A baumannii*.

Meropenem-Vaborbactam will now be the preferred agent for known or suspected KPC-producing carbapenem resistant Enterobacterales. It will not be used for infections caused by NDMpr OXA-48-producing organisms, *P.* aeruginosa, or *A. baumannii* 

#### NEWSLETTER STAFF

Editor-in-Chief:Michael G. Liebl, PharmDManaging Editor:Laura M. Blackburn, PharmDSystem P&T Committee Roster is available to view here.

