

Please follow the below process if/when you encounter a home medication sheet that either has NOT been updated ("profile not reviewed") or contains information that appears blatantly wrong (example: Lantus ____ units, 4 times daily). It is important to get these med lists clarified so that inaccurate information is not continued throughout admission and then subsequently is still incorrect when patients are later readmitted.

Call pharmacy tech @6684 and give them the information that needs to be clarified. If after hours, please enter a detailed CI explaining what specifically needs to be clarified and who did the original list (RN, surgery, or simply not updated).

Enter an "EDTECH F/U ED TECH – Med History F/U" intervention and leave this open to ensure that the issue is reviewed.

FYI – please note that we have 2 different ED tech F/U interventions and it needs to be entered as the "Med History F/U" and not the "Direct admit F/U"

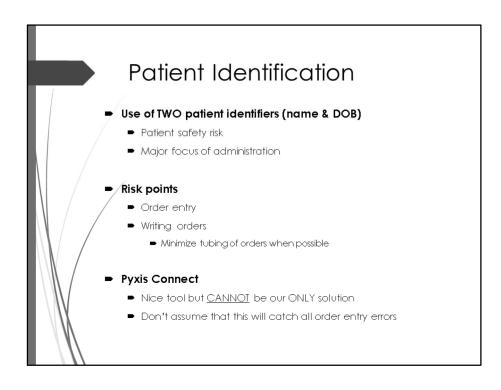
We have recently had several edtech follow-up CIs entered by pharmacists without the tech's knowledge. The techs run an active CI report (similar to the kinetics report) each morning and use this as their working list. Entering a CI without directly notifying the technician would be like entering a kinetics CI without notifying the pharmacist. These will likely not be seen until the following morning.

Please also continue to enter IRIS reports for inaccurate or lists that have not been updated (or leave them for me and I'll enter IRIS reports). We need to continue to document these so we can continue to shine a light on the danger of these not being obtained correctly and accurately.

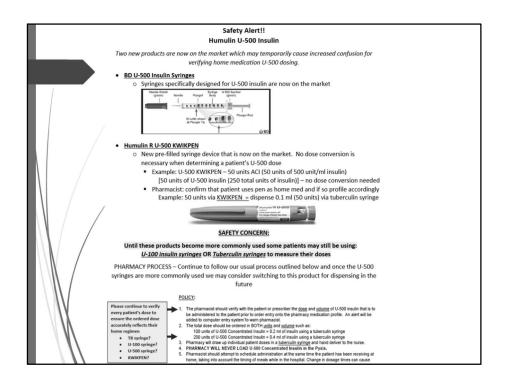
HIT – f/u on lab results, allergies, etc.

- If you see an order written for "HIT panel", "PF4 antibody", "heparin antibody", etc. please remember to do the following:
 - Enter heparin as an allergy pending final results of the assay (this will be a relatively quick turnaround for most situations since this is an in-house lab Mon-Fri)
 - Enter internal comment stating that "HIT panel pending"
 - Follow-up on results via Theradoc and remove allergy information if HIT confirmed to be negative

In addition to the above 3rd shift reviews a daily report to identify ANY patients (including discharged patients) that have resulted antibody assays. For inpatients: they will update the allergy information and relay this information to the appropriate unit based Rph. For discharged patients they will modify any allergy information as appropriate...BIG thank you to 3rd shift for helping us out with this!

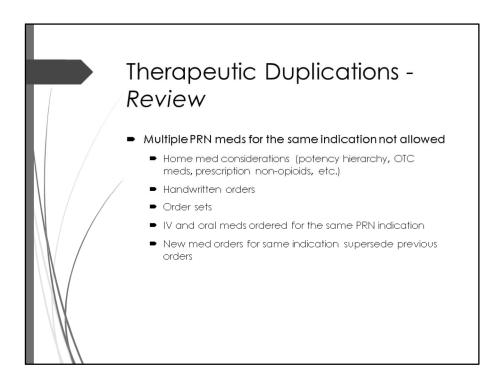


Please continue to be VERY diligent to <u>ALWAYS</u> use 2 patient identifiers prior to filing orders and writing any orders in the chart. This is critical to ensuring patient safety.



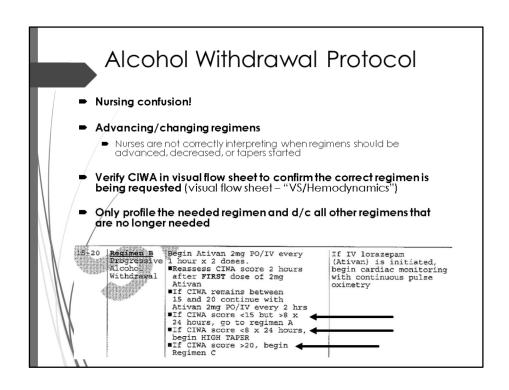
Reminder about U-500 insulin. Don't take any orders for U-500 at face value ("50 units of U-500 insulin"). We must continue to verify how the patient draws up their insulin (U-100 syringe, U-500 syringe, Qwik pen). Most of the patients that we are admitting seem to primarily be using U-100 syringes but we should expect an eventual increase in U-500 syringe use.

Everyone is doing a GREAT job of clarifying orders as expressed in ml and dispensing in TB syringes. Thank you!



Home meds:

- No preference specified for prescription opioids:
 - Use potency hierarchy to determine which meds to be active on MAR and most potent agent will be used
 - This is on formweb
 - Post-op orders trump home med orders
- OTC pain meds (NSAIDs, etc.)
 - PRN mild pain indication
- Prescription PRN pain home meds (Mobic, Celebrex, etc.)
 - PRN moderate pain indication
- Handwritten orders
 - If only one medication is written then "PRN PAIN" is acceptable
 - If other pain meds are active on the MAR then a type of pain (mild, moderate, severe) must be indicated and clarified
- Order sets
 - 1st agent written in the list of orders will be considered to be the provider's choice
- IV and oral meds for the same indication
 - We must designate the IV option as "for ____ pain uncontrolled by or unable to take oral meds"



This order set is currently being audited by clinical informatics. These is obviously much confusion from nursing on how to execute these orders and the actual order set will likely be reassessed for needed changes in the coming weeks.

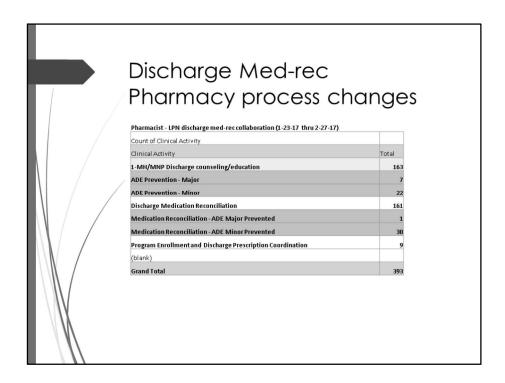
For now please do not advance/decrease regimens or begin tapers requested via phone calls unless you verify that the CIWA scoring warrants an adjustment.

It was discovered that some requests to do so were not actually needed b/c nurses did not interpret the orders correctly. The CIWA scoring can be found in the visual flowsheet as indicated on the above slide.

Vancomycin Consults

- Our utilization of Vancomycin exceeds that of national comparison data
- ➡ When you are reviewing your PK consults each day:
 - Don't only concentrate on the math/calculations
 - Evaluate cultures and continued need of vancomycin
 - Unsure if vancomycin is still appropriate? Ask Linda or myself and we will be glad to help you evaluate the patient case.
- Antibiotic utilization data (by medication and facility)
 - This is being reviewed with the physicians on both campuses to raise awareness
 - Hixson utilization much higher than national average

Stewardship committee asked that we in pharmacy be as proactive as possible in critically evaluating necessity of continued vancomycin use and suggest discontinuation when/where appropriate. Since we dose virtually all vancomycin in the hospital we have many opportunities to evaluate appropriateness if cultures negative or other data indicates continued empiric use not necessary.



Modification to our process (collaborating with LPNs) has resulted in a significant increase in our patient encounters (discharge med-rec review & discharge counseling). This work is still confined to the NT only and even without using the LACE tool to target patients we are still intervening on ~30% of patients and making adjustments and/or correcting errors and omissions prior to patients being discharged home.

This work is not focused on high LACE score patients but rather on ANY patient that the LPN is involved in preparing discharge paperwork. This allows us to focus our efforts on reviewing the clinical data, ensuring d/c med orders are accurate, and discussing d/c med plan with patient. This prevents us from spending as much time on non-clinical, clerical activities (updating RXM, copying/printing forms, etc.).

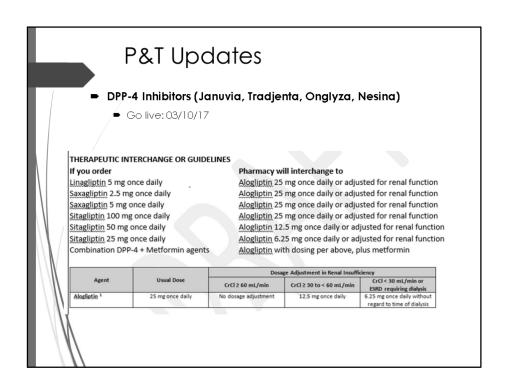
We are evaluating next steps and potentially consider focusing these efforts on patients with specific diagnoses (COPD, etc.).

| | Inpatient Management Strategy | Average BG Checks > 140 (%) | Average BG Checks > 180 (%) | Average BG Checks > 250 (%) | Average BG Checks < 40 (%) | Average BG Checks < 70 (%) |
|-----|-------------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| | BBI | 72.9% | 51.4% | 24.5% | 0.7% | 4.8% |
| | BPI | 69.4% | 43.1% | 17.6% | 0.2% | 5.5% |
| / / | None | 66.7% | | | | |
| | PO | 31.6% | 15.8% | - | - | |
| | PO + Insulin | 63.3% | 32.8% | 21.2% | 0.3% | 3.7% |
| | SSI | 49.6% | 28.4% | 13.9% | 0.0% | 2.3% |
| | SSI + 70/30 | 91.6% | 66.4% | 12.9% | 0.0% | 0.0% |
| / | Total | 61.9% | 38.4% | 19.3% | 0.3% | 4.0% |

Reviewed 3 months of ALL patients with any ICD-10 diagnosis for DM.

Findings: The biggest opportunity for improving glycemic control are patients that are already on basal insulins. As you can see in the above slide patients on BBI (basal+nutritional+correctional) and BPI (basal+correctional) have the worst glycemic control. Most of these patients were already on some sort of basal insulin at home. We have found that most home regimens are simply restarted and not titrated up or down based on inpatient glucose values.

Next steps: After discussing with physicians, we are going to pilot a process on 6-north in which we are going to use Theradoc to identify patients who can benefit from glycemic optimization and work with physicians directly to improve control. The physicians indicated that glycemic control is not usually among their top priorities and they felt that closer oversight could help improve patient care.



New interchange - now LIVE.

P&T Updates – formulary additions, therapeutic interchanges Tecentriq® (atezolizumab) Similar MOA to Opdivo & Keytruda (immune modulating chemo) Indicated for: metastatic NSCLC & advancec/metastatic urothelial carcinoma Restrictions: Outpatient use only for FDA approved indication(s) or payer-approved off-label indications Glaucoma Agents Therapeutic Interchange Alpha agonists – brimonidine 0.2% beta blockers – Timolol maleate 0.25%, 0.5% carbonic anhydrase inhibitors – Dorzolamide Full interchange on Form Web

Tecentriq

 Monoclonal antibody that inhibits PDL-1 (program death ligand) and prevents it from binding to various receptors which in turn allows immune system to decrease tumor growth

Glaucoma agents – only the above drugs are now listed in our drug dictionary – see form web for full conversion details if a non-formulary med is ordered.

P&T Updates – formulary additions, therapeutic interchanges

Cetylev® (N-acetylcysteine)

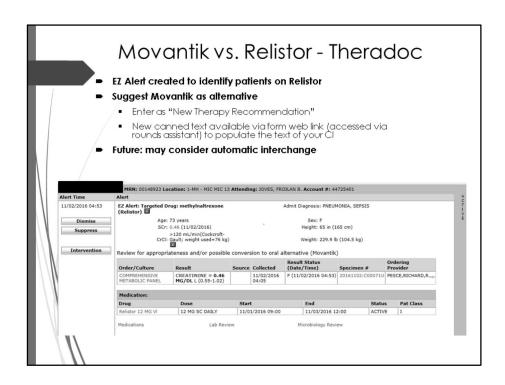
- Effervescent formulation of NAC
- No clinical benefit compared to oral/liquid formulation
- Automatic Interchange to liquid/nebulizer solution

| Antidotes | | | | |
|---|---|--|--|--|
| ORDERED | SUBSTITUTION | | | |
| Acetylcysteine (CETYLEV®) 140 mg/kg x 1 dose (loading dose) 70 mg/kg every 4 hours x 17 doses | Acetylcysteine oral liquid (nebulizer solution) 140 mg/kg x 1 dose (loading dose) 70 mg/kg every 4 hours x 17 doses | | | |

Relistor® (methylnaltrexone) oral formulation

- Oral formulation of methylnaltrexone
- NON-FORMULARY with auto-substitution to Movantik

| When you order this | You will receive | | |
|-------------------------------------|------------------------------------|--|--|
| Methylnaltrexone (Relistor®) 450 mg | Naloxegol (Movantik®) 25 mg once | | |
| once daily | daily | | |
| Methylnaltrexone (Relistor®) 150 mg | Naloxegol (Movantik®) 12.5 mg once | | |
| once daily | daily | | |



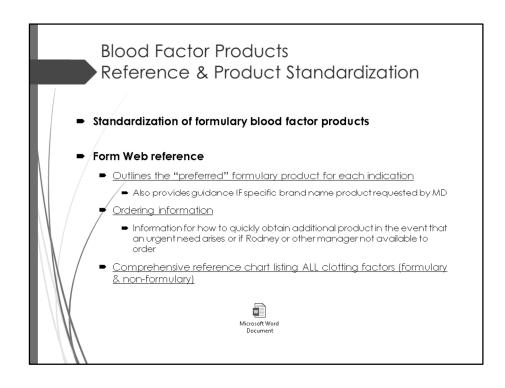
The above EZ alert has been created to identify patient on injectable Relistor

Based on the previous slides Movantik can be a more cost effective option for patients able to take PO meds.

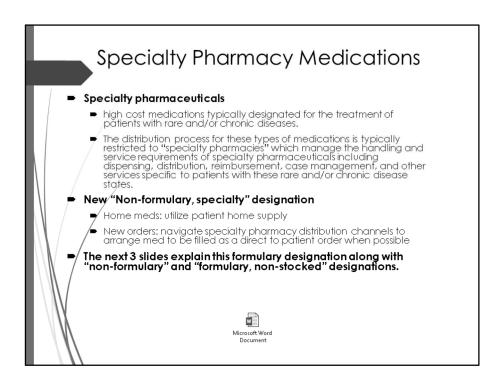
If you are on the floor and you see this ordered please suggest Movantik as an alternative to Relistor. For ongoing orders the EZ alert will help us identify patients on Relistor and suggest Movantik as potential alternative.

We have added canned text to rounds assistant in Theradoc so you can easily generate a note that contains some brief verbiage about this potential conversion (rationale, dosing, etc.).

We will likely pursue an auto-conversion in the future for patients able to take PO but for now I would like for us to begin to move the needle in use toward Movantik when possible so MD's can gain familiarity with it so we will be better positioned in the future to implement an auto-sub process.

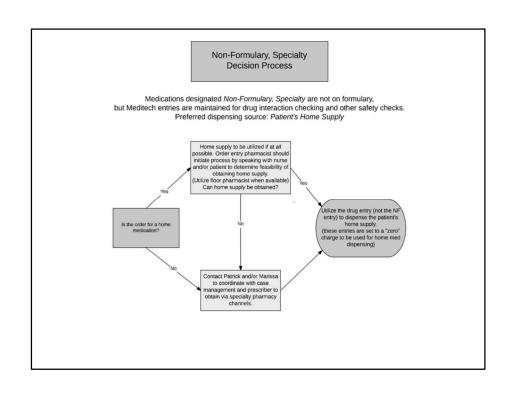


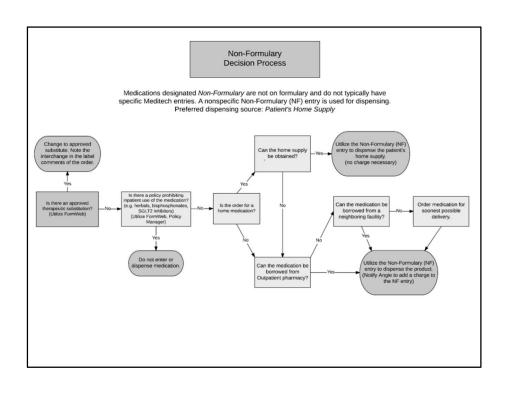
See attached document (click on Microsoft work icon to open document) for new process for ordering and choosing formulary preferred blood factor products.

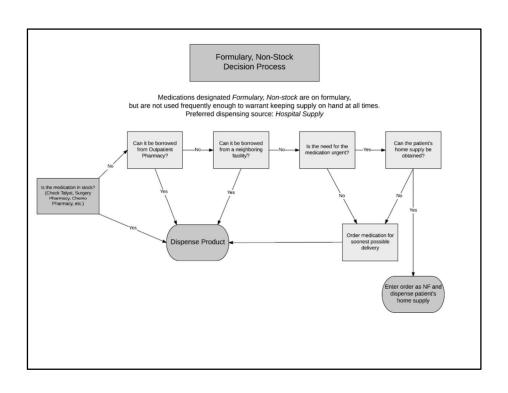


See slide above and attached document – the next three slides explain new formulary designations and processes for handling these different scenarios.

These diagrams and new formulary designations were designed following a comprehensive review of our drug dictionary. We have inactivated MANY drug entries and reclassified many others. It is important that everyone understands these processes – please ask me or Jeff for clarification if you don't understand.







A new policy and mandatory order set is currently being developed in conjunction with nephrology and hospitalist leadership. Until this is developed please be cautious when entering 3% NS orders. In particular pay close attention to the last 3 bullet points above.

More to come after the April P&T on the new policy and order set.

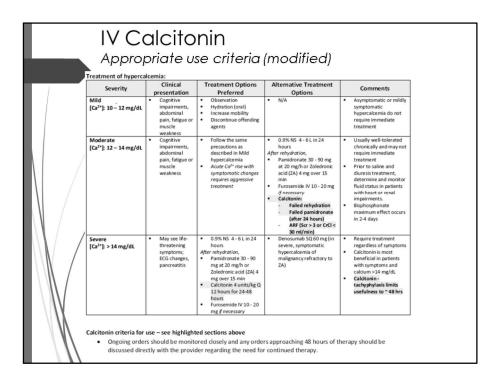
Perioperative Medication Management

Order set# 1340 Pre-Operative Anesthesia for Adult Patients

- Significant changes coming for this order set
- Medications to hold pre-op and post-op
 - This section will be completely revamped
 - The orders will ONLY list medications that should either NOT be given or given in a reduced dose (some insulins)
- How will this impact pharmacy?
 - Outpatients nothing will change; pre-testing nurses will instruct patients how to manage their medications peri-operatively
 - Inpatients We will need to make eMAR modifications to the patient's active medications IF they are receiving meds that need to be held or dose reduced prior to surgery. Example: hold any short acting insulins the day of surgery
- How will this be done?
 - ▶ We are working on workflow options to make this as painless as possible
 - Quick reference cards will be created to more easily identify meds that may need to be held

The above changes will be implemented mid to late April.

More education will be provided prior to roll out.



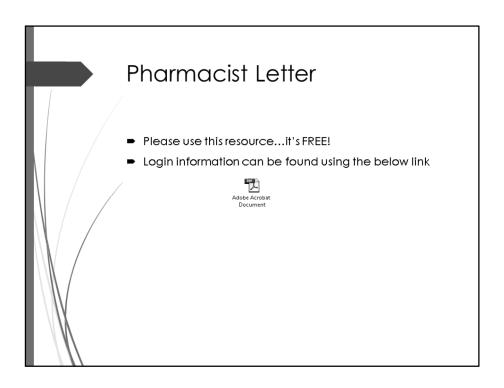
CHI national has implemented CHI-wide use criteria for the use of IV calcitonin. This is largely consistent with our pre-existing reference information that we implemented in 2015.

Key points to remember and to evaluate with all new IV calcitonin orders:

- Should only be used in severe hypercalcemia or if patient has failed or not candidate for bisphosphonate therapy (see highlighted sections above)
- Use should be limited to 48 hour duration only and discontinued earlier if possible.

Cost is ~ \$2K per EACH 200 unit vial

Every order should be evaluated for appropriateness prior to entering in Meditech.



Click on the above attachment for instructions on how to access Pharmacist Letter.

