



# TMMC

## Pharmacy Department Services

Rev 2021\_11\_18

# Pharmacy Contact Information



## Management team

- Pharmacy Director: Steve Thompson, Pharm D - ext. 30997
- Assistant Director: Tammy Ginder, Pharm D, ext. 20354
- Clinical Coordinator: Felix Pham, Pharm D. ext. 30975
- Medication Safety Coordinator: Wendy Waldman, RPh - ext. 34716
- Diana Tomicic, Technician Supervisor

## Specialty Pharmacists

- Oncology Pharmacists Vivian Tsang, Pharm D - ext. 76622
- Geriatric Pharmacist/ TCU: Mei Tsai, Pharm D, ext. 76611
- Critical Care: Karan Tran, Kelvin Pham ext. 76613

# Hours of Operation



## Pharmacies

- Main Pharmacy Basement LT (ext. 30010)-24 hrs./7 days a week
- 2<sup>nd</sup> floor LT OR, ext. 32968, 76612 (6 am - 2:30pm M-F)
- 3rd floor LT: ext. 33355, 76613 (6am to 11pm)
- 4<sup>th</sup> floor LT: ext. 34710, 76614 (9:00 am -5:30 pm)
- Outpatient 1<sup>st</sup> floor CT (ext. 74799): M-F, 9am - 5:15pm; Sat/Sun, 9am - 1pm

## Clinical pharmacists

- 5<sup>th</sup> floor LT: ext. 76615 (8am-4:30pm)
- 6<sup>th</sup> floor LT: ext. 76616 (9am-5:30pm)
- 7<sup>th</sup> floor LT: ext. 76617 (7:30am-4:00pm)
- TCU: ext. 76611 (8am-12pm M-F)
- ED 1 pm- 7am, ext. 23907, 23908

# Use of Own Patient Medications

- Discouraged home medication use in the hospital due to safety concerns
- TMMC has a medical staff approved protocol for pharmacy to DC non-formulary herbal/vitamin supplements and oral bisphosphonates while hospitalized.
- If use of patient's own home medications are necessary:
  - Enter a complete order
  - Medications must be verified by a pharmacist
  - Herbal medications and supplements requires patient to sign a waiver
  - Medications must be in their original containers, properly labeled

# Medication Reconciliation

The screenshot displays a medical software interface with a menu bar at the top containing 'Task', 'Edit', 'View', 'Patient', 'Chart', 'Links', 'Options', 'Current', 'Add', and 'Help'. Below the menu bar are several toolbars with icons for 'Patient List', 'Message Center', 'Multi-Patient Task List', 'VIS Info', 'Physician Roster', 'Insulin', 'Hypoglycemia Protocol', 'Verge', 'BCMA Plus Survey', 'Tear Off', 'Attach', 'Change', 'Suspend', 'Exit', 'Calculator', 'AdHoc', 'Patient Product Inquiry', and 'Encounter Location History Viewer'. A blue header bar shows 'TEST IS ONLY, TEST' on the left and 'Age: 79 years' and 'DOB: 12/31/1935' on the right. A 'Code Status:' label is visible. On the left is a dark sidebar menu with items like 'View/I & O', 'Inpatient Summary', 'Task List', 'All Results', 'LAB', 'RAD', 'PATHOLOGY', 'ED Summary', 'PowerOrders + Add', 'Medication List + Add', 'Problems and Diagnoses', 'Microbiology Viewer', 'Facesheet', 'Documents', 'Document Viewer + Add', 'Cardiology', 'Patient Information', 'Historical PPR-Prior to 1/14/04', 'Medication Profile', and 'Form Browser'. The main content area is titled 'Medication List' and includes a navigation bar with '+ Add', 'Document Medication by Hx', 'Reconciliation', 'External Rx History', and 'Rx Plans (0): Error'. Below this is a 'View' section with a tree view containing 'Orders for Signature', 'Medication List', 'Medication History', 'Medication History Snapshot', and 'Reconciliation History'. To the right of the tree view is a 'Display:' dropdown set to 'All Active Medications' and a table with a header row containing '\$', a filter icon, and 'Order Name'.

# Admission Reconciliation

Code Status: ACO:None

+ Add | Manage Plans | Reset Reconciliation

Reconciliation Status  
Meds History | Admission | Discharge

Orders Prior to Reconciliation				Orders After Reconciliation			
Order Name/Details	Status			Order Name/Details	Status		
<b>Medications</b>							
acetaminophen (Tylenol Caplet 500 mg oral tablet) <i>1 tab(s), PO, q4h, 60 tab(s), PRN: for pain -</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
albuterol (Proventil HFA 90 mcg/inh inhalation aerosol) <i>2 puff(s), inhaled, 4xd, PRN: for wheezing</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
budesonide-formoterol (Symbicort 80 mcg-4.5 mcg/inh inhalation aerosol) <i>0 Refill(s)</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
levothyroxine (Synthroid 125 mcg (0.125 mg) oral tablet) <i>125 mcg, 1 tab(s), PO, daily, 30 tab(s), 0 Refill(s)</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
predniSONE (predniSONE 10 mg oral tablet) <i>0 Refill(s)</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
sertraline (sertraline 100 mg oral tablet) <i>100 mg, 1 tab(s), PO, daily, 30 tab(s), 0 Refill(s)</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
thyroid desiccated (Armour Thyroid 120 mg oral tablet) <i>120 mg, 1 tab(s), PO, daily, 30 tab(s)</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
thyroid desiccated (Armour Thyroid) <i>15 mcg, PO, daily</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
tramadol (tramadol 50 mg oral tablet) <i>50 mg, 1 tab(s), PO, q4h, 60 tab(s), PRN: for pain</i>	Documented	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>

+ Add | Manage Plans

Reconciliation Status  
Meds History | Adm

Orders Prior to Reconciliation				Orders After Reconciliation			
Order Name/Details	Status			Order Name/Details	Status		
<b>Medications</b>							
acetaminophen-hydrocodone (acetaminophen-hydrocodone 325 mg-10 mg oral tablet) <i>1 tab(s), PO, 2xdaily, PRN: for pain, 0 Refill(s) - Still Taking, Last Dose Unknown</i>	Documented	<input type="radio"/>	<input checked="" type="radio"/>			<input type="radio"/>	<input checked="" type="radio"/>
acetaminophen-hydrocodone (acetaminophen-hydrocodone 325 mg-5 mg oral tablet)	Ordered	<input checked="" type="radio"/>	<input type="radio"/>	acetaminophen-hydrocodone (acetaminophen-hydrocodone 325 mg-5 mg oral tablet)	Ordered	<input checked="" type="radio"/>	<input type="radio"/>

# Pharmacy Clinical Services

- Vancomycin / aminoglycoside dosing
- Renal dosing adjustment
- Epoetin (dose adjustment)/ monitoring
- Anticoagulant monitoring, Heparin dosing, warfarin dosing
- Antibiotic monitoring
- IV to oral conversion
- Therapeutic interchange
- Code blue and code white response team
- medication histories in ED
- Other protocols - levothyroxine, pain medication audit and tiering
- Services not provide:
  - Pharmacists do not currently dose TPN

# Fentanyl patches (Duragesic®)

## Criteria for Ordering:

Patient is continuing fentanyl patch dose from home

- or

All of the following criteria must be met:

1. Persistent, moderate to severe chronic pain
2. Pain not managed by non-steroidal analgesics, opiate combination products, or immediate-release opiates
3. Patient has been taking for a week or longer at least 60 mg of oral morphine daily or an equianalgesic dose of another opiate (e.g. approximately 7-8 Norco 5)

Dose increases: at least 3 days after the initial dose, then every 6 days thereafter.



## Preferred Formulary Drugs (Therapeutic Interchange)

- **Proton pump inhibitors:** omeprazole po, pantoprazole IV
- **Insulin:** HumuLIN<sup>®</sup> R, HumaLOG<sup>®</sup>, Lantus<sup>®</sup>
- **oral iron:** ferrous sulfate 325mg
- **calcium supplements:** calcium carbonate 500mg
- **Sedative hypnotics:** TEMazepam, zolpidem
- **Carbapenems:** meropenem (Merrem<sup>®</sup>)
- **Statin:** atorvaSTATin
- **Fluoroquinolones:** Levaquin<sup>®</sup> (levOFLOXacin) , Cipro<sup>®</sup> (ciprofloxacin)
- **inhaler combinations:** fluticasone/ salmeterol - Advair

# Antibiotic Stewardship Program

- ATB Stewardship Committee includes ID Physicians, Infection Control Specialists, Clinical Pharmacists, Microbiologist
- Daily Antibiotic review by pharmacist to assess for appropriateness and possible de-escalation:
  - All cases with three or more antibiotics
  - Patient on ATBs for three or more days
- Diagnosis required for certain antibiotic ordering

# Non-restricted Anti-Infective Drugs

- **CEPHALOSPORINS:** ceFAZolin (Ancef®), CefTAZidime (Fortaz®, Tazicef®) cefTRIAxone (Rocephin®) ceFEPime (Maxipime®)
- **PENICILLINS:** ampicillin, ampicillin/sulbactam (Unasyn®), penicillin, nafcillin; piperacillin/tazobactam (Zosyn®)
- **AMINOGLYCOSIDES:** gentamicin, tobramycin, amikacin
- **TETRACYCLINES:** doxycycline
- **MACROLIDES:** AZithromycin (ZithroMAX®), erythromycin, clarithromycin (Biaxin)
- **FLUOROQUINOLONES:** ciprofloxacin (Cipro®) , levOFLOXacin (Levaquin®)
- **CARBAPENEMS:** meropenem (Merrem®)
- **ANAEROBIC AGENTS:** metroNIDAZOLE (Flagyl®), clindamycin (Cleocin®), chloramphenicol
- **OTHERS:** vancomycin, rifAMPin, colistin, aztreonam (Azactam®)
- **ANTIFUNGALS:** amphotericin B, liposomal amphotericin B (Abelcet®), fluconazole (DiFLUCan®), micafungin

# Restricted Anti-Infective Agents

## **ID restricted**

- ceftaroline (Teflaro®)
- tigecycline (Tygacil®)
- DAPTOmycin (Cubicin®)
- linezolid (ZYVox®)
- voriconazole (Vfend®)
- fidaxomicin (Difacid®)
- Fosfomycin (Monurol)
- Ceftolazane/tazobactam (Zerbaxa®)
- Ertapenem (Invanz®)
- CeftAZIDime/avibactam ( Avycaz®)
- Telavancin (Vibativ)
- Posaconazole (Noxafil)
- Omadacycline (Nuzyra)

# Drug Shortages

- Drug shortage link: [bit.ly/tmmcdrugshortages](http://bit.ly/tmmcdrugshortages)
- EMR alerts during ordering process

● hydrALAZINE IVPB Ped 0.1 mg/kg, Soln, IVPB, q6h@06, < 20 kg  
● hydrALAZINE tab  
● hydrALAZINE tab 10 mg, Tab, PO, 1xonly  
● hydrALAZINE tab 25 mg, Tab, PO, 1xonly  
● hydrALAZINE tab 50 mg, Tab, PO, 1xonly  
● hydrALAZINE tab 100 mg, Tab, PO, 1xonly  
● hydrALAZINE tab 10 mg, Tab, PO, 2xdaily  
● hydrALAZINE tab 25 mg, Tab, PO, 2xdaily  
● hydrALAZINE tab 100 mg, Tab, PO, 2xdaily  
● hydrALAZINE tab 50 mg, Tab, PO, 2xdaily  
● hydrALAZINE tab 10 mg, Tab, PO, 3xdaily  
● hydrALAZINE tab 25 mg, Tab, PO, 3xdaily  
● hydrALAZINE tab 50 mg, Tab, PO, 3xdaily  
● hydrALAZINE tab 100 mg, Tab, PO, 3xdaily  
● hydrALAZINE tab 10 mg, Tab, PO, 4xdaily  
● hydrALAZINE tab 25 mg, Tab, PO, 4xdaily  
● hydrALAZINE tab 50 mg, Tab, PO, 4xdaily  
● hydrALAZINE tab 100 mg, Tab, PO, 4xdaily  
● hydrALAZINE tab  
10 mg, Tab, PO, q6hrs, PRN, elevated blood pressure, for BP> \_\_\_  
● hydrALAZINE tab  
25 mg, Tab, PO, q6hrs, PRN, elevated blood pressure, for BP> \_\_\_  
● hydrALAZINE tab  
10 mg, Tab, PO, q4h, PRN, elevated blood pressure, for BP> \_\_\_  
● hydrALAZINE tab  
25 ma. Tab. PO. q4h. PRN. elevated blood pressure. for BP> \_\_\_

● High Alert hydrALAZINE injection  
5 mg, Inj, IVP, q4h, PRN, elevated blood pressure, for BP> \_\_\_  
● High Alert hydrALAZINE injection  
20 mg, Inj, IVP, q4h, PRN, elevated blood pressure, for BP> \_\_\_

**High Alert**

**hydrALAZINE injection Shortage Alert**

Quantity approaching zero. Please cancel this order and consider an alternative.

This message is reviewed (updated, if required) on Tuesdays and Thursdays of every week.

# Reporting Adverse Drug Events

- Patient Safety Event Reporting System
- Report
  - Near misses
  - unsafe conditions
  - Medication errors
  - Adverse drug reactions
- Staff required to report ADRs to primary physician.

The screenshot shows the Torrance Memorial Medical Center website. The top navigation bar includes links for Programs, Councils, Human Resources, Departments, and EMERGENCY Procedures. A search bar is located in the top right. Below the navigation bar, a user is logged in as Wendy Waldman. The main content area features a sidebar on the left with a 'Patient Safety Event' link highlighted by a red arrow. The sidebar also includes links for FocalPoint, Capsule, Clinical & Nursing Systems, Business & HR Systems, Physician / AHP Roster, Medical Center Phone Directory, and Other Systems. The main content area displays a congratulatory message for patient experience excellence and a list of news items, including a wireless network upgrade notification and several newsletters.

# Welcome to Torrance Memorial