

**Compounding Formulas & Instructions**  
**CHI Memorial Hospital Pharmacy Department**  
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Product	Ingredients	Preparation Instructions	Expiration/Storage
Amphotericin B for irrigation	Amphotericin B 50 mg vial D5W 500 ml	1. Add amphotericin B 50 mg to D5W 500 ml. 2. Dispense in bottle for irrigation.	14 days Protect from light
Carafate suspension 1 gm/10 ml	Carafate 1 gm tabs (12) Sorbitol 70%	1. Add 80 ml of water to 8 ounce bottle. 2. Add 12 carafate 1 gm tablets to water and shake. 3. After tablets dissolved (approximately 2 minutes), add 40 ml sorbitol for total volume 120 ml.	14 days refrigerated
Carbidopa/levodopa (Sinemet) suspension Carbidopa: 0.25 mg/ml Levodopa: 1 mg/ml Ascorbic acid: 2 mg/ml	Ascorbic acid 500 mg tabs (4) Sinemet 25/100 mg tabs (10) Sterile water (1000 ml)	1. Crush 4 ascorbic acid 500 mg tabs and add to 1000 ml sterile water. 2. Crush 10 Sinemet 25/100 mg tabs and add to solution. 3. Shake well.	24 hours refrigerated
Cefazolin 10 mg/1 ml Intra-ocular (Dr. Bowers)	Cefazolin 1 gm vial Sterile water (10 ml) NS (preservative free)	1. Dilute cefazolin 1 gm vial with 10 ml sterile water. 2. Withdraw 0.1 ml (10 mg) in TB syringe. 3. QS to 1 ml with NS (preservative free). 4. Label with canned label SGBOWERP12.	30 hours room temp, 9 days refrigerated
Cefazolin 25 mg/1 ml Sub-conjunctival (Dr. Bowers)	Cefazolin 1 gm vial Sterile water 10 ml NS (preservative free)	1. Dilute cefazolin 1 gm vial with 10 ml sterile water. 2. Withdraw 0.25 ml (25 mg) in TB syringe. 3. QS to 1 ml with NS (preservative free). 4. Label with canned label SGBOWERP4.	30 hours room temp, 9 days refrigerated
Colistin nebulizer Dose: 75-80 mg/dose BID-4XD	Colistin 150 mg vial NS or SW	1. Add 8 ml of NS or SW to 150 mg vial (to make 18.75 mg/ml). 2. Withdraw 4 ml in 5 ml syringe for 75 mg dose.	24 hours refrigerated or room temp
Cyclosporine ophthalmic drops 10 mg/ml – 10 ml bottle	Cyclosporine 100 mg/ml oral solution Artificial tears 15 ml bottle Sterile water for injection Sterile Light Mineral Oil	1. Withdraw 3 ml of cyclosporine 100 mg/ml oral solution into a 3 ml syringe. 2. Attach a 0.22 micron filter to the 3 ml syringe and filter the solution into a sterile empty evacuated 30 ml vial. 3. Remove solution from Artificial Tears bottle and rinse bottle with sterile water for injection. 4. Remove 1 ml of the filtered cyclosporine and place in Artificial Tears bottle. 5. Add 9 ml of Sterile Light Mineral Oil to the 1 ml of cyclosporine in the Artificial Tears bottle to make 100 mg/10 ml. 6. Shake well before using.	30 days
Dakins ¼ strength solution (0.125%)	Bleach 25 ml Water for irrigation 975 ml Sodium bicarb tablet	1. Add 25 ml bleach to 975 ml water for irrigation. 2. Add ¼ of a sodium bicarb tablet.	7 days

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Epinephrine/cocaine gel (Dr. Minton in ER may use)	Epinephrine 1 mg/ml – 0.8 ml Cocaine 10% - 1.8 ml Methylcellulose 0.15 gm	1. Mix 0.8 ml of epinephrine 1 mg/ml with 1.8 ml cocaine 10%. 2. Mix in 0.15 gm methylcellulose.	Unknown; make just before use
Kayexalate Suspension 25 gm/100 ml	Sorbitol 70% - 100 ml Distilled water - 500 ml Kayexalate 125 gm	1. Add 100 ml Sorbitol 70% to Kayexalate 125 gm powder in bottle. 2. QS to 400-450 ml with <u>distilled water</u> and shake vigorously. 3. QS to 500 ml with distilled water and shake.	24 hours refrigerated
LAT Gel	Lidocaine HCl powder 4 gm Topical epinephrine 1 mg/ml (50 ml) Tetracaine HCl powder 500 mg	1. Dissolve lidocaine powder 4 gm and tetracaine HCl powder 500 mg in topical epinephrine 1 mg/ml 50 ml. 2. Mix and filter with 0.22 micron filter. 3. QS up to 100 ml total volume with sterile KY Jelly. 4. Triturate to make a viscous, hydrated solution. 5. Draw up in a 3 ml syringe.	30 days refrigerated
MD Anderson Mouthwash	Nystatin oral suspension Solu-cortef 100 mg/2 ml vials Tetracycline powder 1G + Sodium benzoate powder 1G Citric acid 0.5 G Benadryl 12.5 mg/5 ml elixir	1. Shake Nystatin suspension cups well then withdraw 24 ml using 30 ml syringe and luer lock-to-catheter tip adapter. 2. Reconstitute 2 vials of Solu-Cortef (100 mg/2 ml each), then withdraw using a 5 ml syringe. 3. Pour Benadryl elixir 400 ml into 500 ml graduated cylinder. 4. Pour Benadryl elixir 67 ml into 100 ml graduated cylinder. 5. Have pharmacist check ingredients prior to compounding and initial the log book with the technician who prepared the ingredients. 6. Add first four ingredients into empty 500 ml sterile water bottle. Shake well. Add Benadryl. Shake well. ALLOW AT LEAST 30 MINUTES FOR POWDER TO DISSOLVE. 7. Shake well. Using Multi-Ad fluid dispensing system set at 5 ml, transfer compounded suspension into unit dose liquid cups and close lids, add barcode labels, MD Anderson, shake well and refrigerate auxiliary labels. Obtain second pharmacist check on log sheet.	30 days refrigerated
Mercurochrome 10% solution	Mercurochrome 10 gm Sterile Water 100 ml	1. Dissolve 10 gm mercurochrome powder in 100 ml sterile water.	30 days
Nifedipine 0.2% 30 gm (in Polox gel)	Nifedipine NF 60 mg Polox 20% 30 gm (or Pluronic F-127NF 20%) Propylene glycol USP qs	1. Levigate nifedipine NF 60 mg with a small amount of propylene glycol to solubilize. 2. Incorporate into 30 gm of Polox 20% (Pluronic F-127NF 20%) gel with levigation.	6 months
Omeprazole 200 mg/100 ml solution	Omeprazole 20 mg caps Sodium bicarb solution 1 meq/ml	1. Empty contents of #10 omeprazole 20 mg capsules into 8 ounce bottle. 2. Add 100 ml of sodium bicarbonate (1 meq/ml) and allow to sit for 60 minutes to dissolve granules. 3. Swirl gently to avoid foaming and pressure buildup. 4. Use 20 ml (40 mg) for each dose.	14 days room temperature

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Oseltamivir (Tamiflu) 6 mg/ml oral suspension	Oseltamivir 75 mg caps (#12) Sterile water 10 ml Ora-Sweet 137 ml	<ol style="list-style-type: none"> <li>1. Add sterile water 10 ml to an amber bottle.</li> <li>2. Carefully open each capsule and transfer contents to the amber bottle.</li> <li>3. Gently swirl the suspension for at least 2 minutes.</li> <li>4. Slowly add 137 ml of Ora-Sweet (or alternative) to the bottle.</li> <li>5. Shake well for 30 seconds to completely dissolve the active drug and to ensure homogenous distribution of the dissolved drug in the resulting suspension. (Note: the oseltamivir phosphate readily dissolves in the Ora-Sweet, but the suspension is due to some of the inert ingredients of the capsules that are insoluble in the vehicle).</li> <li>6. Dispense 12.5 ml into twelve unit dose cups.</li> <li>7. Add ancillary labels to each unit dose cup: Refrigerate, Shake Well</li> </ol>	5 weeks refrigerated
Phenylephrine irrigation 20 mcg/ml (for Dr. Benton)	Phenylephrine 10 mg/ml NS 499 ml	<ol style="list-style-type: none"> <li>1. Mix phenylephrine 10 mg/ml into NS 499 ml for total volume = 500 ml.</li> </ol>	
Questran (cholestyramine) + Desitin Cream (use for diaper rash, irritation from diarrhea)	Questran Desitin	<ol style="list-style-type: none"> <li>1. Mix Questran into Desitin until very thick consistency.</li> </ol>	
Rifampin Oral Suspension (Merrel Dow Pharm) 10 mg/ml	Rifampin 150 mg or 300 mg caps Simple syrup 120 ml	<ol style="list-style-type: none"> <li>1. Empty contents of 4 x 300 mg OR 8 x 150 mg capsules into 4 ounce amber glass bottle.</li> <li>2. Add 20 ml simple syrup.</li> <li>3. Shake vigorously.</li> <li>4. Add 100 ml simple syrup.</li> <li>5. Shake again.</li> </ol>	14 days
SMOG Enema	Sorbitol 70% - 36 ml Glycerin 100% - 10 ml (in alcohol room) Mineral oil – 100 ml Sterile water – 154 ml	<ol style="list-style-type: none"> <li>1. Mix listed ingredients in empty SW for irrigation bottle.</li> <li>2. Total volume = 300 ml</li> </ol>	6 months
Sodium bicarbonate 2.5% (respiratory)	Sodium bicarbonate 8.4% (10 ml) NS preservative free (23.6 ml)	<ol style="list-style-type: none"> <li>1. Add 10 ml of sodium bicarbonate 8.4% to a sterile evacuated vial.</li> <li>2. Add 23.6 ml of 0.9% sodium chloride preservative free to the same vial for total volume = 33.6 ml.</li> </ol>	30 days refrigerated
Tobramycin 2 mg/1 ml Intra-ocular (Dr. Bowers)	Tobramycin 80 mg/2ml vial NS (preservative free)	<ol style="list-style-type: none"> <li>1. Withdraw 0.05 ml (2 mg) from tobramycin 80 mg/2ml vial.</li> <li>2. QS to 1 ml with NS (preservative free).</li> <li>3. Label with SGBOWERP11.</li> </ol>	30 hours room temp, 9 days refrigerated
Tobramycin 25 mg/1 ml Sub-conjunctival (Dr. Bowers)	Tobramycin 80 mg/2ml vial NS (preservative free)	<ol style="list-style-type: none"> <li>1. Withdraw 0.625 ml (25 mg) from tobramycin 80 mg/2ml vial.</li> <li>2. QS to 1 ml with NS (preservative free).</li> <li>3. Label with canned label SGBOWERP5.</li> </ol>	30 hours room temp, 9 days refrigerated

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Tobramycin ophthalmic solution 13.6 mg/ml – 7 ml dropper bottle	Tobramycin 40 mg/ml vial Tobramycin 0.3% 5 ml bottle	<ol style="list-style-type: none"> <li>1. Withdraw 2 ml of tobramycin for injection (40 mg/ml) into a sterile syringe in a hood using aseptic technique.</li> <li>2. Remove bottle cap and tip from the commercial bottle of tobramycin 0.3% 5 ml eye drops.</li> <li>3. Add the 2 ml of tobramycin injection to contents of the eye drop bottle to yield 13.6 mg/ml.</li> <li>4. Replace tip and cap.</li> </ol>	14 days room temperature
Tretinoin (ATRA) Suspension	Tretinoin 10 mg capules Sterile water – 20 ml	<ol style="list-style-type: none"> <li>1. Using 60 ml syringe, take plunger out, add tretinoin capsules (number required for single dose), replace plunger &amp; pull back to 30 ml.</li> <li>2. Place 20 ml sterile water vial in warmer or hot water bath. Using separate syringe draw up 20 ml of warm sterile water &amp; add to capsules through the luer tip of the 60 ml syringe. Then cap syringe with red luer lock tip.</li> <li>3. Place capped syringe in hot water bath until all dissolved &amp; yellow/orange suspension is formed (takes 20-30 minutes).</li> <li>4. Give immediately &amp; flush tube with warm water.</li> </ol> <p>** Label: NOT FOR IV USE and dispense with adaptor for tube administration ** High cost med: confirm with RN that ready to give prior to administration ** RN can administer using handling procedures</p>	No stability data; make just prior to administration
Triamcinolone nebulizer (usual dose 200-1000 mcg/dose BID-4XD)	Kenalog 40 mg/ml vial NS preservative free	<ol style="list-style-type: none"> <li>1. Mix 0.5 ml of Kenalog (conc 40 mg/ml) with 9.5 ml of NS preservative free make 2 mg/ml (batch).</li> <li>2. Mix 0.2 ml of batch solution (2 mg/ml) and 2.8 ml of NS preservative free into a 3 ml syringe (400 mcg/3 ml).</li> </ol>	Unknown. Use ASAP.
Vancomycin 10 mg/1 ml Intra-ocular (Dr. Bowers)	Vancomycin 500 mg vial Sterile water 10 ml NS (preservative free)	<ol style="list-style-type: none"> <li>1. Dilute vancomycin 500 mg vial with 10 ml sterile water.</li> <li>2. Withdraw 0.2 ml (10 mg) in TB syringe.</li> <li>3. QS to 1 ml with NS (preservative free).</li> <li>4. Label with SGBOWERP9.</li> </ol>	30 hours room temp, 9 days refrigerated
Vancomycin 25 mg/1 ml Sub-conjunctival (Dr. Bowers)	Vancomycin 500 mg vial Sterile water 10 ml NS (preservative free)	<ol style="list-style-type: none"> <li>1. Dilute vancomycin 500 mg vial with 10 ml sterile water.</li> <li>2. Withdraw 0.5 ml (25 mg) in TB syringe.</li> <li>3. QS to 1 ml with NS (preservative free).</li> <li>4. Label with canned label SGBOWERP09.</li> </ol>	30 hours room temp, 9 days refrigerated
Vancomycin ophthalmic solution 25 mg/ml – 15 ml dropper bottle	Vancomycin 500 mg vial Artificial tears 15 ml bottle	<ol style="list-style-type: none"> <li>1. Use Artificial Tears 15 ml bottle. Remove cap and withdraw 7.5 ml. Cap removal and dilution must be done in a hood using aseptic technique.</li> <li>2. Discard 2.5 ml (of the 7.5 ml withdrawn in step #1).</li> <li>3. Use remaining 5 ml to dilute vancomycin 500 mg vial.</li> <li>4. Withdraw 2.5 ml of diluted vancomycin solution (250 mg).</li> <li>5. Add this 2.5 ml back to Artificial Tears for total volume = 10 ml (25 mg/ml).</li> <li>6. Replace cap and tip.</li> </ol>	14 days room temperature

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Vancomycin oral liquid 125 mg/5 ml	Sterile Water 195 ml Vancomycin 10 gm vial Ora-Sweet 200 ml	<ol style="list-style-type: none"> <li>1. Add 95 ml of sterile water to a 10 gm vial of vancomycin powder for injection, and let dissolve until the solution is clear.</li> <li>2. Withdraw 100 ml of the solution and add another 100 ml of sterile water (i.e. QS to a total of 200 ml).</li> <li>3. Add 200 ml of Ora-Sweet to the 200 ml of vancomycin solution to make a total volume of 400 ml (Note: the resulting solution will be 25 mg/ml).</li> <li>4. Withdraw 5 ml aliquots (125 mg/5 ml) and place in 15 ml opaque screw top vials, and securely tighten the lids to the bottles. (Note: You may use the auto-injector to measure the 5 ml doses.</li> <li>5. Generate a barcode label in Interface Manager.</li> <li>6. Affix barcode label, a Vancomycin Oral Solution and a <b>**Keep Refrigerated**</b> auxiliary label to each bottle.</li> </ol>	75 days refrigerated
Vancomycin otic or ophthalmic solution 32 mg/ml – 15 ml dropper bottle	Vancomycin 500 mg vial Sterile water 10 ml Artificial tears 15 ml bottle	<ol style="list-style-type: none"> <li>1. Use Artificial Tears 15 ml bottle. Remove cap and withdraw 9.6 ml. Cap removal and dilution must be done in a hood using aseptic technique.</li> <li>2. Discard the 9.6 ml removed from Artificial Tears bottle.</li> <li>3. Dilute vancomycin 500 mg vial with 10 ml of sterile water.</li> <li>4. Withdraw 9.6 ml of diluted vancomycin (480 mg).</li> <li>5. Add the 9.6 ml of vancomycin to Artificial Tears bottle to bring total volume back to 15 ml (32 mg/ml).</li> </ol>	7 days refrigerated
Vancomycin/heparin for dialysis catheter ports	Vancomycin 500 mg vial NS 20 ml vial	<ol style="list-style-type: none"> <li>1. Vanco 500 mg vial. NS 0.9% 20 ml vial. Dissolve vancomycin powder with 10 ml NS 0.9% to make 50 mg/ml. Save remainder of NS 0.9% for use in step #4.</li> <li>2. Withdraw &amp; discard 1 ml from a NS 0.9% 10 ml vial. Set this vial aside for use in step #3.</li> <li>3. Place 1 ml of the vancomycin 50 mg/ml from step #1 into the vial of 9 ml NS 0.9% from step #2. This makes a total of 10 ml vancomycin 5 mg/ml.</li> <li>4. Into the syringes to be delivered to dialysis unit (one syringe for each dialysis catheter port): <ol style="list-style-type: none"> <li>a. Draw 1 ml of vancomycin 5 mg/ml from step #3 into each 3 ml delivery-syringe. Set aside for use in step #4c.</li> <li>b. Draw heparin 2,000 units/0.2 ml from a heparin 10,000 units/ml vial into a 1 ml syringe. Repeat this step for the number of delivery-syringes needed. Set aside for use in step #4c.</li> <li>c. Combine heparin and vanco into each delivery-syringe.</li> <li>d. qs each delivery-syringe with about 0.8 ml NS 0.9% from the leftover in step #1 to make a total volume of 2 ml of the combined contents of vancomycin/heparin/saline.</li> </ol> </li> </ol>	

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Vitamin K (phytonadione) 5 mg/5 ml oral solution	Vitamin K 10mg/mL X 1 ampule Grape Seed Oil X 9mL Filter needle X 1 10mL syringe X 2 Fluid Dispensing Connector X 1 15mL unit dose cups X 2	<ol style="list-style-type: none"> <li>1. First syringe: draw up 1 ml Vitamin K injection using filter needle.</li> <li>2. Second syringe: Draw up 9 ml Grape Seed Oil.</li> <li>3. Attach syringes with fluid dispensing connector.</li> <li>4. Mix several times between two 10 ml syringes through the fluid dispensing connector.</li> <li>5. Transfer 5 ml into each unit dose cup.</li> </ol>	14 days room temperature