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Patient Name:	
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Zolodronic Acid (ZOMETA)

CMC85950-002NS Rev. 10/2022 Infusion Therapy Plan (Endocrinology)
Baseline Patient Demographic
To be completed by the ordering provider.
Diagnosis: kg Body Surface Area: (m²)
□ NKDA - No Known Drug Allergies □ Allergies: □
Therapy Plan orders extend over time (several visits) including recurring treatment.
Please specify the following regarding the entire course of therapy:
Duration of treatment: weeks months unknown
Treatment should begin: as soon as possible (within a week) within the month
**Plans must be reviewed / re-ordered at least annually. **
ORDERS TO BE COMPLETED FOR EACH THERAPY
☐ Physician communication
***This is a reminder to order prescriptions for calciTRIOL and calcium carbonate. Use the 'ADD ORDER' at the bottom of the Orders Only navigator and search for 'zometa'. A discharge prescription panel titled 'calciTRIOL and calcium carbonate prescriptions for zoledronic acid infusions panel' should show on the facility preference list under Ambulatory Medications.
ADMIT ORDERS
☑ Height and weight
✓ Vital signs
HYPOTENSION DEFINE ADMIT
✓ Nursing communication
Prior to starting infusion, please determine the patient's threshold for hypotension as defined by the following parameters. This information will be
needed in the event of an infusion reaction. Hypotension is defined as follows:
1 month to 1 year - systolic blood pressure (SBP) less than 70
1 year to 11 years - systolic blood pressure (SBP) less than 70+ (2 x age in years)
11 years to 17 years - systolic blood pressure (SBP) less than 90 OR any age - systolic blood pressure (SBP) drop of more than 30% from baseline.
Baseline systolic blood pressure (SBP) x 0.7 = value below defined as hypotension.
☐ Nursing communication
Please send staff message to Dallas or Plano endo nurse pool upon patient arrival for zoledronic acid infusion.
NURSING ORDERS
Please select all appropriate therapy
IV START NURSING ORDERS
Insert Peripheral IV Place PIV if needed or access IVAD if available.
□ lidocaine 1% BUFFERED (J-TIP LIDOCAINE)
0.2 mL, INTRADERMAL, PRN
when immediate procedure needed when procedure will take about 1 minute patient / family preference for procedure
Administration Instructions: NOTE: Do not use this medication in patients with bleeding disorders, platelets < 20,000, or in patients taking
anticoagulants, when accessing implanted ports or using a vein that will be utilized for chemotherapy administration, nor for pre-term infants or neonates.
☐ lidocaine - prilocaine (EMLA) cream
TOPICAL, PRN
when more than 60 minutes are available before procedure when procedure will take more than 1 hour
☐ patient / family preference for procedure Administration Instructions: NOTE: In children < 3 months of age, or < 5 kg in weight, maximum application time is 1 hour.
☐ lidocaine with transparent dressing 4% kit
TOPICAL, PRN
when 20 - 30 minutes are available before procedure when procedure will take more than 1 hour
patient / family preference for procedure



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ORDERS TO BE COMPLETED FOR EACH THERAP	Y	
NURSING ORDERS, CONTINUED		
☐ Heparin flush		
heparin flush 10 - 50 units, INTRAVENOUS, PRN, IV line flush. used with all central lines including IVADs, with the		be used to flush peripheral IVs. This heparin flush should be /AD.
heparin flush 100 - 300 units, INTRAVENOUS, PRN, IV line fl de-accessing IVADs.	ush. Per protocol, heparin sho	uld not be used to flush peripheral IVs. For use only when
☐ Sodium chloride flush		
Sodium chloride flush 0.9% injection 1 - 20 mL, INTRAVENOUS, PRN, IV line flush		
Sodium chloride - preservative free 0.9% injecti 1 - 30 mL, INTRAVENOUS, PRN, IV line flush	on	
PRE-PROCEDURE LABS		
✓ Calcium, Total Unit collect	INTERVAL: Every visit	DURATION: Until discontinued
▼ Phosphorus Unit collect	INTERVAL: Every visit	DURATION: Until discontinued
Magnesium Unit collect	INTERVAL: Every visit	DURATION: Until discontinued
Creatinine Unit collect	INTERVAL: Every visit	DURATION: Until discontinued
☐ Urinalysis Unit collect	INTERVAL: Every visit	DURATION: Until discontinued
PRE-MEDICATIONS		
☐ Acetaminophen pre-medication 30 minutes pric	or (15 mg / kg, maximum 650 m	g)
Nursing communication Administer only one of the acetaminophen orders,	suspension or tablets, do not giv	e both.
acetaminophen suspension 15 mg / kg, ORAL, for 1 dose pre-medication, give Dose:	30 minutes prior to infusion	
acetaminophen tablet 15 mg / kg ORAL, for 1 dose pre-medication, give 3 Dose:	30 minutes prior to infusion	
\square Ibuprofen pre-medication 30 minutes prior (10 r	ng / kg, maximum 600 mg)	
Nursing communication Administer only one of the ibuprofen orders, suspe	nsion or tablets, do not give both	
ibuprofen suspension 10 mg / kg, ORAL, for 1 dose pre-medication, give Dose:	30 minutes prior to infusion	
ibuprofen tablet 10 mg / kg ORAL, for 1 dose pre-medication, give s Dose:	30 minutes prior to infusion	



Dose:

Volume of Sodium Chloride: ☐ 50 mL ☐ 100 mL

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Zoledronic Acid (ZOMETA) ORDERS TO BE COMPLETED FOR EACH THERAPY PRE-MEDICATIONS, CONTINUED ☐ Diphenhydramine pre-medication 30 minutes prior (1 mg / kg, maximum 50 mg) **Nursing communication** Administer only one of the diphenhydrAMINE pre-medication orders, liquid, capsule or injection, do not give more than one of the orders as a pre-medication. diphenhydrAMINE liquid 1 mg / kg, ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion Dose: diphenhydrAMINE capsule 1 mg / kg ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion Dose: diphenhydrAMINE injection 1 mg / kg, INTRAVENOUS, 1 dose pre-medication, give 30 minutes prior to infusion Dose: **INTRA-PROCEDURE** ✓ Vital signs Check blood pressure, pulse, respirations, temperature and pain prior to the start of the infusion. Observe vitals every 30 minutes upon the initiation of the infusion for signs and symptoms and / or complaints of infusion related reactions. **✓** Nursing communication Monitor fluid intake and urine output during the infusion and as needed. ☑ Physician communication order Please enter the dose of zoledronic acid in 'mg' to facilitate prior authorization requirements: First dose: 0.0125 mg / kg (maximum 4 mg) over 60 minutes. Second and subsequent doses: start at 0.025 mg / kg (maximum 4 mg) over 60 minutes and titrate for efficacy. (For doses of 0.05 mg / kg, medication should be prepared in 100 mL) Default of 100 mL NS is selected, 50 mL can be selected based on provider discretion (low dose and children less than 3 years old). When a NS bolus is ordered, give over 30 minutes immediately before and after zoledronic acid infusion. ☐ sodium chloride 0.9% for fluid bolus INTERVAL: Every visit INTRAVENOUS, administer over 30 minutes. Give 30 minutes prior to zoledronic acid infusion. Dose: ☐ 10 mL/kg ☐ 20 mL/kg Zoledronic Acid (initial dose for low and high dose) Select one product below: **DEFER UNTIL:** ☐ Zoledronic acid 0.0125 mg / kg **INTERVAL:** Once **DURATION:** For 1 treatment in sodium chloride 0.9% 100 mL infusion INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer over 60 minutes. Zoledronic acid must not be mixed with calcium or other divalent cation-containing infusion solutions, such as Lactated Ringer's solution, and should be administered as a single intravenous solution in a line separate from all other drugs. Dose: Volume of Sodium Chloride: ☐ 50 mL ☐ 100 mL ☐ Zoledronic acid 0.025 mg / kg INTERVAL: Day 1 of every 3 months DEFER UNTIL: **DURATION:** Until discontinued in sodium chloride 0.9% 100 mL infusion INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer over 60 minutes. Zoledronic acid must not be mixed with calcium or other divalent cation-containing infusion solutions, such as Lactated Ringer's solution, and should be administered as a single intravenous solution in a line separate from all other drugs.



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ORDERS TO BE COMPLETED FOR EACH THERAPY	
INTRA-PROCEDURE, CONTINUED	
ledronic Acid (Possible) 2nd Initial Dose (second dose at 3 months for high dose, i	f needed)
☐ Zoledronic acid 0.0375 mg / kg INTERVAL: Once DEFE in sodium chloride 0.9% 100 mL infusion	ER UNTIL: DURATION: For 1 treatment
INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer or other divalent cation-containing infusion solutions, such as Lactated Ringer's solution in a line separate from all other drugs. Dose: Volume of Sodium Chloride: 50 mL 100 mL	
edronic Acid (maintenance dose) (low dose - 0.025 mg / kg) OR (high dose-0.05 mg rting at 6 months and then every 6 months ect one product below:	g / kg)
☐ Zoledronic acid 0.025 mg / kg INTERVAL: Day 1 of every 6 months DEFE in sodium chloride 0.9% 100 mL infusion	ER UNTIL: DURATION: Until discontinued
INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer or other divalent cation-containing infusion solutions, such as Lactated Ringer's solution in a line separate from all other drugs. Dose:	
Volume of Sodium Chloride: ☐ 50 mL ☐ 100 mL	
☐ Zoledronic acid 0.05 mg / kg INTERVAL: Day 1 of every 6 months DEFE in sodium chloride 0.9% 100 mL infusion	ER UNTIL: DURATION: Until discontinued
INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer or other divalent cation-containing infusion solutions, such as Lactated Ringer's solution in a line separate from all other drugs. Dose:	
Volume of Sodium Chloride: ☐ 50 mL ☐ 100 mL	
☐ Dallas Special Procedures ☐ Plano Infusion Center ☐ Dallas Allergy [☐ Dallas Transplant ☐ Dallas Neurology
EMERGENCY MEDICATIONS	
 ✓ Nursing communication 1. Hives or cutaneous reaction only – no other system involvement PA 	ATIENT IS HAVING A DRUG REACTION:

- a. Stop the infusion
- b. Give diphenhydramine as ordered
- **c.** Check vitals including blood pressure every 5 minutes until further orders from provider.
- d. Connect patient up to monitor (cardiac / apnea, blood pressure and oxygen saturation), if not already on one
- e. Notify provider for further orders
- 2. Hives or cutaneous reaction plus one other system, i.e. abdominal cramping, vomiting, hypotension, altered mental status, respiratory distress, mouth / tongue swelling PATIENT IS HAVING ANAPHYLAXIS:
 - a. Stop the infusion
 - **b.** Call code do not wait to give epinephrine
 - **c.** Give epinephrine as ordered
 - d. Notify provider
 - e. Check vitals including blood pressure every 5 minutes until the code team arrives.
 - f. Connect patient up to monitor (cardiac / apnea, blood pressure and oxygen saturation), if not already on one.
 - **g.** Give diphenhydramine once as needed for hives
 - h. May repeat epinephrine every 5 minutes x 2 doses for persistent hypotension and respiratory distress with desaturation until code team arrives.
 - May give albuterol as ordered for wheezing with oxygen saturations stable while waiting for code team, continue to monitor oxygen saturation.



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Expected: Day 2, Draw calcium 48 hours after zoledronic acid infusion.

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ORDERS TO BE COMPLETED FOR EACH THERAPY
EMERGENCY MEDICATIONS, CONTINUED
Hypotension is defined as follows: 1 month to 1 year – systolic blood pressure (SBP) less than 70 1 year to 11 years – systolic blood pressure (SBP) less than 70 + (2 x age in years) 11 years to 17 years – systolic blood pressure (SBP) less than 90 OR any age – systolic blood pressure (SBP) drop more than 30% from baseline. Baseline systolic blood pressure (SBP) x 0.7 = value below defined as hypotension.
✓ EPINEPHrine Injection Orderable For Therapy Plan (AMPULE / EPI - PEN JR. / EPI - PEN) 0.01 mg / kg
0.01 mg / kg, INTRAMUSCULAR, EVERY 5 MINUTES PRN, for anaphylaxis and may be repeated for persistent hypotension and respiratory distress with desaturation until the code team arrives, for 3 doses Use caution with PIV administration. This solution has a pH < 5, or a pH > 9, or an osmolality > 600 mOsm / L. Dose:
Cardio / Respiratory Monitoring Rationale for Monitoring: High risk patient (please specify risk) □ Clinically significant cardiac anomalies or dysrhythmias □ Recent acute life-threatening event □ Unexplained or acutely abnormal vital signs □ Artificial airway (stent, tracheostomy, oral airway) □ Acute, fluctuating or consistent oxygen requirements Monitor Parameters (select all that apply): □ Heart rate □ Oxygen saturation □ Respiratory rate Telemetry Required: □ Yes □ No
diphenhydrAMINE injection 1 mg / kg, INTRAVENOUS, ONCE PRN, for hives or cutaneous reaction, for 1 dose. Maximum dose = 50 mg per dose, 300 mg per day. Dose:
✓ Albuterol for aerosol 0.25 mg / kg., INHALATION ONCE PRN, for wheezing, but oxygen saturations stable while waiting for code team, continue to monitor oxygen saturation for 1 dose Dose:
POST-PROCEDURE
▼ Nursing communication Flush PIV or IVAD with 20 mL 0.9% sodium chloride (250 mL bag) at the completion of the infusion. Flush IVAD with saline and heparin flush per protocol prior to de-accessing IVAD. Discontinue PIV prior to discharge.
Sodium chloride 0.9% infusion INTRAVENOUS, at 0 - 25 mL / hour ONCE Dose: mL
✓ Nursing communication Patient needs calcium and phosphorus labs to be drawn 24, 48 and 72 hours after zoledronic acid infusion. Please check with caregiver about preferred lab and select the appropriate lab orders and release from the therapy plan. This will ensure orders are available.
POST-PROCEDURE OUTPATIENT LAB DRAW
☐ Children's ☐ LabCorp ☐ Quest ☐ Other External Lab
Calcium and Phosphorus
☑ Calcium, Total Expected: Day 1, Draw calcium 24 hours after zoledronic acid infusion.
✓ Calcium. Total



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RDERS TO BE COMPLETED FOR EACH THERAPY				
POST-PROCEDURE OUTPATIENT LAB DRAW, CONTINUED				
 ✓ Calcium, Total Expected: Day 3, Draw calcium 72 hours after zoledronic acid infusion. ✓ Phosphorus Expected: Day 1, Draw phosphorus 24 hours after zoledronic acid infusion. ✓ Phosphorus Expected: Day 2, Draw phosphorus 48 hours after zoledronic acid infusion. ✓ Phosphorus Expected: Day 3, Draw phosphorus 72 hours after zoledronic acid infusion. 				
Signature of Provider	(circle one): MD DO Credentials	Date	Time	
Printed Name of Provider				