

## Northwest Kidney Centers

Chronic Maintenance In-Center Hemodialysis Standing Orders

# Chronic Maintenance In-Center Standing Orders - Doxercalciferol

## Doxercalciferol (ICD10 – N25.81)

- 1. Targets**     iPTH 150 – 600 pg/ml  
                     Calcium  $\leq$  10.2 mg/dl

**2. Labs:**

- a. Draw monthly calcium (in NKC Profile) unless otherwise indicated below.
- b. Draw iPTH quarterly (Jan-Apr-Jul-Oct) unless otherwise indicated below.
- c. Draw labs with the routine monthly lab draws unless otherwise indicated below.
- d. If monthly calcium  $>10.2$ , redraw calcium in 1 week (maximum 3 draws per month).
- e. If calcium  $>10.5$ , notify physician for guidance on management.

**3. Dosing:**

- a. Give doxercalciferol doses IV, 3x/week with dialysis. If patient dialyzes  $>3x/week$ , ensure doses are spaced evenly 3x/week throughout the week. If patient runs only 1 or 2 times per week administer the dose with each dialysis i.e. qweek or 2x/week, respectively.
- b. Always use the most recent calcium and iPTH when applying algorithms.
- c. If the algorithm indicates to increase the doxercalciferol dose to  $\geq 8$  mcg, contact nephrologist for instructions.
- d. If the algorithm indicates to decrease the doxercalciferol dose to  $<1$ mcg, hold doxercalciferol dose

**4. Incident Patient Algorithm:**

- a. Incident patient = patient new to dialysis or established patient who has not received any paricalcitol or doxercalciferol within past 6 months.
- b. Do not start doxercalciferol if calcium  $>9.8$ , monitor calcium monthly
- c. If calcium is  $\leq 9.8$  give doxercalciferol at the dose indicated in Table 1 and draw next iPTH in one month.

iPTH (pg/ml)	Dose (mcg)
$<300$	0
300 – 450	1
$>450 - 600$	2
$>600$	3

- d. Once doxercalciferol started and result on next iPTH draw known, proceed per Established Patient Algorithm below.

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#### 5. Established Patient Algorithm

- a. If calcium  $\geq 10.2$  mg/dl, hold doxercalciferol dose
- b. If calcium  $< 10.2$  mg/dl, determine doxercalciferol dose using the iPTH brackets in Table 2 and the following algorithm.

iPTH (pg/ml)	Bracket
$< 150$	A
150 – 450	B
$>450- 600$	C
$>600$	D

- c. Change current doxercalciferol dose based on most recent iPTH result compared to the prior iPTH result:
  - i. Hold dose if iPTH is in bracket (A)
  - ii. 1 mcg increase if patient switched from iPTH bracket (B) to bracket (C) or from bracket (C) to bracket (D) or patient remains in bracket (D)
  - iii. 2 mcg increase if patient had two or more iPTH bracket increase
  - iv. 1 mcg decrease if patient switched from iPTH bracket (D) to bracket (C) or from bracket (C) to bracket (B)
  - v. 2 mcg decrease if patient had two or more iPTH bracket decrease, unless patient switches to bracket (A), in which case hold dose
  - vi. In all other cases keep existing dose
- d. If a doxercalciferol dose change is made, or if dose is  $\geq 8$  mcg, recheck iPTH in 1 month.

#### 6. Held Dose Algorithm (for established patients)

- a. If doxercalciferol dose on hold, and most recent calcium  $< 10.0$  mg/dl AND iPTH  $> 300$  pg/ml, then manage doxercalciferol using the following algorithm:
  - i. Restart with 2mcg dose decrease if iPTH  $> 300$  pg/mL and in bracket (B) (i.e. iPTH  $> 300$  to 450 pg/mL)
  - ii. Restart with 1 mcg dose decrease from previous dose if in bracket (C)
  - iii. Restart with the same dose if in bracket (D)
- b. When Doxercalciferol restarted after a hold, recheck iPTH in 1 month
- c. If doxercalciferol on hold, and most recent calcium is  $\geq 10.0$ mg/dl AND iPTH  $> 600$  pg/ml, contact nephrologist to suggest starting or increasing cinacalcet

#### 7. Conversion from paricalcitol to doxercalciferol

- a. When a patient with a paricalcitol order switches to doxercalciferol, discontinue paricalcitol order

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- b. Convert paricalcitol to appropriate dose of doxercalciferol per conversion dose chart below. Convert to doxercalciferol when the next paricalcitol dose is due.
- c. If paricalcitol is on HOLD per held dose algorithm, hold doxercalciferol and apply held dose algorithm
- d. For paricalcitol doses other than those listed in the table below, use a doxercalciferol dose of 50% of the paricalcitol dose, rounded up to the nearest 1 mcg
- e. Check PTH with monthly labs on the month following conversion from paricalcitol to doxercalciferol.

<b>Paricalcitol to Doxercalciferol Dose Conversion Chart</b>	
Paricalcitol dose, mcg	Doxercalciferol dose, mcg
1	1
2	1
3	2
4	2
5	3
6	3
8	4
10	5
12	6
14	7

Matthew Rivara, MD \_\_\_\_\_  
Physician Name (Please Print)

\_\_\_\_\_  
Physician Signature (see **Initial Orders**)      Date \_\_\_\_\_

**Patient Name** \_\_\_\_\_ **NKC#** \_\_\_\_\_