

Appendix 2- TARGETS FOR TREATMENT (AND STRATEGY AS TO HOW TO ACHIEVE THE TARGETS)

Phosphate:	<1.8mmol/L	(renal association 2002)
Corrected calcium:	2.2-2.6mmol/L	(renal association 2002)
PTH:	150-300pg /ml	(K/DOQI 2004)

These targets will be aimed for using the following algorithm

To go through algorithm you will need corrected calcium, phosphate and PTH. Use PTH to find appropriate chart then follow instructions according to calcium and phosphate result.

If PTH has not been measured use most recent PTH.

Ensure PTH measured at least 3 monthly during maintenance phase.

PTH < 150pg/ml

Pts on cinacalcet and std therapy	Pts on std therapy
Ca <2.2 PO4 <=1.8 Decrease dose of cinacalcet 1 step <u>If no change after 1-2 week or if calcium <1.9 add/increase calcium supplementation 1 step.</u>	Ca <2.2 PO4 <=1.8 Add/increase calcium supplementation 1 step If no change after 1-2 week or if calcium <1.9 then increase dose of Vitamin D 1 step
Ca <2.2 PO4 >1.8 Increase dose of ca containing phosphate binders 1 step	Ca <2.2 PO4 >1.8 Increase dose of ca containing phosphate binders 1 step
Ca >2.6 PO4 <=1.8 Decrease dose of ca containing phosphate binders 1 step If no improvement in 1-2 week or not on ca phosphate binders then decrease dose of Vitamin D 1 step	Ca >2.6 PO4 <=1.8 Decrease dose of ca containing phosphate binders 1 step If no improvement in 1-2 week or not on ca phosphate binders then decrease dose of Vitamin D 1 step
Ca >2.6 PO4 >1.8 Decrease Vitamin D 1 step If not on vit D then increase dose of non-ca containing phosphate binders 1 step	Ca high PO4 high Decrease Vitamin D 1 step If not on vit D then increase dose of non-ca containing phosphate binders
Ca 2.2-2.6 PO4 <0.6 Encourage dietary intake And reduce dose of cinacalcet 1 step	Ca 2.2-2.6 PO4 <0.6 Encourage dietary intake
Ca 2.2-2.6 PO4 >1.8 Increase dose of non-ca containing phosphate binders 1 step	Ca 2.2-2.6 PO4 >1.8 Increase dose of non-ca containing phosphate binders 1 step
Ca 2.2-2.6 PO4 <1.8 Decrease vitamin D 1 step If PTH not between 150-300 next checked then decrease dose of cinacalcet 1 step	Ca 2.2-2.6 PO4 <1.8 Decrease Vitamin D

PTH 150-300pg/ml

Pts on cinacalcet and std therapy	Pts on std therapy
Ca <2.2 PO4 <=1.8	Ca <2.2 PO4 <=1.8
Increase dose of Vitamin D 1 step If no improvement in 1-2 weeks then add calcium supplementation 1 step	Increase dose of Vitamin D 1 step If no improvement after 1-2 weeks then add calcium supplementation 1 step
Ca <2.2 PO4 >1.8	Ca <2.2 PO4 >1.8
Increase ca containing phosphate binders 1 step	Increase ca containing phosphate binders 1 step
Ca >2.6 PO4 <=1.8	Ca >2.6 PO4 <=1.8
Decrease ca containing phosphate binders 1 step If not on, then decrease vit D 1 step, If not on then increase cinacalcet 1 step	Decrease ca containing phosphate binders 1 step If not on, decrease vit D 1 step
Ca >2.6 PO4 >1.8	Ca >2.6 PO4 >1.8
Decrease Vitamin D 1 step If not on, decrease ca containing phosphate binders and increase non calcium containing phosphate binders 1 step each If not on vit D or calcium phosphate binders then increase dose of cinacalcet 1 step	Decrease Vitamin D 1 step If not on, decrease ca containing phosphate binders and increase non calcium containing phosphate binders 1 step each
Ca 2.2-2.6 PO4 <0.6	Ca 2.2-2.6 PO4 <0.6
Encourage dietary intake	Encourage dietary intake
Ca 2.2-2.6 PO4 >1.8	Ca 2.2-2.6 PO4 >1.8
Increase dose of non-ca containing phosphate binders 1 step If no change after 1-2 weeks increase dose on cinacalcet 1 step	Increase dose of non-ca containing phosphate binders 1 step
Ca 2.2-2.6 PO4 <=1.8	Ca 2.2-2.6 PO4 <=1.8
No change	No change

PTH >300 pg/ml

Pts on cinacalcet and std therapy	Pts on std therapy
Ca <2.2 PO4 <=1.8 Increase Vitamin D 1 step	Ca low PO4 =/low Increase Vitamin D 1 step
Ca <2.2 PO4 >1.8 Increase ca containing phosphate binders 1 step	Ca <2.2 PO4 >1.8 Increase ca containing phosphate binders 1 step
Ca >2.6 PO4 <=1.8 Increase cinacalcet 1 step And decrease calcium phosphate binders 1 step	Ca >2.6 PO4 <=1.8 Decrease calcium containing phosphate binders 1 step If not on ca phosphate binders then decrease vitamin D 1 step
Ca >2.6 PO4 >1.8 Increase cinacalcet 1 step If on maximum dose then decrease vitamin D If on maximum cinacalcet and not on vit D then increase non-ca containing phosphate binders 1 step and decrease ca phosphate binders 1 step	Ca >2.6 PO4 >1.8 Decrease vitamin D 1 step and increase non-ca containing phosphate binders 1 step If not on vit D then increase non-ca containing phosphate binders 1 step and decrease ca phosphate binders 1 step
Ca 2.2-2.6 PO4 <1.8 Increase cinacalcet 1 step If on maximum dose increase vitamin D 1 step	Ca 2.2-2.6 PO4 <1.8 Increase vitamin D 1 step
Ca 2.2-2.6 PO4 >1.8 Increase cinacalcet 1 step If on maximum dose then increase non-ca containing phosphate binders 1 step	Ca 2.2-2.6 PO4 >1.8 Increase non-ca containing phosphate binders 1 step
Ca 2.2-2.6 PO4 <1.8 Increase cinacalcet 1 step If on maximum dose increase vitamin D 1 step	Ca 2.2-2.6 PO4 <1.8 Increase vitamin D 1 step

Cinacalcet:

1. 30mg
2. 60mg
3. 90mg
4. 120mg
5. 150mg
6. 180mg max dose

Calcium supplementation / phosphate binders:

Use calcium containing compound

Calcichew = 500mg calcium

Calcium acetate(phosex) = 250mg

Calcium 500 = 500mg

Total daily dose increments:

1. 500mg
2. 1000mg
3. 1500mg
4. 2000mg
5. 2500mg
6. 3000mg
7. 4000mg

Patients may need to miss a dose increment depending on which tablet they are taking. This is because not all patients are tolerant of all types mentioned.

Non-calcium containing phosphate binders

Sevelamer 800mg

Total daily dose increments:

1. 1600mg
2. 2400mg
3. 4000mg
4. 4800mg
5. 6400mg
6. 7200mg

Patients may jump an increment if felt clinically necessary. No maximum dose, if higher doses required please discuss with one of clinicians involved in the trial.

Vitamin D

Available compounds:

One-alpha available in 0.25mcg, 0.5mcg and 1 mcg tablets
Calcitriol 0.25mcg, 0.5 mcg

0.25 micrograms (mcg) = 250 nanograms (ng)

Tablets can be given daily, twice a week or three times a week

Total WEEKLY dose increments:

1. 0.5mcg
2. 1.0 mcg
3. 1.5 mcg
4. 2.0 mcg
5. 2.5mcg
6. 3.0 mcg
7. 3.5mcg
8. 4.0 mcg
9. 5.0mcg
10. 6.0mcg
11. 7.0mcg

Maximum dose is 35mcg per week. If further increases are necessary then consult clinician involved in trial.

Patients may jump an increment if felt necessary by clinician