

## **Signs and Symptoms of Chronic Kidney Disease:**

- urea nitrogen and creatinine increased.
- Nocturia (due to the inability to concentrate urine overnight)
- laxity, fatigue, and decreased mental acuity.
- sudden muscle contractions, peripheral neuropathies and motor or sensory phenomena.
- Muscle spasms and convulsions associated with hypertensive encephalopathy.
- Anorexia, nausea, vomiting, stomatitis, unpleasant taste in the mouth.
- Itching.
- Hypertension.
- The skin may uremic frost.

### **Laboratory:**

- o CO<sub>2</sub> serum between 15 and 20 meq.
- o hypocalcemia.
- o Hyperphosphatemia.
- o Hiperglyceridemia.
- o normal or moderately elevated potassium > 6.5 mEq / lit.