

Primary hyperparathyroidism causes elevated blood calcium levels (hypercalcemia) through excessive secretion of parathyroid hormones, usually by small benign tumors on the parathyroid glands.

#### Signs and Symptoms:

Usually these are seen in the form of hypercalcemia

1. Kidney stones
2. Problems with bones, sometimes in the form of osteoporosis.
3. Abdominal pains including constipation, indigestion, nausea
4. Lethargy, fatigue, depression, memory loss, muscle weakness, itching.

#### Diagnosis:

1. Lab test: calcium, intact parathyroid hormone levels, urine studies
2. Parathyroid Scan (ultrasound and nuclear pictures)

#### Treatment:

1. Surgery to remove the affected gland

#### Follow up:

1. Medications, labs and office visits with your physicians to restore your calcium levels to normal