

Rugby jersey spine

- Term and pattern are distinctive for hyperparathyroidism.
- Sclerotic bands on the superior and inferior endplates of the vertebral bodies represent accumulations of excess osteoid and appear opaque because of their increased volume when compared to normal bone.

Renal osteodystrophy

- Secondary HPT
- Phosphate retention by kidneys → ↓ serum calcium → ↑ parathyroid hormone (PTH)
- ↑ PTH → ↑ bone resorption
- Osteomalacia
- Failure to convert vitamin D to active form
- Soft tissue calcifications

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Lateral radiograph shows severe findings of renal osteodystrophy. There is marked sclerosis of the vertebral bodies adjacent to the endplate creating a striped appearance like a rugby jersey. The margins of the sclerosis are poorly defined, in distinction to the sharply demarcated sclerotic regions seen in osteopetrosis.

