

Clinical Image

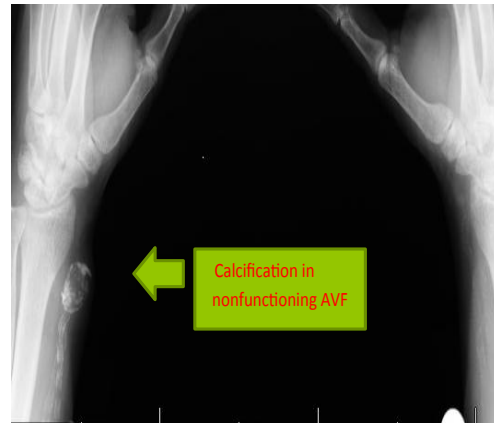
Title: Vascular Calcification in Dialysis-Treated End-Stage Renal Disease

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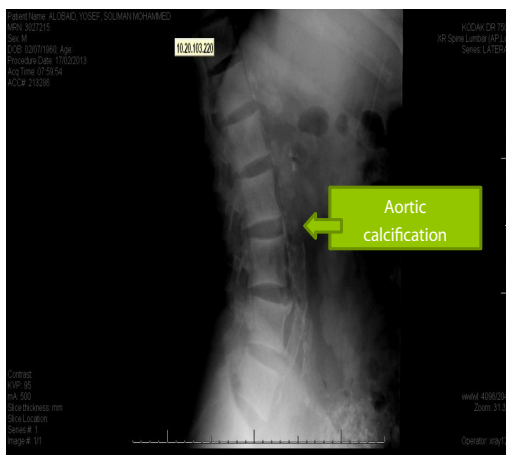
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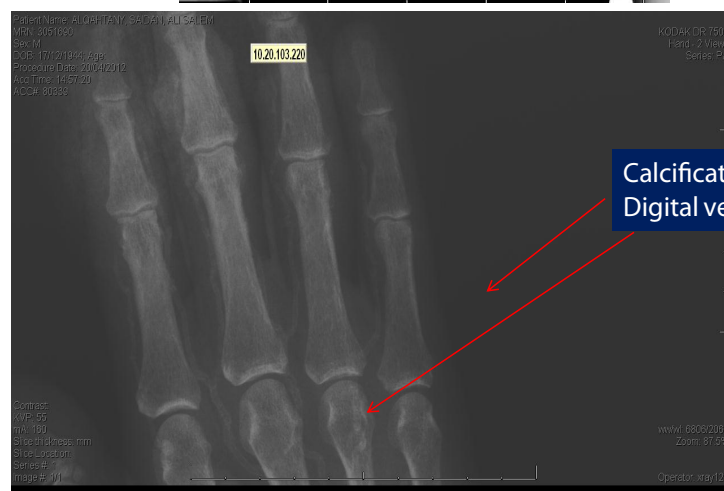
Nonfunctioning AVF with
firm cystic swelling



Calcification in
nonfunctioning AVF



Aortic
calcification



Calcification of
Digital vessels

A 47 year-old male patient, with a history of hypertension and end-stage renal disease since 2001 on regular hemodialysis and more recently on hemodiafiltration (HDF), developed secondary hyperparathyroidism. Despite adequate medical conservative management with phosphate binders, calcimimetics, diet, and three weekly sessions of HDF with Kt/V >1.3, he developed tertiary hyperparathyroidism with an average serum calcium of 11 mg/dl, phosphate 6 mg/dl, and serum PTH of > 2000 pg/ml. This required right sided parathyroidectomy. However, the patient has had extensive vascular calcification including non-functioning left radio-cephalic arterio-venous fistula (AVF), aortic calcification, and digital vessels calcification.

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