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recurrent subcutaneous and vascular calcification in CAPD patient

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Case Study: Recurrent subcutaneous and vascular calcification in peritoneal dialysis patient

Running title: recurrent subcutaneous and vascular calcification in CAPD patient

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Abstract

Subcutaneous and vascular calcifications are a complication of chronic kidney disease characterized by calcification of the small arteries and tissue. A case of a 30-year-old female with end-stage renal disease due to diabetic nephropathy and prescribed peritoneal dialysis treatment regimen for 4 years. At her monthly clinic visit, she complained of burning sensation in the fingers of her right hands with limited fine motor movement due to edema and severe pain. A presumptive diagnosis of subcutaneous and vascular calcification led to hospital admission with confirmation by X-ray of her hands. She was continued on peritoneal dialysis with a low calcium diet, aggressive reduction in phosphorus, diet counseling, use of cinacalcet, and three months of intravenous sodium thiosulfate infusion three times per week. After 4 months, she complained of a palpable mass in her right fifth toe with pain. Foot X-ray shows a subcutaneous calcification. Also, sodium thiosulfate was infused two times per week for three months. The patient's condition improved with resolution of symptoms and radiologic findings.

Keywords : Recurrent subcutaneous calcification, vascular calcification, Sodium thiosulfate, Peritoneal dialysis