## Novel SLC34A1 mutation in a girl infant with infantile hypercalcemia

Seok Jin Kang, Heung Sik Kim Department of Pediatrics ,Keimyung University, School of Medicine, Daegu

## Case

Age/Sex: 28-day-old/a girl infant

Chief complaint: hypercalcemia, nephrocalcinosis

Previous illness Hx: increased renal echogenesity detected at 28 weeks' gestation

Symptom: constipation without poor feeding, hypotonia, and lethargy

Family history: the father of the neonate with a history of nephrolithiasis

Laboratory findings

Calcium/Phosphorus 12.8 mg/dL (8.8-10.8 mg/dL) / 4.3 mg/dL (4.8-8.2 mg/dL)

25-OH-vitamin D/1-25-OH Vitamin D: 13.01 ng/mL / 71.27 pg/mL

Intact Parathyroid hormone: 3.6 pg/mL (15-65 pg/mL)

24-hour urinary calcium excretion: 20.4 mg/kg (normal range < 4 mg/kg)

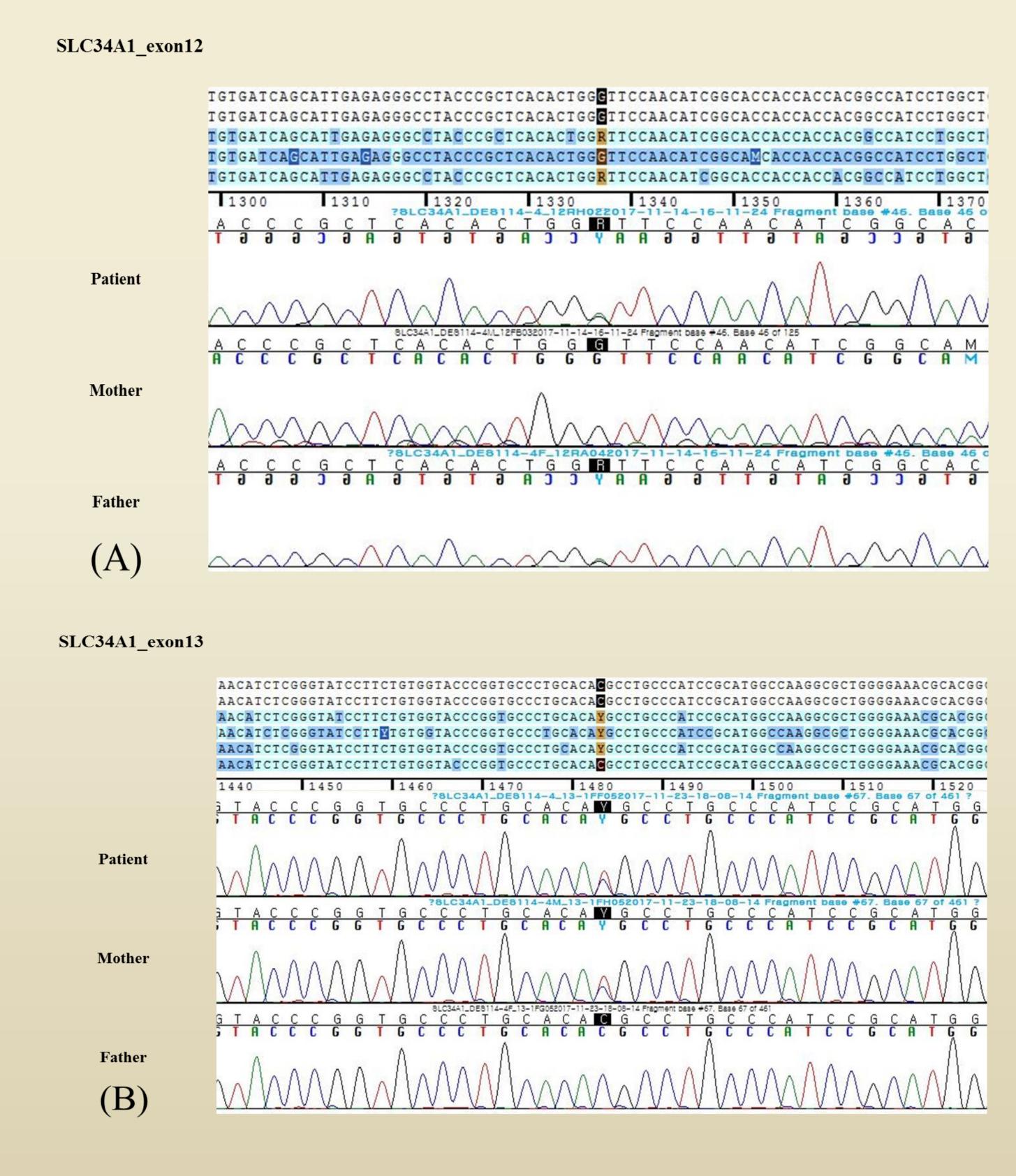
Targeted exome sequencing: SLC34A1 missense mutation

(A) c.1337G>A (B) c.1483C>T)

Treatment: hydration, formula feeding (a low calcium, vitamin D free)

## Medullary nephrocalcinosis of the left kidney





## Conclusions

✓ Clinicians need to consider testing of SLC34A1 in patients with hypercalcemia and 137 hypercalciuria, and nephrocalcinosis. Further studies regarding the clinical course, long-term prognosis, and efficacy of a supplement with phosphate in similar patients will be required.







