

# Acute encephalopathy following the use of aluminum hydroxide in a boy affected with chronic kidney disease

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## ABSTRACT

Aluminum-based phosphate binders may be used for short time (4 weeks), just one course in end-stage renal disease to decrease serum phosphor because of aluminum's various side effects. In this case report, we report an 18-month-old boy affected with chronic renal failure (CRF) due to congenital nephrotic syndrome showing severe acute encephalopathy following the use of aluminum hydroxide as phosphate binder for 5 days. Although acute encephalopathy is a rare event following aluminum prescription, however, in small children, it can happen shortly after using aluminium hydroxide. The main symptoms are incognesia, acute head tics that rapidly progress to head tremor and arrest of speech. Aluminum discontinuation and dialysis reverse complaints slowly over 4 weeks.

**Key words:** Aluminum hydroxide, children, encephalopathy, renal failure