## The efficacy and safety of octreotide treatment for diazoxideunresponsive congenital hyperinsulinism in China

Bingyan Cao, Chunxiu Gong\*, Di Wu, Xuejun Liang, Chang Su, Min Liu, Wenjing Li, Jiajia Chen, Xiaoqiao

Department of Endocrinology, Genetic and Metabolism, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, China

OBJECTIVES	METHODS
Octreotide is an off - label medicine for CHI	Diazoxide-unresponsive CHI children treated with subcutaneous octreotide injection at an
but widely used nowadays. However, the	adjusted dosage of up to $50\mu g/kg/day$ were involved in the study. Octreotide is ineffective

efficacy and adverse effects have been

reported varied in centers. To evaluate the

efficacy and safety of the subcutaneous

octreotide injection for

diazoxide-unresponsive CHI in China.

when blood glucose (BG) <2.8mmol/L or is completely effective if BG > 3.3mmoll/L over 48

hours by every 2 hours check after wean-off iv dextrose. BG between the above means partial effectiveness.

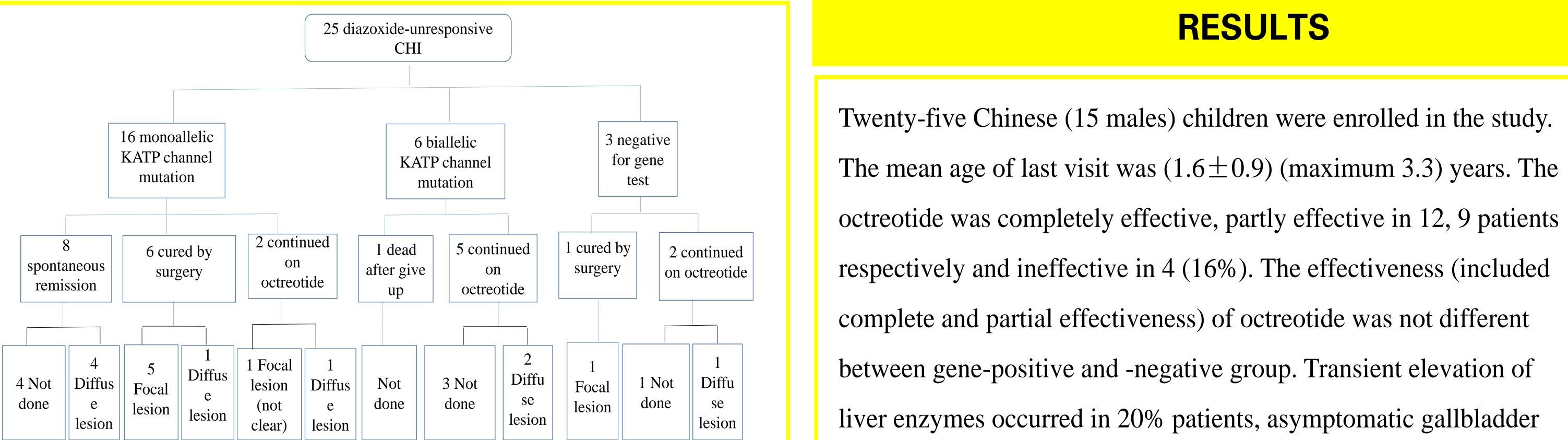


Figure 1 The gene mutation analysis, histopathology, and prognosis of 25 diazoxide-unresponsive CHI treated with subcutaneous octreotide injection "Not done" means 18F-DOPA PET scans were not performed in these patients

pathology occurred in 1 patient. The growth charts of this cohort patients were in normal range (mean height SDS was  $0.3 \pm 1.5$  at the last follow-up).

## **CONCLUSIONS**



The octreotide was well tolerated, effective therapy for diazoxide

unresponsive CHI cases. It could be a choice for diazoxide-unresponsive

patients.

1. Gong CX, Huang S, Su C, Qi Z, Liu F, Wu D, et al. Congenital hyperinsulinism in Chinese patients: 5-yr treatment outcome of 95 clinical cases with genetic analysis of 55 cases. Pediatric Diabetes 2016; 17: 227–234.

2. Snider KE, Becker S, Boyajian L, Shyng SL, MacMullen C, Hughes N, et al. Genotype and phenotype correlations in 417 children with congenital hyperinsulinism. J Clin Endocrinol Metab 2013; 98: E355-E363.



