

accidental fractures.

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Bone Mineral Status in Childhood Accidental Fractures

Gary M. Chan, MD; Michael Hess, MD; Jean Hollis; [et al](#)*Am J Dis Child.* 1984;138(6):569-570. doi:10.1001/archpedi.1984.02140440053013

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Abstract

• We studied the bone mineral and calcium (Ca) status of 17 children who suffered an accidental fracture in 1980. These children were matched by age and sex to a nonfractured control group. Blood was drawn for serum Ca, phosphorus, magnesium, 25-hydroxychole-calciferol (calcidiol), alkaline phosphatase, and albumin. Bone mineral content (BMC) was evaluated by photon absorptiometry. There were no differences in serum values between the two groups. Twelve (71%) of the 17 children in the fracture group had a lower BMC than their matched controls. The BMC of the fracture group was lower than their controls, 0.423 ± 0.042 V 0.461 ± 0.037 g/cm. Four of the 15 in the fracture group ingested less than 60% of the recommended dietary allowance (RDA) for Ca and P (800 mg/day), while all the controls were ingesting at least 60% of the RDA. Four

children of the fracture group who were ingesting less Ca and P than those of the control group also had low BMC.

(AJDC 1984;138:569-570)

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