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Mechanisms of altered bone remodeling in children with type 1 diabetes

Brunetti G *et al.* Altered bone remodeling in children with type-1-diabetes

Giacomina Brunetti, Gabriele D'Amato, Stefania De Santis, Maria Grano, Maria Felicia Faienza

Abstract

Bone loss associated with type 1 diabetes mellitus (T1DM) begins at the onset of the disease, already in childhood, determining a lower bone mass peak and hence a greater risk of osteoporosis and fractures later in life. The mechanisms underlying diabetic bone

remodeling are not yet completely understood. Hypoadrenergic and insulin deficiency are

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The pathophysiological mechanisms underlying bone fragility in diabetes mellitus are complex, and include **hyperglycaemia**, oxidative stress and the accumulation of advanced glycation endproducts that compromise collagen properties, increase marrow adiposity, release inflammatory factors and adipokines from visceral fat, and potentially alter the function of osteocytes.

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Decreased **bone** turnover **in children** and adolescents with well controlled **type 1 diabetes**. Maggio AB(1), Ferrari S, Kraenzlin M, Marchand LM, Schwitzgebel V, Beghetti M, Rizzoli R, Farpour-Lambert NJ. Author information: (1)Pediatric Cardiology Unit, Department of Child and Adolescent, University Hospitals of Geneva and University of Geneva ...

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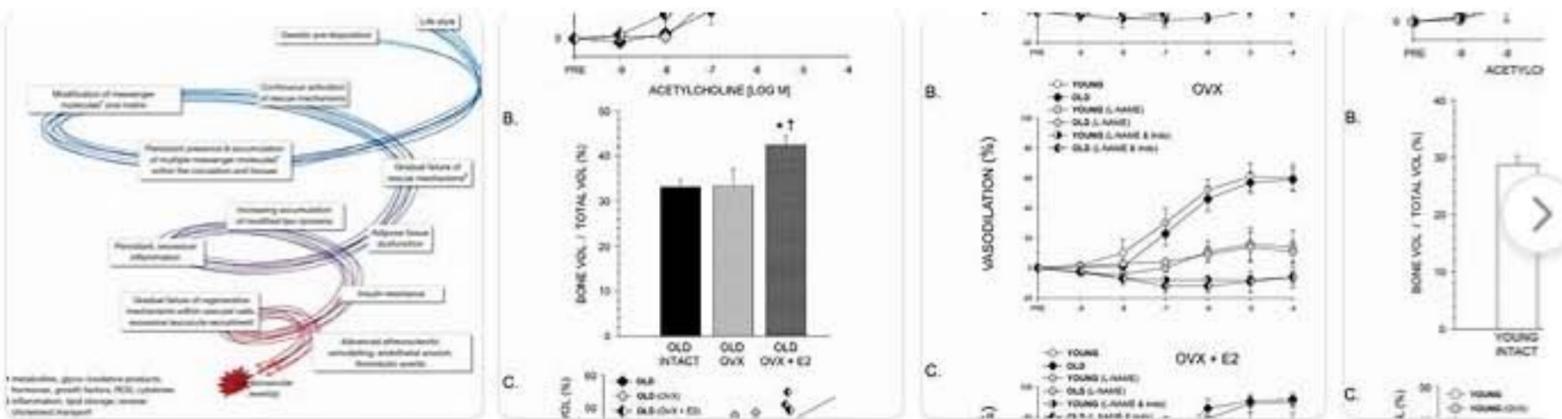
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AIM: Osteoporosis is a common long-term complication of **type 1 diabetes** (T1DM). We aimed to determine whether **bone mineral density** (BMD) and turnover are already **altered** during childhood. PATIENTS AND METHODS: We recruited 27 T1DM **children** and 32 controls (age 10.5 +/- 2.5 yr.) and measured BMD (dual-energy x-ray absorptiometry); **bone** ...

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