

Decreased muscle mass, osteoporosis and coronary artery calcification

Eun-Jung Rhee

Endocrinology and Metabolism, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea

Our body is composed of multiple organs. Recent studies suggest that these organs are all connected and cross-talks between these organs exist. Abdominal obesity is known to be associated with osteoporosis with mechanism of selective differentiation between osteogenic and adipogenic stem cells depending on the status of mesenchymal stem cells. Recent works suggest the association of decreased muscle mass with abdominal obesity and also with bone fractures. In addition, metabolic bone disease is suggested to be related with vascular calcification through many factors that manages circulating calcium levels and bone health. Muscle mass, bone and vascular health is all related in some part. In this talk, I will tell you about the current knowledges on the relationships among these organs.