Active Life Scientific, Inc.
Translational Research Tools for the Life Sciences

News Release

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Active Life's Reference Point Indentation Could Explain Bisphosphonates Link to Atypical Fractures

Santa Barbara, CA, October 13, 2012 - Active Life Scientific, Inc. announced today their Reference Point Indentation technology enabled the discovery of severe deterioration of bone material properties in patients with atypical femur fractures. Results from a 70 patient clinical study were reported by physicians at the 2012 Annual Meeting of the American Society for Bone and Mineral Research (ASBMR) in Minneapolis, Minnesota.

Reference Point Indentation (RPI) is a new technology used to investigate the contribution of a tissue's material properties to its overall strength. Researchers are currently using RPI to better identify patients who experience fragility fractures. Among researchers it is generally understood that bone strength, the ability of a bone to resist breaking, depends on three things:

- How much bone material there is (bone mass/bone mineral density),
- How well the bone material is put together (bone structure), and
- How good that bone material is (bone material properties)

Until recently, available methods to measure bone material properties required invasive bone sampling, making routine use in clinics unfeasible. As a result, little was known about the clinical importance of bone material properties for bone strength. Active Life's RPI technology enabled researchers to investigate the contribution of material properties to bone strength without taking a biopsy. As this study reports, material properties appear to be extremely important.

"If you don't know something is important then you can't do anything about it. This is a fundamental and new discovery in an old and well-studied field," stated RPI inventor and Active Life's Chief Scientist, Dr. Paul Hansma. "Now that RPI can measure material properties in patients, it will be possible to develop new drugs and other therapies. This could lead to combined therapies with unprecedented fracture risk reduction for hundreds of millions affected by weakening bones worldwide."

About Active Life

Active Life Scientific, Inc. develops life science and medical instruments for taking previously impossible in vivo measures of biological material properties - an integral, previously inaccessible indication of biological tissue health in vivo. Active Life's products are based on renowned inventor Dr. Paul Hansma's latest breakthrough, Reference Point Indentation, which for the first time enables in vivo quantitative measures of bone and other tissue material properties. Active Life initially supports applications for researching bone fracture risk and effects of related treatments, and is developing an array of products and applications for less costly and improved prevention, diagnosis and treatment of musculoskeletal injuries, diseases and disorders.

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