

Patented Omnipath Technology for Accurate Bone Strength Assessment

The Omnipath® Advantage

Sunlight's unique, patented axial transmission technology, Omnipath®, provides comprehensive and accurate bone strength assessment. It forms the basis for EQUUS, Sunlight's bone assessment product for racehorses, as well as for bone measurement with Sunlight's bone assessment products for adults, children, and premature infants.

A Breakthrough Technology

The innovative Omnipath® technology is based on the measurement of the speed of ultrasonic waves propagating along the bone. It enables measurement along the bone's maximal strength axis, eliminating the effects of soft tissue and hair and providing an accurate diagnosis. Axially transmitted speed of sound (SOS) indicates overall bone strength by reflecting properties such as mineral density, elasticity, cortical thickness and microstructure.



Speed of Sound

Omnisense generates inaudible high-frequency pulsed acoustic waves. Ultrasonic waves are successively transmitted and received by transducers embedded in the hand-held ultrasound probe. By measuring the propagation time along the different trajectories (Time of Flight), the SOS of the bone is determined.

Bone Strength Assessment You Can Rely On

Measurement with Omnipath® is clinically proven to be accurate and precise. With major decisions regarding training and nutrition based on EQUUS measurement with Omnipath®, it's essential to know that you can rely on these results to give you an accurate evaluation of injury risk for the individual racehorse.

US PATENT # 6221019 (International patents pending)