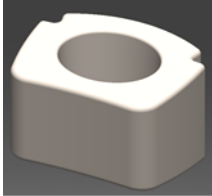


ASX Media Release



Positive Test Results

Sr-HT-Gahnite Spinal Cage Device

SYDNEY 03 December 2020– Allegra Orthopaedics Limited (Allegra) (ASX: AMT) provides the following the update on its flagship innovation project, the Sr-HT-Gahnite Spinal Cage Device (Spinal Cage):

Following successful bench testing of the Spinal Cage Device at the Kolling institute, Allegra engaged an accredited testing facility in the USA to confirm the effectiveness of the revised Spinal Cage design. The results have shown a significant improvement in strength when compared to the previous design.

More specifically, the compressive strength of the Spinal Cage was 60kN. This is significantly above human physiological load (1.2kN) and sheep physiological load (3-4kN). It is also double the compressive strength when compared with the previous cage design and above the 95th percentile for published data on FDA approved cages. These results are complemented by improved torsional and shear compressive strengths, as well as mechanical integrity of the cage demonstrated in sheep cadaveric testing.

IMPORTANTLY, the same facility conducted dynamic compressive testing to determine the fatigue life of the Spinal Cage. We are very pleased to report it passed the regulatory-required 5 million dynamic cycles without any signs of fracture or failure.

Due to these positive results, Allegra is progressing with the new Spinal Cage design and plans to commence a pilot animal study in January 2021 within Australia. This will be a confirmatory study to be followed by a large animal study, as per FDA requirements.

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ABOUT ALLEGRA ORTHOPAEDICS:

We aim to help bring the freedom and happiness of pain-free movement to people's lives. We achieve this through providing the best possible solutions for patients, from world-wide industry leading orthopaedic products through to Australian innovations. Allegra's principal product, the Active Total Knee, has significantly improved the quality of life for many people and remains a focused product line. Allegra is also the exclusive distributors of Waldemar Link GmbH & Co. KG products in Australia. Link consists of a range of complex lower limb, hip and knee replacements, including oncology solutions. The Link products add to Allegra's well-developed range of products for distribution from international suppliers covering all specialties from foot and ankle to upper limb. The company is pleased to continue to build upon its extensive portfolio of patents. It has strong research relationships with universities, companies and surgeon inventors, including its global licensee to the composite biocompatible ceramic material known as Sr-HT-Gahnite from the University of Sydney.
