



# The Effect of Variable-Pitch Headless Compression Screws and Cortical Screws on Interfragmentary Compression: An *In-Vitro*, Polyurethane Foam Block Model

\*\*\*\*\*DATA CREATORS\*\*\*\*\*

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\*\*\*\*\*DATA FILES\*\*\*\*\*

FILE NAMES: "Dataset for Animals Journal"  
ACRONYMS/CODES: N/A  
FOLDER STRUCTURE: N/A  
RELATED FILES: N/A

\*\*\*\*\*DATA SOURCES\*\*\*\*\*

WHERE: Surgical and Orthopaedic Research Laboratories (SORL), UNSW Sydney, School of Clinical Medicine, Sydney, Australia  
WHEN: 26/08/2024  
HOW: Please refer to the methodology in the study  
RESOURCES: N/A

\*\*\*\*\*DATA DEFINITIONS\*\*\*\*\*

VARIABLES: Cortical bone screw were inserted in lag fashion. Headless compression screws were inserted to 4 depths. There were 10 samples for each group. Force and area of compression was measured.  
CODES: N/A  
UNITS: Force= N, Area= cm<sup>2</sup>

\*\*\*\*\*TECHNICAL REQUIREMENTS\*\*\*\*\*

HARDWARE: Calibrated pressure-mapping sensor film (Model 4000, Tekscan Inc, Boston, Massachusetts, United States)  
SOFTWARE: I-Scan® 9 Software and Excel  
FILE FORMATS: xlsx