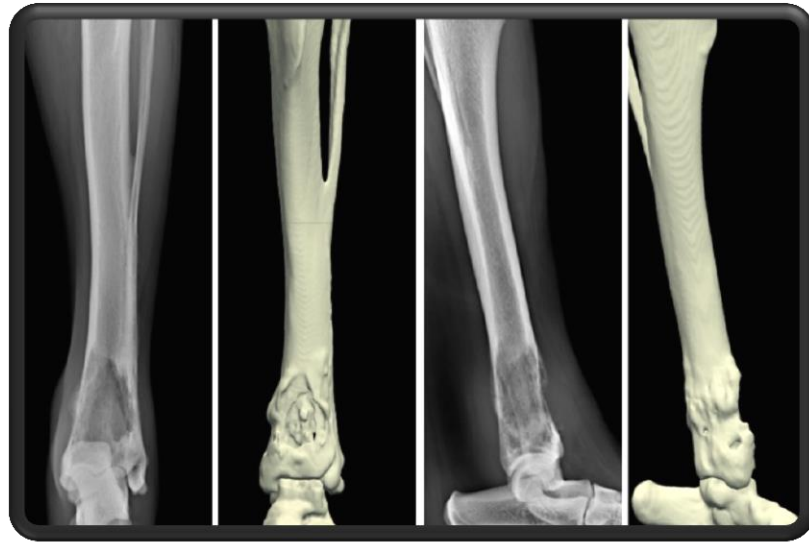


Applications of Metal Additive Manufacturing in Veterinary Orthopedic Surgery



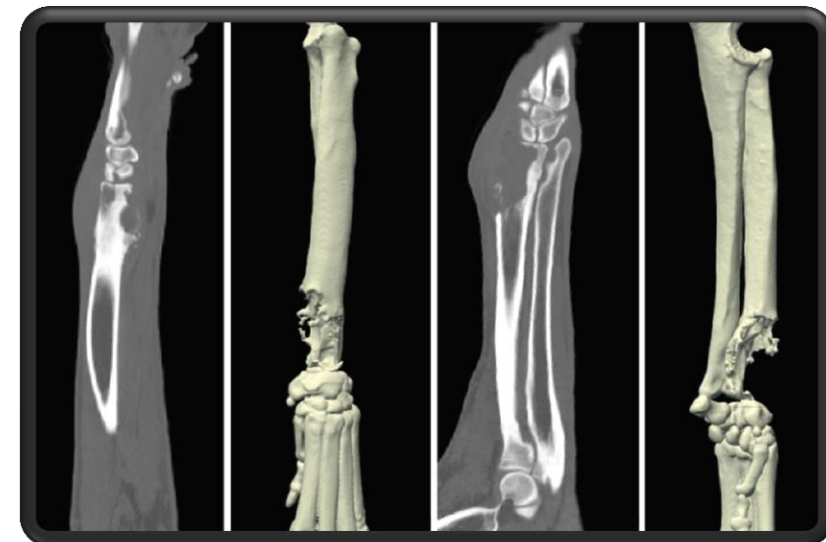
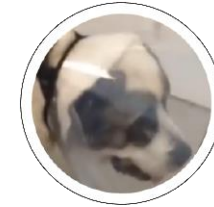
Computed Tomography (CT) - 3D visualization



Moscow Watchdog - Sarcoma

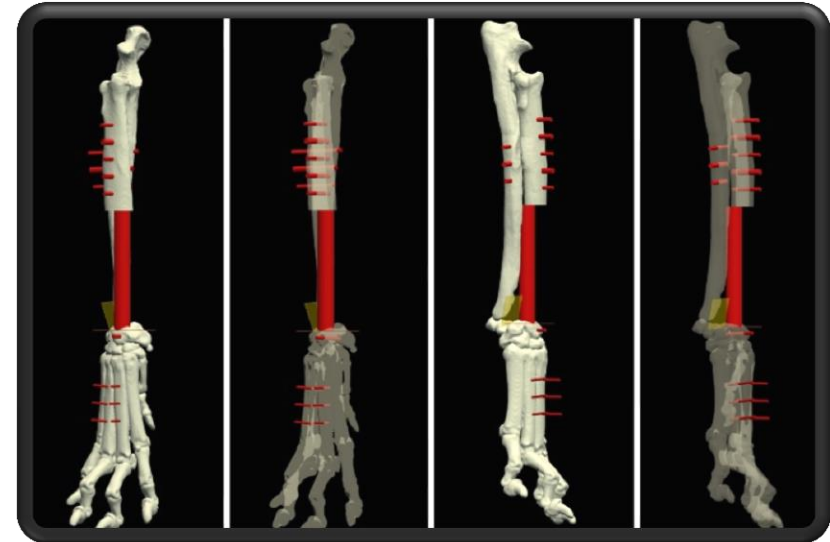
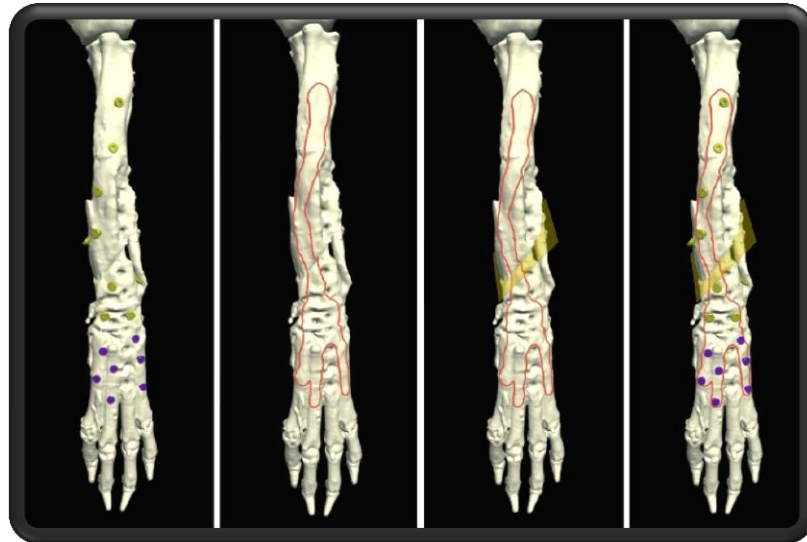
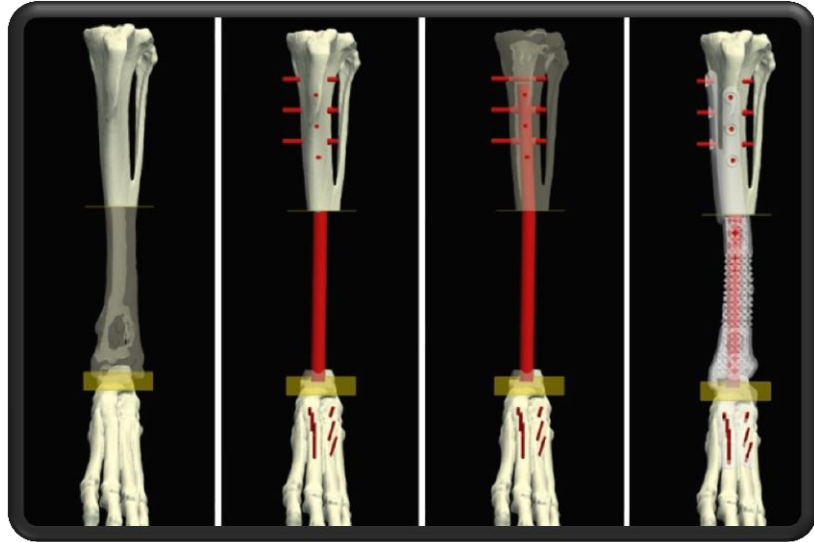


Mongrel - Bone fracture

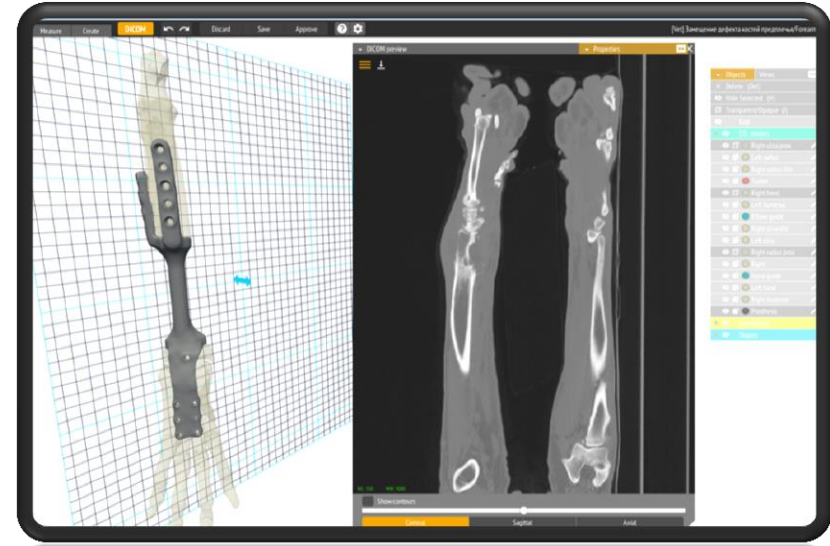
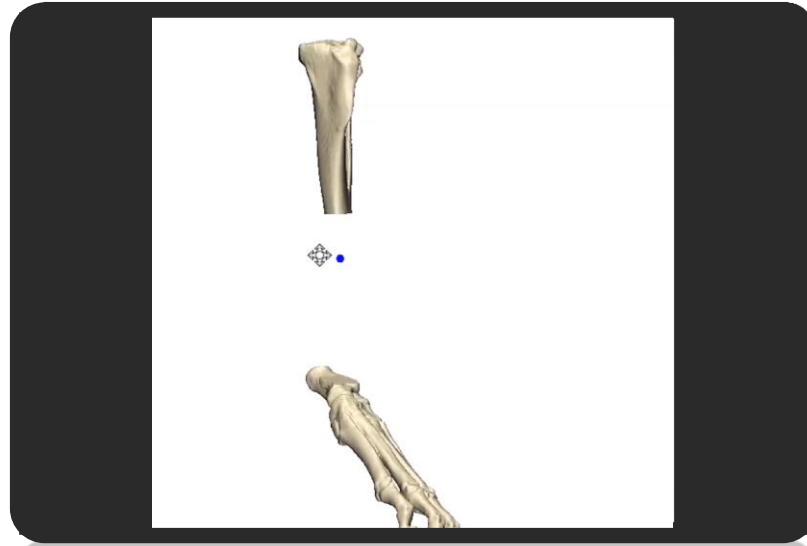


Moscow Watchdog - Sarcoma

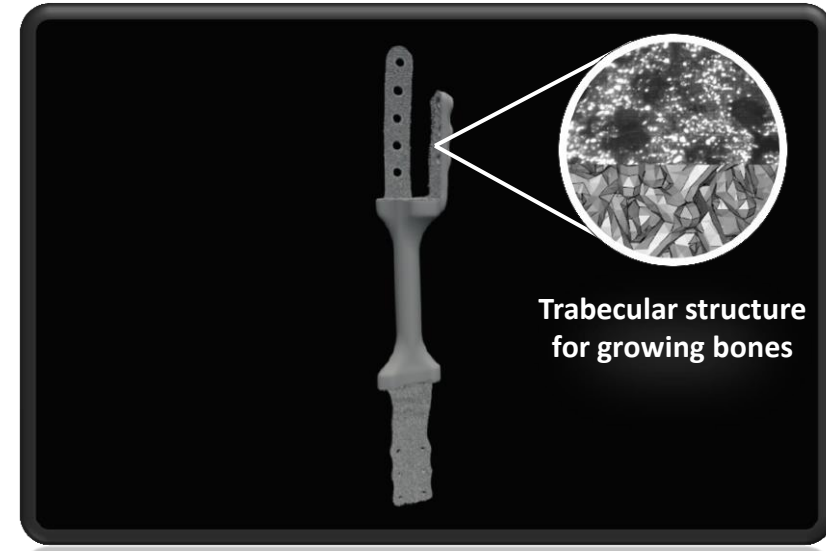
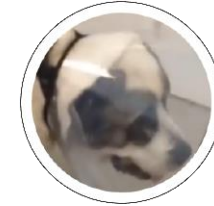
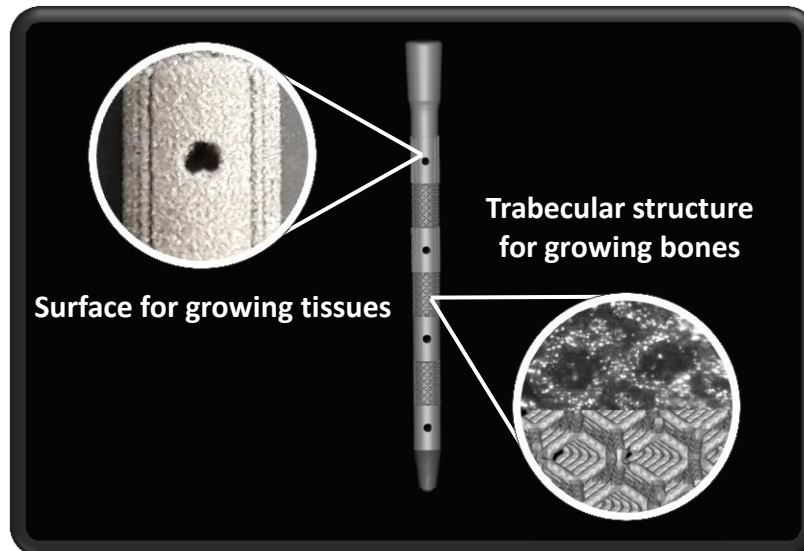
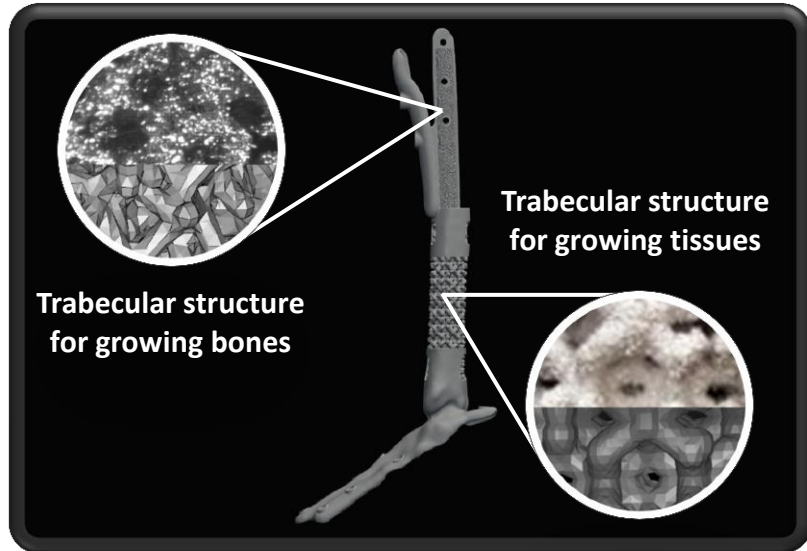
Surgery planning



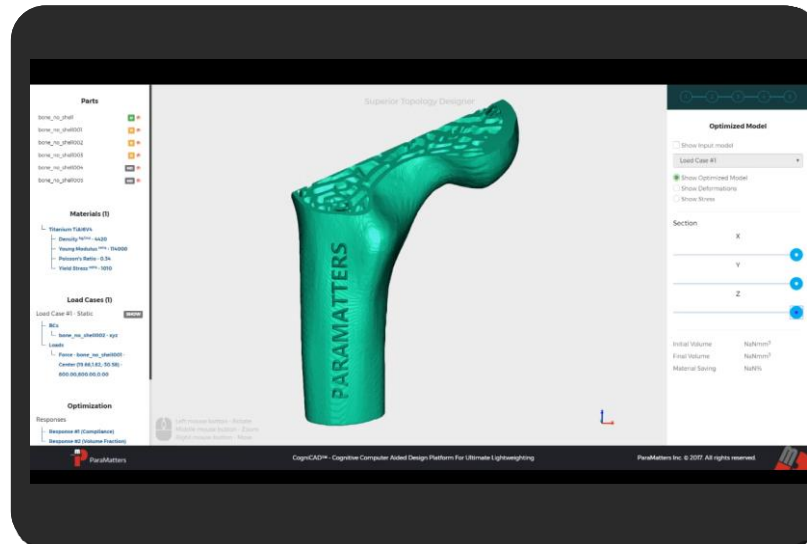
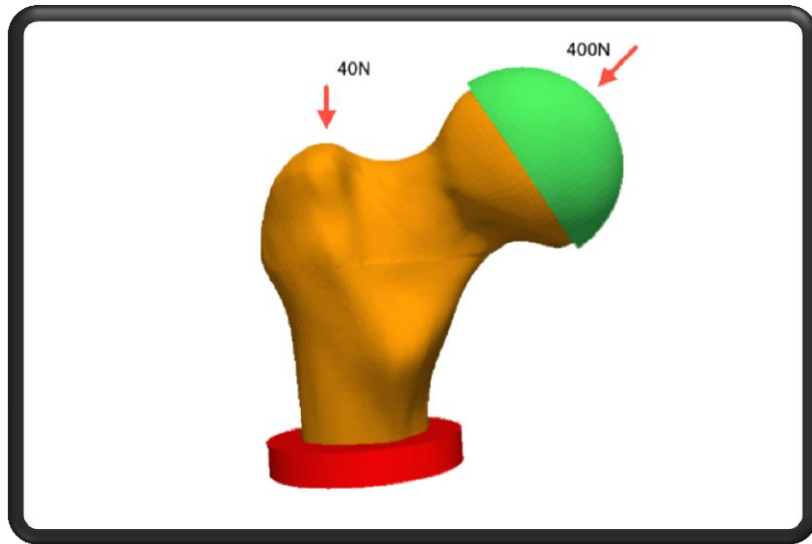
Implant modeling



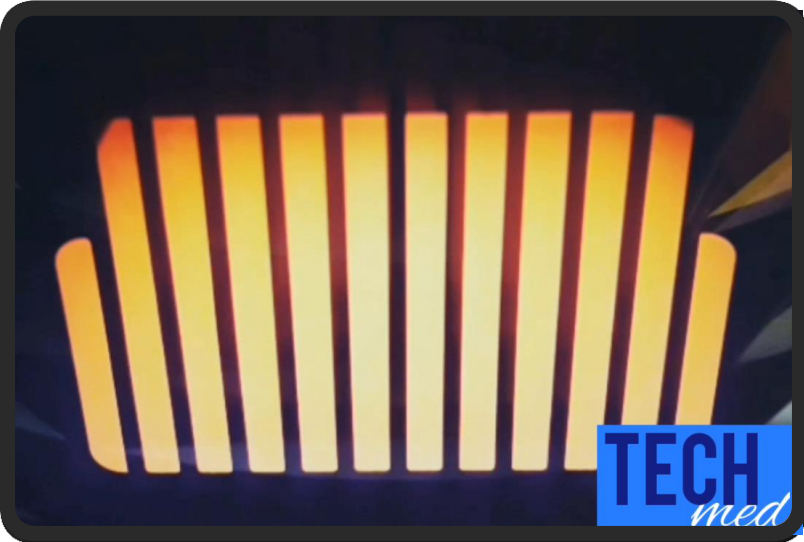
Trabecular structure and surfaces types



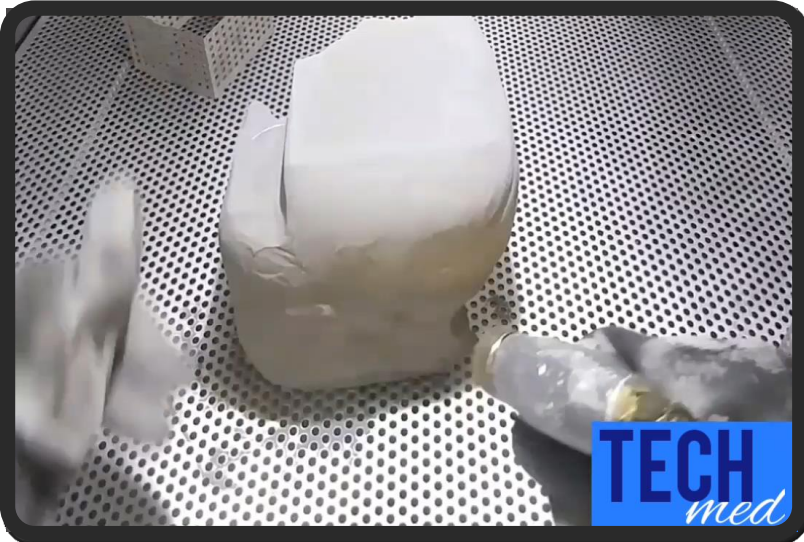
Topology Optimization and Unique Meso-Structural Designer



Titanium 3D Printing (Ti6Al4V)



EBM Process



Powder Handling



Applications of Metal Additive Manufacturing in Veterinary Orthopedic Surgery



Post-processing of titanium implant



Removal of support structure

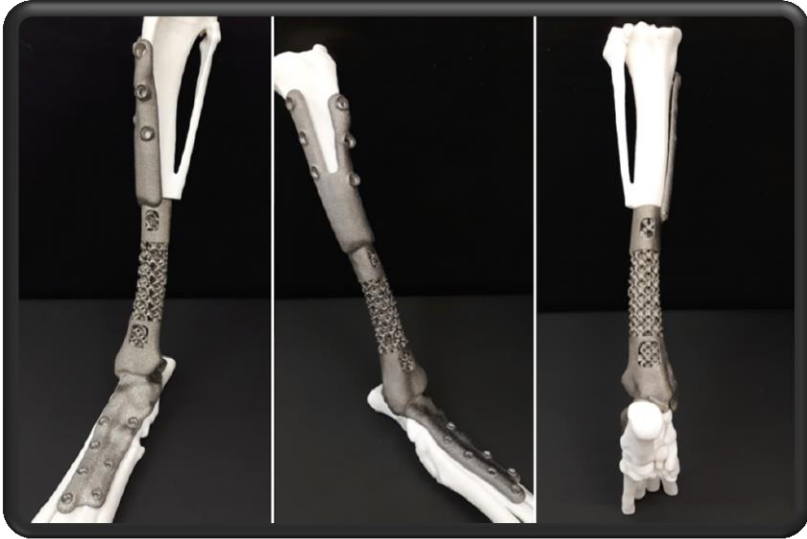


Machining

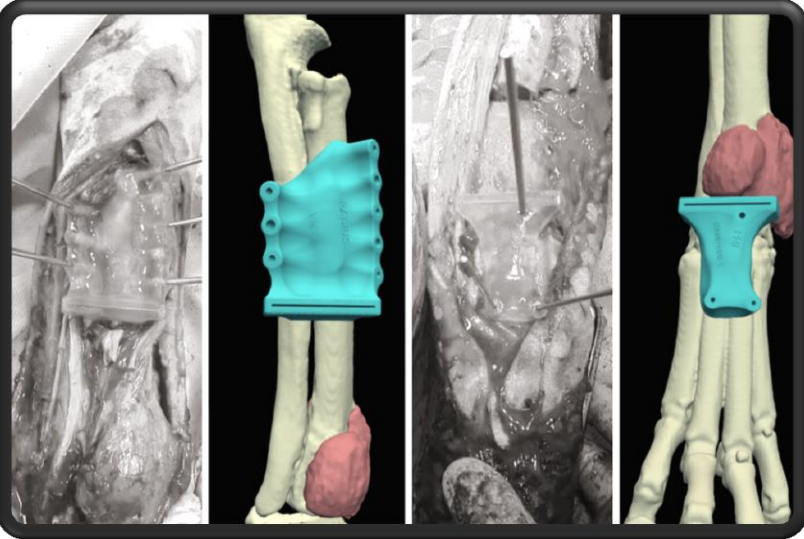
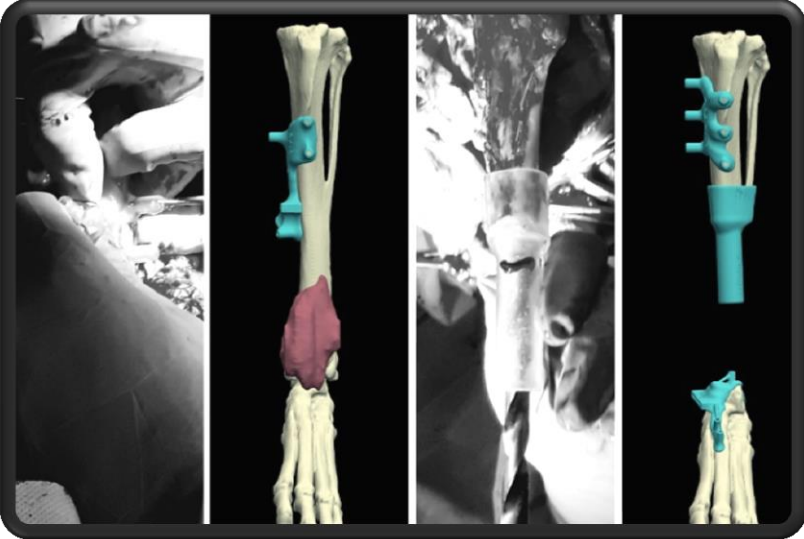


Polishing

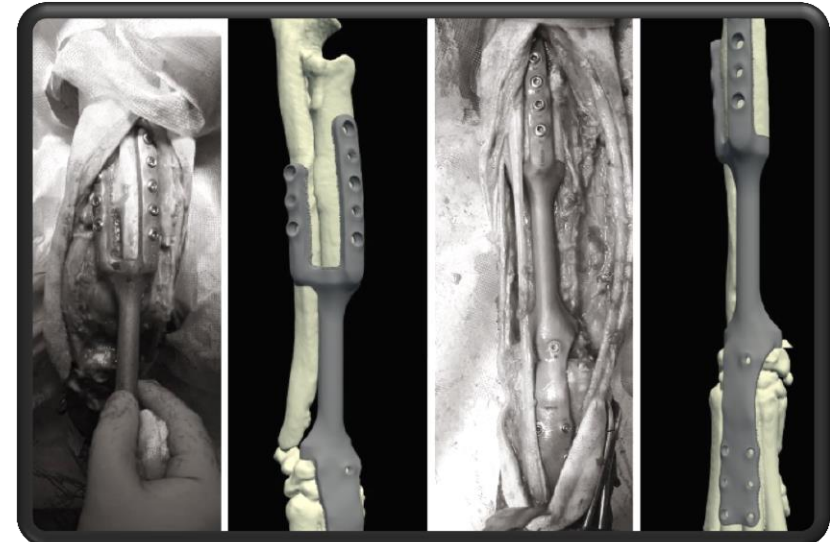
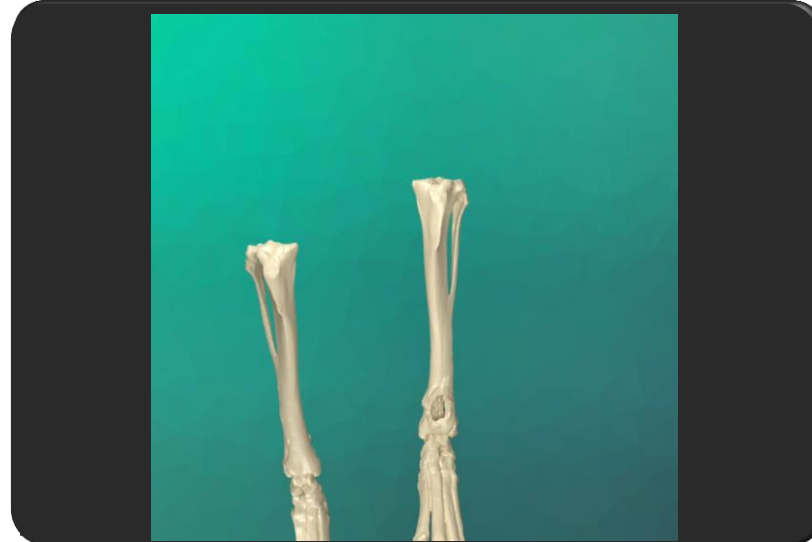
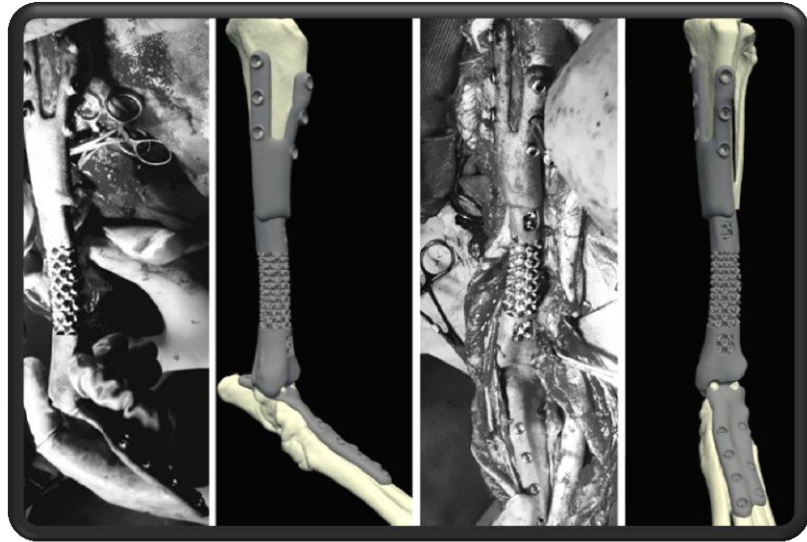
Surgery simulation



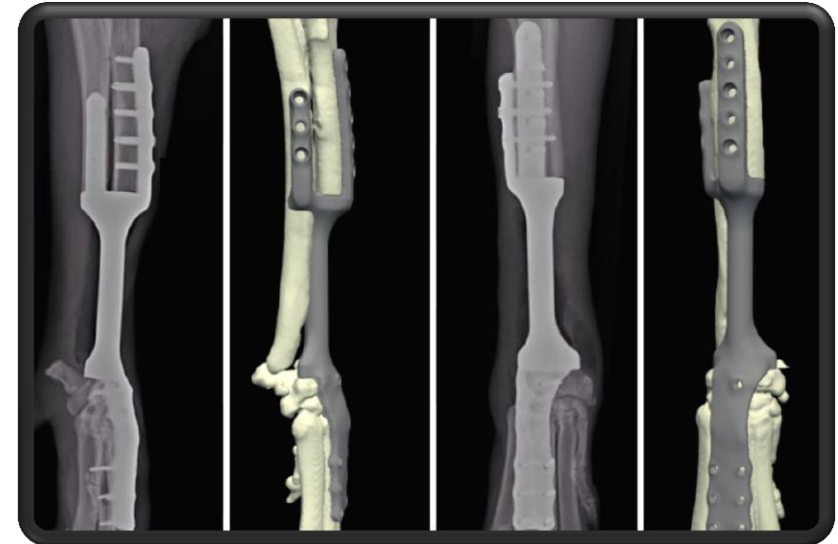
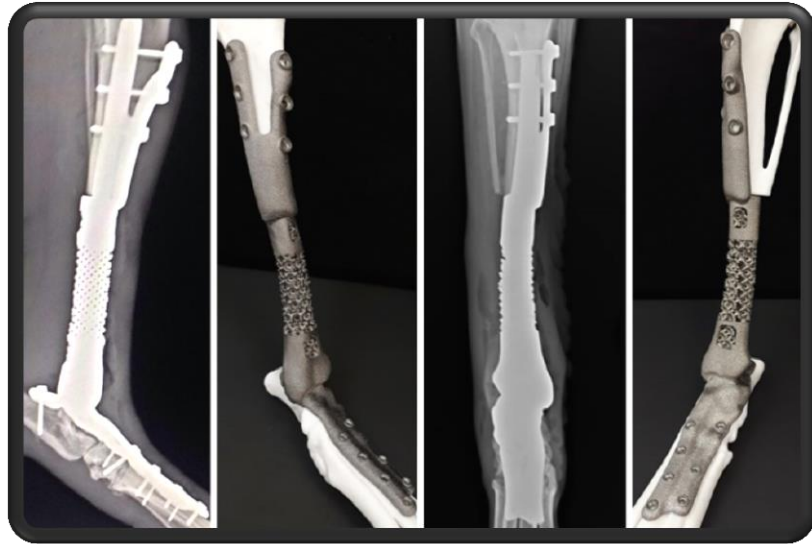
Cutting and drilling guides



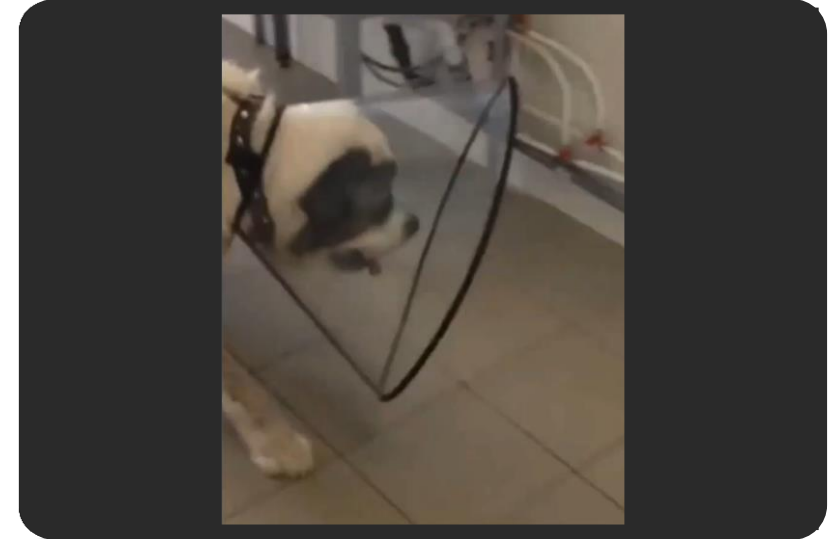
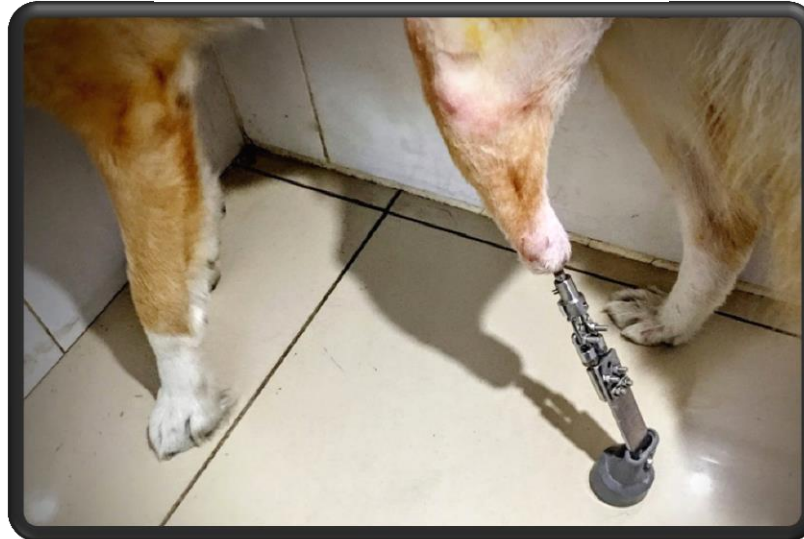
Surgery



Surgery (X-Ray)



Results



Team

