

The 2022 Netherlands Healthcare Innovation Summit

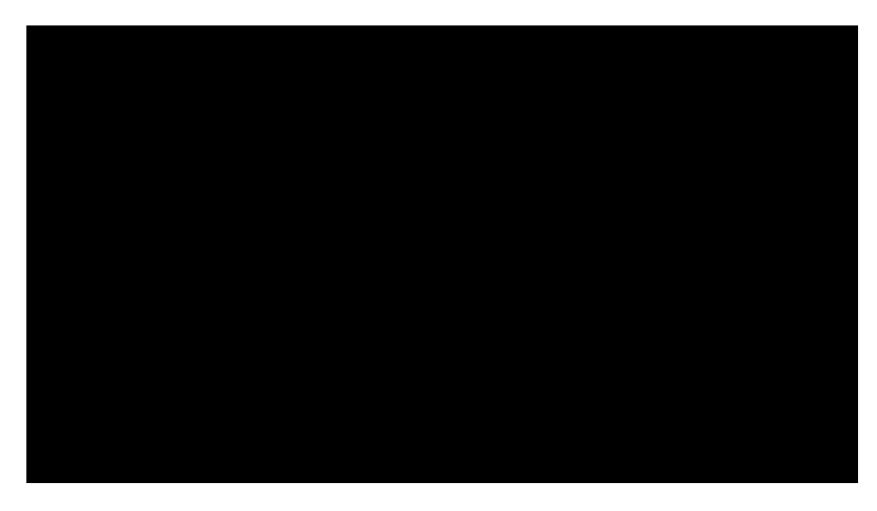
Levin Center of Surgical Innovation and 3D Printing

Dr. Solomon Dadia





Augmented Reality for Virtual Execution



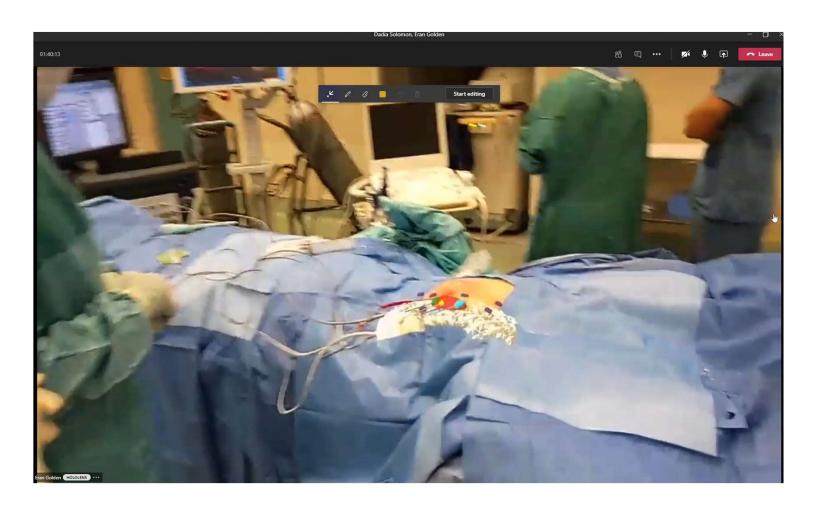


Augmented Reality for Virtual Execution





Augmented Reality for Virtual Execution





Current and Future Innovation Center Practice

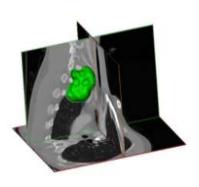
Digital Visualization

3D Planning & Printing

Custom Implants

VR/AR

Orthotics





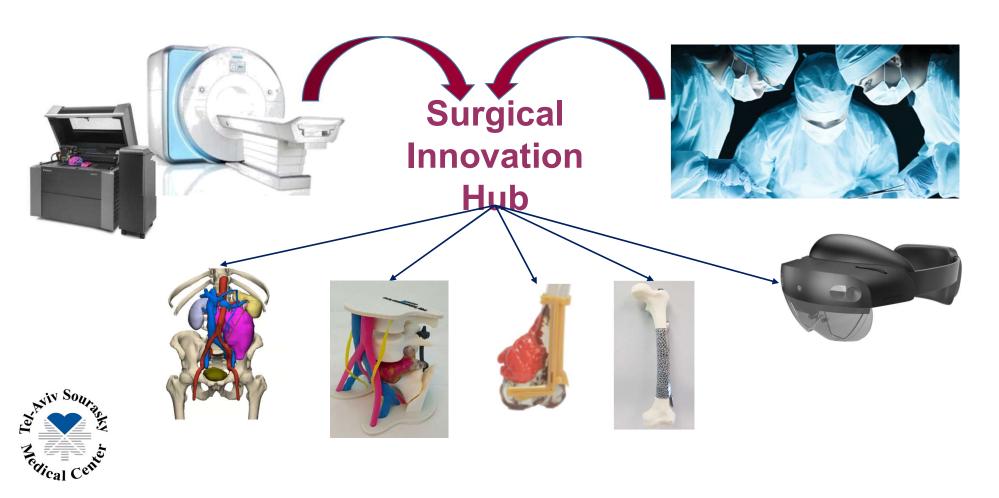








Bridging Medical Needs with Innovative Technologies





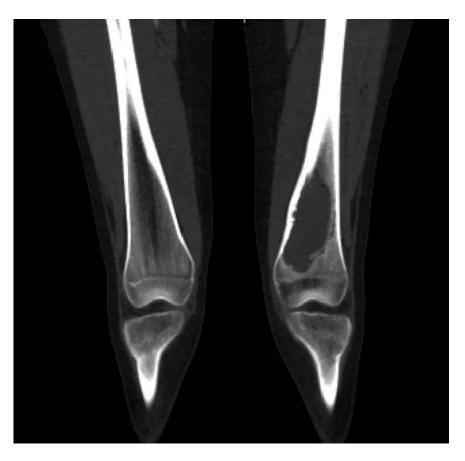


Case Study - Osteosarcoma of Femur

Female, 17Y

Osteosarcoma distal femur

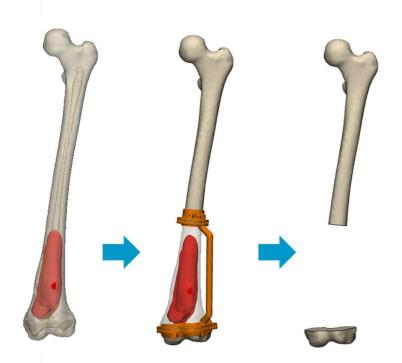
Segmental resection knee preservation
3D printed implant



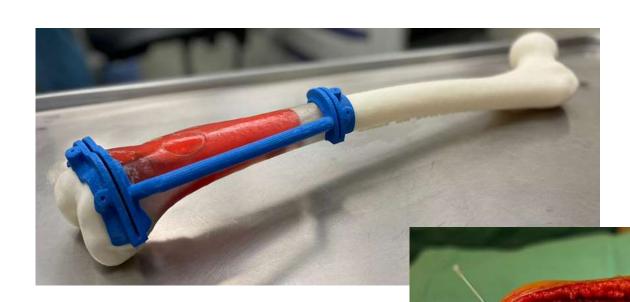






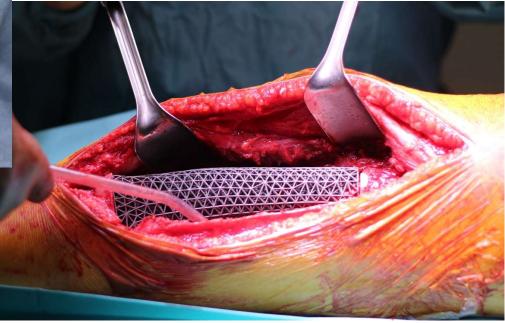






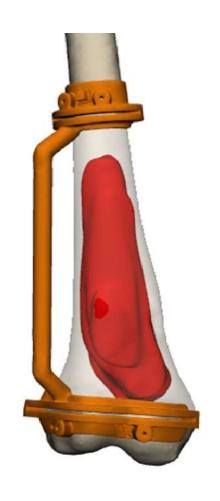


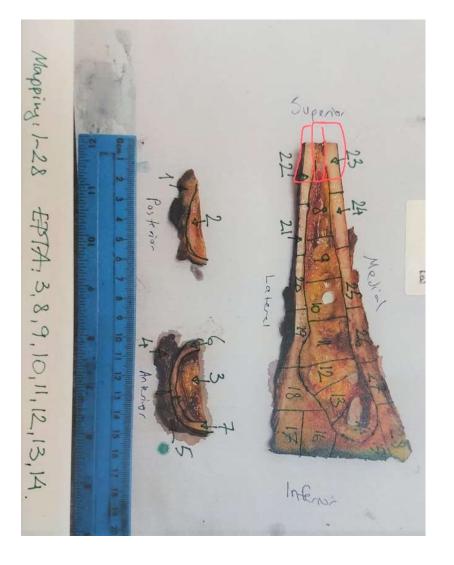












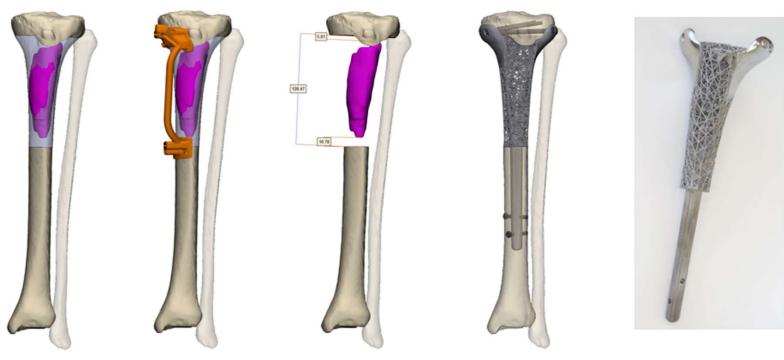






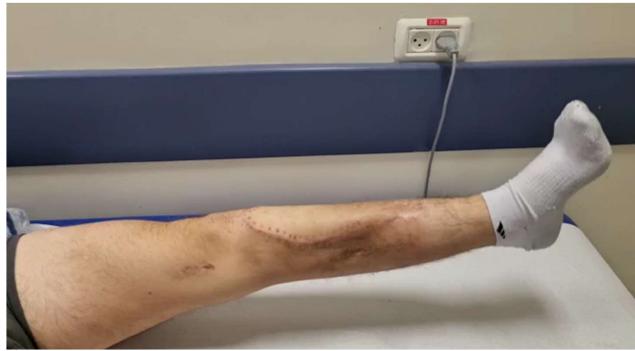


Intercalary Resection & Knee Preservation

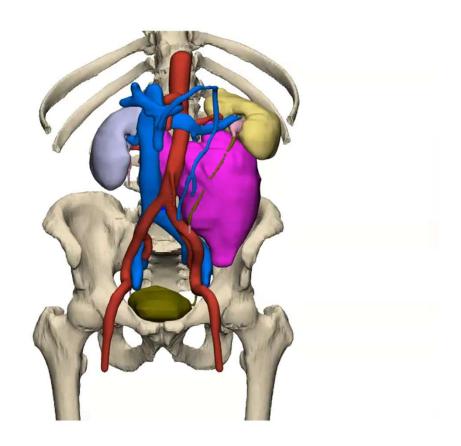








L2-3-4 Chondrosarcoma & Vertebrectomy





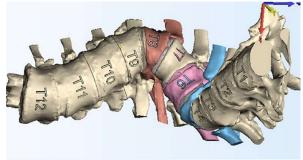
Augmented Reality – Pelvic Trauma





Adolescence Scoliosis



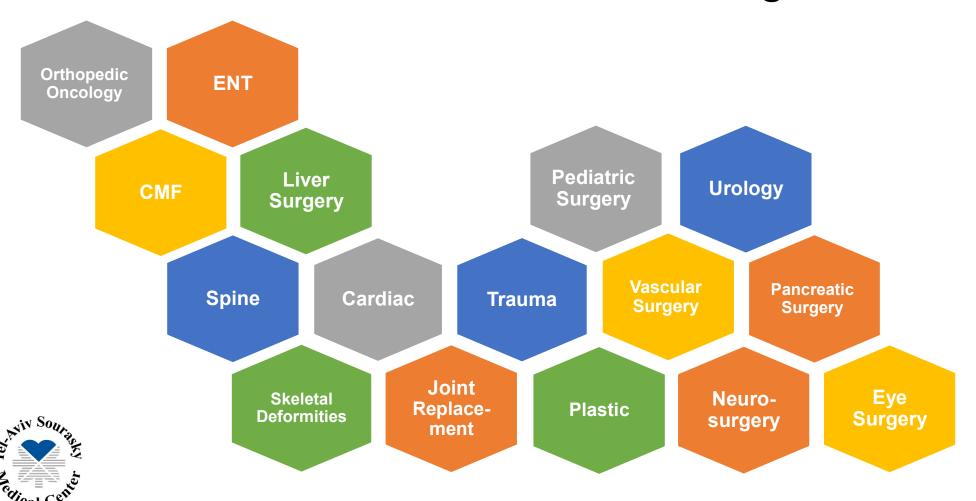




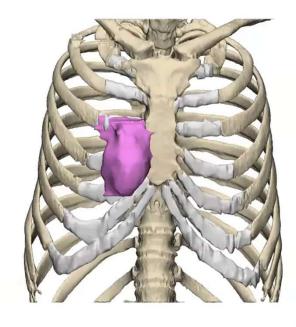




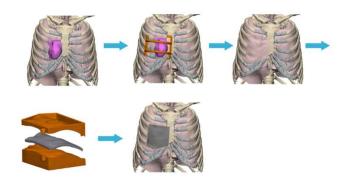
To Date – over 1000 successful Surgeries



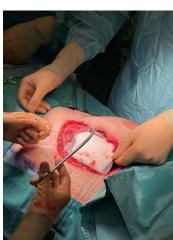
Chest Wall Resection









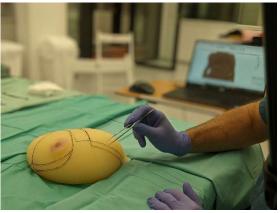




Breast Reduction











Fetus Airway Reconstruction

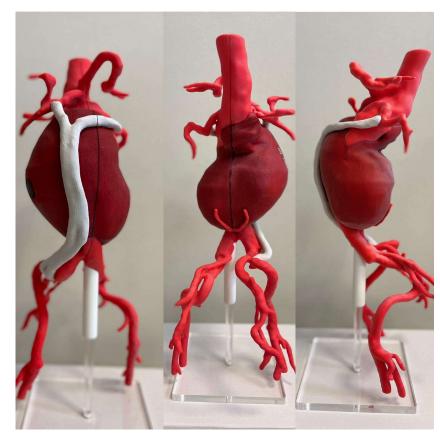






Aortic Aneurysm







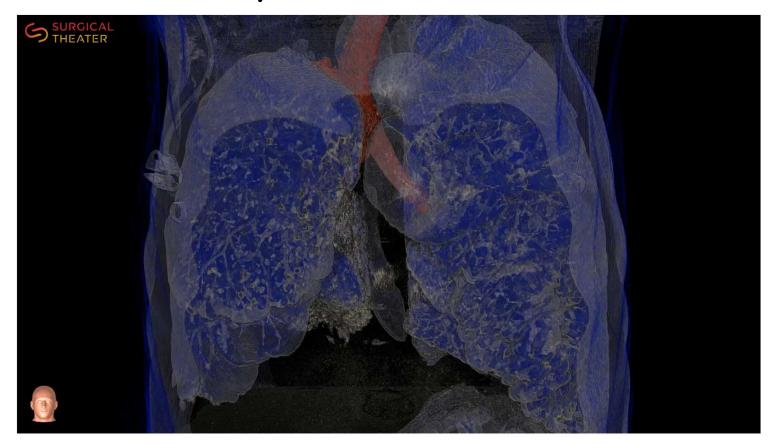
Surgical Theater – Vascular Reconstruction





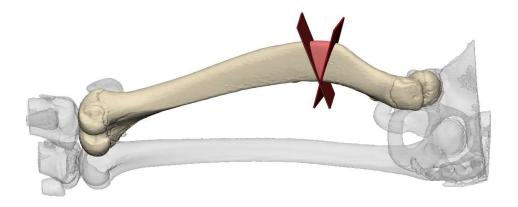


Ruptured Bronchus





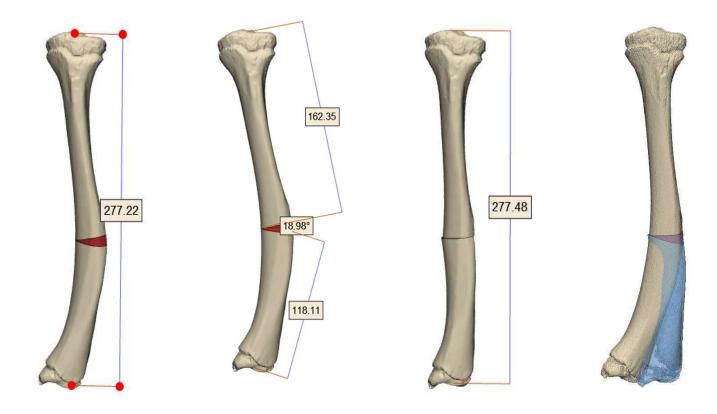
3D Printing – Pediatric Surgery





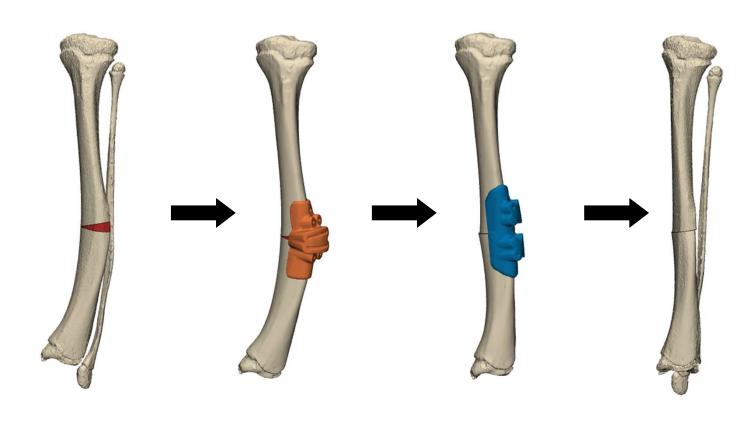


Pediatric Surgery – Deformity Correction





Pediatric Surgery – Deformity Correction





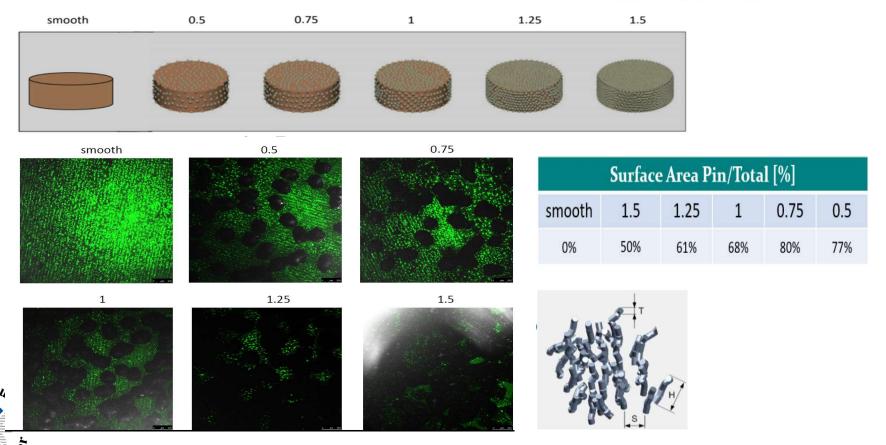
Patient-Specific Splint





Bone Regeneration Research

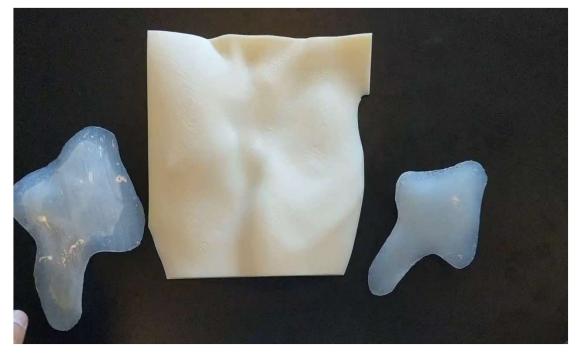




Into the Future – New Materials Printed Silicon







Into the Future – New Materials Advanced Polymers







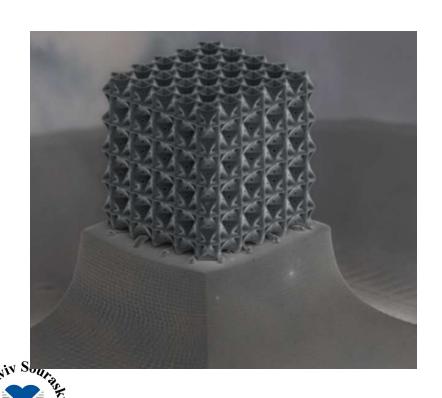








Into the Future – New Materials Printed Carbon







Into the Future – New Materials Printed Bio-Ceramic& Degradable

A.D.A.M. bone implants are biodegradable. They stimulate osteogenesis and are fully replaced by the bone tissue over time. Therefore, there is no need for reoperation to extract implant elements

Into the Future – Automation





