3DLIFE Prints

3D PRINTED HIGH FIDELITY SIMULATION MODELS FOR ROBOTIC SURGICAL PLANNING & TRAINING

Robotic Surgical Simulation Models

- 3DLP offers 3D printed surgical simulation models that can be used to enhance your robotic surgical planning and training programs
- Can be used to optimise operator skills in docking and configuring port sites / arm placements, manipulation with end point instruments and needle control
- Enhance laparoscopic skills for grasping, cutting, blunt & sharp dissection, approximation, ligation, electrocautery and suturing
- All models can be based on actual MR/CT patient data to match shape, size and pathologies to practice prior to the procedure
- 3D printed models can be made in a variety of materials that mimic human tissue, bone and pathologies
- Areas of interest can be made in a different hardness / colour (e.g. to highlight the parenchyma)
- Models can be created on request to meet your timelines & requirements

Example 3D Model Surgical Use Cases

COLORECTAL
- Colon Cancer
- Rectal Cancer

GENERAL SURGERY
- Hiatal Hernia Repair
- Pancreatectomy
- Suturing
- Nephrectomy

EAR,NOSE & THROAT
- Ophthalmology

CARDIAC
- Mitral Valve Repair
- Atrial Septal Closure

GYNAECOLOGY
- Myomectomy
- Hysterectomy

UROLOGY
- Prostatectomy
- Cystectomy
- Pyeloplasty

3D PRINTED SIMULATION MODEL:

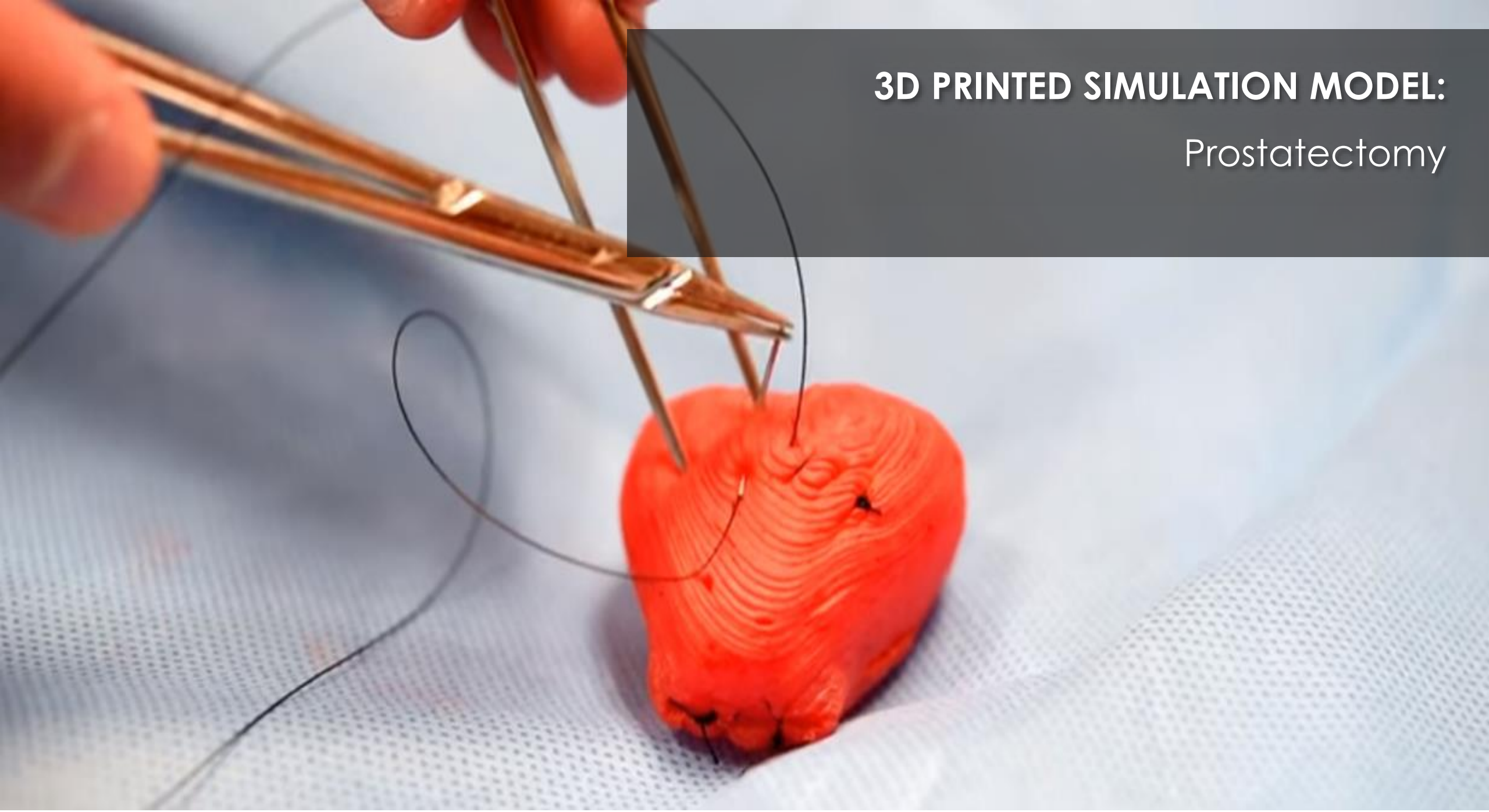
Repair of Congenital Heart Defects

“This advanced 3D printing of intraventricular blood volume was amazing, it gives us the most accurate image of the position & size of the multiple holes in the heart. This helped us to plan a less invasive procedure with an excellent outcome for the patient.

Rafael Guerrero, Alder Hey Children’s Hospital
Consultant Paediatric Surgeon

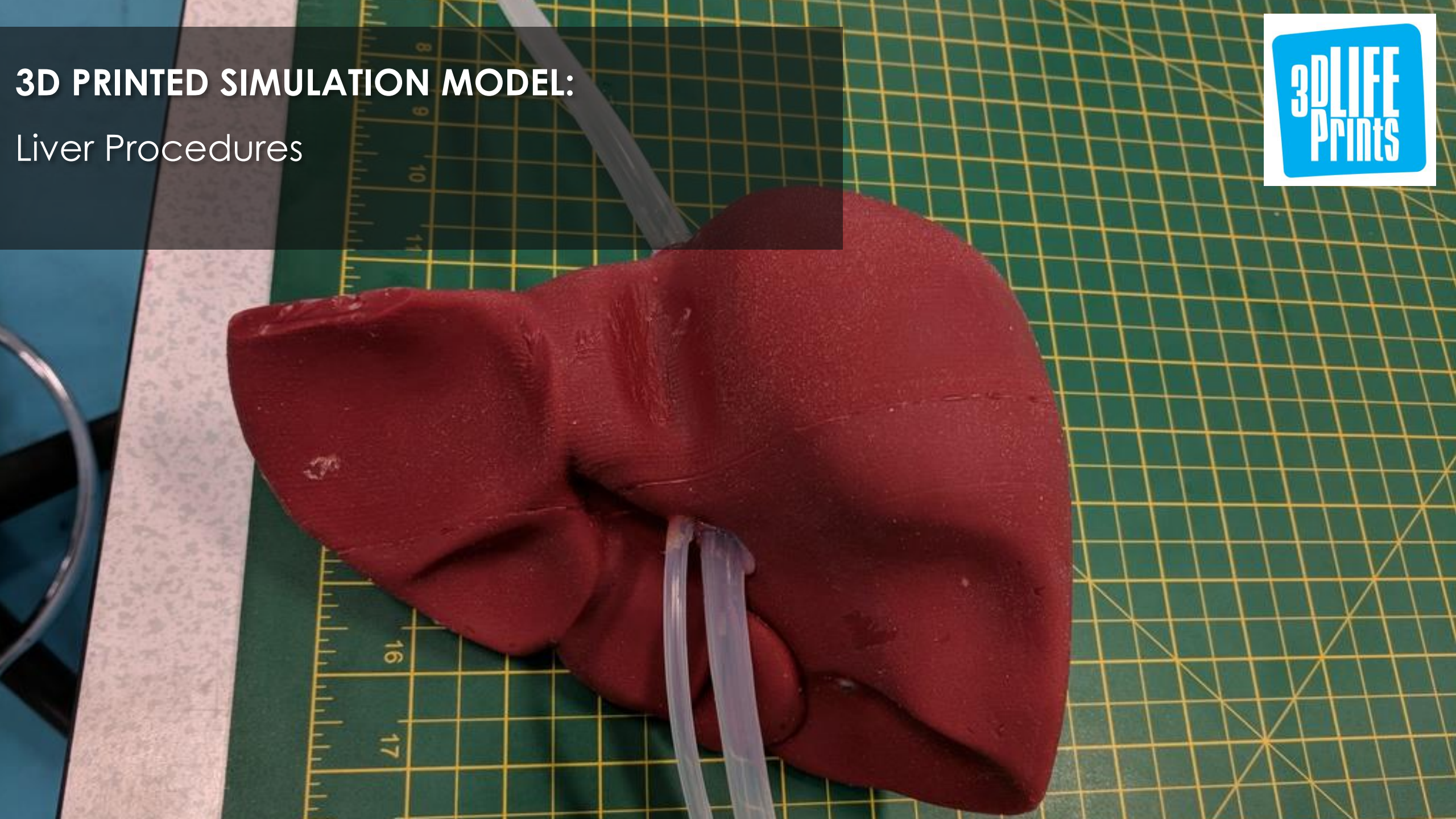
3D PRINTED SIMULATION MODEL:

Mitral Valve Repair



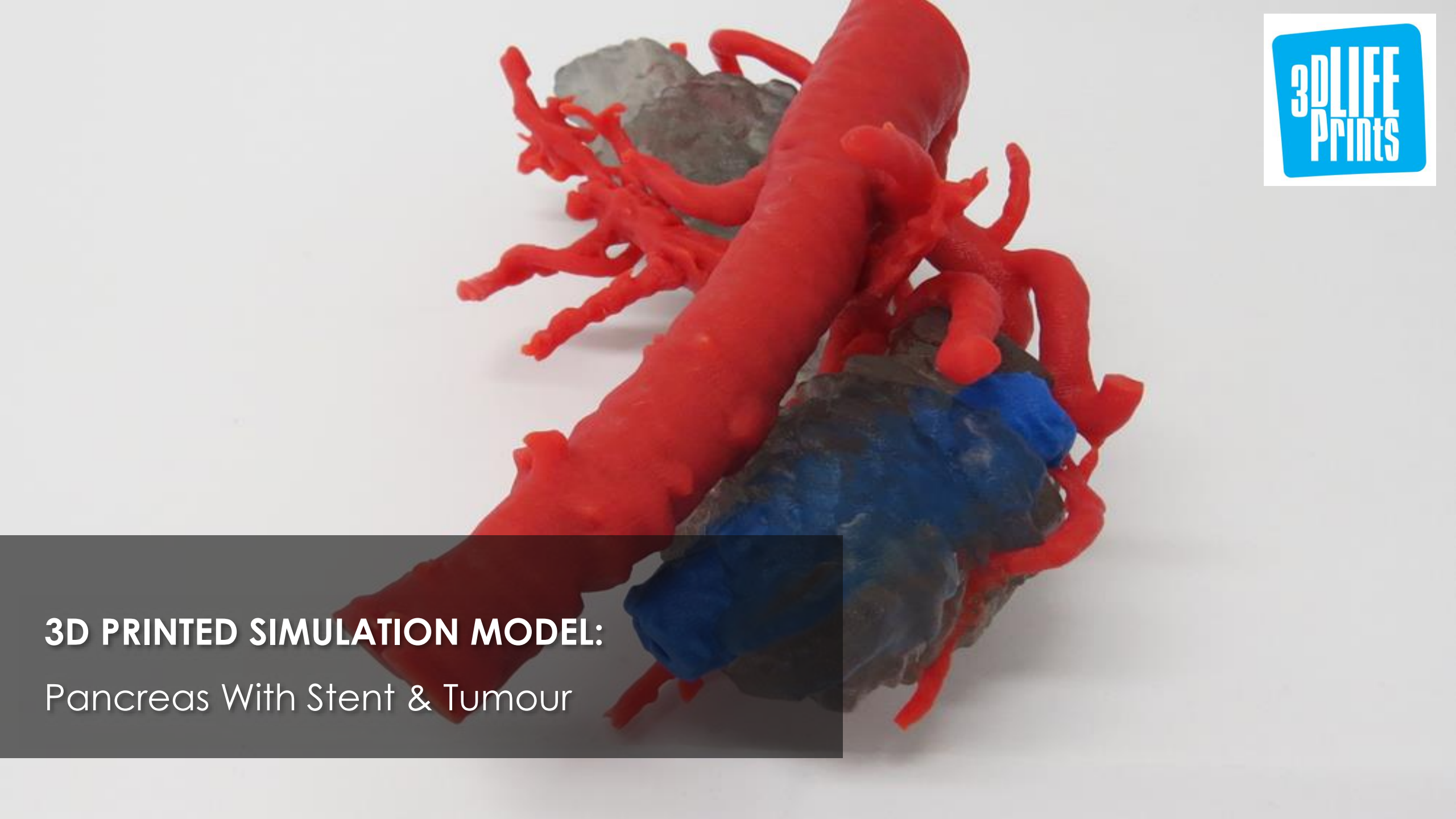
3D PRINTED SIMULATION MODEL:

Prostatectomy



3D PRINTED SIMULATION MODEL:

Liver Procedures



3D PRINTED SIMULATION MODEL:

Pancreas With Stent & Tumour

3D PRINTED SIMULATION MODEL:

3D printed eye training model