

## 3D printed organ replicas help surgeons train



Currently available for heart, ear, nose, throat and orthopedic procedures, [Biomodex's](#) 3D printed organs are helping surgeons prepare incisions and the overall operation plan. Using MRI scans and ultrasounds, Biomodex's multi-material 3D printing processes replicate patient-specific organs. The combination of different materials in the printing process allows the simulated organs to closely match aspects of the human body that are unique to each individual - tissue and bone densities and the placement of veins and arteries.

As well as patient-specific organs, the printing process developed by the company allows for the production of disease and injury-specific replicas that are ideal for medical education. Replica organs also save time and money by reducing the amount of each that is needed to prepare and store the cadavers and animals that are currently the traditional materials for surgical training. The Biomodex team plans to expand its range of replicas to all areas of medicine and continues to refine and improve the printing process to make each organ as realistic as possible.

[Virtual reality organ simulations](#) are also helping surgeons train and practice. And [3D printed micro-organs](#) are helping scientists study tissues and diseases without using animals. How else could the medical profession benefit from advancements in 3D printing processes and materials?

Website: [www.biomodex.com](http://www.biomodex.com)

Contact: [www.twitter.com/biomodex](https://www.twitter.com/biomodex)