In vascular surgery, the use of stem cells is another trend that has begun to show considerable promise, as the cells can be grown into bone, cartilage and fat in any desired shape. In breast augmentation, natural tissues do not cause the local scarring that can be associated with saline and silicone implants, although this use is currently experimental. For reconstructive surgery, stem cell tissue maintains its shape and size more effectively than conventional soft tissue implants.

A rotational aortic aneurysm that cannot be repaired with open surgery, and if successful, the mortality rate is still about 50 percent. This new procedure offers many benefits without having to cut open the aorta itself. "We are training the next generation of surgeons to be even better."