Case study: Corindus

Bringing advanced care to more places

The challenge
Telemedicine is becoming more common in the U.S.; 76% of U.S. hospitals connect with patients at a distance via video and other technology. Many procedures, including life-saving heart catheterization, are done in person. Patients experiencing the most severe heart attacks need surgery as soon as possible to survive. Pairing telemedicine with advanced surgical equipment could make such procedures available to more people worldwide.

$7B Market size of robotic surgeries by 2025

The tech
Corindus, a Siemens Healthineers company, makes robot-assisted surgical equipment. In 2018, Corindus equipment was used in the first remote human heart surgery trial at a distance of 20 miles. But latency in a network can limit the accuracy of remote surgery. In 2019, Corindus used 5G in a trial that completed 36 heart surgery simulations with an operator in Massachusetts and simulators in New York and San Francisco.

3K miles Maximum distance in simulation trial

The takeaway
The 2019 simulation trial showed that 5G networks have the potential to provide the high speed and ultralow latency needed for robotic medical tools and equipment. Corindus wants its inventions to work as well at a distance as they do on site. The vision is for a new era of remote surgery, where outcomes for heart patients near a top hospital are equivalent to those who live far away from one.

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