

Mayo Clinic Minute: Advances in knee replacement surgery

Video	Audio
	Knee replacement surgery often is done to relieve severe pain from wear-and-tear arthritis.
	Mayo Clinic's Dr. Charles Hannon says robotic surgery has many advantages.
Charles Hannon, M.D. Orthopedic Surgery Mayo Clinic	"So it allows for better reproducibility, more accuracy and precision as you're performing the surgery, reducing some of the human variability that will be there as we perform the surgery with manual instrumentation."
	He says robotics serve as a valuable tool that can aid in the presurgical stage.
	"In certain systems, it allows us with a CT scan to better identify the patient's anatomy and to plan the patient's surgery in real time before we get into the operating room."
	Doctors can then individualize surgery to the patient's needs.
	"It allows us to make very nice, fine-tuned adjustments within half a degree and within half a millimeter of the implant position to optimize the patient's function."
	Dr. Hannon says robotics provide real-time data on knee function during surgery – and the use of data extends beyond the operating room with remote patient monitoring.
	"We can monitor a patient's progress after surgery, identify a patient who may be struggling and then hopefully can change their recovery trajectory after surgery to better improve their outcome."
	For the Mayo Clinic News Network, I'm Jason Howland.