

Mayo Clinic Minute: Mixed reality provides a precise path during shoulder surgery

| VIDEO | AUDIO |
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| | Shoulder arthroplasty, or shoulder replacement surgery, is a complex procedure where damaged bone is replaced by metal and plastic implants. Computer software helps doctors create a surgical plan as to where those implants should be placed. |
| Joaquin Sanchez-Sotelo, M.D., Ph.D. Orthopedic Surgery Mayo Clinic | "But we didn't have a way to easily translate that plan, which is very accurate, to the operating room". |
| | That is, until now. Dr. Joaquin Sanchez-Sotelo is the division chair of Shoulder and Elbow Surgery at Mayo Clinic. He recently performed the first-ever mixed reality navigated shoulder replacement surgery. Specially designed tools and goggles create a highly accurate hologram of the joint. And together, they ... |
| | "... allow us to place a component exactly where it belongs." |
| | And that's important because ... |
| | "... placing the implant exactly where it belongs has a direct impact on complications, outcomes and longevity." |
| | Dr. Sanchez-Sotelo has seen a lot of change over his career. But this may be the most exciting. |
| | "This technology is going to allow us to do things that were unthinkable before." |
| | For the Mayo Clinic News Network, I'm Joel Streed. |