

Robot-assisted surgery for orthopaedic procedures: early value assessment

Information for the public

Published: 17 April 2025

www.nice.org.uk

NICE has said that 6 technologies can be used in the NHS for robot-assisted surgery for knee or hip replacements. The technologies are:

- ApolloKnee System
- CORI Surgical System
- Mako SmartRobotics
- ROSA Knee Solution
- SkyWalker Robotic-assisted technology
- VELYS Robotic-Assisted Solution.

The NHS is collecting more evidence for these technologies. So, you might be asked if details of your treatment can be collected as evidence. You can ask your healthcare professional about how your information will be stored and used.

Robot-assisted surgery is a type of surgery in which surgeons use robotic technologies. The surgeon uses a computer console to control the robotic arms and instruments. The robotic technologies support the work of the surgeon and provide real-time imaging and feedback. They may allow surgical procedures to be done more precisely than with conventional techniques.

Orthopaedic procedures include operations to treat problems with the bones, joints or muscles. The 6 technologies in this guidance can be used for total hip joint replacements, and partial and total knee joint replacements.

Is this treatment right for me?

Your healthcare professionals should give you clear information, talk with you about your options and listen carefully to your views and concerns. Your family can be involved too, if you wish. See [our webpage on making decisions about your care](#).

Questions to think about

- How well does it work compared with other treatments?
- What are the risks or side effects? How likely are they?
- How will the treatment affect my day-to-day life?
- What happens if the treatment does not work?
- What happens if I do not want to have treatment? Are there other treatments available?
- How will my information be used, if it is collected?

Information and support

The [NHS webpages on knee replacement](#) and [hip replacement](#) may be good places to find out more.

[Versus Arthritis](#) (0800 5200 520) can give you advice and support:

You can also get support from your local [Healthwatch](#).

NICE is not responsible for the quality or accuracy of any information or advice provided by these organisations.

ISBN: 978-1-4731-6944-9