The use of image-free computer-assisted systems in total knee replacement surgeries

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Authors' objectives

This report evaluated the use of image-free computer-assisted systems in total knee replacement surgeries to reduce postoperative malalignment.

Authors' conclusions

There is no convincing evidence that demonstrates improved clinical outcomes with the computer assisted navigation systems in total knee replacement surgery. However, expert opinion believes that this technology is likely to decrease malalignment in some patients. For this reason it is recommended that funding for a limited number of cases (Max. 40) annually should be approved for use in patients at the highest risk of malalignment. This will also allow the MUHC and the CHUM to fulfill their role as educational institutions.

This report and its recommendation will be updated in the future as new evidence on these devices becomes available in the peer-reviewed literature.

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http://www.mcgill.ca/files/tau/Final_ report_ computer_ assisted_ TKA.pdf

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