

Orthopedic surgery simulation: Unique technology developed

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A unique training simulator for orthopedic open surgery (knee reconstruction with total joint replacement) has been developed by OSSim Technologies Inc. in partnership with three University of Montreal orthopedic surgeons: Dr. Marc Isler and Dr. Vincent Massé from Maisonneuve-Rosemont Hospital (CIUSS de l'Est-de-l'île-de-Montréal), and Dr. Véronique Godbout from the University of Montreal Hospital Centre (CHUM).

The first orthopedic open surgery simulator, the SIM-KTM, will allow orthopedic residents to develop their confidence and basic skills in drilling and sawing bones. The SIM-KTM simulator is a great [training](#) tool for the medical education community. The technology will be used by the University of Montreal's Orthopedic Surgery Training Program at Maisonneuve-Rosemont Hospital, which is a major arthroplasty training centre in Quebec.

Benefits for patients

Each year, thousands of patients undergo knee reconstruction surgery ([total joint replacement](#) or arthroplasty).

For orthopedic surgery residents, the simulations will be a safe, valuable tool that will help reduce their stress while learning their practice. The SIM-KTM simulator will help residents acquire basic psychomotor skills and allow them to concentrate on all aspects of [surgery](#) and thus

minimize the risk of complications for patients.

Provided by University of Montreal

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