



和歌山県立医科大学附属病院

WAKAYAMA MEDICAL UNIVERSITY HOSPITAL



90% match

Between body position of patient and system determination.¹

"When meeting with staff from Intel at the Japan Association for Medical Informatics, we were given a demo of pose detection using the OpenVINO™ toolkit. We felt that the toolkit would be easy to use, even if one is not familiar with deep learning, as various pre-trained models are provided as samples."

Dr. Akinori Nishikawa,
Associate Professor,
Division of Blood
Transfusion, Wakayama
Medical University
Hospital

AI Detects Body Position and Movement of Patients to Improve at Home Treatment

Wakayama Medical University Hospital is conducting research on a system that uses the Intel® Distribution of OpenVINO™ toolkit and 2D human pose estimation models to determine a patient's movements during home blood transfusions, such as when they get up or bend their elbow. A smartphone is placed at the bedside of a patient who has given consent, a PC at Wakayama Medical University Hospital receives video via Zoom, and the OpenVINO™ toolkit's human pose estimation model and an algorithm is used to detect any dangerous movements, which are then flagged for physician review. The physician can check the footage of the patient on their smartphone and contact the patient's attendant as well as perform any other necessary measures, including a house call.

Products and Solutions

[Intel® Distribution of OpenVINO™ Toolkit](#)
[Intel® Core™ Processors](#)

Industry

Hospital & Healthcare

Organization Size

51-200

Country

Japan

Partners

[CYBERLINKS](#)

Learn more

[Case Study](#)

¹ For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/wakayama-medical-university-hospital-customer-story.html>