

Philips expands ClarifEye AR surgical navigation solution rollout in Japan

17 October 2022 | News

The system eliminates the cumbersome reference frames used by other systems, giving surgeons unimpeded access to the patient

Royal Philips has announced expanded rollout of its augmented reality (AR) surgical navigation solution - ClarifEye - to Japan, highlighting positive results in the first patients treated by the International University of Health and Welfare, Mita Hospital (Tokyo, Japan) using this innovative 3D AR solution.

Installed on a Philips interventional X-ray system in a hybrid operating room at Mita Hospital, ClarifEye helped the hospital's orthopedic surgeon Dr Ken Ishii to successfully treat patients with spinal stenosis (narrowing of the spaces in the spine) and scoliosis (sideways curvature of the spine) via minimally-invasive image-guided procedures.

Due to its ageing population, the number of spine surgeries performed each year in Japan continues to increase. Lumbar spinal canal stenosis, the most common spinal disease, is currently found in approximately 10.8% of the country's 70-79 year olds.

Philips' augmented reality surgical navigation solution - ClarifEye - combines 2D and 3D visualizations at low X-ray dose with 3D AR navigation into one system. It enables surgeons to define and navigate critical trajectories for precise device placement while avoiding damage to fragile neurological and vascular structures close to the patient's spine.