AI IN PATIENT POSITIONING FOR COMPUTED TOMOGRAPHY IMAGING

MEDICAL FIELD, OR MEDICAL METHOD

Radiology / Medical imaging / Workflow optimisation
Radiation dose reduction

TYPE

☑ Decision support ☐ Autonomous decision making

CATEGORY

☐ Prevention ☑ Detection ☐ Diagnosis ☐ Treatment
☐ Other

DESCRIPTION

AI-powered radiological software that uses deep learning methods to detect anatomical landmarks in order to optimise patient positioning in the isocenter before applying radiation dose.

AIM / PURPOSE

This approach can help to optimise the workflow by making patient positioning tasks more efficient. It can also reduce the need for repeat scans and therefore the overall radiation dose.

OUTPUT / RESULTS

Not applicable

AI METHODOLOGY

Deep-learning algorithms for anatomical landmark detection

INPUT / SIZE OF THE DATA (OPTIONAL)

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REFERENCE DOCUMENTS / LINKS / PUBLICATIONS (OPTIONAL)

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SOURCE

Siemens Healthineers