

RSNA 2020

FDA Clears AI-Rad Companion Organs RT Intelligent Software Assistant from Siemens Healthineers

- **AI-based software automates contouring process for organs at risk during radiation therapy planning**
- **Latest member of growing AI-Rad Companion family of intelligent software assistants**

During the virtual 106th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA), Nov. 29 to Dec. 5, Siemens Healthineers announces the Food and Drug Administration (FDA) clearance of AI-Rad Companion Organs RT, the latest Siemens Healthineers artificial intelligence-based software assistant in the AI-Rad Companion family. AI-Rad Companion Organs RT uses deep-learning AI algorithms to automatically contour organs at risk (OARs) on computed tomography (CT) images as part of the radiation therapy planning workflow and helps facilitate precision medicine.

Identifying and contouring a patient's normal organ anatomy on CT-based planning images is critical to ensuring the appropriate radiation dose to targeted organs and the minimum level of exposure for normal tissue. Historically, manual contouring is a time-consuming, slice-by-CT-slice process that also can lack consistency, as contours may differ with each radiation therapist or when recontouring.

The deep-learning algorithms of AI-Rad Companion Organs RT automate this contouring process for various body regions, including the head and neck, thorax, abdomen, and pelvic regions, to accelerate contouring. AI-Rad Companion Organs RT also supports the use of organ template configurations that can be aligned with institutional protocols, which may save time and improve standardization in clinical workflows.

"AI-Rad Companion Organs RT provides the radiation therapist with AI-powered organ contouring for a potentially significant reduction in turnaround time," said Peter Shen, Vice

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President of Innovation and Digital Business at Siemens Healthineers North America. “AI-Rad Companion Organs RT reinforces the multi-modality and multi-organ approach that Siemens Healthineers has employed with our rapidly expanding AI-Rad Companion family of intelligent software assistants.”

AI-Rad Companion Organs RT is available on the teamplay cloud-based digital health platform¹ from Siemens Healthineers. Like the other software assistants in the AI-Rad Companion family, it is seamlessly integrated into the existing clinical workflow and is DICOM (Digital Imaging and Communications in Medicine) compliant.

¹ teamplay is not yet commercially available in all countries. For regulatory reasons, its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for more details.

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For further information on AI-Rad Companion Organs RT, please see

siemens-healthineers.us/ai-rad

Siemens Healthineers AG (listed in Frankfurt, Germany: SHL) is shaping the future of Healthcare. As a leading medical technology company headquartered in Erlangen, Germany, Siemens Healthineers enables healthcare providers worldwide through its regional companies to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving the patient experience, and digitalizing healthcare. Siemens Healthineers is continuously developing its product and service portfolio, with AI-supported applications and digital offerings that play an increasingly important role in the next generation of medical technology. These new applications will enhance the company's foundation in in-vitro diagnostics, image-guided therapy, and in-vivo diagnostics. Siemens Healthineers also provides a range of services and solutions to enhance healthcare providers' ability to provide high-quality, efficient care to patients. In fiscal 2020, which ended on September 30, 2020, Siemens Healthineers, which has approximately 54,000 employees worldwide, generated revenue of €14.5 billion and adjusted EBIT of €2.2 billion. Further information is available at www.siemens-healthineers.com.