

# AI-Rad Companion Organs RT

## Contouring support for organs at risk in radiation therapy

### AI-powered contouring support for organs at risk

AI-Rad Companion Organs RT is an AI-based solution that provides radiation therapists with automatic contouring of organs at risk, which is input to their radiation therapy planning via the teamplay digital health platform. The images acquired at the CT scanner are sent to AI-Rad Companion Organs RT to be processed, and then the RT struct (DICOM) results can be pushed directly to the treatment planning system or first assessed in the AI-Rad Companion Organs RT interface.

AI-Rad Companion Organs RT provides organs at risk contours using deep-learning (AI) algorithms for various body regions, including head and neck, thorax, abdomen, and pelvis. It also supports the use of organ template configurations that can be aligned with institutional protocols; this may save time and improve standardization in clinical workflows.

### The need for organs at risk contouring in radiation therapy



The process of contouring all organs at risk is a tedious and time-consuming process. RT professionals spend a significant amount of time contouring manually on each slice of the CT dataset. Manual contouring can also lack consistency, because contours can differ from user to user. While the task of organs at risk contouring is necessary, it's a task that can be automated to help deliver consistency across users and patient encounters.



The predicted increase in cancer cases worldwide will lead to a growing number of patients who need to be treated with radiation therapy.<sup>1</sup> Automating these routine tasks can help free up staff to focus on more value-adding work.

### Organs at risk contouring challenges

- Organs at risk contouring is time-consuming. RT professionals spend a significant amount of time contouring manually, slice by slice.
- Manual contouring can also lack consistency, because contours can differ from user to user or when recontouring a second time.

### Purchasing options

AI-Rad Companion is available as a trial license for 90 days. After the 90-day trial, the customer can purchase AI-Rad Companion using our subscription-based software as a service (SaaS) model. Installation and use of the teamplay digital health platform is a prerequisite to using AI-Rad Companion.

### Next steps

➔ Contact us for more details or ➔ request a trial.



Courtesy of Aarhus Universitetshospital,  
Denmark

3D rendering capabilities aren't available with AI-Rad Companion Organs RT,  
but they can be accessed using an advanced visualization PACS solutions.

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<sup>1</sup>Source: <https://www.cancer.org/research/cancer-facts-statistics/global.html>  
AI-Rad Companion Organs RT is pending 510(k) clearance and is not yet commercially available in the United States and other countries.