Top 3 reasons for inaccuracy in radiation therapy planning

**1. Human Error**
Staff may make more errors than you think

RT treatment planning requires high levels of accuracy for clinical success. While the number of errors remain small, operators are responsible for the majority of them.

60% of errors are due to human factors related to scan setup and workflow complexity.

**2. Imprecise Contouring**
Contouring isn’t precise and/or takes too long

Even with excellent contouring, your staff may be challenged by motion artifacts in RT treatment planning.

75% of patients breathe irregularly, which can lead to image acquisition challenges, artifacts, and consequently inaccuracies in the treatment plan.

These errors can be fixed with manual detection of motion artifacts, however this can be a tedious, time-consuming process. Maybe even rescans are required.

**3. Motion Artifacts**
Breathing irregularities are common

To deliver the most effective RT treatment possible for a patient, you need accurate, reliable RT planning – overcoming the challenges of human error, imprecise contouring, and 4DCT motion artifacts.

To watch a video to learn more on the risks that can occur in your radiation oncology department.

Learn more

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*Risks that may exist in your radiation oncology department*

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**Risks**

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**Motion Artifacts**

- Breathing irregularities are common

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