

Delta^{4AT} At Treatment



works in progress

Introducing Delta^{4AT} – in vivo dosimetry for advanced RT

- Confidence in every delivered fraction
- Minimized Workload – measurement and analysis performed in background
- Highest accuracy
- Patient dosimetry for IMRT, IGRT, VMAT and RapidArc®

Delta^{4AT} - Confidence at all times

Confidence in every delivered fraction

Delta^{4AT} allows an easy way for user's to verify the prescribed dose delivered to the patient. Clinics and patients can be confident that an accurate and completely independent dose delivery measurement is performed at all fractions. Both the dose per fraction and the total dose for the whole treatment are easily verified and documented.

Minimized workload

To initially calibrate the system only a simple pre-treatment verification, using Delta^{4PT}, is required. Then the system monitors the administered dose to the patient automatically without any further interaction from the User.

Background analysis

Delta^{4AT} measures and analyzes the dose delivery in the background. Any discrepancy from the prescription is detected and the user will be alerted if the action level is exceeded. Both the dose per fraction and the total dose for all fractions can be compared with the prescription from the plan.

Powerful analysis tools

In the rare case that a deviation exceeds the action level, Delta^{4AT} employs unique and powerful 3D and 4D tools for further analysis. This enables the user to find both Where in the patient anatomy a deviation can be found and When in the delivery sequence it occurs.

Accuracy

Delta^{4AT} uses a new developed, thin, long-term stable solid state detector technology which insures minimum influence on the therapy beam. Using patented technology that eliminates influence from head scatter or scatter from the patient to the detector, Delta^{4AT} achieves a very high accuracy in dose determination. The unique design allows both unrestricted accessibility when setting up the patient and minimal disturbance to the beam to the patient.

Compatibility

Delta^{4AT} is the system of choice for all advanced treatment modalities like IMRT, VMAT, RapidArc and IGRT. It can also be used with minimum effort to replace conventional diode based in-vivo dosimetry.



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