



**The first ever truly
Personalized Quality
Assurance Services
in Radiation Oncology**

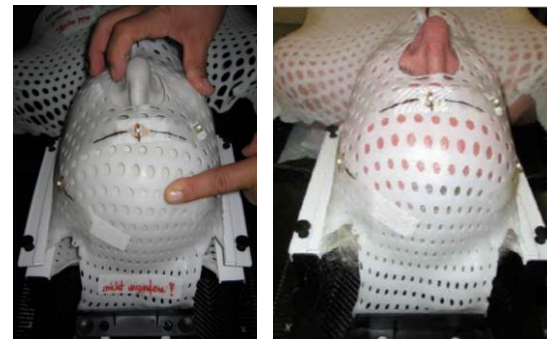
Introducing truly personalized QA in radiation oncology

What if...

it was possible during a patient radiotherapy session, to implement direct experimental measurements of the dose that is actually deposited within the patient PTV and selected OARs?

The RTsafe truly personalized pre-treatment plan verification concept is as close as possible to that.

- Measure directly the dose within selected PTVs & OARs of your patient, with your own ion chambers and confirm that the TPS calculated dose is actually delivered with dosimetric and geometric accuracy in an absolutely personalized way
- Use the measurements for the patients medical record and for insurance companies requirements
- Provide to the medical treatment team and to each patient separately the peace of mind that the treatment will be delivered as planned, in an efficient and safe way
- Build your confidence, fine tune and continuously improve your treatments
- Build your marketing strategy & patient attraction strategy with a globally unique service



Requirements for each patient:

- Anonymized Planning CT scans
- RStructure file (in order for RTsafe to place Ion Chamber Inserts within the selected patient PTV & OARs)

Personalized QA Workflow

1



Personalized PseudoPatient™ arrives at the department. Same bone structures and external surface as the real patient. Soft tissue: Water.

2



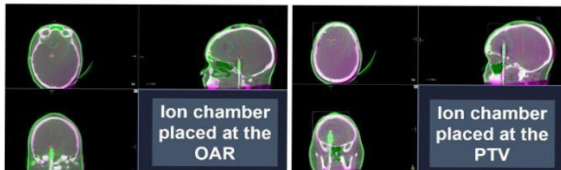
Ion chamber inserts are placed by RTsafe within the PTV and the OARs of the selected patient. Ion chambers placed within them.

3



Set-up, Image Guidance, Treatment delivery, as if this is the real patient. CBCT of the PseudoPatient™ registered on the CT scans of the real patient.

Personalized PseudoPatient™



CBCT images of the Personalized PseudoPatient™ registered to the CT images of the real patient

Introduces truly personalized QA in radiation oncology

4

CBCT images of the Personalized PseudoPatient™ registered to the CT images of the real patient.

5

[Click here to download a sample report](#)

Final **Personalized Dosimetry Report** for the patient medical record and insurance companies.



Individualized Care in Radiation Oncology

- “ Having the opportunity to test the entire imaging, planning and treatment process prior to my radiation therapy treatment on a phantom replicating myself, made me feel safe and unique. ”
- “ My radiation oncologist explained to me the whole process and the benefits of the personalized quality assurance method using a phantom that replicates my brain. I felt unique and very optimistic regarding my radiation treatment. ”

Patients that have experienced RTsafe's personalized quality assurance for the verification of their brain cancer radiotherapy plan.



Testimonials

What patients and doctors had to say about RTsafe's Personalized PseudoPatient™ for radiotherapy plan verification



Individualized Care in Radiation Oncology

- “ The verification of the patient's treatment using RTsafe's **Personalized PseudoPatient™** phantom that replicates the patient's anatomy before the real treatment, offers a unique way to test the entire planning and treatment process so as to ensure accurate dose delivery to the target volume and to prevent from damaging any healthy tissue. ”

Dr. George Kritselis, Radiation Oncologist, Hygeia Hospital





RTsafe personalized
confidence

About RTsafe

RTsafe is a medical technology company that has developed a unique approach to quality assurance that significantly enhances the safety and accuracy of radiotherapy for cancer and other medical conditions.

It combines proven expertise in medical physics with highly accurate 3D printing technology to create anatomically accurate effigies enabling medical professionals to simulate treatment and plan more precise treatment interventions for each patient and help radiotherapy technology innovators to fine-tune their products. The result is more effective therapy and reduced patient risk.

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Versa HD