

PARTNER

Vitta Radioterapia Porto Alegre // Porto Alegre, Brazil

CHALLENGE

Building an Efficient, Accurate and Differentiated Patient-Specific QA Program

SOLUTION

SunCHECK™ Platform



Vitta Radioterapia Porto Alegre is a satellite location of the Brasília-based Clínica Vitta, in the midwest part of Brazil. The Porto Alegre location operates as a single-linear accelerator site, with a recently installed Elekta Versa HD™ system. The clinic plans to reach capacity of treating 40-50 patients per day in the near future for prostate (35%), breast (35%), and head and neck (10%) cancers. In looking to treat more complicated cases, the clinic sought independent QA technology that staff could trust to deliver clinically relevant patient-specific information.

Their solution of choice: SunCHECK™ Platform.

WHY THE SunCHECK Platform?

SunCHECK software has become the main tool Vitta Radioterapia Porto Alegre relies on for secondary calculations and in-vivo monitoring. The clinic chose SunCHECK software because it is intuitive and highly efficient to use. For example, Fabrício Lima, Ph.D., Medical Physicist for Vitta Radioterapia Porto Alegre, was pleased to know that he simply had to deploy the EPID panel and deliver the treatment for in-vivo monitoring efforts. Plus, with no need for cables and connections, the clinic appreciated simplified workflows — and enhanced patient experience without having equipment attached to their skin.

The SunCHECK Platform gives Fabrício's team a centralized database of all their patient QA, significantly streamlining workflows into one integrated spot.

The clinic's aim was to build a strong patient-specific QA program, and they found that results when irradiating an array, while using SunCHECK software, gave results very similar to film in accuracy and spatial resolution, with three times less worktime.

"We invested in advanced technology, like SunCHECK, to be able to treat more complicated cases with the best possible outcomes for our patients."

Fabrício Lima, Ph.D., Medical Physicist,
Vitta Radioterapia Porto Alegre

GETTING STARTED

Vitta Radioterapia Porto Alegre was preparing to open its clinic when the COVID-19 pandemic began, raising concerns about delaying their program and implementation of SunCHECK software. However, they found that the Sun Nuclear support team and online training made implementation quite easy, even with the limitations of not having a support person on-site. Support staff was very flexible to their needs and available on-call for troubleshooting.

The self-led initial training allowed them better insights into the process so that when the trainer was able to come on-site, Fabrício's team already had a solid understanding of the SunCHECK software and could work through more complex questions.

Sun Nuclear support staff also lent Vitta Radioterapia Porto Alegre an ArcCHECK® array for initial setup in performing dosimetry. Now they can compare SunCHECK results with other Vitta Radioterapia sites.

▶ [Review this poster Clinica Vitta presented on how they evaluated SunCHECK >](#)

A RADIATION THERAPY PIONEER IN BRAZIL

Vitta Radioterapia Porto Alegre is part of a group of sites in Brazil. Their main site in Brasilia was the first to perform radiation therapy, with a Varian Medical Systems® linear accelerator. This site's experience helped pave a path for the Porto Alegre site, who carried on that knowledge in performing radiation therapy on more complicated cases using hypofractionation treatment techniques, and SunCHECK Patient QA.

Vitta Radioterapia Porto Alegre is proud to be the first clinic in southern Brazil routinely performing EPID-based in-vivo dosimetry.

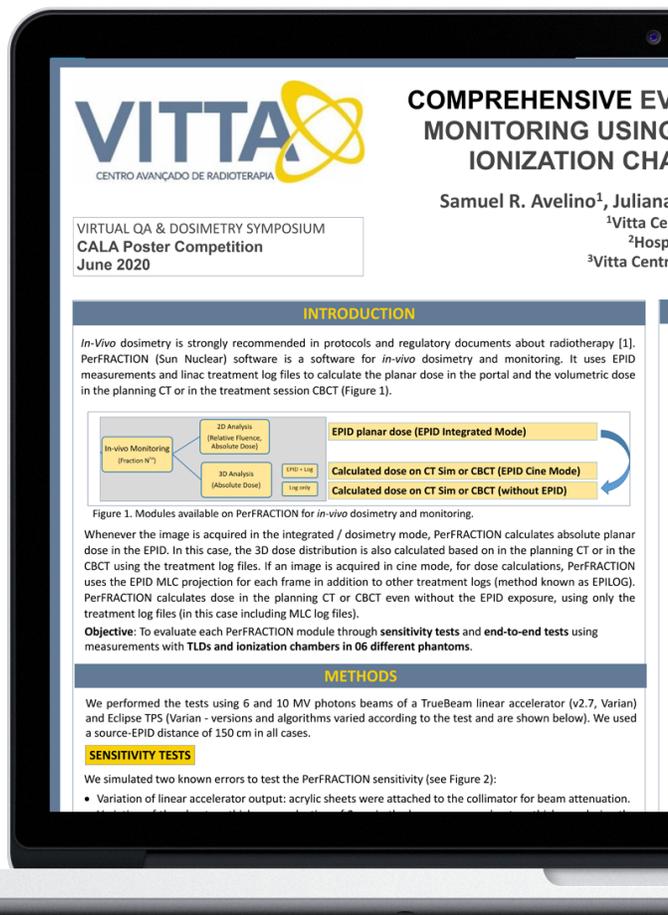
As they continue with in-vivo dosimetry, they aim to institute protocols that may reconsider treatment plans, particularly when weight change may be considerable, as with head and neck cases.

CONCLUSION

SunCHECK Platform offers a baseline for standardization of Vitta Radioterapia Porto Alegre's patient-specific QA and provides a fast solution for safely delivering complex treatment plans. As they continue to perform these treatments, Vitta Radioterapia Porto Alegre will set an example for other clinics in its group to quickly implement SunCHECK software for fast and accurate patient-specific QA.

“During the confirmation of the system, you need to know that your TPS is calculating the dose properly, and also that your machine is delivering the dose properly. The SunCHECK platform is between these two points.”

Fabrício Lima, Ph.D.,
Medical Physicist,
Vitta Radioterapia Porto Alegre



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