



THERAPANACEA

Reinventing cancer care through AI

Learn about what makes us special
through the eyes of who knows best: our users.



« ART-Plan™ saves us valuable time that be used for complex treatment planning tasks [...] »

Interview with Prof Daniela Thorwarth
Head of Biomedical Physics Research
at the University of Tübingen, Germany

Q: How long have you been using ART-Plan™?

A: TheraPanacea's ART-Plan™ was installed at the University Hospital for Radiation Oncology Tübingen, Germany in April 2020. Amid the Covid-19 pandemic, this AI-based automatic contouring software helped us gain valuable time.

Q: How did ART-Plan™ improve your clinical workflow?

A: With ART-Plan™, our workflow consists of an automatic, batch-based auto-segmentation of every CT dataset acquired for radiotherapy planning. Upon importation of the CT into the treatment planning system, the automatically generated contours are directly added to the data set. Experienced Radiation Therapists, Medical Physicists and Radiation Oncologists check and validate every contour.

Q: How satisfied are your clinical experts with the software?

A: ART-Plan™ has experienced a very high level of acceptance in the different teams of our department, as it saves a lot of valuable time that can be used for complex treatment planning tasks and interdisciplinary discussions.

Q: How often do your clinical experts need to correct the automatically generated contours?

A: Depending on the anatomical region and the size of the organs to be delineated, some contours may need editing whereas most structures are coming with such a high level of anatomical accuracy that they can be directly used for radiotherapy treatment planning.

Q: Any wishes for future versions of ART-Plan™?

A: In the near future, we hope to see a version of ART-Plan™ for auto-segmenting MRI data, getting us ready for online MR-guided radiotherapy!



THERAPANACEA

Reinventing cancer care through AI

Learn about what makes us special
through the eyes of who knows best: our users.



TheraPanacea is endeavored to develop
a new generation of software [...]

Interview with Prof Eric Deutsch
Chair of the Radiation Oncology Department
at Gustave Roussy, France

Q: Prof Deutsch, what are in your opinion the benefits of using ART-Plan™?

A: With ART-Plan we have observed a 5-to 6-fold reduction of the time required for the delineation of organs at risk that we can now dedicate for education toward our residents and trainees. Moreover, thanks to ART-Plan, we can achieve standardization of contours, which is absolutely crucial for treatment planning, workflow optimization and improvement in patient safety.

Q: What do you think makes TheraPanacea special?

A: TheraPanacea is endeavored to develop a new generation of software systems which are not only faster than other solutions but which heavily rely on close collaborations with academics. This paves the way for more relevant and timely developments which really adapt to the ever changing challenges of novel radiotherapy techniques and integrates multi-dimensional data into the treatment plan.

Q: What do you like most about TheraPanacea?

A: An outstanding scientific background of the teams combined with a strong belief in the potential of data integration, treatment adaptation and real time integration of multi-parametric imaging is what makes the difference between TheraPanacea and other companies.

Q: From your experience, what current and future challenges does TheraPanacea help you address?

A: Safer and faster treatment planning and verification, MRI-based radiotherapy workflows, as well as personalized radiotherapy.

Q: Could you please share with us how ART-Plan impacted your current radiotherapy workflow?

A: With the Batch mode of Annotate, all the steps of our segmentation process are now automated. This means, that we can keep our usual clinical workflow while benefiting from a unique, AI-based solution that fuels all our departments from the simulation CT to our 10 Linacs.

Q: Do you need to adjust many of the contours sent automatically to your TPS?

A: Yes and no, one of our studies showed that the vast majority of contours may not necessarily be adjusted since the impact of DVH is not perceivable. The technology enables to feedback corrections of contours so that the system performance continuously improves with usage.

At TheraPanacea we are developing AI-powered software to reinvent the radiotherapy workflow from preparation to follow-up. With our intelligent, plug-n-play software suite, ART-Plan™, you can accelerate and optimize your workflow from day one.

ART-Plan™'s Annotate is a unique contouring solution empowered by AI. With just 1 click and in 2 minutes you obtain highly accurate delineation of more than 80 OARs and lymph nodes.

ART-Plan™ now includes SmartFuse: an AI-powered software for multi-modal, high-precision rigid and elastic fusion, including the management of 4D-CT and a real-time deformation of contours for faster replanning.



More than 20 leading radiotherapy centers in Europe are already improving their clinical routine thanks to ART-Plan in the last 6 months..



Thanks to Annotate we were able to standardize the contours across different dosimetrists as well as to free-up the time of more than 60% of our team. Time that can be dedicated to the planning of patient treatment.

Prof. Vincent Gregoire,
Chair of the Radiation Oncology
Department at the Centre
Léon Bérard, France



Now with ART-Plan, I get to the clinic in the morning and my contours are already drawn by the solution and available for my review in the TPS. The contours look like they have been drawn by an expert, requiring very little corrections. This means huge gain of time that I can spend on treating more patients.

Dr. Idriss Troussier,
Radiation Oncologist
at the Centre des Hautes Energies
in Nice, France.



Are you ready to join them and learn more about how AI is already transforming radiotherapy workflow?

Book a demo

on www.therapanacea.eu
or contact us at mail@therapanacea.eu