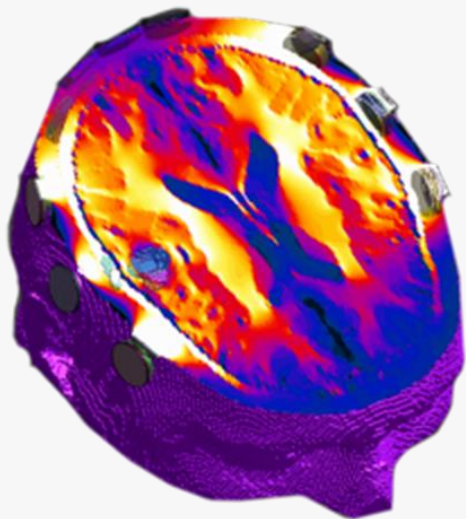


leveraging physics to address critical unmet needs

TRANSLATIONAL RESEARCH

Ze'ev Bomzon
Director of Science
Novocure

TTFields dosimetry and treatment planning

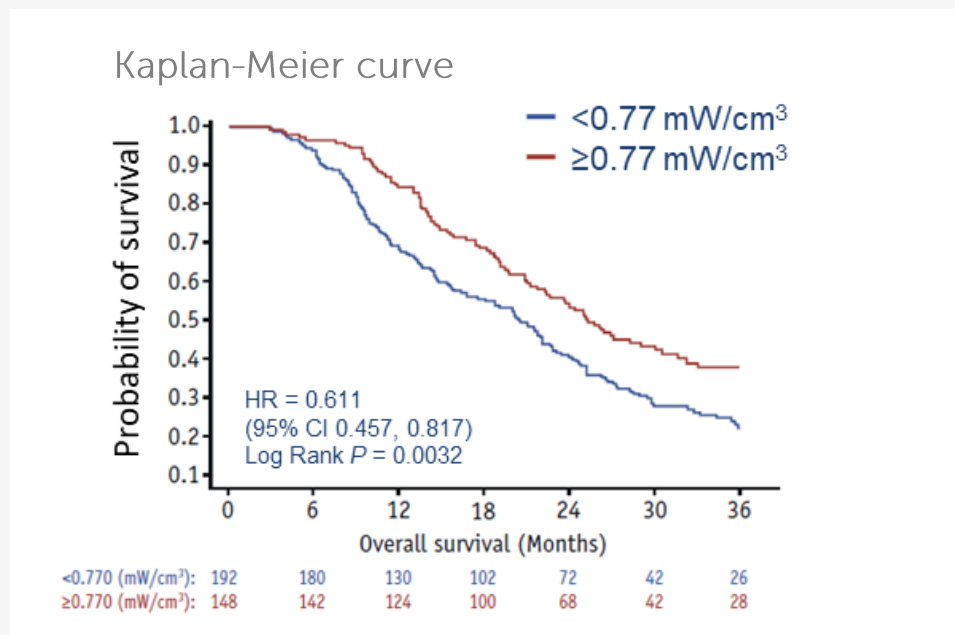


a how to define TTFields dose

b how does dose influence patient outcome

c how to utilize TTFields doses to better plan treatment

correlation between TTFields dose at the tumor and overall survival

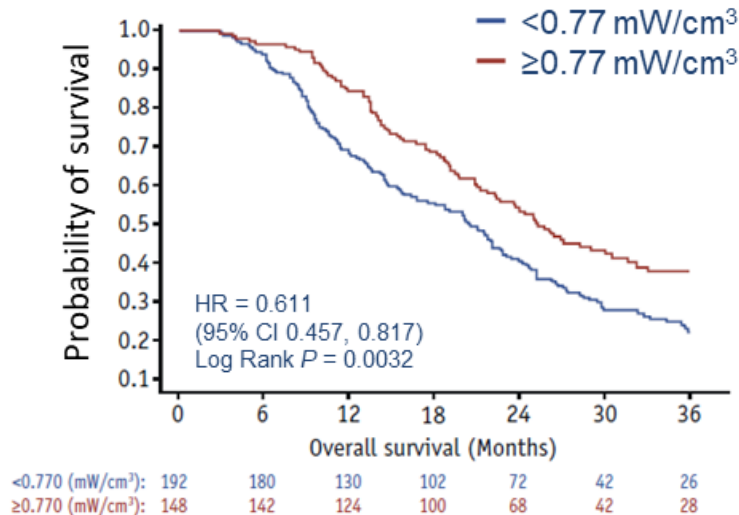


correlation between TTFields dose at the tumor and overall survival

TTFields dose =

field intensity delivered to tumor \times time on therapy

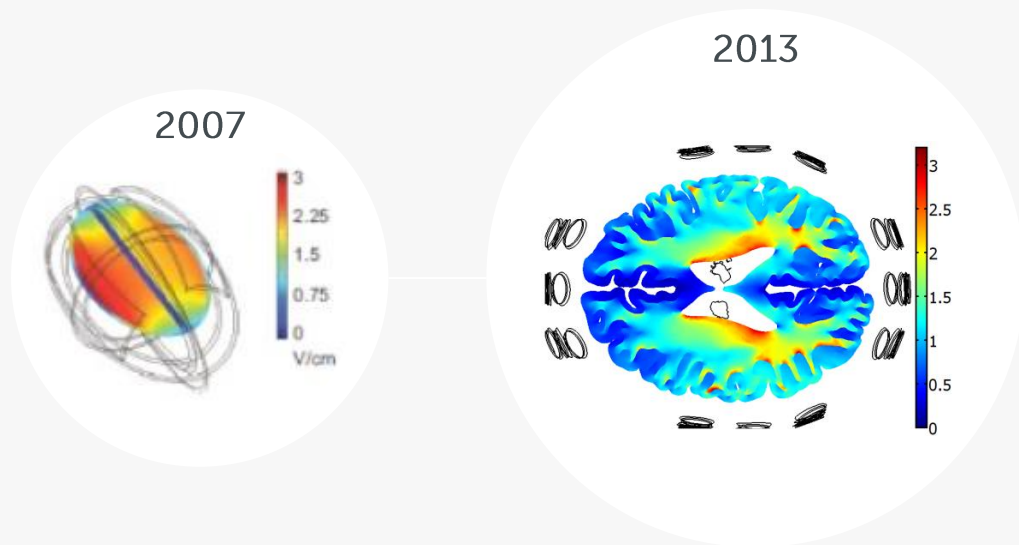
Kaplan-Meier curve



MAXPOINT™



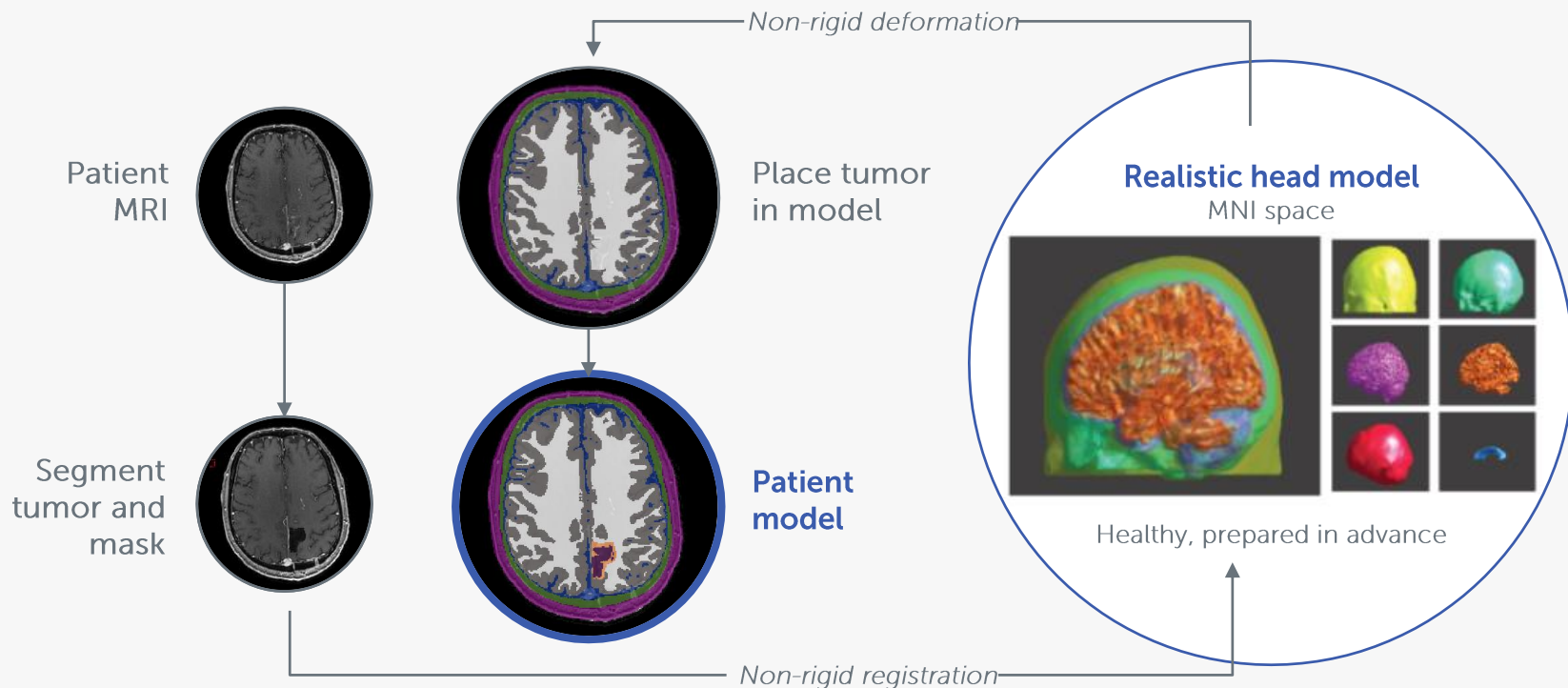
computational models critical to estimate field distribution and predict response



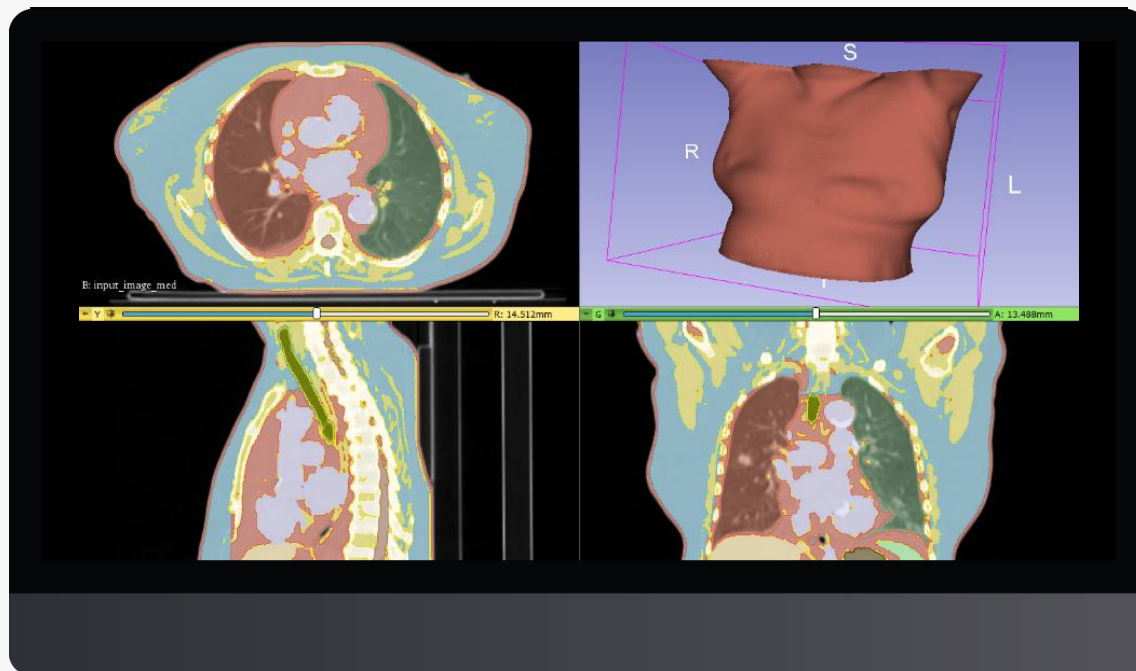
early models were labor intensive

hours to days to generate

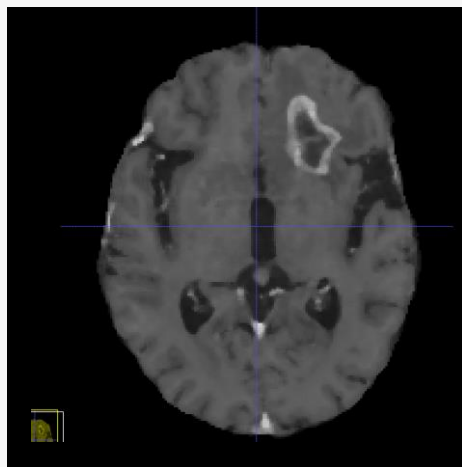
patient-specific computational model developed



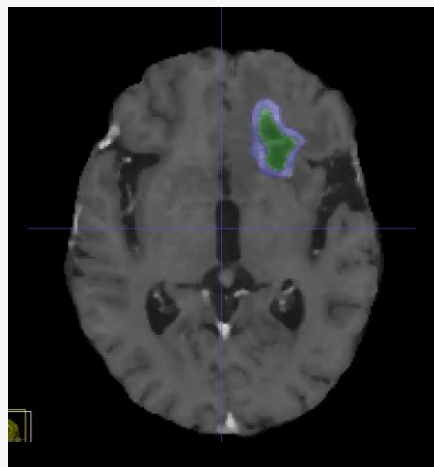
continued focus on customizing TTFields treatment planning



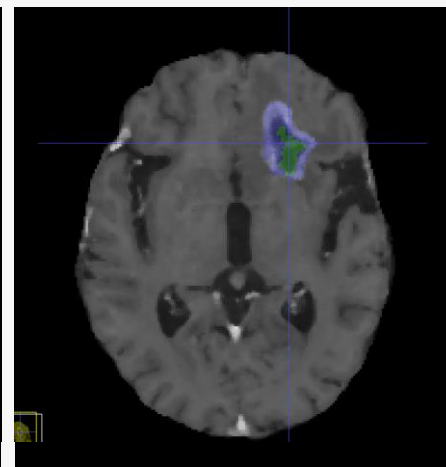
tumor segmentation may enable
predictive outcomes



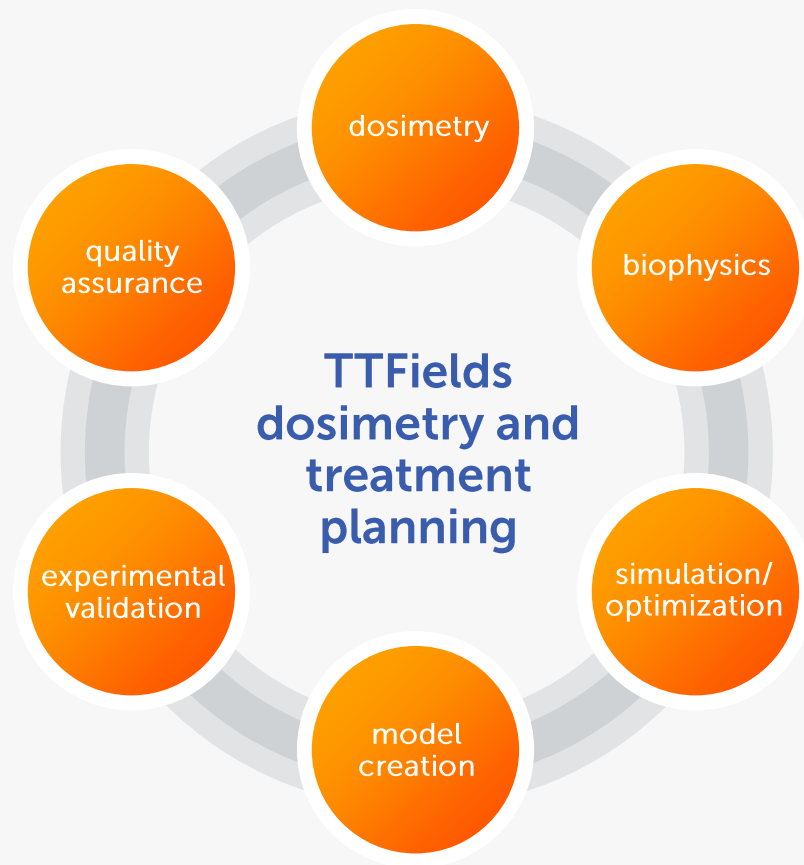
Original



Segmentation
result



Manual
segmentation

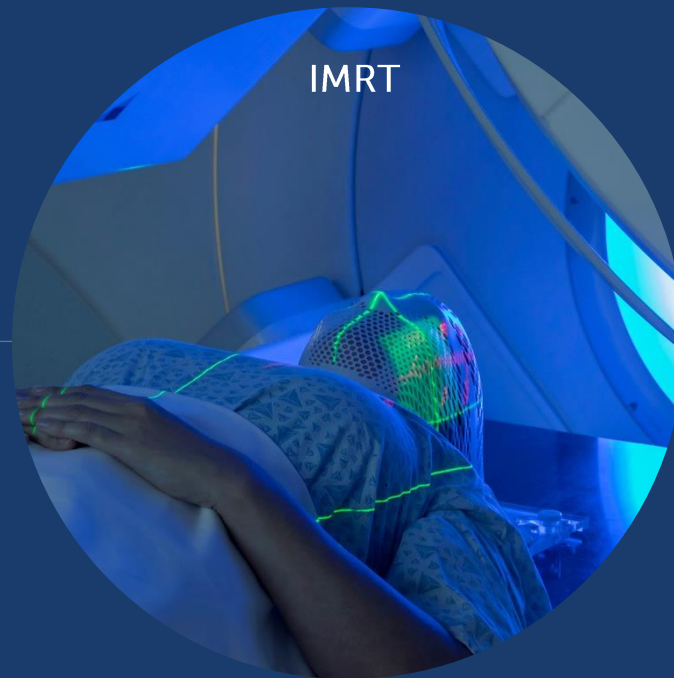


vision for the future of TTFields treatment planning

Single-field RT



IMRT



just the beginning
for TTFields
dosimetry and
treatment planning



advance hardware for personalized
TTFields delivery



utilize the treatment planning software
to replan treatment for patients



historical medical data with MRI and CT
incorporated into predictive algorithms