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NEXT GENERATION TOOL AGAINST CANCER

FROM DECADES OF ACCELERATOR DESIGN, CONSTRUCTION AND OPERATION



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X-ray radiotherapy (RT) is a standard technique in 3,500 treatment units of European hospitals

4 European facilities, based on CERN's (CH) and GSI's pioneering work, offer ion therapy with carbon ions:



CNAO

Pavia (IT)







MedAustron

Wiener Neustadt (AT)



treatment offering advantages in:

frontier in cancer

dose conformity

• efficacy against radio-resistant tumors

• integration with modern immunotherapy



Proton beam

radiotherapy

is now available

under construction

in 25 European operational

units and new centres are

MIT Marburg (DE)



HITRIplus CONSORTIUM CONSISTS OF:

- 2 major European heavy ion physics laboratories
- 4 European ion therapy centres
- 8 world-class research institutions
- 5 leading universities
- 3 innovative SME's















Cyril and Methodius University in Skopje







Istituto Nazionale di Fisica Nucleare











RIGA TECHNICAL UNIVERSITY





















EUROPE AT THE FOREFRONT OF HEAVY ION THERAPY



2009

HIT starts treatments (DE)

2015

Marburg starts treatments (DE)

HITRIplus

2021-2025

Future opportunities

After 2025

Potential
Upgrade of
Gantry at
MedAustron

After 2025

Helium Synchrotron Facility



CNAO starts treatments (IT)

2019

MedAustron starts treatments (DE)

After 2025

Potential Upgrade of Gantry at CNAO

After 2025

SEEIIST Facility







