A revolutionary, cost effective, ultra-compact proton therapy system for cancer treatment

Fact Sheet

Project Information

HIL PT System
Grant agreement ID: 880828

Funded under
INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost
€ 3 356 152,50

EU contribution
€ 2 349 306,75

Coordinated by
HIL APPLIED MEDICAL LTD
Israel

Start date
1 October 2019
End date
30 November 2022

Project description

Advances in proton therapy for cancer treatment

Proton therapy is the most efficient form of radiation therapy where high-energy protons destroy cancer cells. It could be used as the primary treatment or in combination with surgery, chemotherapy or immunotherapy. Proton therapy is an important option especially in cases where tumours cannot be removed completely by surgery. However, this treatment option is limited by the size and expense of the systems. Currently only 66 operational proton therapy facilities exist in the world covering about 5% of the demand. EU funding will support the industrial
development of an ultra-compact high-performance proton therapy system. This involves optimisation of the laser proton accelerator and clinical validation of the laser proton performance to deliver a highly cost-effective device.

**Fields of science**

- natural sciences > biological sciences > neurobiology
- natural sciences > physical sciences > theoretical physics > particle physics > particle accelerator
- medical and health sciences > clinical medicine > surgery
- medical and health sciences > clinical medicine > oncology
- natural sciences > physical sciences > optics > laser physics

**Programme(s)**

- H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs
- H2020-EU.3. - PRIORITY 'Societal challenges
- H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies

**Topic(s)**

- EIC-SMEInst-2018-2020 - SME instrument

**Call for proposal**

- H2020-EIC-SMEInst-2018-2020

**See other projects for this call**

**Sub call**


**Funding Scheme**

- SME-2 - SME instrument phase 2

**Coordinator**
HIL APPLIED MEDICAL LTD

Net EU contribution
€ 2 349 306,75

Address
4/5 hi-tech park, givat ram
9139000 Jerusalem
Israel

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 1 006 845,75

EC signature date 18 September 2019
Last update: 11 November 2022

Permalink: https://cordis.europa.eu/project/id/880828

European Union, 2023