

February 2016



**Committed to Delivering Affordable Proton Cancer Therapy**

**Energy Focused on Saving Lives**



*spin-off*

# Forward Looking Statement

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## AIM listed Company

- \$150m
- London
- 50 People
- UK, Switzerland, US



## CERN Spin-off

- LHC (Large Hadron Collider)



27 km

14,000,000 MeV

99.9999% speed of light

- LIBO (LINAC BOoster), evidence of linear proton acceleration

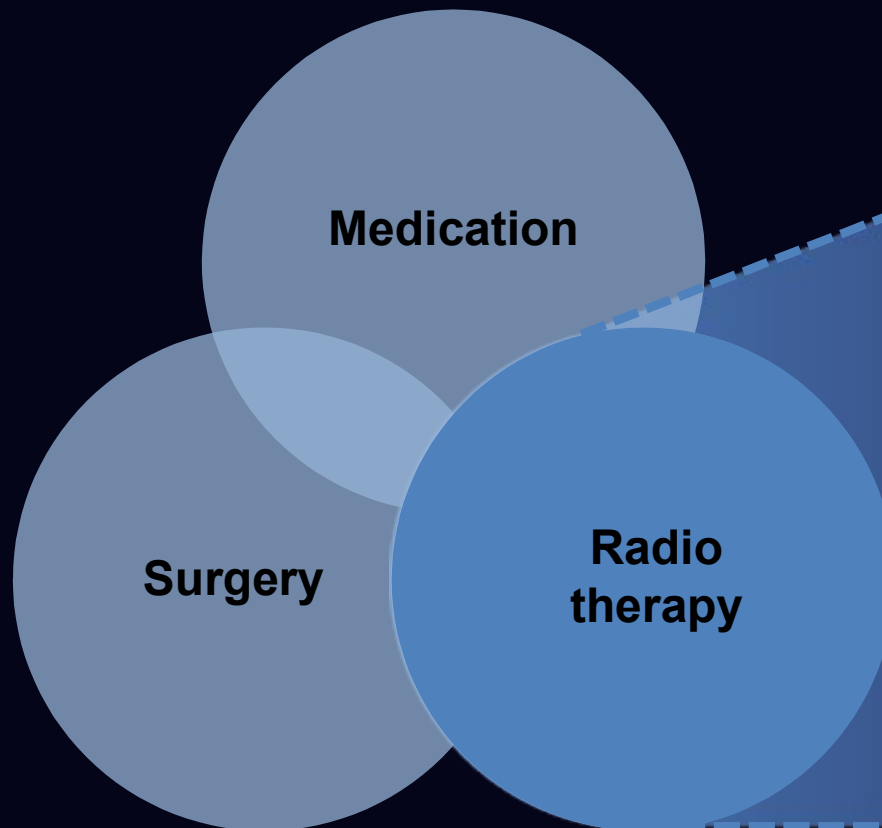
- Validated ground-breaking technology in proton therapy
- First patients by the end of 2017
- Leading component suppliers to achieve main products
- 3 signed purchase orders and large pipeline
  - Harley street
  - Huai'an city
  - Changchun city
  - Syracuse (Letter of exclusivity)
  - 4 framework agreements in China

# X-rays, a Key Modality... Now at Its Physical Limits

**21m new cases**

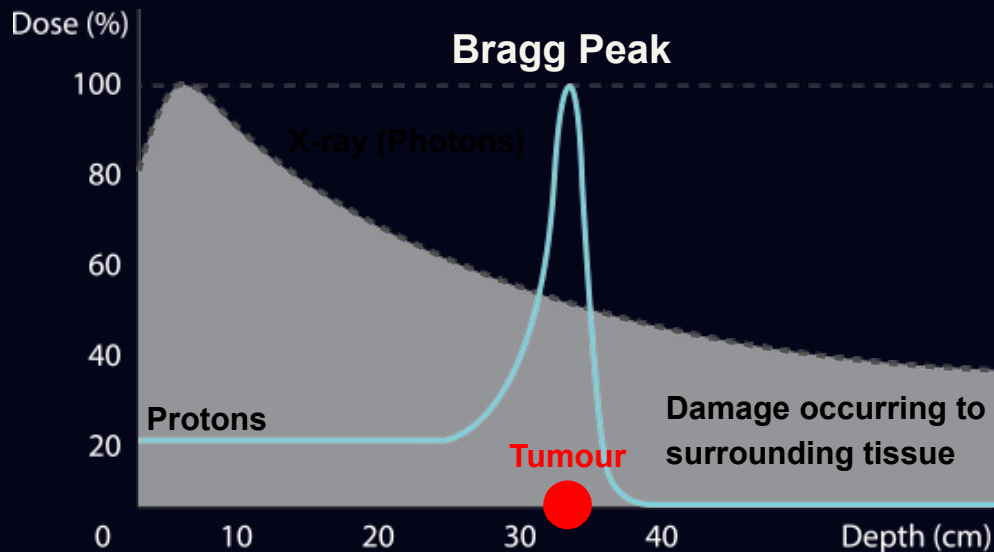
**50% survival**

**\$286 billion cost**



- Up to 2/3 of cases
- Used for more than 100 years
- Surrounding tissues exposed to radiation

## Bragg peak effect



- Since 1954
- 120,000 + patients
- Children
- Hard – to – treat tumours
- Only 54 centres (or c. 120 treatment rooms)

## Video – Hadron Therapy Facility

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- Only 54 centres in the world
- No facilities in the UK
- 150 patients sent outside UK every year
- Treatment costs in excess of £100k
- Focus on “lucrative” indications
- Facilities open 24 hours a day
- Push back from payors



# What Do New Systems Need to Have?

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- **Cost effective**
  - Equipment
  - Building cost
  - Running cost
- **More flexible**
- **More precise and dynamic**
- **More integrated, turn-key**

## Video – Pebble Mill Proton Therapy Centre

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## To Conclude

	Competitors	AVO
▪ Cost effective		
– Equipment	✓✓✓	✓✓✓✓✓
– Building cost	✓✓	✓✓✓✓✓
– Running cost	✓	✓✓✓✓✓
▪ More flexible	✓	✓✓✓✓✓
▪ More precise and dynamic	✓✓✓	✓✓✓✓✓
▪ More integrated, turn-key	✓✓	✓✓✓✓✓

# Unique Execution Capabilities

- Proton therapy, nothing new
- Our technology = already validated



LIBO (Linac Booster)

## Our team

- Dr Mike Sinclair
- Sanjeev Pandya
- Nicolas Serandour
- Prof Steve Myers
- Bob Rose
- Donatella Ungaro
- Prof Hanne Kooy
- Prof Ugo Amaldi
- Dr Nick Plowman
- Prof Jay Loeffler
- Dr Margaret Spittle
- Lord David Evans
- Michael Bradfield
- Tim Lebus
- Dr Henri Vanni
- Dr Euan Thomson
- Prof Chris Nutting
- Dr Sanjeev Kanoria

## Our partners



- 120 treatment rooms vs 13,000 rooms
- Below long-term NHS guidance set at £35k for the cost of treating cancer

➤ Make treatment accessible