

International Symposium Birmingham Respiratory Motion Management in Radiotherapy and Imaging

Welcome to Birmingham

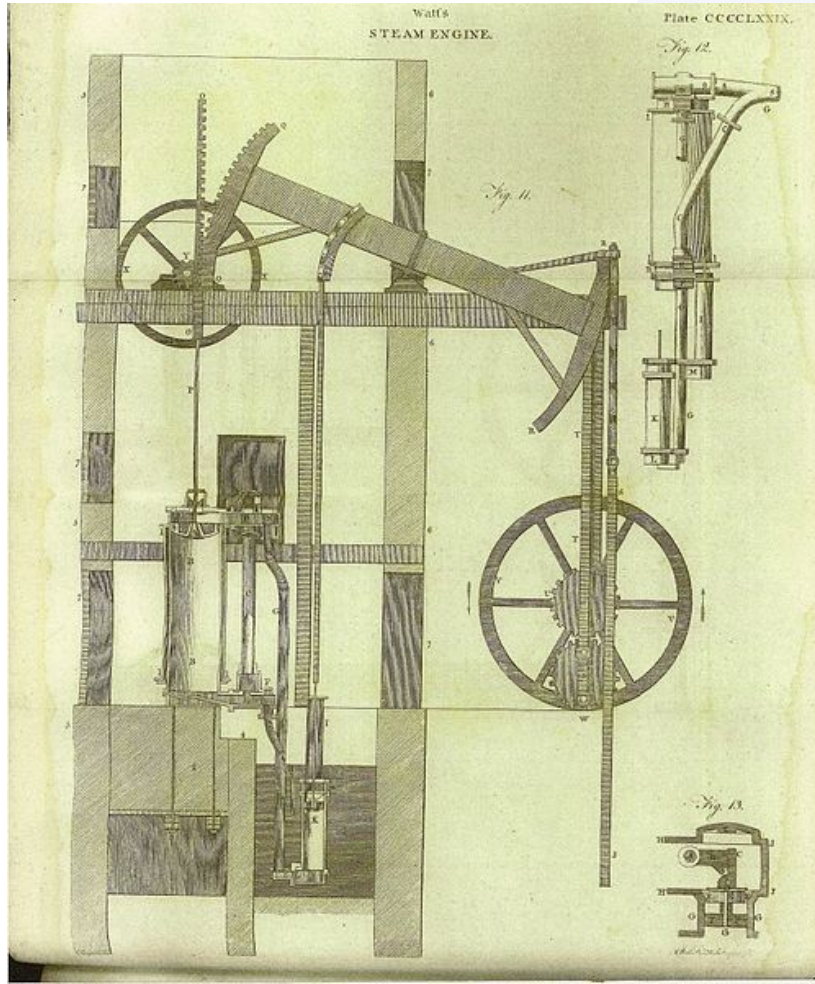


*Verity E. Milligan
@Vemsteroo*

Birmingham...



Birmingham- The start of industry



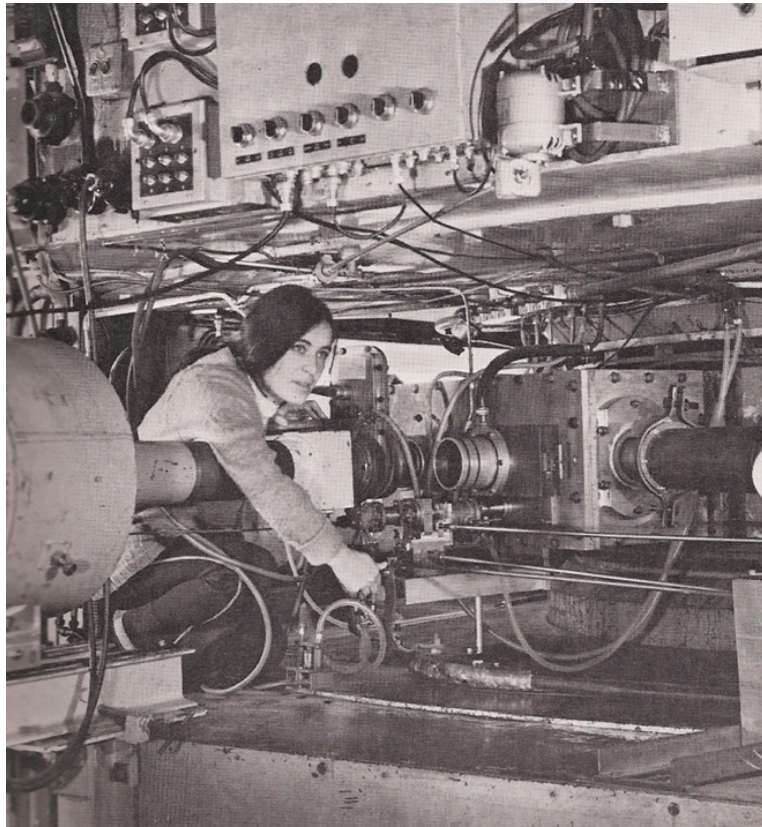
Source - Wikipedia

Between 1775 and 1800 James Watt and Matthew Boulton made 450 steam engines in their Birmingham factory

History of accelerators Birmingham

60" Nuffield cyclotron (1948-1999)

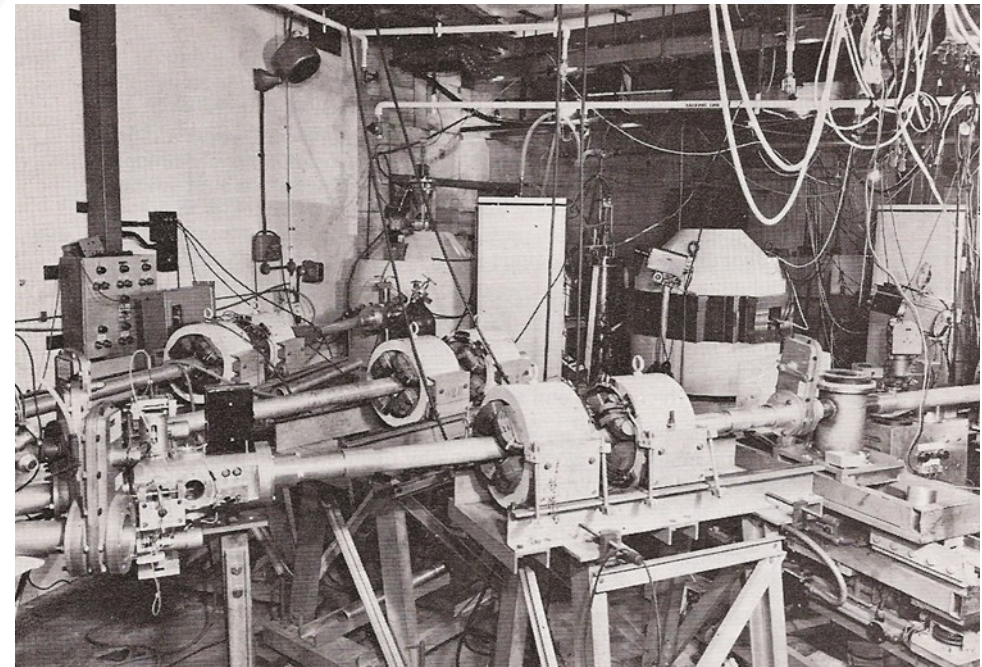
10MeV p, 40MeV α



Radial Ridge Cyclotron (1960-2002)

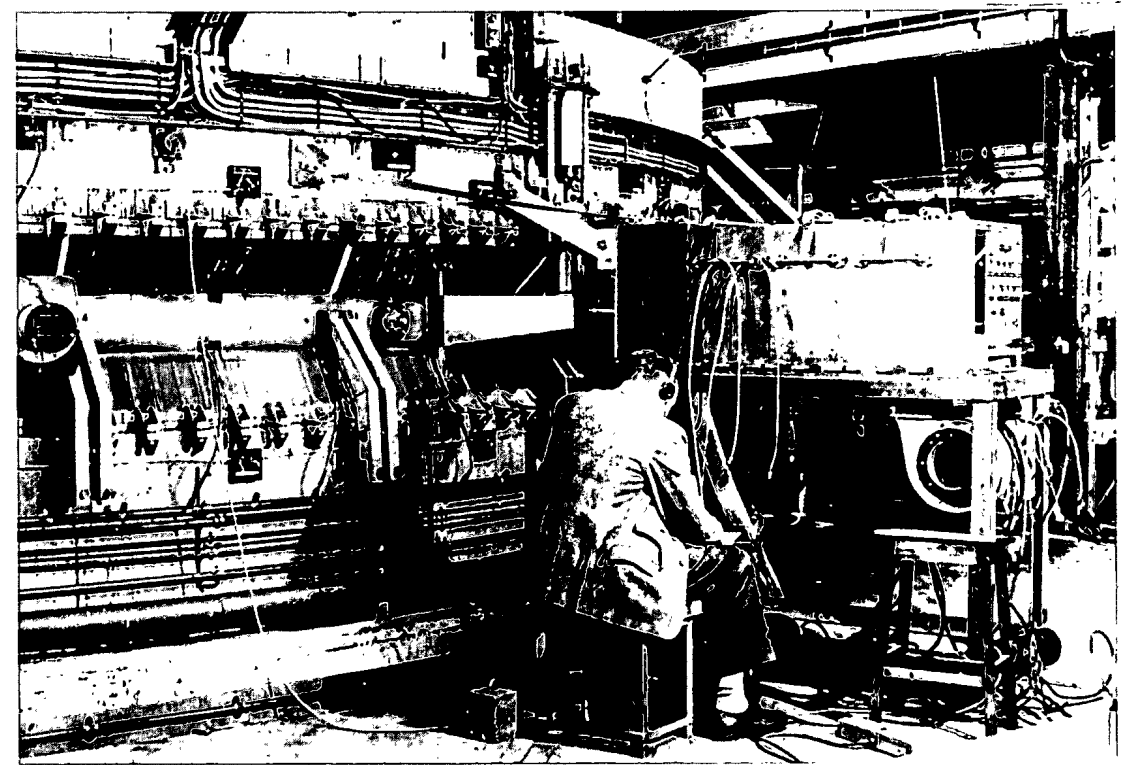
(axially injected polarised beams)

12MeV d, 24 MeV α , 33MeV ^3He



History of accelerators Birmingham

1GeV Proton synchrotron (1953-1967) (overtaken during construction by Brookhaven Cosmotron)



UHB Radiotherapy

9 accelerators treating ~5000 patients per year with specialist practice areas:

Brain tumour treatment (including Cyberknife SRS)

Paediatric radiotherapy (with Birmingham Childrens Hospital) including a RadiXact-based TBI technique

Sarcoma (with Royal Orthopaedic Hospital)

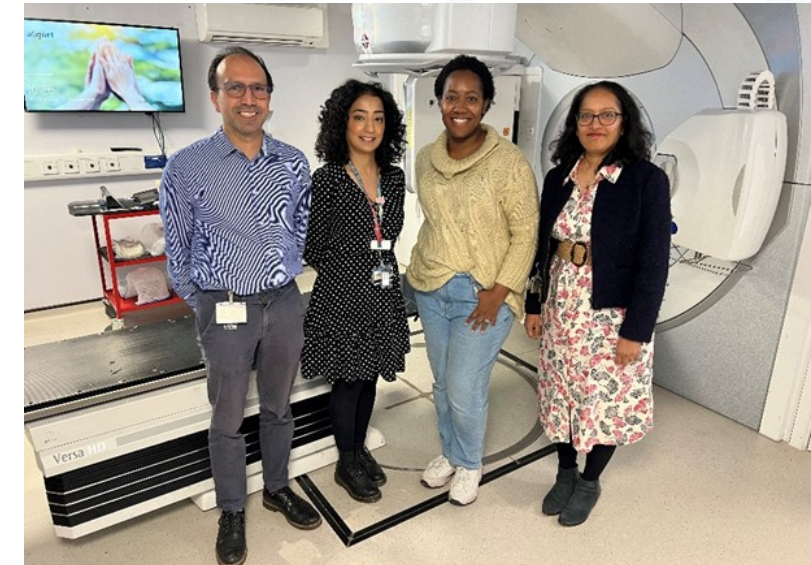
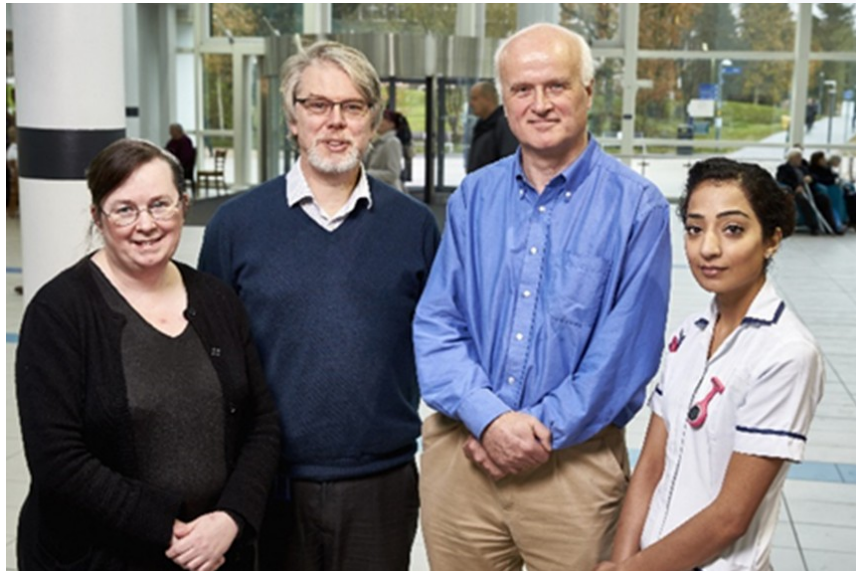
Very large SABR practice (cancers in lung, liver, kidney and others)

Head and neck cancer (with 3 x RadiXact)

Delivers approximately 51,000 fractions per year to ~5000 new patients



UHB Breathing Motion Management



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Pre-BRIC Symposium Survey

