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Radionuclide production and radiation therapy with particle accelerators

Thursday 18 July 2024 11:30 (1h 30m)

Very brief historical introduction of particle accelerators and short overview of particle accelerators for medical uses

- Radionuclide production: production routes, production methods, decay equation, decay scheme, nuclear reactions, production rate and cross section, targetry
- Radiation therapy: external radiation therapy, cyber knife, IORT, IMRT, tomotherapy, hadron therapy

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Session Classification: Medical physics