



*“This action plan will ensure that the EU continues to be the **global leader** in supplying **medical radioisotopes** and developing **radiological diagnostics and treatments**, while applying the **highest quality and safety standards**.”*



*“The **SAMIRA Action Plan** is our **first deliverable** under Europe's **Beating Cancer Plan**, and it is an excellent example of collaboration between the energy, health and research communities.”*



Security of supply of medical radioisotopes

- Launch of the European Radioisotope Valley Initiative (ERVI)
- Secure supply of source materials for production of radioisotopes
- Support to long-term sustainability of radioisotope production in Europe



Quality and safety of medical ionising radiation applications

- Launch of the European Initiative on Quality and Safety of medical applications
- Improvements to workforce availability, education and training
- Support for equal access to modern technology and interventions



Innovation and technological development

- Research roadmap for medical applications on ionising radiation technology
- Joint Health Technology Assessment of technologies and interventions involving ionising radiation



WHAT ARE THE MAIN ACTIONS OF SAMIRA ACTION PLAN?

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Security of supply of medical radioisotopes

👉 Study report on "Co-ordinated Approach to the Development and Supply of Radionuclides in the EU", now available from [Medical uses of radiation | Energy \(europa.eu\)](#) webpage

European Radioisotope Valley Initiative

- 👉 ERVI Stakeholder Group
 - 👉 Q1 2022: identify members, 1st plenary meeting (+WG meetings)
 - 👉 Q2 2022: Launch consultation on ERVI objectives
 - 👉 2022: Launch studies on ERVI scenarios and feasibility

Supply of source materials

- 👉 US DoE-NNSA MoU exchange of HEU, renewed Nov 2020 until 2026 (ESA)
- 👉 WG on HALEU production, reinstated Oct 2020, report spring 2022 (ESA)

Support long-term sustainability of radioisotopes production

- 👉 2022: Revision of the Observatory's mandate and structure
- 👉 Study on safety of research reactors, 01/22-06/23
- 👉 ENSREG WG2 sub-group on radioactive waste from non-power applications
- 👉 Euratom / HE projects: LEU-FOREvER, EU-QUALIFY, TOURR, PRISMAP...

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Quality and safety of medical ionising radiation applications

› Launch of the European Initiative on Quality and Safety of medical

☛ EU support action on Quality and Safety (2022)

- ☞ **Main focus: evidence**, evidence-based **guidance** and **practical tools**
- ☞ **Build upon Euratom** actions on legislation and research
- ☞ **Further support:** EU4Health, Horizon Europe Health cluster, etc.

☛ Steering Group on Quality and Safety (SGQS)

- ☞ advise on the **direction and content** of the Initiative
- ☞ **draw conclusions** from relevant activities and projects
- ☞ support the **implementation of project results** in Member States

SGQS First meeting: 25 Nov 2021

- ❖ 50 members from 21 Member States and Norway, Health and RP authorities
- ❖ First discussion on mandate, work programme, working methods
- ❖ WG to further develop roadmap(s), working methods, etc.

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Quality and safety of medical ionising radiation applications

| Action | Deliverables | Indicative time-table |
|---|---|-----------------------|
| European Initiative on quality and safety of medical applications | Build up EU governance for quality and safety | 2021 |
| | EU support action on quality and safety | 2022 |
| | Co-ordinated implementation of EU legislation and policies | 2023 |
| | Share good practices | 2024 |
| Improve workforce availability, education and training | Support for researchers and professionals | 2021 |
| | EU monitoring of workforce availability, education and training | 2022 |
| | EU training curricula and certification schemes in quality and safety | 2024 |
| Equal access to modern technology and interventions | Improve implementation of BSSD requirements for medical equipment | 2021 |
| | Improve evidence for clinical efficacy of novel cancer interventions involving ionising radiation | 2022-2030 |
| | Cover modern radiation technology in national cancer plans | 2022 |



Study on implementation of Euratom and EU legal bases with respect to **therapeutic uses of radiopharmaceuticals**

EU4Health 2021 call
Monitoring of **workforce availability, education and training**

Implementation of BSSD requirements with respect to **monitoring and control of patient's radiation exposures**

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Innovation and technological development

| Action | Deliverables | Indicative time-table |
|------------------------------------|--|-----------------------|
| EU research and innovation support | Research roadmap for medical applications of ionising radiation technologies | 2023 |
| | Roadmap implementation through specific actions funded under HE Health and Euratom Work Programmes | 2024 |
| | Results from research on the health effects of medical ionising radiation | 2022-2026 |



01/09/2020 -
31/08/2023

- **SRA** on medical application of ionising radiation and its radiation protection aspects
- **Roadmap** for medical application of ionising radiation and its radiation protection aspects
- Possible **synergies** between the medical **radiation protection** community, radiation protection research in general as well as the **health research** communities and **digitisation research** networks

MEDIRAD»

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SINFONIA

Summary and next steps

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Security of supply of medical radioisotopes

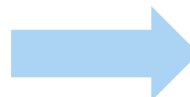
- ✓ Evidence and analyses – SMER, supply chains studies
- ✓ Support actions underway (ENER, ESA, JRC, RTD)
- 👉 Next: ERVI groups, revision of Observatory mandate

Quality and safety of medical applications

- ✓ SGQS launched
- ✓ Support actions underway (ENER, JRC, RTD, SANTE)
- 👉 Next: SGQS work programme, implement results

Innovation and technological development

- ✓ SRA and roadmap under development
- ✓ Several research actions underway (JRC, RTD)
- 👉 Next: develop synergies with HE



SAMIRA conference

- ✓ Take stock of progress
- ✓ Discuss future direction
- ✓ Cover three SAMIRA ‘pillars’
 - 👉 High-level: COM, MS, EP
 - 👉 Q2 2022 (TBC)