



RAS6109

Improving the Quality and Safety of Diagnostic and Interventional Radiology Services to Benefit Health Care by Enhancing the Status, Knowledge and Skills of Medical Physicists

Thematic Area: Human Health

Lead Country: Australia

Lead Country Coordinators: Mr Ioannis Delakis and Dr Zoe Brady

Timeline: 2024- 2027

Natascha Spark

RCA National Representative, Australia

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Science. Ingenuity. Sustainability.

Expected Impact: Improvement in the quality and safety of radiation medicine through...

Intended Outcome

Enhanced status, knowledge and skills of medical physicists in diagnostic and interventional radiology in RCA-AP GPs

Budget

EUR 804,825

Indicator

Number of countries taking action to recognize the role of the MPs in diagnostic and interventional radiology and to improve their knowledge and skills

Baseline: 0

Target

At least 60% of the participating GPs within 2 years after project completion

Means of verification

Project achievement report

RCA-AP Regional Programme Framework

Priority Area 2 in Human Health Thematic Sector is medical physics

Builds on three previous RCA-AP TC projects in medical physics

Flagship Initiative



Rays of Hope



Science. Ingenuity. Spirit.

Project Effectiveness



Outputs	Performance indicator and baseline	Targets	Status
<ul style="list-style-type: none">Project Management Structure	<ul style="list-style-type: none">Number of GPs that have established a project management structure	<ul style="list-style-type: none">Participating GPs appoint NPCsNPCs participate in first coordination meetingNPCs establish National Project TeamsNPCs prepare national work plans within three months of project commencementAnnual progress meetingsNPC/LCC annual reports	<ul style="list-style-type: none">ON TRACK22 NPCs appointed14 Country reports delivered at first coordination meetingTraining to be provided on monitoring and evaluation to inform annual reporting
<ul style="list-style-type: none">Database containing information on the current workforce and workforce requirements for diagnostic and interventional radiology medical physicists in each participating GP	<ul style="list-style-type: none">Database with current and required workforce established.Baseline: 0, as no database at present.	<ul style="list-style-type: none">Database with current workforce and workforce requirements of all participating GPs, prepared within first two years of project implementation.	<ul style="list-style-type: none">Due to commence in October in Malaysia 2024, to determine the methodology for undertaking the workforce survey.

Project Effectiveness



Outputs	Performance indicator and baseline	Targets	Status
<ul style="list-style-type: none"> Developed action plans for meeting the identified workforce requirements 	<ul style="list-style-type: none"> Action plans Baseline: 0 	<ul style="list-style-type: none"> 60% of participating GPs prepare/endorse actions plans by project completion 	<ul style="list-style-type: none"> Due to commence in Q4 2024 through expert mission, and present plans in Q1 2026 NPC progress reports will track performance
<ul style="list-style-type: none"> Trained medical physicists on quality management of radiological equipment and dose assessment/optimisation methodologies 	<ul style="list-style-type: none"> Number of trained personnel Baseline: 0 	<ul style="list-style-type: none"> At least one person from each GP trained 	<ul style="list-style-type: none"> Due to commence with QUAADRIL workshop in Q1 2025 Regional training course reports and NPC reports will track performance
<ul style="list-style-type: none"> Improved quality management practices in diagnostic and interventional radiology 	<ul style="list-style-type: none"> Database with current status of implementation of agency guidance related to Quality Assurance of diagnostic and interventional radiology Baseline: 0 Number of trained personnel Baseline: 0 	<ul style="list-style-type: none"> Database with current status of implementation of agency guidance related to Quality Assurance in diagnostic and interventional radiology of all participating GPs prepared within first three years of project implementation. At least one person from each GP trained. 	<ul style="list-style-type: none"> Due to commence in Q4 2024 through a HBA Database accessible to all stakeholders Regional training course reports and NPC reports will track performance

Project Efficiency

Virtual first coordination meeting
appropriate use of resources



Whose has all the information to track overall project performance?

Budget allocation
appropriate for project design



Should LCCs be attending regional courses?
Otherwise how can they lead projects?

NPCs have the appropriate technical background



Whose role is it to coordinate annual reports?
Who is best placed to chase up, receive, collate?

Annual report will require further training to track project performance



Is there appropriate project management support?

Regional training courses and expert missions right model for medical physics in the region



Are hosts of regional events supported in writing performance reports?

Gender Equality

Woman co-lead project

3 women NPCs

30% women participants in First Coordination Meeting

Workforce data collection and analysis will include gender focus

NPCs committed to reporting gender patient outcomes



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Project Risk Factors

Risk	Mitigating Action
Funding: lack of funding and technical support from IAEA	TO/ GPs to decide on which activities to run and associated deliverables to be removed.
Planning: lack of suitable project planning and progress auditing	Undertaken with assistance and guidance of the RCA, NR and IAEA based on technical expertise and previous experience. Early LCC/NPC training in monitoring and evaluation.
Participation: lack of suitable participants for national project teams	Suitable key partners have already been identified from the project developers and further participants were identified in Q1 2024.
Course participation: lack of suitable attendees for training courses	Courses to be advertised early as per work plan.
Input: lack of input and commitment from participating GPs	Participants will be selected with an understanding of the expectations. Some recommended participants are likely to have experience from previous IAEA projects.
Regional instability: due to social, medical and/ or governmental unrest	Where possible, and depending on the severity of the situation, meetings and training courses to be rescheduled or run virtually.

Recommendations

- Note the presentation by Australia on RAS6109 *Improving the Quality and Safety of Diagnostic and Interventional Radiology Services to Benefit Health Care by Enhancing the Status, Knowledge and Skills of Medical Physicists*.
- Consider IAEA TC funding to include attendance by LCC at project events, including regional training courses.
- Consider clarifying responsibilities for coordinating and collating annual performance reporting, and responsibility for assessing overall project performance in annual reporting.

Thank you