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Snapshot of European advanced Therapeutic Radiographers/Radiation Therapists: a mix-method study

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Background

One in four patients who need radiotherapy (RT) do not receive it, and this is projected to increase by 2025 as the workforce capacity decreases. Flexibility in models of care enables the use of existing resources at maximum capacity. Advanced Therapeutic Radiographers/Radiation Therapists (TR/RTTs) undertake evolved roles through service redesign, working across all advanced practice (AP) pillars: (i) clinical practice (ii) leadership and management (iii) education, and (iv) research.¹ This AP will optimise the patient experience and treatment pathways of cancer patients however, limited information exists on the range of advanced practitioners in RT. This study aimed to research AP among TR/RTTs across Europe and identify educational gaps.

Methods

A mix-method study including a self-designed and validated survey targeted to TR/RTTs working in AP across Europe and semi-structured interviews conducted with European key stakeholders.

Quantitative data was summarized using descriptive statistics (Excel and SPSS), and qualitative data (survey open questions and interview transcriptions) were thematically analyzed² (NVivo) and followed the COREQ checklist.³

Results

Of the 189 survey participants from 21 European countries, 66% work in informal AP, where the most common roles involved activities associated with patient care. 33 interviewees working (or studying) in 16 European countries represented practitioners,

managers, educators, professional bodies, postgraduate students, and regulators gave their personal and local perspectives.

Four overarching themes (see table 1) emerged from the thematic analysis. They highlighted the importance of consistency in job titles, harmonization of education models and curricula for TR/RTTs' registration, definition of AP requirements, support for working across all AP pillars through job plan and workforce planning.

The survey showed that the research is neglected in AP roles. Interviews presented the possible causes: no protected time, limited staff skills, no research culture, lack of management support, workload due to staff shortages, no funding, and clinical priorities. 52% of survey participants identified further educational needs in identifying RT-specific or tumour-site content and leadership and management skills. Interviewees stressed leadership training, motivation, and recognition as key to career progression, boosting job satisfaction and team acceptance of AP roles.

Table 1. Themes and subthemes

Themes	Subthemes
Advanced Practice Drivers & Outcomes	Clinical significance Professional significance Organizational significance
Advanced Practice Challenges vs Enablers	Governance & role development Workforce & organization Practice across 4 pillars Education & training
Current vs Future Advanced Practice	Clinical practice roles Education roles Leadership & management roles Research roles
Becoming & Being Advanced Practitioner	Development of competence & capability Professional maturity Challenging professional boundaries Pioneering innovation

Conclusions

Neither the profession nor education of TR/RTTs is harmonized across Europe, which is highly reflected in advanced-level practice. This study highlights a policy gap in education and professional requirements to practice at an advanced level among TR/RTTs.

Future research should include perspectives from other healthcare professionals, policymakers, patients, and their representatives to complement the exploration of contextual factors.

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Disclaimer

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