WP3 - Competencies of radiotherapy professionals working on the Linac across the EU

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Background

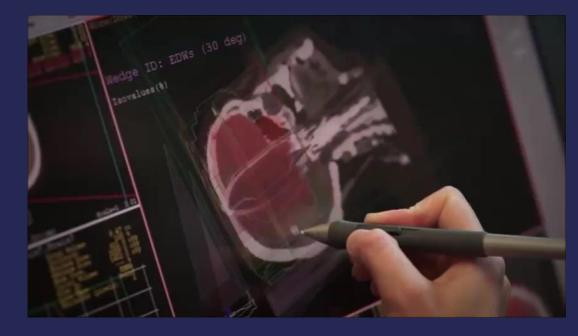


2005/36/EC Directive; 2013/55/EU Directive

Research Questions / Scope

Which competencies are most/least developed across the EU?

Which course characteristics influence the competency level?



Video: University of Otago, 2014

Survey

Part A: Educational programme characteristics

Part B: 63 competencies on the linac

- 1 (not developed) to 7 (competent)
- 14 themes
- Based on a previous thematic analysis of the literature (Couto et al., 2019)

SAFE Europe



To education institutions

1 Radiation safety **2 File verification 3** Positioning and immobilisation **4** Radiotherapy treatment delivery **5** Image verification of patient setup **6 Equipment quality assurance 7 Professional and ethical practice 8 Patient care 9** Pharmacology **10 Research and education 11 Quality and risk management 12 Management and leadership 13 Decision making** 14 Teamwork and multidisciplinarity

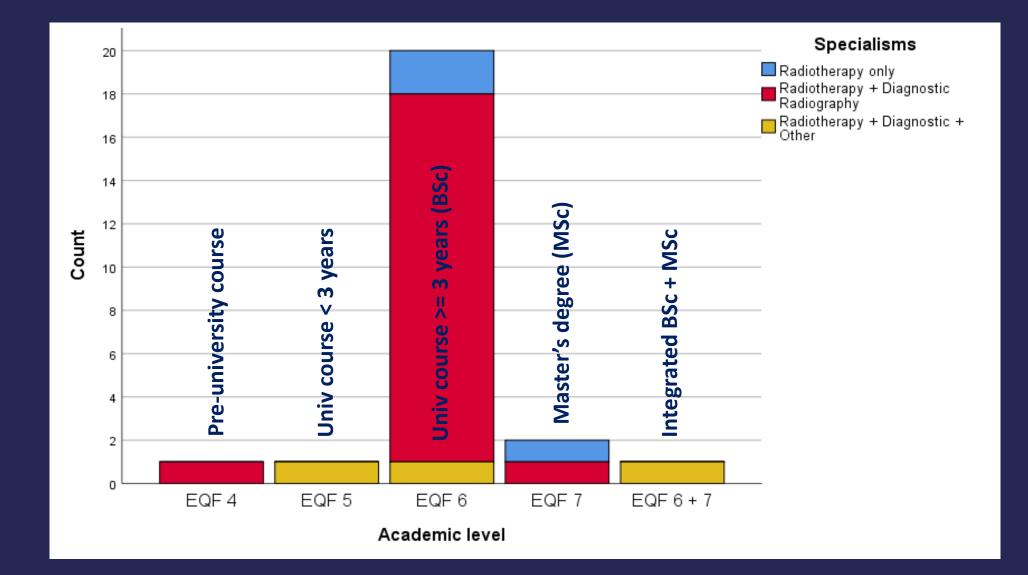


89 respondents

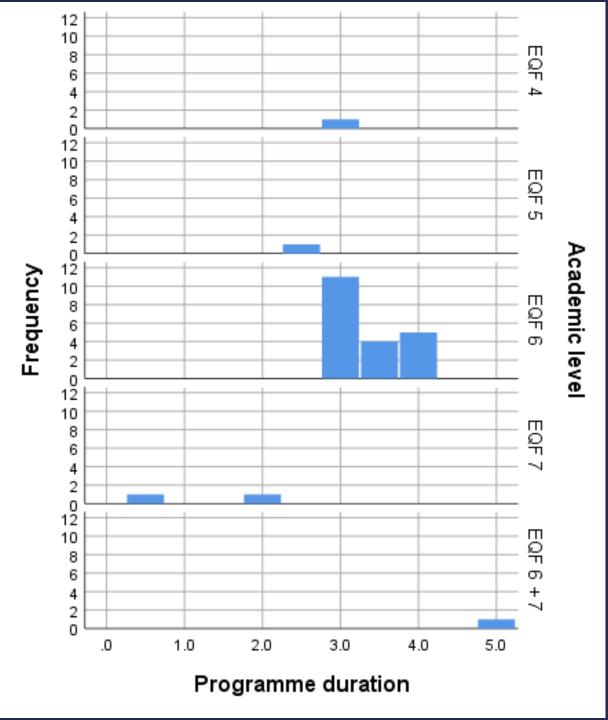


Total of 25 national-programmes (19 EU countries)

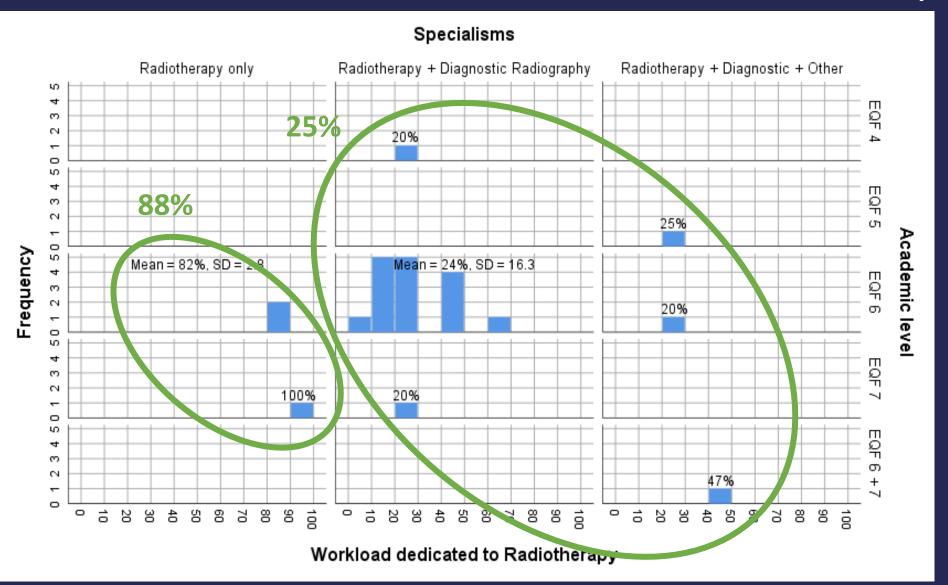
Academic level & Specialisms



Course duration

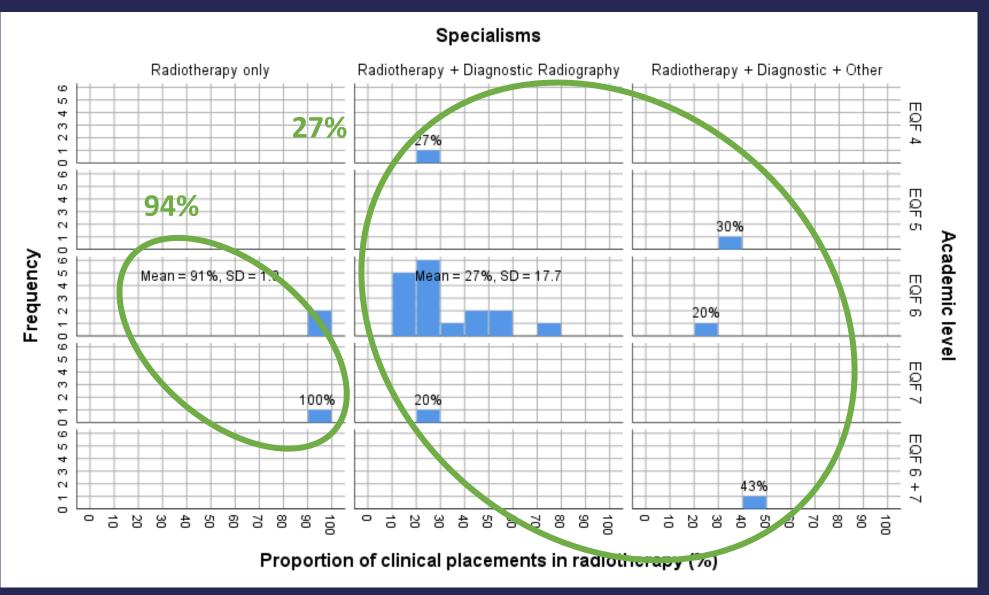


% of course dedicated to Radiotherapy



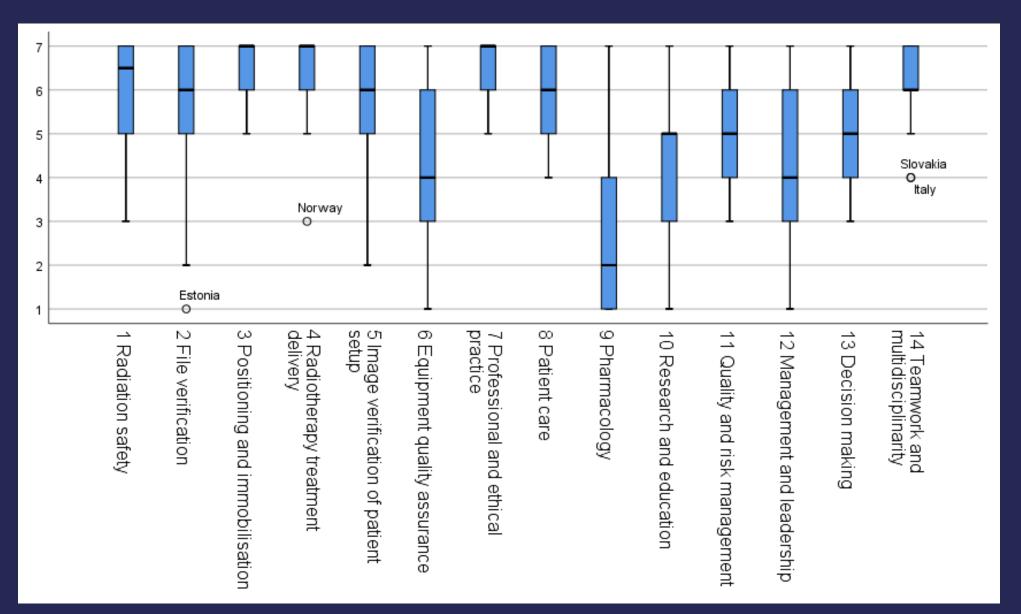
Kruskal-Wallis test: RT only vs. RT + others (p = 0.005)

% Clinical placements dedicated to Radiotherapy

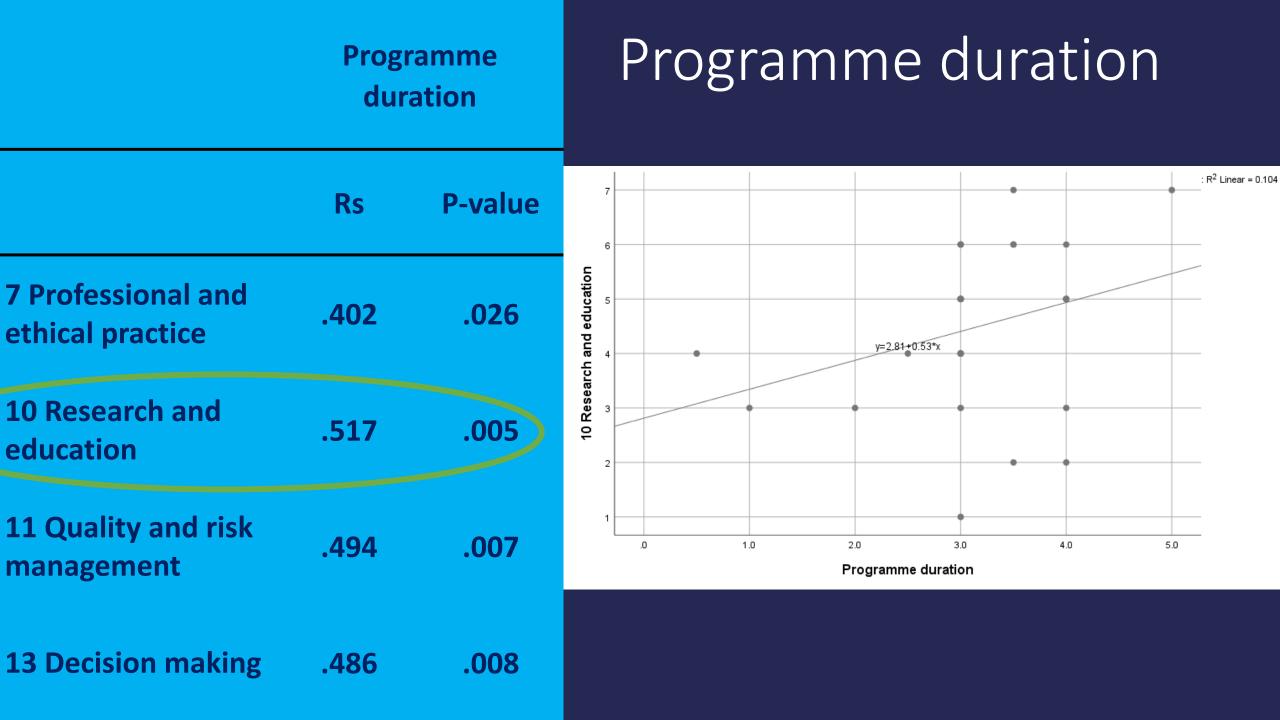


Kruskal-Wallis test: RT only vs. RT + others (p = 0.005)

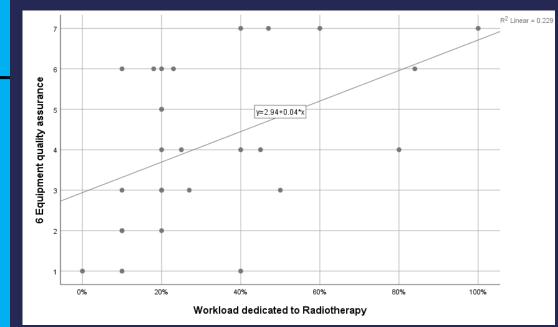
Most/Least Developed Competencies

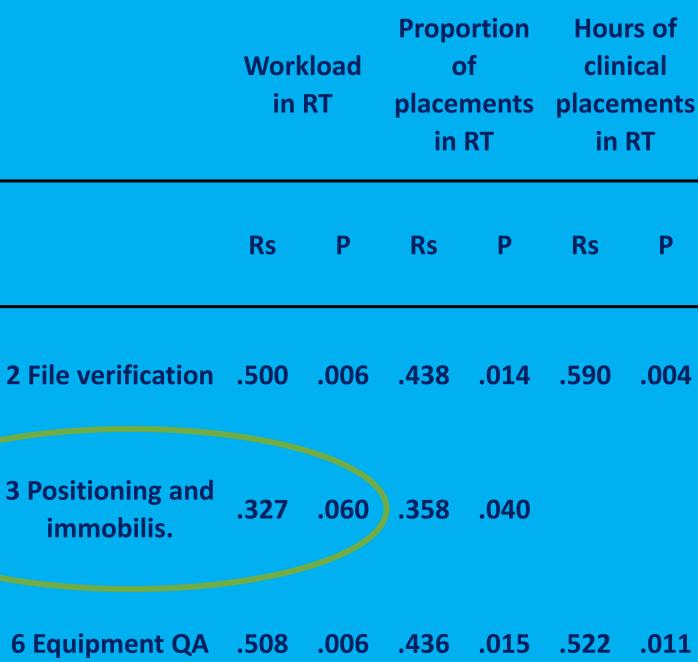


P > 0.05	EQF 4 or 5 (n=2)	EQF 6 (n=20)
	Mean	Mean
1 Radiation safety	6.00	5.72
2 File verification	5.00	5.58
3 Positioning and immobilisation	6.00	6.65
4 Radiotherapy treatment delivery	5.40	6.51
5 Image verification of patient setup	5.42	5.89
6 Equipment quality assurance	3.88	3.96
7 Professional and ethical practice	6.00	6.35
8 Patient care	5.29	5.97
9 Pharmacology	1.33	3.62
10 Research and education	3.38	4.71
11 Quality and risk management	4.17	5.45
12 Management and leadership	4.50	4.11
13 Decision making	3.50	5.20
14 Teamwork and multidisciplinarity	5.75	5.91

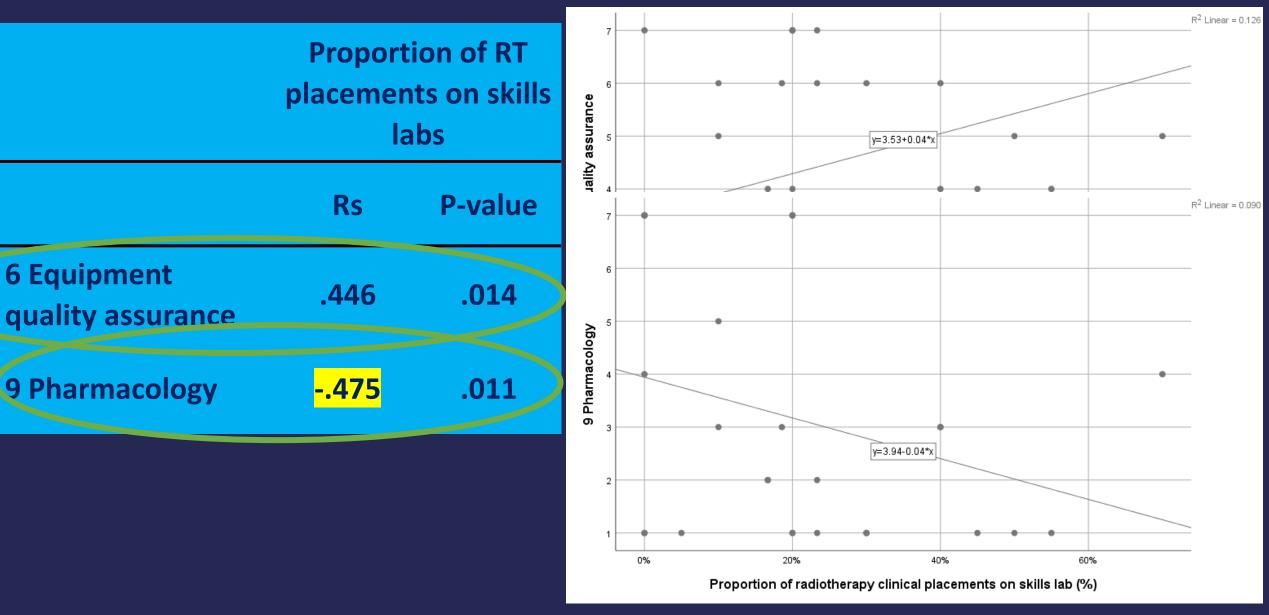


Proportion of course dedicate to RT

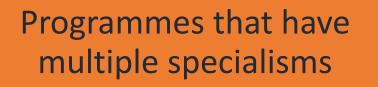




Proportion of rt clinical placements on skills labs



Conclusions



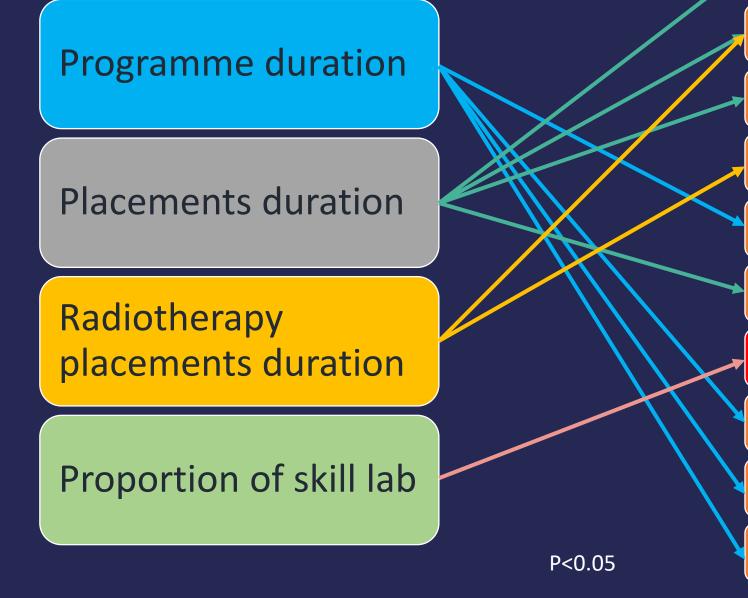
↓ proportion of: course in RT

placements in RT

Competencies in:
File verification
Positioning & immobil.
Equipment QA

P<0.05

P<0.05



1 Radiation safety

2 File verification

5 Image verification of patient setup

6 Equipment quality assurance

7 Professional and ethical practice

8 Patient care

9 Pharmacology

10 Research and education

11 Quality and risk management

13 Decision making

There are competencies that must be further developed



Education programmes should have adequate:

Programme and placement durations

Proportion of RT workload and placements

Proportion of skills lab placements

... TO ACHIEVE HIGHER LEVELS OF COMPETENCY IN RT

NEXT STEPS

Interviews of stakeholders regarding these differences

Webinars







INTERNATIONAL CONFERENCE ON MEDICAL IMAGING & RADIOTHERAPY



7th - 9th February 2020 SAFE EUROPE Project

LOCATION: Radisson Blu Resort St Julian's, Malta



Questions ③?

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Thank You!

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- European Parliament, European Council, 2005. Directive 2005/36/EC of the European Parliament and of the Council on the recognition of professional qualifications [WWW Document]. URL <u>http://eurlex.europa.eu/LEXUriServ/LexUriServ.do?uri=OJ:L:2005:255:0022:0142:EN:PDF</u> (accessed 7.2.17).
- European Parliament, European Council, 2013. Directive 2013/55/EU amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System ('the IMI Regulation').
- University of Otago, Wellington, 2014. Becoming a Radiation Therapist What is it really like?. <u>https://www.youtube.com/watch?v=EraKlnPYZfc</u>