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R. Figueira^{1,2}, E. Poli^{1,3}, J. Isidoro^{1,4}

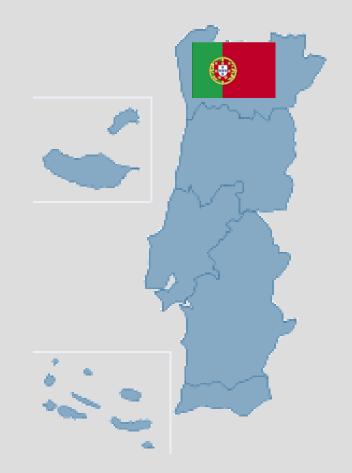
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Introduction

During 2015 DFM-SPF (Medical Physics Division of the Portuguese Physics Society) conducted a survey for the characterization of the Medical Physics situation in Portugal.

Among other questions, participants were asked to identify the Strengths, Weaknesses, Opportunities and Threats (SWOT) of the profession.





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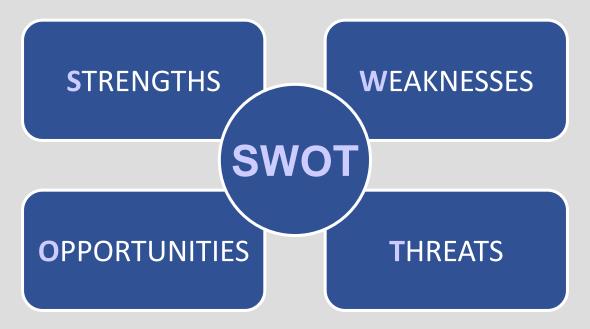
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Purpose

The purpose was to conduct a SWOT analysis of the current situation of Medical Physics in Portugal, contributing for the strategic development of the profession and for the identification of potential actions to be taken to improve the situation.







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Materials and Methods

The SWOT analysis was conducted considering a chosen objective for the profession:

"To improve the status of the profession in Portugal and to bring it closer to the new european standards as defined in the BSS Directive, RP174 and EFOMP Policy Statements"





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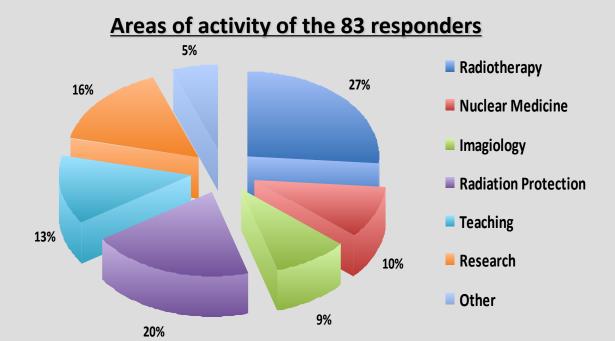
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Materials and Methods

The responses from 83 professionals were analysed. From previous data, we estimate that about 100 physicists are working full time in hospitals and about another 20 in areas such as teaching or research.





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Materials and Methods

The collected data was used to create a **SWOT matrix** identifying common **S**trengths, **W**eaknesses, **O**pportunities and **T**hreats.

S TRENGTHS	W EAKNESSES	O PPORTUNITIES	T HREATS
Internal Factors		External Factors	
Likely to have a positive effect on achieving the defined objective for the profession	Likely to have a negative effect on achieving the defined objective for the profession	Likely to have a positive effect on achieving the defined objective for the profession	Likely to have a negative effect on achieving the defined objective for the profession





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Materials and Methods

The analysis was then directed to design appropriate actions that could successfully lead to strategic outcomes to the profession.

	Opportunities (external, positive)	Threats (external, negative)
Strengths (internal, positive)	Strength-Opportunity strategies Which of the profession's strengths can be used to maximize the identified opportunities?	Strength-Threats strategies How can we use the profession's strengths to minimize the identified threats?
Weaknesses (internal, negative)	Weakness-Opportunity strategies What action(s) can we take to minimize the profession's weaknesses using the identified opportunities?	Weakness-Threats strategies How can you minimize the profession's weaknesses to avoid identified threats?



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Results

According to the professional **Strengths**, the following strategies were identified to accomplish the established objective:

	O PPORTUNITIES (external, positive)	THREATS (external, negative)
	Strength-Opportunity strategies	Strength-Threats strategies
S TRENGHTS (internal, positive)	 -Use the competence of professionals to assist authorities in the transposition of the BSS directive. -Use the international influence to pressure national authorities to require proper support of MP to new centers and equipments. - Use the dedication and commitment of professionals to promote quality and patient safety. 	 -Improving qualification and competence of MP (by CPD) will demonstrate a better fitness for the job than other professionals. - Get support from international organizations to alert authorities about the need to clarify the existing legislation (proper education & training framework, professional recognition)





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Results

The **S**trengths, **W**eaknesses, **O**pportunities and **T**hreats more frequently pointed out were:

S TRENGTHS	W EAKNESSES	O PPORTUNITIES	T HREATS
Internal Factors		External Factors	
- Qualification and	- Lack of professional	- Implementation of the	- Pressure from other
competence of the	recognition	new BSS directive	professional, like
existent professionals			radiographers and
	- Unexistence for many	- Fast technological	biomedical engineers
- Effort, dedication,	years of a training and	evolution	
commitment of the	qualification framework		- Arrival of foreigners
professionals		- Available resources,	with recognized
	- Reduced number of	namely new RT centers	qualifications
- Relationships with	professionals in areas like	with top level equipment	
partner organizations as	D&IR		- Lack of regulations /
EFOMP, IOMP, as well as		- National/international	Unclear legislation
collaborative projects	- Lack of internal	focus on quality and	
with IAEA	cohesion and disinterest	patient safety	- Economical crisis
	of some professionals		



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Results

According to the professional **Weaknesses**, the following strategies were identified to accomplish the established objective:

	OPPORTUNITIES (external, positive)	T HREATS (external, negative)
W EAKNESSES (internal, negative)	Weakness-Opportunity strategies -Use the implementation of the new BSS directive as an opportunity to clarify MP tasks and responsibilities (establish professional recognition) - Be present on strategic national events to promote the profession (and the requirements of technological evolution) amongst	Weakness-Threats strategies - Promote awareness of the advantage of MP in the clinical team (expert input from the MP) - Promote the creation of a MP professional organization and implementation of professional registration/recognition
	other health professional namely Radiologists	- Promote training courses and CPD



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Conclusion

A SWOT analysis has been employed with success and in this case was a useful tool in providing guidance to the Portuguese medical physicists to develop a strategic action plan to improve the current situation of the profession.

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