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Physiotherapy Education

TRACK 3 - SCIENCE IN PHYSIOTHERAPY

Poster Presentation

Understanding the landscape of technology in the Physiotherapy Education a descriptive analysis through bibliometrics

António Alves Lopes¹, Lidia Carballo-Costa²

¹Department of Physiotherapy, Escola Superior de Saúde do Alcoitão / Alcoitão School of Health Sciences, Estoril, Portugal

²Universidade da Coruña/ University of A Coruña, Faculty of Physiotherapy, Department of Physiotherapy, Medicine and Biomedical Sciences

Background

The usage of technology, in Physiotherapy practice and education, is still growing, with also a possible impact on research.

However, the increase of the number of scientific publications make it difficult to know the scientific structure and development of a field.

Visualization techniques based on bibliometric data are useful for the understanding of scientific fields.



Objective

To identify the major trends in literature, related to the usage of technology, in Physiotherapy practice and education.



Methods

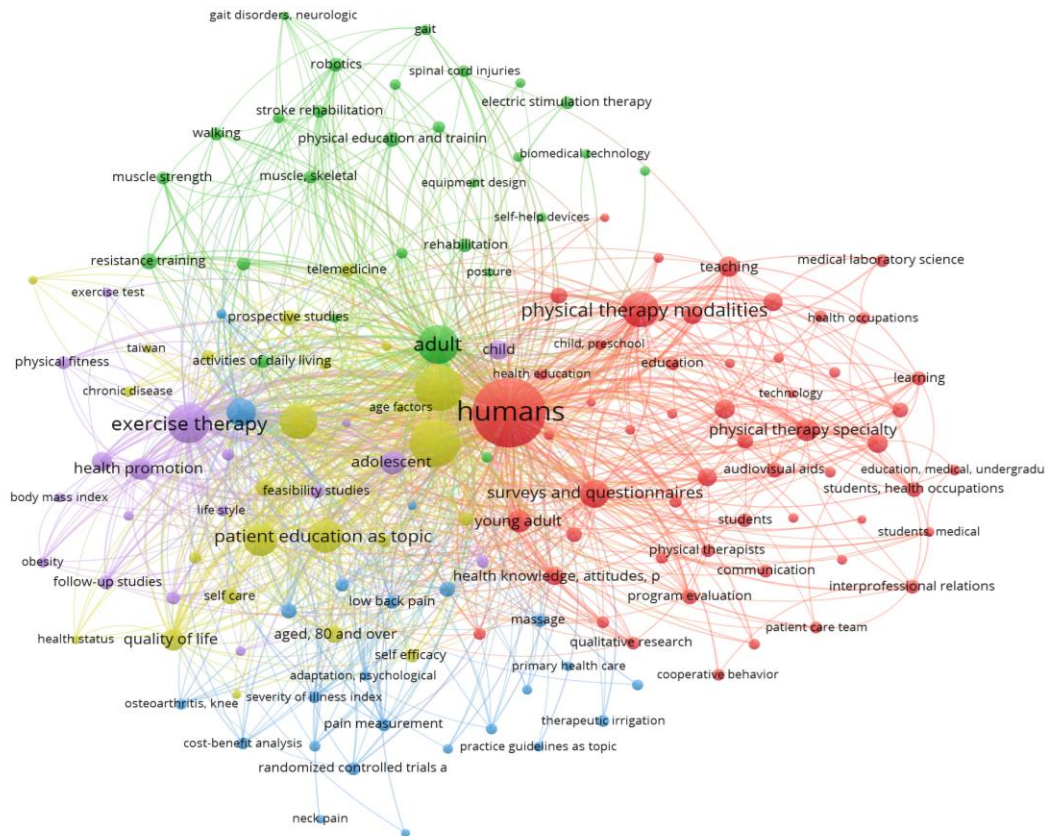
This was a bibliometric, descriptive and retrospective study. We identified publications from **Web of Science** and **Pubmed** databases related to technology in physiotherapy education.

From the titles and abstracts of these publications, authors selected the main terms related to the field, extracted by **VOSviewer** software, to create a visualization of the most important topics studied in the literature.

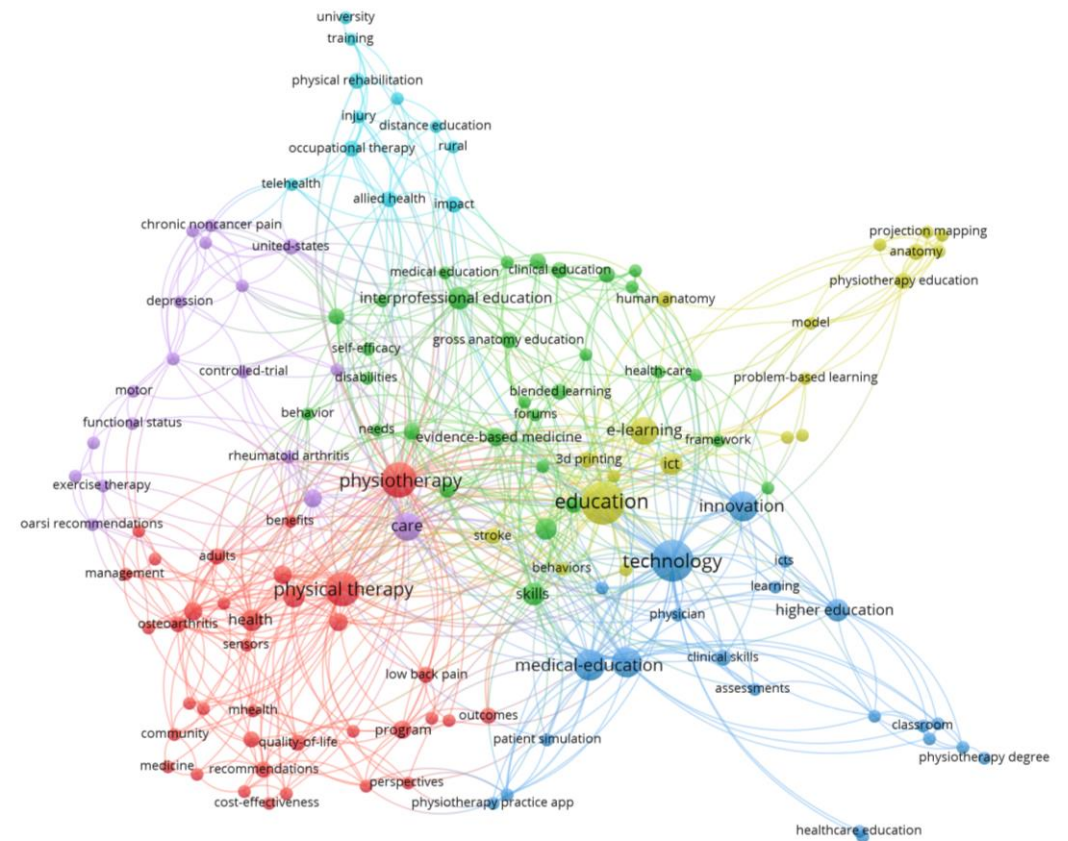


Results

A total of 648 publications were identified in PubMed and 137 in Web of Science.



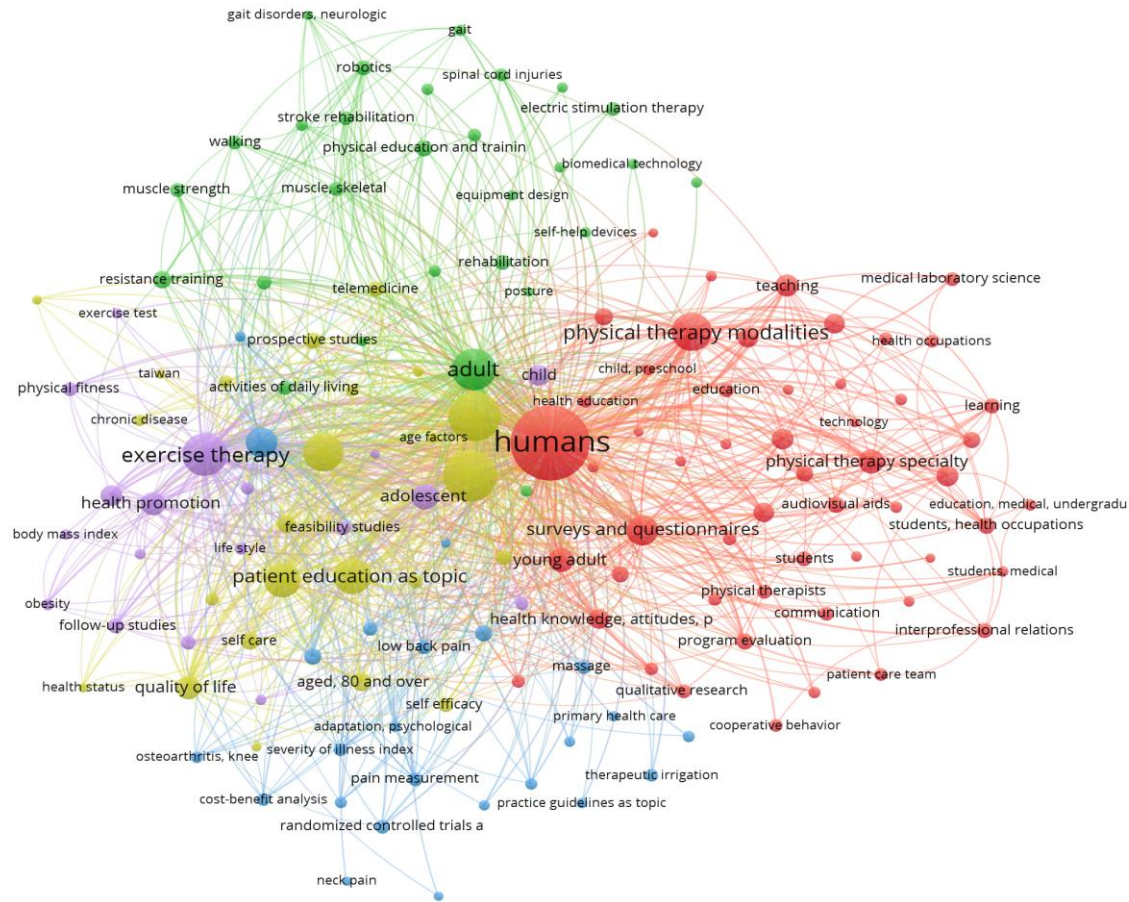
PubMed



Web of Science



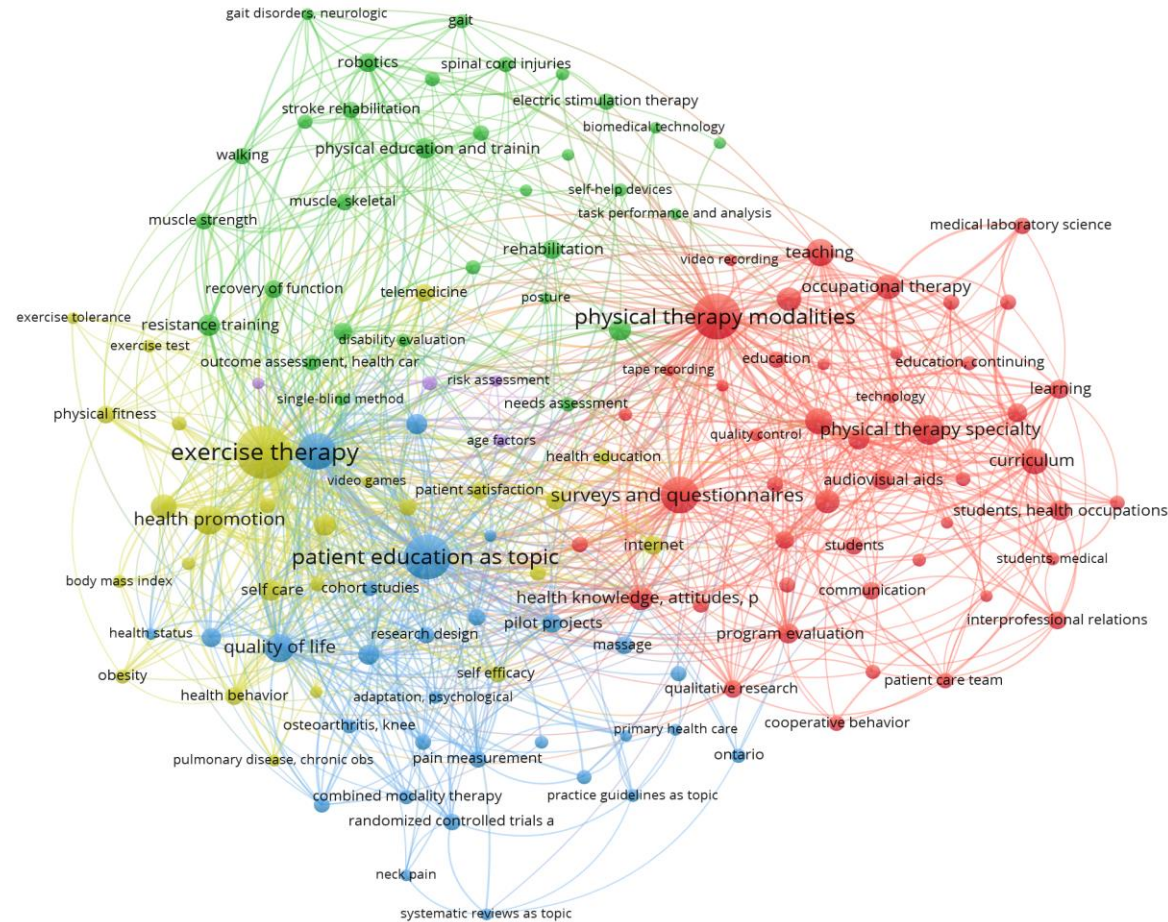
Results

 VOSviewer

After clusterization of the two groups of terms, we could identify that, in the case of **Pubmed**, the main associations with technology seem to be in: the context of teaching/learning of the intervention in Physiotherapy; as a tool to facilitate the patient education; and for the prescription and implementation of exercise programs.



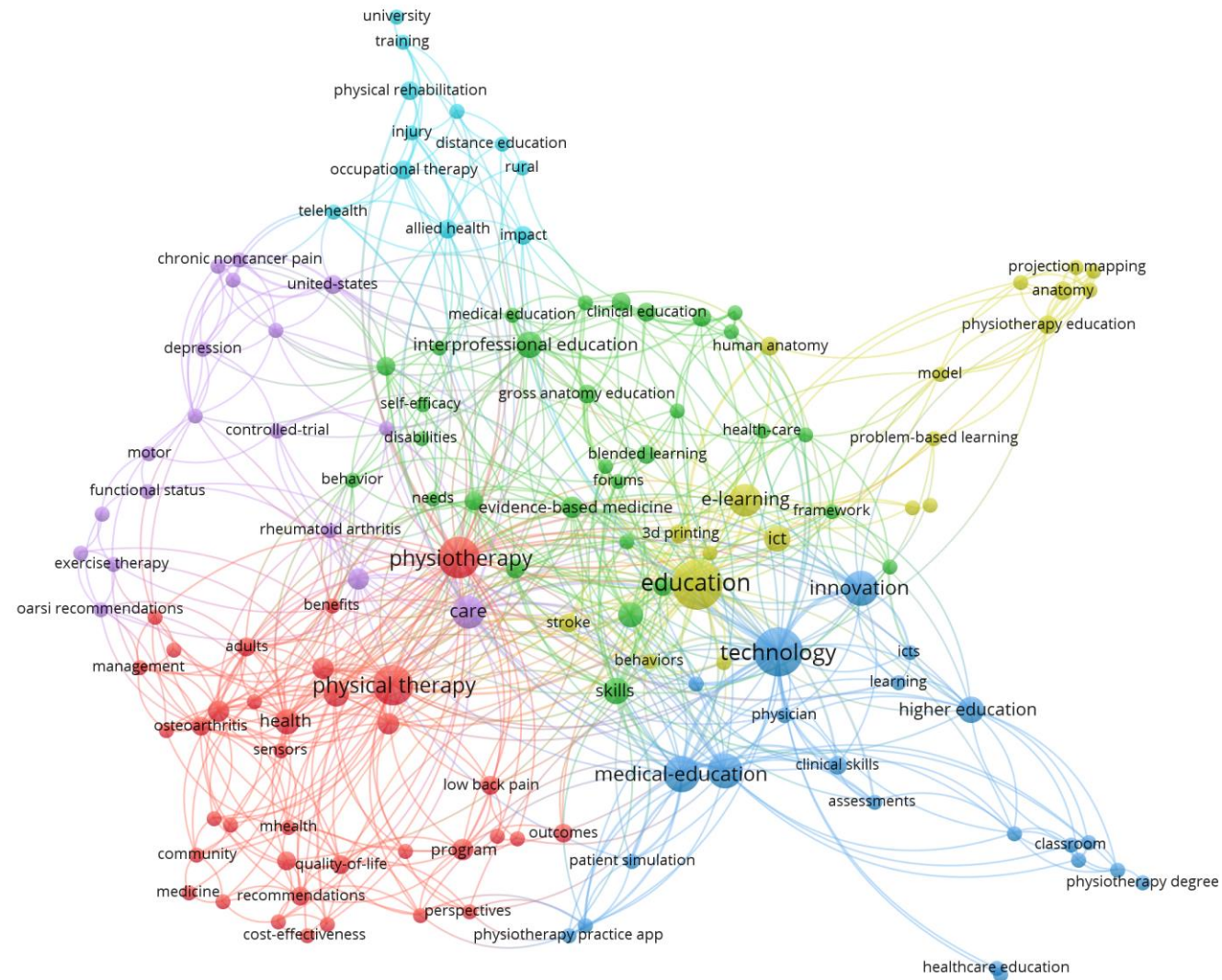
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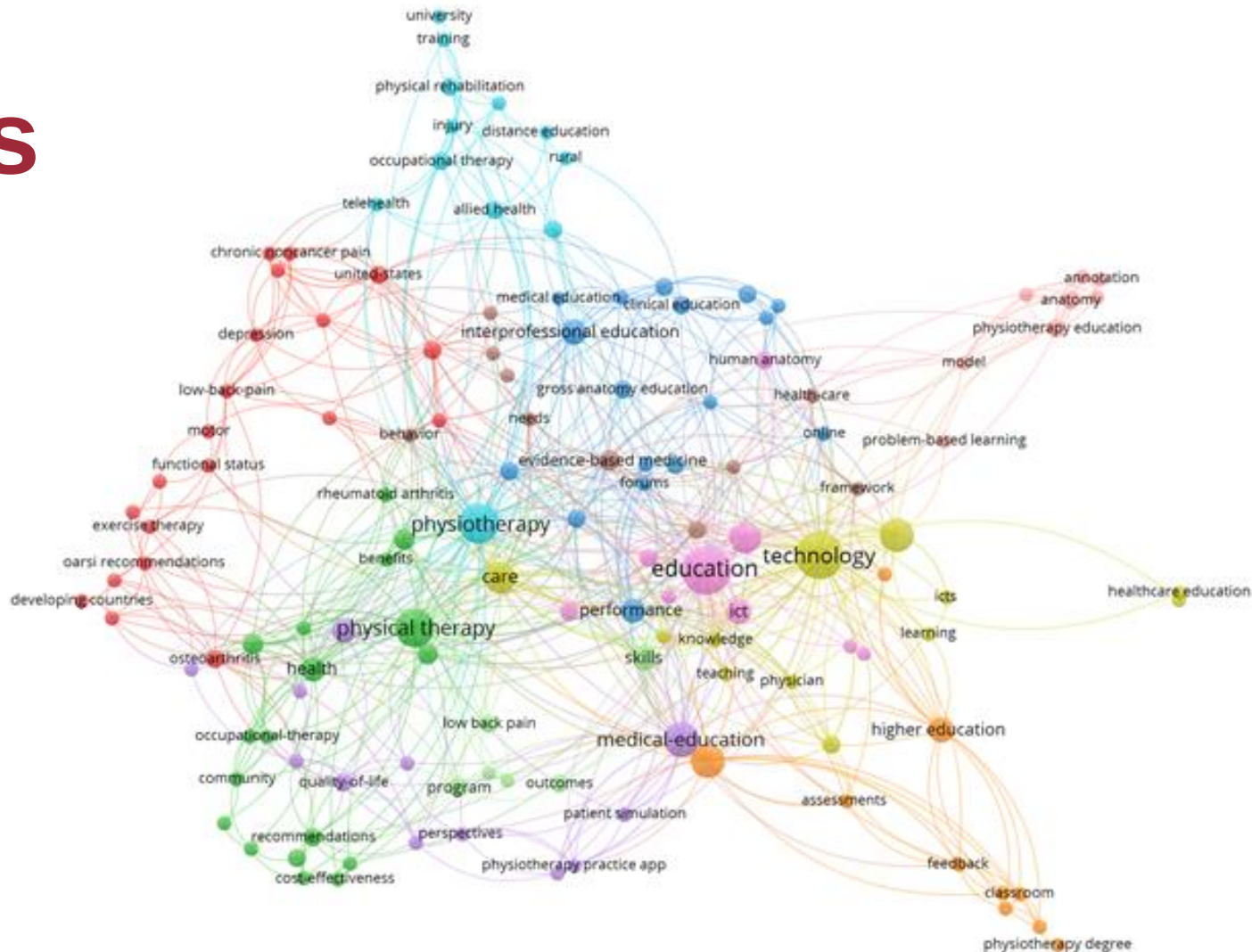


In relation to **Web of Science** database we could identify similar patterns with topics like teaching/learning of the intervention in Physiotherapy and Physiotherapy process, but also a big emphasis in the association between the topics Education and Technology.

In both databases we could see that this is a recent topic, starting in Pubmed after 2006.



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Discussion

In both databases the scope of the analysis revealed different topics covered by Pubmed and Web of Science.

This is related to their type of literature coverage and suggests the need for using more than one database when researching.

Their distinct features make it impossible to compare other aspects like, most productive countries or institutions.



Conclusions

In our search, although **Web of Science** and **Pubmed** have different topic coverage, most of them are related to use of technology applied to the **context of intervention** (including the several steps of the Physiotherapy Process) but also in the **education of students and patients**.



Contact Information

- António Alves Lopes -
antonio.alopes@essa.scml.pt
- Lidia Carballo-Costa –
lidia.carballo@udc.es

SCAN ME

