

**Table S3.** Scoping review's search strategy

Step 1: Search strategy in two databases

The authors used Webb et al's systematic review search strategy [27]. PubMed's strategy considered "Students, Medical [MeSH term] AND leadership [MeSH term] or leadership [all field] AND curriculum". As one could notice the curriculum term did not mention if it was used as a "MeSH", "Title and abstract" or "all field".

Medline via PubMed.

Date of search	March 17th 2021
Search String	((LEADERSHIP) AND (Students, Medical[MeSH Terms])) AND (Curriculum[MeSH Terms])
Analysis of the text words and index terms contained in the title and abstract.	Index terms: -Population: Students, Medical [MeSH terms]. -Concept: Leadership [ All field] and Curriculum [MeSH terms]. -Context: Not applicable.
Mesh words were selected based on the National Center for Biotechnology Information ( NCBI).	Title and abstract: The search strategy did not contain title and abstract domains.
Hits	168 results

## LILACS ( Search Strategy in Spanish)

<b>Date of search</b>	<b>March 17th 2021</b>
Search String	Estudiantes [Categoria DeCS] and liderazgo [Palabras] and curriculum [Categoria DeCS]
Analysis of the text words and index terms contained in the title and abstract.	Search Strategy 1  -Population: Estudiantes (DeCS)  -Concept: Liderazgo (palabras) and Curriculum (DeCS)  -Context: Not applicable.
Titles and abstracts can be in English, Spanish and/or Portuguese.	
Hits	0 results

## Step 2: Search strategy in each database.

Six databases were covered in this scoping review.

1. Medline via PubMed,
2. Embase via Ovid,
3. Education Resources Information Center,
4. Virtual Health Library,
5. Health Information from Latin America and the Caribbean Countries, and
6. Google scholar

### Medline via PubMed.

Date of search	June 4th 2021.
Search String	1.Students, Medical [Mesh].  2.Medical student* [ ti/ab].  3.Health profe* student* [ti,ab].  4.Public health profe* [ti,ab].  5.#1 OR # 2 OR # 3 OR # 4 OR #5  6.Leadership [ Mesh].  7.Leadership [ti/ab].  8.#6 OR # 7  9.Curriculum [ Mesh]

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10.Competency-Based Education [ Mesh]

11.Education, Public Health Professional [Mesh]

12.Education, Medical [MeSH]

13.competency framework [ti/ab]

14.competency-based education [ ti/ab].

15.undergraduate medical education [ti/ab]

16.Education, Medical, Undergraduate [MeSH]

17. #9 OR # 10 OR # 11 OR # 12 OR #13 OR #14 OR #15 OR #16

18.Language Spanish

19.Language English

20.Language Portuguese

21.#18 OR #19 OR #20

22.# 5 AND #8 AND # 17 AND # 21 AND Date publication 1/1/1970

to present

((((((((Students, Medical[MeSH Terms])) OR (Medical  
student\*[Title/Abstract])) OR (Health profe\* student\*[Title/Abstract]))  
OR (Public health profe\*[Title/Abstract])) AND ((Leadership[MeSH  
Terms]) OR (Leadership[Title/Abstract])) AND  
(((((((Curriculum[MeSH Terms]) OR (Competency-Based  
Education[MeSH Terms])) OR (Education, Public Health  
Professional[MeSH Terms])) OR (Education, Medical[MeSH Terms]))  
OR (competency framework[Title/Abstract])) OR (competency-based

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	education[Title/Abstract])) OR (undergraduate medical education[Title/Abstract])) OR (Education, Medical, Undergraduate[MeSH Terms])) AND (((Spanish[Language]) OR (English[Language])) OR (Portuguese[Language])) AND (("1970/01/01"[Date - Publication] : "3000"[Date - Publication]))
Analysis of the text words and index terms contained in the title and abstract.	<u>Index terms:</u> -Population: Students, Medical [Mesh]. -Concept: Leadership [ Mesh]. -Context: Curriculum [ Mesh],Competency-Based Education [ Mesh] Education, Public Health Professional [Mesh], Education, Medical [MeSH] and Education, Medical, Undergraduate.
Mesh words were selected based on the National Center for Biotechnology Information (NCBI).	<u>Title and abstract:</u> -Population: Medical student* ( ti/ab), health profe* students ( ti,ab), Public health profe* ( ti,ab). -Concept: leadership ( ti/ab). -Context: competency framework ( ti/ab), competency-based education ( ti/ab), undergraduate medical education [ti/ab]
Hits	912

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Embase via Ovid

Date of search	June 4th 2021.
Search String	1.medical student [Subject Heading]  2.health student [subject heading]  3.Medical student* ti  4.Medical student* ab  5.health profe* student* ti.  6.health profe* student* ab.  7.public health profe* ti  8.public health profe* ab  9.#1 OR # 2 OR # 3 OR # 4 OR #5 OR # 6 OR #7 OR # 8  10.Leadership [Subject Heading].  11.leadership ti.  12.leadership ab.  13.#10 OR # 11 OR # 12  14.medical education [ Subject Heading]  15.curriculum[ Subject Heading]  16.competency-based education ti  17.competency-based education.ab.  18.curriculum ti.

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19.curriculum ab.

20.undergraduate medical education ti

21.undergraduate medical education ab

22.#14 OR # 15 OR # 16 OR # 17 OR #18 OR # 19 OR #20 OR # 21

23.Spanish.lg

24.English.lg

25.Portuguese .lg

26.# 23 OR # 24 OR # 25

27.#9 AND # 13 AND # 22 AND # 26

(medical student or health student).sh. or Medical student\*.ti. or

Medical student\*.ab. or health profe\* student\*.ti. or health profe\*

student\*.ab. or public health profe\*.ti. or public health profe\*.ab.

leadership.sh. or leadership.ti. or leadership.ab.

(medical education or curriculum).sh. or competency-based

education.ti. or competency-based education.ab. or curriculum.ti. or

curriculum.ab. or undergraduate medical education.ti. or undergraduate

medical education.ab.

(spanish or english or portuguese).lg.

a and b and c and d

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Analysis of the text words and index terms contained in the title and abstract.	<u>Index terms:</u>  -Population: medical student [Subject Heading], health student [subject heading]  -Concept: Leadership [Subject Heading].  -Context: medical education [ Subject Heading], curriculum[ Subject Heading],
Emtree (Embase subject headings)	<u>Abstract:</u>  -Population: Medical student*ti.ab., health profe* student* ti.ab., public health profe* ti.ab.  -Concept: leadership ti.ab.  -Context: competency-based education ti.ab., curriculum ti.ab., undergraduate medical education ti.ab.
Hits	1281



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Date of search	6th June 2021
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Search String	1.KW medical students
	2.TI public health student
	3.AB public health student
	4.TI health student
	5.AB health student
	6. #1 OR #2 OR #3 OR #4 OR #5
	7.TX leadership
	8.TX education
	9.TX training leadership
	10. #8 OR #9
	11. #6 AND #7 AND #10
	 ( KW medical students OR TI public health student OR AB public health student OR TI health student OR AB health student ) AND TX leadership AND TX ( education or traning leadership )
	 Limiters - Date Published: 19700101-20211231
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Analysis of the text	terms:
words and index	-Population: KW medical students, TI public health student, AB public
terms contained in	health student, TI health student , AB health student
the title and abstract.	
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	-Concept: TX leadership
	-Context: TX education, TX training leadership
Hits	255

### Virtual Health Library

<b>Date of search</b>	<b>6th June 2021.</b>
Search String	Titulo, resumen y asunto: (estudiante) AND (liderazgo) AND (educación ) AND ( la:("en" OR "pt" OR "es")) AND (year_cluster:[1970 TO 2021])
Analysis of the text words and index terms contained in the title and abstract.	Search Strategy 1  -Population: estudiante  -Concept: liderazgo  -Context: Educación
Hits	470

## LILACS ( Search Strategy in Spanish)

<b>Date of search</b>	<b>6th June 2021</b>
Search String	Estudiante[ palabra] AND liderazgo [ palabra] AND educación [ palabra]
Analysis of the words	<p>Search Strategy 1</p> <p>-Population: estudiantes (palabras)</p> <p>-Concept: Liderazgo (palabras).</p> <p>-Context: Educación(palabras)</p>
Hits 1 ( too narrow the search strategy) ( excluded)	74
Date of Search	June 9th 2021
Search String	Liderazgo [palabra] and educación or educación basada en competencias. [palabra]
Analysis of the words	<p>Search Strategy 1</p> <p>-Population: No included</p> <p>-Concept: Liderazgo (palabras).</p> <p>-Context: Educación(palabras) or educación basada en competencias (palabras).</p>

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Hits 2 final search (	440
included )	

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LILACS ( Search Strategy in Portuguese )

Date of search	6th June 2021.
Search String	estudantes [ palavra] AND Liderança [ palavra] AND Educação [ palavra]
Analysis of the text words.	Search Strategy 1  -Population: estudantes (palavras)  -Concept: Liderança (palavras).  -Context: Educação (palavras)
Hits 1 too narrow the search strategy ( excluded)	66
Date of search	9th June 2021
	-Population: No aplicable  -Concept: Liderança (palavras).  -Context: Educação (palavras) or Educação baseada em competencias
Hits 2: final search ( included)	421

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## Google Scholar

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Date of search	11th June 2021
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Search String 1	Find articles
	with all of the words: health students
	with the exact phrase: leadership
	with at least one of the words: education, curriculum, training
	without the words: Not applicable
	where my words occur:
	Return articles dated between: 1970-2021
	Search English, Portuguese, Spanish
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Analysis of the text	-Population: health students
words.	-Concept: leadership
	-Context: education, curriculum, training
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Hits 1 ( included)	11
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Search String 2	Find articles
	with all of the words: health professions
	with the exact phrase: leadership
	with at least one of the words: education, curriculum, training
	without the words: Not applicable
	where my words occur:
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	Return articles dated between: 1970-2021
	Search English, Portuguese, Spanish
Analysis of the text words	-Population: health students -Concept: leadership -Context: education, curriculum, training
Hits 2 ( included)	20
Search String 3	Find articles with all of the words: public health with the exact phrase: leadership with at least one of the words: education, curriculum, training without the words: Not applicable where my words occur: Return articles dated between: 1970-2021 Search English, Portuguese, Spanish.
Analysis of the text words	-Population: public health -Concept: leadership -Context: education, curriculum, training.
Hits 3 ( included)	95

Total hits and last search 11th June 2021.

Total hits: $912 + 1281 + 255 + 470 + 440 + 421 + 11 + 20 + 95 = 3905$
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