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# Elaboración de un protocolo de revisión sobre la enseñanza de Hidrología Médica en la Universidad

Lorena Vela, Tatiana Muller, Fernando Hellmann, Francisco Maraver

Universidad Complutense Madrid



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Docencia Actual  
en UCM



Scoping review



Elaboración de  
un protocolo de  
revisión

# Hidrología Médica

# Actualidad de la Docencia de la Hidrología Médica en UCM

**AGUAS DE CONSUMO  
MINEROMEDICINALES -  
grado de Ciencia y  
Tecnología de los  
Alimentos (2000-01)**

**ACTIVIDADES, TERAPIA  
ACUÁTICA Y  
BALNEOTERAPIA -  
grado de Terapia  
Ocupacional (2002-03)**

**HIDROTERAPIA,  
BALNEOTERAPIA,  
CLIMATOTERAPIA,  
TALASOTERAPIA -  
Grado de Fisioterapia  
(2010-11)**

**HIDROLOGÍA Y  
CLIMATOLOGÍA  
MÉDICA - grado de  
Medicina (1994-1995)**

**AGUAS ENVASADAS -  
grado de Nutrición  
Humana y  
Dietética (2003-04)**

**ASPECTOS SOCIO-  
SANITARIOS DEL  
TERMALISMO - Máster  
Salud, Integración y  
Discapacidad (2012-13)**

**INVESTIGACIÓN  
BIOMÉDICA  
Doctorado Ciencias  
Biomédicas (2012-13)**



# SCOPING REVIEWS

La síntesis de evidencia abarca una amplia gama de tipos de revisión, y las Scoping Reviews son un enfoque cada vez más popular para sintetizar evidencia en múltiples campos.



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# SCOPING REVIEWS

Las Scoping Reviews son un enfoque común para la síntesis de evidencia.

Para investigadores, médicos y formuladores de políticas en una variedad de campos.

Las Scoping Reviews no se ocupan de hacer comparaciones analíticas basadas en agrupar datos de resultados de múltiples fuentes primarias de evidencia.

Se ocupan de agrupar y describir la evidencia y presentar el resumen en un formato claramente ilustrado.

# SCOPING REVIEW

## ETAPAS DE LA REVISIÓN:

(1) elaboración de la pregunta de investigación y definición de palabras clave;

(2) realización de la investigación;

(3) selección de documentos, a partir de la lectura de títulos y resúmenes, siguiendo los criterios de inclusión y exclusión;

(4) lectura completa y categorización de los documentos incluidos;

(5) resumen y análisis de los hallazgos;

6) presentación de los principales resultados.



## 1. PREGUNTA DE INVESTIGACIÓN:

Definida por el método PCC (población, concepto y contexto).

“¿Qué evidencia e información existe sobre la capacitación y la enseñanza en hidrología médica y términos relacionados?”



## 2. REALIZACIÓN DE LA INVESTIGACIÓN:

- Elaboración del protocolo siguiendo la metodología PRISMA para Scoping Reviews
- Registro del protocolo de Scoping Reviews



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**3. Selección de documentos, a partir de la lectura de títulos y resúmenes, siguiendo los criterios de inclusión y exclusión**



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- Hidrología Médic... ▾

Teams + ▸

### Hidrología Médica: a scoping review

Overview Review Data Screening

Name	Email	Role	Status
tatiana.leitemuller@gmail.com Tatiana Leite Müller	tatiana.leitemuller@gmail.com	Owner	Active
marialorenavela@ucm.es	marialorenavela@ucm.es	Reviewer ▾	Active ...

#### Data Summary

<p>Imported References</p> <p><b>11,947</b></p> <p>Add References</p>	<p>Total Duplicates</p> <p><b>541</b></p> <p>Detect Duplicates</p>	<p>Unresolved Duplicates</p> <p><b>0</b></p> <p>Continue Resolving</p>	<p>Resolved Duplicates</p> <p><b>541</b></p> <p>More Details</p>
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# Hidrología Médica: a scoping review

Overview Review Data Screening



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Showing 11,801 Articles

PICO Auto:

All Articles ^

Sort

Filter by Inclusion

All Articles 11,801

Undecided 0

Excluded 11,743

Maybe 12

Included 46

Human resources as main factor for the c

Date: 2021-01-01

Dimitrov, S; Dimitrova, T

Tatiana competências da EIP mestrado turismo

MEDICO-GEOGRAPHICAL ANALYSIS OF THE

Date: 2021-01-01

Patarchanov, Plamen

Tatiana não formação/educ

A proposal for a worldwide definition of health resort medicine, balneology, medical hydrology and climatology

Tatiana não formação/educ

1

### Publication Types:

Journal Article.

### Topics:

ANKYLOSING-SPONDYLITIS, Balneology, balneotherapy, classification, Climatology, Curriculum, DEAD-SEA, Definitions, Health resort medicine, Health Resorts, human, Humans, international cooperation, Internationality, LAND-BASED EXERCISE, LONG-TERM EFFICACY, Medical hydrology, meteorology, Meteorology, methodology, MUD PACK TREATMENT, NATURAL SULFUR BATHS, public health service, QUALITY-OF-LIFE, RANDOMIZED CONTROLLED-TRIAL, review, RHEUMATOID-ARTHRITIS, SPA-EXERCISE THERAPY, Specialist training, specialization, Specialization, standard, water supply, Water Supply.

Include

Maybe

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Exclude with Reasons ^

Label ^



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# Hidrología Médica: a scoping review

Search

Overview Review Data Screening

Showing 11,801 Articles

PICO Auto Scroll Blind On Compute Ratings

All Articles

Sort

Date: 1998-01-01

Agishi, Yuko; Ohtsuka, Yoshinori

Tatiana não formação/educ Japão

Spa treatment for primary fibromyalgia sy

Date: 2005-01-01

Zijlstra, TR; van de Laar, Mart AFJ; Bernelot Moens

1 Tatiana não formação/educ Holanda

From **in vitro** research to real life studies: a

Date: 2021-01-01

Maccarone, MC; Magro, G; Solimene, U; Scanu, A;

Tatiana não formação/educ

A Study on the Actual Condition of Commu

Date: 2006-01-01

Yoon, Seong-In; Park, Gong-Ju; Yoon, Soon-Duck

Tatiana sem muitas informações

Spa treatment for primary fibromyalgia syndrome: a combination of **thalassotherapy**, exercise and patient education improves symptoms and quality of life

Tatiana não formação/educ Holanda

1

## Publication Types:

Journal Article.

## Topics:

adult, Adult, article, Beck depression inventory, clinical **trial**, CLINICAL-**TRIAL**, Combined Modality Therapy, controlled clinical **trial**, **controlled study**, CONTROLLED-**TRIAL**, exercise, Exercise, female, Female, fibromyalgia, Fibromyalgia, follow up, Health Status Indicators, health **survey**, health-related quality of life, Health-related quality of life, HEALTH-STATUS, human, Humans, IMPACT QUESTIONNAIRE, kinesiotherapy, major clinical study, male, Male, middle aged, Middle Aged, multimodality cancer therapy, PAIN, patient education, Patient Education, patient selection, Patient Selection, priority journal, PROGRAM, psychological aspect, Psychometrics, psychometry, quality of life, Quality of Life, questionnaire, **randomized controlled trial**, scoring system, SELF-

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## Hidrología Médica: a scoping review

Overview Review Data Screening



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Showing 11,743 filtered out of 11,801 Articles

PICO

Excluded

Sort

A proposal for a worldwide definition of he

Date: 2010-01-01

Gutenbrunner, Christoph; Bender, Tamas; Cantis



X Tatiana

não formação/educ

Notes

Tatiana

não é sobre formação/educação

MEDICO-GEOGRAPHICAL ANALYSIS OF THE

Date: 2021-01-01

Patarchanov, Plamen

X Tatiana

não formação/educ

Effectiveness of comprehensive education

Date: 2003-01-01

Kamioka, Hiroharu; Okada, Shinpei; Mutoh, Yoshit

X Tatiana

não formação/educ

X A proposal for a worldwide definition of health resort medicine, balneology, medical hydrology and climatology

X Tatiana

não formação/educ

1



International Journal of Biometeorology - Volume 54, Issue 0, pp. 495-507 - published 2010-01-01.

System ID:

719457560.

Search Methods:

Uploaded References [Revisão de Escpo - depois de duplicados Zotero - 19.3.24.ris].

Tatiana:

não é sobre formação/educação



✓ Include

? Maybe

X Exclude

Exclude with Reasons

Label



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### Hidrología Médica: a scoping review

Overview Review Data Screening

Showing 9 filtered out of 11,801 Articles

PICO Auto Scroll Blind On Compute Ratings ...

All Articles AND  health resort medicine

Clear

#### Filters

All Articles

Sort

A proposal for a worldwide definition of

Date: 2010-01-01

Gutenbrunner, Christoph; Bender, Tamas; Ca...

Tatiana não formação/educ

A proposal for a worldwide definition of **health resort medicine, balneology, medical hydrology and climatology**

Tatiana não formação/educ

#### Publication Types:

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Include

Maybe

Exclude

Exclude with Reason: ^

Label ^



Add note

<input type="checkbox"/>	placebo controle...	21
<input type="checkbox"/>	cross over	19
<input type="checkbox"/>	thalassotherapy	17
<input type="checkbox"/>	parallel group	16
<input type="checkbox"/>	double blinded	10
<input checked="" type="checkbox"/>	health resort me...	9
<input type="checkbox"/>	CCT	4
<input type="checkbox"/>	parallel groups	3
<input type="checkbox"/>	controlled design	3
<input type="checkbox"/>	doubleblind	1
<input type="checkbox"/>	peloide	0
<input type="checkbox"/>	double marked	0
<input type="checkbox"/>	doubleblinded	0
<input type="checkbox"/>	single masked	0
<input type="checkbox"/>	hidrologia medica	0

A Conceptual Framework of Forest Ther

Date: 2021-01-01

Immich, Gisela; Schuh, Angela

Tatiana não formação/educ  Alemanha

**Health resort medicine** can be a suitabl

Date: 2020-01-01

Masiero, Stefano; Maccarone, Maria Chiara; A

Tatiana não formação/educ

Historical aspects of the formation and

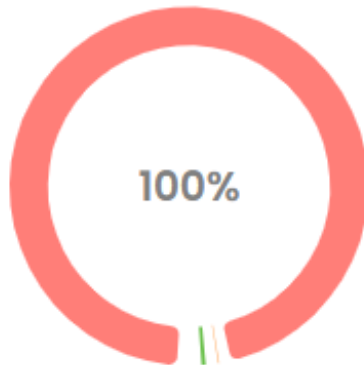
Date: 2004-01-01

## Hidrología Médica: a scoping review

[Overview](#) [Review Data](#) [Screening](#)

Screening ( [Blind On](#) )

Your Progress



You Screened all articles! 🎉

0

Articles left to screen

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10:10



Teste - Piloto - Scoping  
Review



Select

Sort

Filter

423/424 decisions left



1/424

System ID: 726549894

Termoterapia associada com  
treinamento de flexibilidade não  
aprimora a amplitude de movimento  
de joelhos em adultos saudáveis:  
revisão sistemática de ensaios clínicos  
randomizados com meta-análise

Published on 2023-03-01

Authors: Ferreira, Luis FernandoOliveira, Arielle  
Rosa deRosa, Luis Henrique Telles da

Journals: Acta fisiátrica - Volume 30, Issue 1, pp.  
55-62 - published 2023-03-01

Topics: CryotherapyCrioterapiaHyperthermia,  
InducedMuscle Stretching  
ExercisesThermotherapyExercícios de  
Alongamento MuscularHipertermia  
InduzidaTermoterapia

#### Abstract :

The stretching with thermotherapies associated have been related in the literature as a way to increase the range of motion (ROM), but still are not consensus about this efficacy and costeffectiveness. The muscle stretching

# SCOPING REVIEW




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WORK  
  
in progress

(4) lectura completa y categorización de los documentos incluidos;

(5) resumen y análisis de los hallazgos;

6) presentación de los principales resultados.

# CONCLUSIONES



Relevancia de la IA y el uso de softwares avanzados en la investigación científica



Campos extensos como la hidrología médica



La sistematización de la investigación mediante estas tecnologías no solo potencia la **precisión** y el **rigor** metodológico, sino que también facilita la **gestión** de grandes volúmenes de información



En el contexto de nuestro protocolo de Scoping Review, el empleo de herramientas digitales ha permitido una **conducción** más **eficiente** y **libre** de **errores** en el proceso de búsqueda y análisis de datos



Estos recursos tecnológicos se revelan como aliados fundamentales del investigador, ofreciendo mecanismos que mejoran la **calidad** y la **fiabilidad** de los estudios científicos



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Doctoranda Tatiana Muller  
tatiana.leitemuller@gmail.com

**GRACIAS POR LA  
ATENCIÓN**

