







# Crowd-sourcing the identification of rehabilitation-relevant review

A Cochrane Rehabilitation initiative

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## **Disclosure**

I have no actual or potential conflict of interest in relation to this presentation









## **Cochrane Rehab Goals - Overview**

- 1. Connect rehab stakeholders globally
- 2. Translate knowledge in rehab
- 3. Register rehab reviews
- 4. Educate rehab stakeholders
- 5. <u>Develop</u> rehab review methods
- 6. Promote Cochrane to Rehab & Rehab to Cochrane









## **Objective**

To identify, collate, and disseminate all Cochrane reviews about rehabilitation interventions









## Background

- "Tagging" work for Cochrane is done in Archie (Cochrane's Information Management System)
- Tagging Cochrane reviews helps with:
  - Developing collections of review on specialist topics
  - Communicating interest in review from a Field to Cochrane Review groups
  - Identification of 'gaps' in the evidence base









## Challenges

- There is no standardised process for Cochrane tagging work
- Definition of "rehabilitation" do not tell us what counts as a rehabilitation intervention.
  - Rehabilitation is: "a set of interventions designed to optimize functioning and reduce disability in individuals with health conditions in interaction with their environment." (WHO, 2017, p.2)
- Rehabilitation is interprofessional
- The scope of rehabilitation varies by professional and region globally
- There are currently over 10,000 titles in the Cochrane Library









### **Method**

- We established an online, relational, membership-drive database, using "Knack" (www.knack.com)
- We put out a call for clinicians to contribute to this tagging work
- Two people (one physician; one AHP) independently screened Cochrane reviews

Here a list of the contributors that have activelly collaborated with the different committees of Cochrane Rehabilitation in 2017.







Monserat Gil Escudero

Madrid, Spain

i-lauliu, opalii

Review Committee Contributor

Zaheer Gill

Review Committee Contributor

outor

Review Committee Contributor

Esra Giray

Istambul, Turkey

Amara Ilyas

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Istambul, Turkey

Cambridge, United Kingdom

Harry Mee

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Nuria Esther Meliàn Cruz

......

Madrid, Spain

Review Committee Contributor

Elizabeta Leonid Popova

Ramova

Bitola, Macedonia





Cristina Anastasia Rapidi

Vanessa A. Seijas









### **Method**

- Disagreements resolved by the Review Committee
- The Review Committe also checked all 'included' reviews
- Results 'tagged' in Archie, and disseminated via: http://rehabilitation.cochrane.org/ evidence



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About us	Evidence	Resources	News & Events	Get Involved	Contac	t us	
Evidence							
List of Cochrane re	eviews of rehabilit	ation interest.				Keep Pos	ted
Full list		By Subtopic		New - Updated		F	<b>*</b>

#### By subtopic:

- ▼ Health Conditions (1084)
- Cardiac (15)
- Gynaecology or Urology (39)

(Stage filter not available for Subtopic view)

- ▶ Mental Health (31)
- Neurological (298)
- Older Adults (>65 years) (90)
- Oncology (46)
- Orthopaedic or musculoskeletal (incl. pain conditions) (375)
- ▶ Other (68)
- Paediatrics (<18 years) (64)
- Respiratory (57)
- ▶ Vocational (1)
- Professionals (1293)













## Criteria for inclusion and tagging

We focused on reviews on interventions that rehabilitation professional provided; not on reviews that are simply of interest, so...

### **INCLUDED**:

 Meds prescribed by PMR doctors; rehab therapies provided by AHPs; prevention of secondary conditions; mental health interventions for people with primary non-mental health conditions (e.g. stroke)

### **EXCLUDED**:

All surgery; meds or therapies prescribed only by other specialists
 (rheumatologists, neurologists); interventions for non-disabled people (e.g.
 prevention of first-time stroke); reviews on general topics not specific to rehab









## **Additional tagging**

### Professional area

Tagged on the basis of who <u>provides</u> the intervention

### Broad clinical area

 E.g. Musculoskeletal, neurological, paediatric, older adults, respiratory, cardiac, oncological etc.









## Result

- 25 people contributed to the tagging work (12 PRM doctors, 12 PTs, 1 OT)
  - From 13 countries (8 Pakistan & India, 12 UK/Europe, 2 NZ, 1 Columbia, 1 Saudia Arabia, 1 USA)
  - Each tagged 2 5930 titles (average 772, SD 1419)
  - 13/25 contributor tagged over 100 titles each









### Results

- 9376 title screened (published between 1996 April 2018)
- 888 'rehabilitation' titles identifed (9.5% of all Cochrane publications)
  - > 124 protocols; 764 completed reviews









## Tagging by clinical area

Clinical areas	No. of titles categorised with this as the sole clinical area	No. of titles with this clinical area as one of many	Total
Cardiac	13	8	21
Gynaecology or urology	25	14	39
Mental health	12	10	22
Neurological	167	180	347
Older adults (>65 years)	30	61	91
Oncology	35	12	47
Orthopaedic/musculo (incl. pain)	265	140	405
Paediatrics (<18 years)	30	50	80
Respiratory	43	10	53
Other	32	21	53









## Tagging by profession group

Clinical areas	No. of titles categorised with this as the sole clinical area	No. of titles with this clinical area as one of many	Total
Physician	212	185	397
Physiotherapy	261	206	467
Occupational Therapy	17	89	106
Speech Language Therapy	25	15	40
Rehabilitation Nursing	3	65	68
Clinical Psychology	14	33	47
<b>Orthotist or Prosthetist</b>	0	12	12
Other	4	474	478
Whole multidisciplinary team	0	104	104









## **Discussion**

- Almost 1 in 10 Cochrane publications are about rehabilitation interventions
- Cochrane aim is "to put Cochrane evidence at the heart of health decisionmaking all over the world" (Cochrane Strategy to 2020)
- Cochrane must consider rehabilitation perspectives when developing & implementing its strategies
- <u>Limitations</u>: Lack of representation of OT, SLT, nursing, and other AHP to our work to date.

List of Cochrane reviews of rehabilitation interest.

### Full list By Subtopic New - Updated

(Stage filter not available for Subtopic view)

#### By subtopic:

- ▼ Health Conditions (1084)
  - Cardiac (15)
  - ▶ Gynaecology or Urology (39)
  - Mental Health (31)
  - ► Neurological (298)
  - Older Adults (>65 years) (90)
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  - Orthopaedic or musculoskeletal (incl. pain conditions) (375)
  - ▶ Other (68)
  - Paediatrics (<18 years) (64)
  - Respiratory (57)
  - ▶ Vocational (1)
- ▶ Professionals (1293)

### Keep Posted

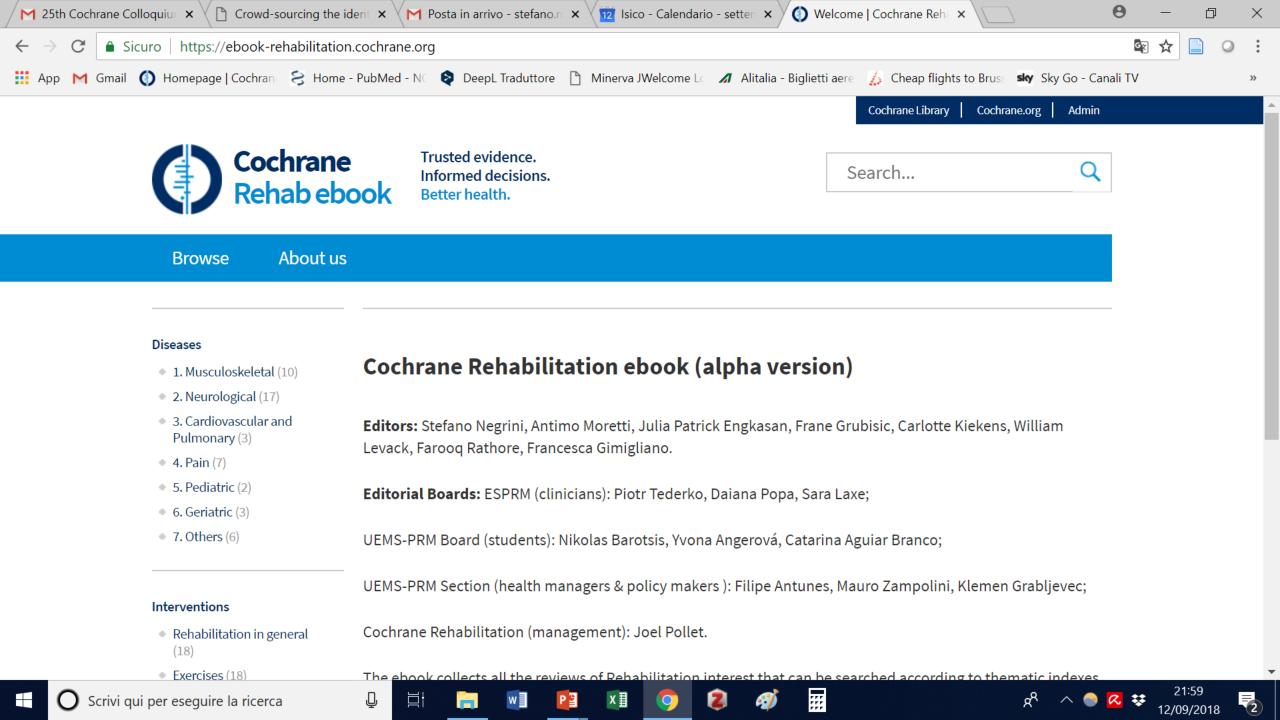


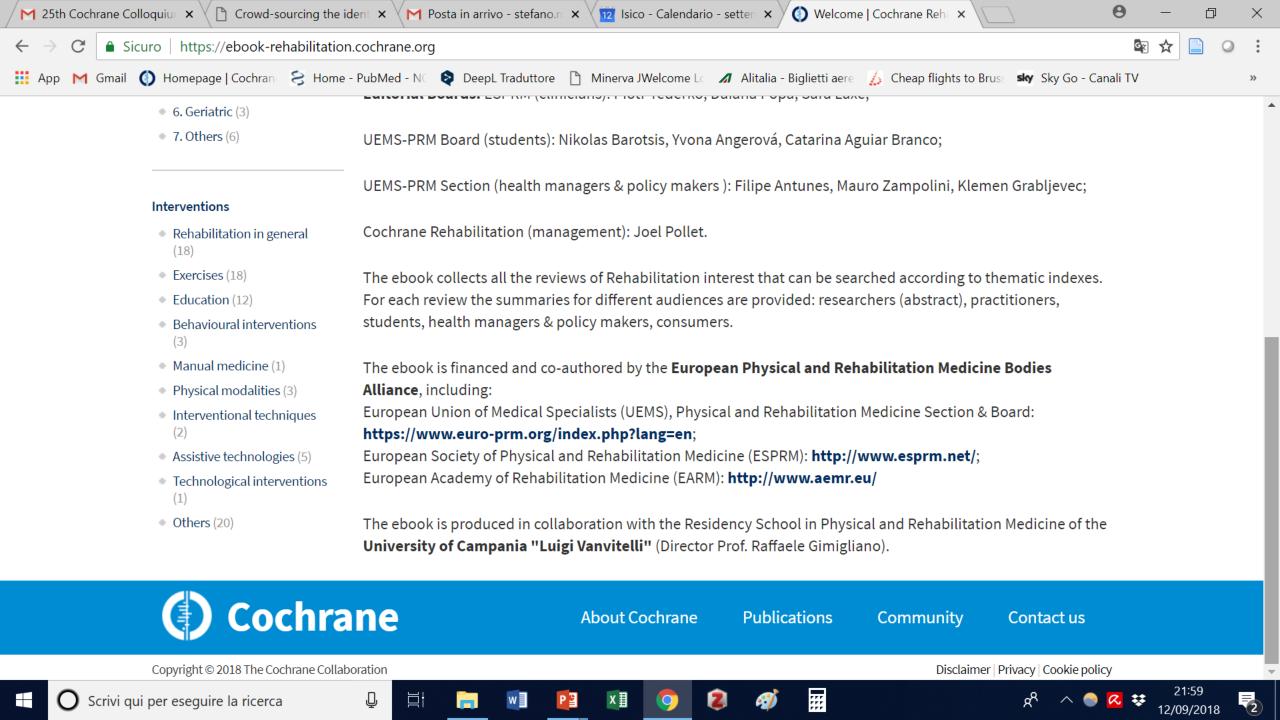




















## The prioritisation exercise

Definition of a **Summary** in agreement with the stakeholders Identification of all relevant **Cochrane reviews** 

Matching between the Cochrane reviews and the summary

Identification of

- missing information
- redundancies





Pediatric	15. Juvenile Idiopathic Arthritis	
1. Cerebral palsy	16. Marfan's syndrome and Ehler Danlos syndrome	
2. Spina Bifida	Marfan's syndrome	
3. Spinal Muscular Atrophy (SMA)	Ehler Danlos syndrome	
4. Neonatal Brachial Plexus Injury	17. Neurofibromatosis	
5 Torticollis	18. Mitochondrial syndromes in children	
6. Congenital hip dysplasia	19. Sickle cell disease	
7. Club foot	20. Down Syndrome	
8. Scoliosis and other spinal deformities	21. Acquired cardiopulmonary disorders in children	
Scoliosis	22. Tumors	
Spinal deformities	a. Primary bone tumors: Osteogenic sarcoma	
9. Osteochondrosis	b. Blood malignancies: leukemia and lymphoma	
a. Scheuermann's disease	Blood malignancies: leukemia	
b. Osteochondrosis of Upper Extremity	Blood malignancies: lymphoma	
i. Kienbock's disease	23. Pain in children and adolescents	
ii. Panner's disease	Pain in children	
c. Osteochondrosis of Lower Extremity	Pain in adolescents	
i. Legg Calve Perthes disease	24. Mental Health in children and adolescents	
ii. Blount's disease, Osgood-Schlatter disease, and Sinding-Larsen Johansson	Mental Health in children	
Blount's disease	Mental Health in adolescents	
Osgood-Schlatter disease	25: Language disorders in childern/adolescents	
Sinding-Larsen Johansson	Language disorders in childern	
iii. Sever's disease and Köhler's disease	Language disorders in adolescents	
Sever's disease		
Köhler's disease		
10. Osteochondritis dessicans		
11. Osteogenesis Imperfecta		
12. Fractures in developing bone		
13. Slipped capitofemoral epiphyses		
14. Duchenne and Becker Muscular Dystrophy		
Duchenne Muscular Dystrophy		
Becker Muscular Dystrophy		









Musculoskeletal

1. Neck Pain/Radicular Neck Pain

SPINE

#### Geriatric

- 2. Sarcopenia, Frailty and cachexia
- Sarcopenia
- Frailty
- Cachexia
- 3. Delirium and dementia
- Delirium
- Dementia
- a. Mild Cognitive Impairment
- 4. Polypharmacy in the elderly
- 5. Fall Prevention

Neck Pain Radicular Neck Pain a. Cervical Radiculopathy b. Cervical stenosis c. Cervical Spondylotic Myelopathy d. Cervical Whiplash e. Cervical and Thoracic Zygapophsial joint arthropathy Cervical Zygapophsial joint arthropathy Thoracic Zygapophsial joint arthropathy f. Brachial plexopathy g. Thoracic outlet syndrome 2. Back Pain/Radicular Low Back Pain Back Pain Radicular Low Back Pain a. Lumbar disc disorders b. Lumbar Radiculopathy c. Lumbar stenosis d. Lumbar spondylosis without myelopathy e. Lumbar spondylolisthesis f. Sacroilliac joint disorders g. Coccygeal disorders h. Sacral Plexopathy, Sciatalgia Sacral Plexopathy Sciatalgia 3. Compression Fractures of the Spine 4. Failed Back Surgery Syndrome 5. Spine infections 6. Seronegative spondyloarthropathy 7. Scoliosis		
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6. Seronegative spondyloarthropathy	4. Failed Back Surgery Syndrome	
	5. Spine infections	
7. Scoliosis	6. Seronegative spondyloarthropathy	
	7. Scoliosis	









	Reviews			Protocols		
	Approved	Reviewer 1	Reviewer 2	Approved	Reviewer 1	Reviewer 2
1. Musculoskeletal	176	19	46	50	7	13
2. Neurological	221	7	42	31	3	11
3. Cardiovascular and Pulmonary	70	12	12	13	4	3
4. Pain	128	7	5	12	0	3
5. Pediatric	35	1	14	8	4	1
6. Geriatric	20	0	8	11	0	0
7. Others	39	9	5	8	2	1
Total	689	55	132	133	20	32









	Index			
	Without reviews/protocols	With at least 1 review/protocol		
1. Musculoskeletal	93	68		
2. Neurological	40	35		
3. Cardiovascular and Pulmonary	1	14		
4. Pain	8	15		
5. Pediatric	38	16		
6. Geriatric	5	5		
7. Others	10	14		
Total	195	167		









	Orphan reviews			Orphan protocols			
		Reviewer 1	Reviewer 2		Reviewer 1	Reviewer 2	
1. Musculoskeletal	18	11	1	5	4	0	
2. Neurological	2	12	4	0	3	0	
3. Cardiovascular and Pulmonary	0	3	0	0	1	0	
4. Pain	2	0	2	0	0	0	
5. Pediatric	0	8	0	2	1	1	
6. Geriatric	6	1	3	1	0	0	
7. Others	13	6	4	0	0	2	
Impossible to allocate	10	16	1	3	2	1	
Total	33	46	14	6	7	4	









## Prioritization: Consensus through Delphi

#### First Round: Index

- -Should the topic already present be kept? (Y/N Likert 5)
- -Propose any topic in which PRM intervention can be given that is not in the index

#### Second Round: Index

- Should the new proposed topics be introduced ? (Y/N Likert 5)
- -Should an excluded topic be included ? (Y/N Likert 5)

#### **Third Round Topics**

- Topic covered
  - Is the area (musculoskeletal, neurological...) represented enough ? (Y/N Likert 5)
  - Inside each area, are all the relevant topic represented enough ? (Y/N Likert 5)
- Topics not covered (black holes)
  - Should the topic be covered ? (Y/N Likert 5)
  - With which priority ? (Likert 5)









## Last steps

#### Cochrane Rehabilitation Headquarters

- Mapping of literature on the single topics (RCTs/CCTs/other)
- Combination of prioritization with mapping

#### **European PRM Bodies**

- Motion for research in PRM
  - -Review Cochrane
  - Primary studies
- Motion for methodological research in PRM
  - Need for methodology for other kind of studies









## **Prioritization process**

One PRM delegate per Country who accept to participate in the process and follow it regularly

#### **Problems**

- Limit to Europe
  - -how to involve other rehabilitation professionals?
- Expand beyond Europe
  - –involvment of other regions of the world (ISPRM?)
  - Involvment of other rehabilitation professionals (WCPT, WFOT, ISPO?)









## **Conclusion**

- Our tagging work is now available on the Cochrane Rehabilitation website
- It feeds into the Cochrane Rehabilitation eBook and other projects.
- We are now exploring how this work can inform the PICO Annotation project within Cochrane
- Our work is ongoing









# Thank you!

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