

Workplace based rehabilitation of upper limb conditions: A Systematic Review

MUNIRA HOOSAIN B.SC.OT (UCT), M.OT (SU) SUSAN DE KLERK, MARLETTE BURGER





Background



In support of workplace based rehabilitation...









- **\Rightarrow** Early identification and treatment
- Collaboration
- Reduced travel time and loss of work time
- Use of actual job tasks in rehabilitation

Objective

effectiveness

workplace-based

rehabilitative

workers with upper limb conditions

work performance, pain, absenteeism, productivity and other outcomes, including ergonomic risk and mental health.

Methods



PRISMA

TRANSPARENT REPORTING OF SYSTEMATIC REVIEWS AND META-ANALYSES

PROSPERO

International prospective register of systematic reviews

Inclusion criteria

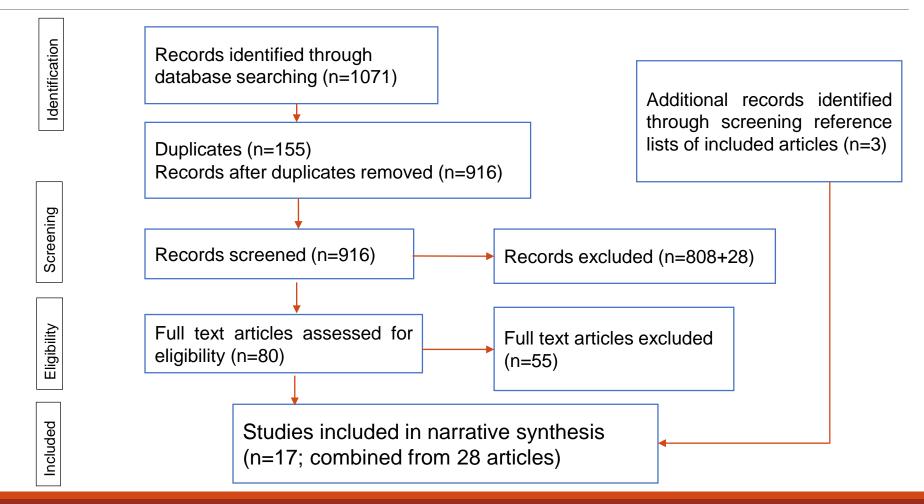
Studies
Participants
Interventions
Outcomes

Search strategy

Databases

- Cochrane
- Pubmed
- Scopus
- Web of Science
- Academic Search Premier, Africa-Wide Information, CINAHL
- OTSeeker
- PEDro

PRISMA flow diagram



Data extraction and analysis



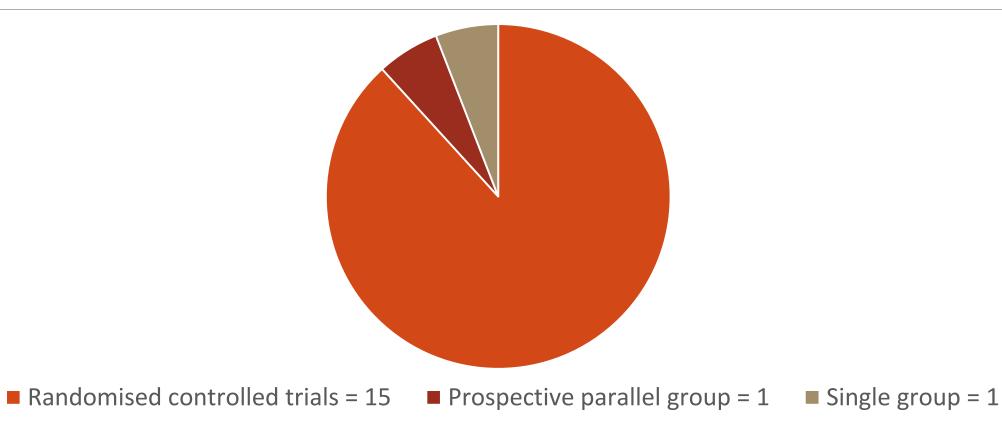
Quality appraisal

- 9 high quality
- 7 medium quality
- 1 low quality



ALL INCLUDED

Types of studies



Countries

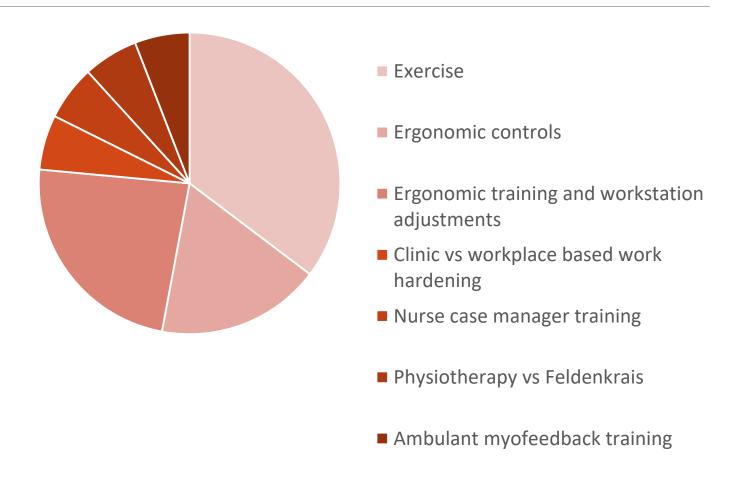
Denmark	-	4
• USA	-	3
Sweden	-	2
Norway	-	1
 Netherlands 	-	1
Sweden & Neth	-	1
Finland	-	1
Hong Kong	-	1
Canada	-	1
Turkey	-	1
Brazil	-	1

Types of workers

- 9 Office/computer workers
- 2 Industrial workers
- 2 Slaughterhouse workers
- 1 Lab technicians & office workers
- 1 Medium work
- 1 Managers, clerks, postal carriers, electrical/mechanical workers
- 1 Healthcare workers, clerical, warehouse



Interventions



Exercise (n=6)

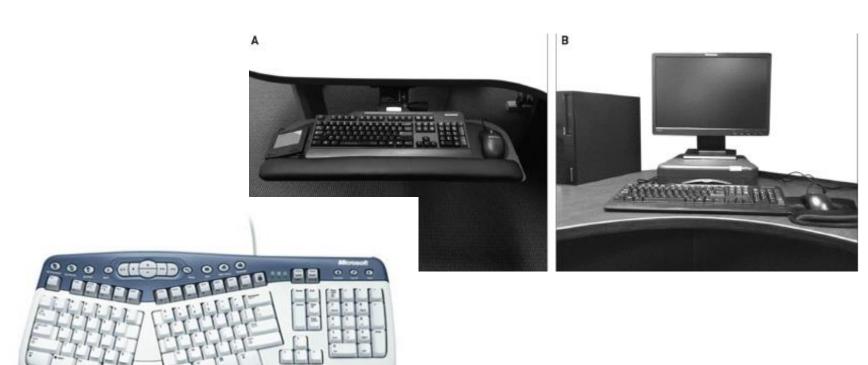
Positive results on pain, strength, functional ability, work ability, absenteeism, medication use.





Ergonomic controls (n=3)





Ergonomic training and workstation adjustments (n=4)





Work hardening (n=1)



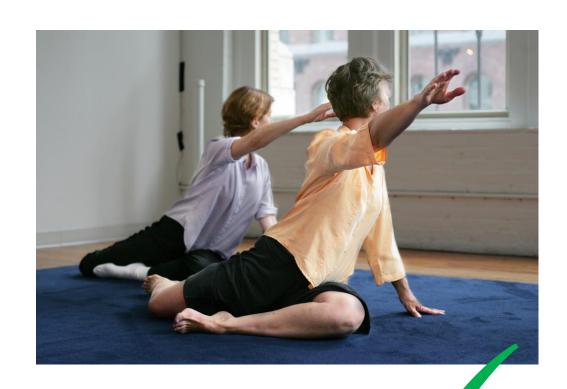
Workplace based

Clinic based

Nurse case manager training (n=1)



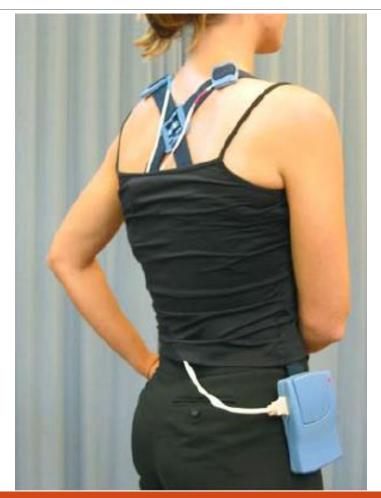
Feldenkrais vs Physiotherapy (n=1)







Ambulant myofeedback training (n=1)



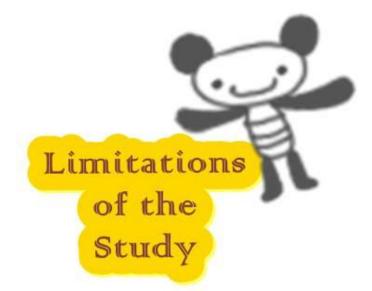
Strengths

- 9 databases used
- No language or date restrictions



Limitations

- No meta-analysis
- No grey literature − publication bias
- ⇒ Search strategy 7/8 studies from previous review not found!



Recommendations: Practice

Exercise programs work!

Workstation adjustment and ergonomic training

Reduce ergonomic risk, MS symptoms, productivity

Ergonomic controls - varied

Workplace based work hardening, case manager training, Feldenkrais – implement with caution

Ambulant myofeedback training – not recommended

Recommendations: Research

Diversity!

High vs Low to middle income







Want to know more?

Journal of Occupational Rehabilitation https://doi.org/10.1007/s1090s-018-4777-7



Workplace-Based Rehabilitation of Upper Limb Conditions; A Systematic Review

Munita Hoosain 18 - Susan de Klerk 1 - Marlette Burger

© Springer Science+Business Media, LLC, part of Springer Nature 2018

Abstract

Further: The objective of this systematic review was to identify, calible and analyse the current available evidence on the eductivement of worthplace-based relabilitative interventions in workers with respect into eductives, or now not place transact, pairs, absentuelon, productivity and other outcomes. Method: We searched Meditor, Cockman Library, Scoppe, Web of Science, Arademic Search Pareira, Miric-Wide Internations, (CNAIII, C)Tolera and PIDDs with search terms in lower bread aware upport limb, inservention, wordplace and citizate trial is not that its marker and the contract of the contract o

Keywords Workplace schabilitation - Upper extremity - Occupational health

Packeround

Electronic supplementary material. The online version of this article (https://doi.org/10.1007/s10926-018-9777-7) contains supplementary material, which is available to authorized overs.

Manita Rossin manishoosin@gmail.co

reseirabousiethy Susan de Kierk oderbran ac za

Mariette Runger mbardrum ac. sa

- Division Occupational Therapy, Faculty of Medicine and Health Sciences, Stellenbouch University, Cape Town, South Africa.
- Division Physiotherapy, Faculty of Medicine and Health Sciences, Stellenbooth University, Cape Town, South Africa

Upper linb conditions, whether work rulard or not, contents to pose significant challenges in the workplace. Repairs to the pose significant challenges in the workplace in the workplace in the significant contents of the significant section of the significant section of the significant section is such as the United States of America (USA), Canada and Work Impose, upper limb and lower back disorders are among the leasting occupational injuries and diseases, and considered as growing mobiles [3]. Similarly, in middle and lower insidial and l

Workplace-based rehabilitation services may be offered by a variety of healthcase providers, including occupational therapies, physiotherapists and ergonomists. Services may include workplace-based survices programs 14, 51, ethication of workers 161, modifications to work stations or work.

Published online: 25 May 2018



