

ENCLOSURES



BERGISCHE
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IPP-aMSE

Identification and prioritization of relevant prevention issues for work-related musculoskeletal disorders (MSD)

Work package 4

*Prevention approaches:
evidence-based effects and prioritized national strategies in other countries*

August 2009

Abbreviation index

BAuA	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (Federal Institute for Occupational Safety and Health, FIOSH)
CT	Controlled trial (no randomization)
DGAUM	Deutsche Gesellschaft für Arbeitsmedizin und Umweltmedizin
DGUV	Deutsche Gesetzliche Unfallversicherung (German Social Accident Insurance)
MSD	Musculoskeletal disorders (work-related)
NCT	Mon-controlled trial
NIOSH	National Institute for Occupational Safety and Health
NORA	National Occupational Research Agenda
OHS	Occupational Health and Safety
RCT	Randomized controlled trial
RTW	Return to work

Appendix 1 Data base literature search: strategies and terms

Legend: |= "OR", \$= truncation

PART I (primary/ secondary/ tertiary prevention)

MEDLINE, (text words)

- WRMSD AND (prevention | intervention)
- (musculo\$ | "neck pain" | "back pain" | shoulder\$) AND (occupation\$ | work\$) AND (prevention | intervention)
- musculo\$ AND psycho\$ AND (occupation\$ | work\$) AND (prevention | intervention)
- "lower limb" AND (workplace | "work-related") AND prevention
- work\$ AND prevention AND knee
- (musculo\$ | MSD)AND work\$ AND ("pre-place assessment" | screening | "secondary prevention")
- ("occupational medicine" | "occupational physician") AND "yellow flags"
- "risk assessment" AND work\$ AND (musculo\$ | back | neck | MSD)
- "pre-employment" AND (musculo\$ | MSD)
- screening AND (musculo\$ | MSD) AND (work\$ | occup\$)
- "prework screening" | „job placement“
- „post offer screening“AND (musculo\$ | MSD)
- musculo\$ AND ("risk assessment" | "risk analysis") AND work\$
- (MSD | WRMSD) AND work\$ AND ("risk analysis" | "risk assessment")
- (musculo\$ | pain | disorders) AND (work\$ | occup\$) AND ("secondary prevention" | screening | "risk reduction")
- (musculo\$ | pain | disorders) AND (work\$ | occup\$) AND ("return to work" | rehabilitation | RTW)
- (occupational medicine[MeSH Terms]) AND (musculoskeletal disorder[MeSH Terms])
- Physical examinations AND diagnoses[MULTI]
- "secondary prevention" AND work\$ AND (pain | MSD)
- "secondary prevention" AND "work" AND (physician | "occupational physician")
- musculoskeletal disorder[MeSH Terms] AND "risk assessment" AND "work" and intervention
- ("occupational physician" | occupational medicine)AND ("back pain" | upper)
- surveillance AND "back pain" AND work
- (musculoskeletal diseases/prevention and control[MeSH Terms]) AND ((occupational medicine[MeSH Terms]) AND (occupational medicine)) AND "secondary prevention"

PSYCINFO (only psychosocial issues, primary prevention)

- "back pain" AND meta-analysis
- ("back pain" | "back injury" | "neck pain" | musculo\$) AND (intervention | prevention) AND
 - (work\$ | occup\$ | job) AND (review | "meta analysis")
 - ("return to work" | rehabilitation | RTW) AND (review | "meta analysis")

PART II: Expert's recommendations for work-related prevention strategies

MEDLINE (text words)

- prevention AND (MSD | musculo\$) AND
 - strat\$
 - future
 - recommendation

Appendix 2 Quality of reported reviews – primary prevention

AMSTAR check list **Fehler! Verweisquelle konnte nicht gefunden werden.** referring to chapter 3.1, standardized quality mean value, standard deviation and range ¹

* MA= meta-analysis, sR= systematic review, REP= report (meta-review), ** only in the case of meta-analysis

Internal ID #	Authors/year	Review type *	À priori design?	Double assessment?	At least 2 data bases?	Search strat. documented?	In-/exclud. crit. documented?	Includ. /exclud. lit. documented?	table with study informat.?	Non-rand.trials excluded?	Study qual.der discussed?	Data pooling methods approp.?**	Publication bias discussed?	Funding source documented?	sum	stand mean value (total)
a) Systematic reviews and meta-analysis studies																
26	Martocchio et al. Fehler! Verweisquelle konnte nicht gefunden werden.	MA	1		1	1	1	0	0		1	1	0	0	6,00	0,50
02	Linton & v. Tulder Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1		1	0	1	1	1	1	1		0	0	6,50	0,59
11	Maher et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	0	1	1	1	1	1		0	0	7,50	0,68
33	Lincoln et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	0	1	1	1	0	1		0	1	7,50	0,68
19	Karsh et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1		1	1	1	1	1	0	1		0	0	6,50	0,59
27	Verhagen et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	0	9,00	0,82
40	Amick et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	1	10,00	0,91
06	Tveito et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	0	1	1	1	1	1		0	1	8,50	0,77
05	van Poppel et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	0	8,50	0,77
52	Martimo et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	1	10,00	0,91
09	Martimo et al. Fehler! Verweisquelle konnte nicht gefunden werden.	MA	1	1	1	0	1	1	1	0	1	1	0	1	8,50	0,71
46	v.d. Molen et al. Fehler! Verweisquelle konnte	sR	1	1	1	1	1	1	1	0	1		0	0	7,50	0,68

¹ Data analysis: 1= yes, criteria reached, 0= no, criteria not reached or no information, blank= not relevant, no meta-analysis. Standardized mean on the base of n=11 valid items (reviews) or n=12 (meta-analysis studies).

	nicht gefunden werden.																
36	Cole et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	0	1		0	1	8,50	0,77	
34	Proper et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	0	8,50	0,77	
51	Hess & Hecker Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1		0	1	1	1	1	0	1		0	1	6,50	0,59	
10	Ammendolia et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	0	1		0	1	8,50	0,77	
16	v. Duijvenbode et al. Fehler! Verweisquelle konnte nicht gefunden werden.	sR	1	1	1	1	1	1	1	1	1		0	1	10,00	0,91	
Total (a)													0,73 ± 0,12 (0,50-0,91)				
b) Reports (meta-reviews)																	
39	Waddell & Burton Fehler! Verweisquelle konnte nicht gefunden werden.	rep	1	1	1	0	0	0	1	0	1		1	1	7,00	0,64	
15	Luehmann et al. Fehler! Verweisquelle konnte nicht gefunden werden.	rep	1	1	1	1	1	1	1		1		0	1	9,00	0,90	
49	Silverstein et al. Fehler! Verweisquelle konnte nicht gefunden werden.	rep	1		1	1	1	1	1	1	1		0	0	7,50	0,68	
23	OSHA Prev. Rep. Fehler! Verweisquelle konnte nicht gefunden werden.	rep	1	0	1	1	1	1	0	1	1		0	1	7,50	0,68	
Total (b)													0,73 ± 0,12 (0,64-0,90)				
Total (a,b)													0,73 ± 0,12 (0,50-0,91)				

- Appendix 3 Evidence-based effects of interventions in the primary prevention field – executive summary**
- Appendix 4.1 Reviews and meta-analysis studies focussing all types of intervention**
- Appendix 4.2 Reviews/ meta-analysis studies focussing one or two types of intervention**
- Appendix 4.3 Reports (meta-reviews), focussing (also) primary prevention interventions (all types)**

If you are interested in the complete synopsis, please contact michaelis@ffas.de