EFFECTIVENESS OF COMMUNITY AND WORKPLACE-BASED INTERVENTIONS FOR MSD ABSENCE

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BACKGROUND

- MSDs are a major cause of sickness absence in western countries
- NICE has reviewed effectiveness of community- and workplace-based interventions to limit sickness absence and published advice on workers with MSDs
- But no quantitative estimates of benefit or assessment of possible publication bias





METHODS

- Extended NICE literature search to later date with additional terms, and checked citations in other relevant reviews
- Included RCTs and cohort studies from 1990 in which subjects were workers with MSDs
- Limited to studies which quantified relevant outcomes in relation to interventions delivered in primary care or workplace
- Data abstracted, checked and studies scored for quality

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• Median sample size 107 (IQR 77-148)



RELATIVE RISK OF RETURN TO WORK

INTERVENTIONS								
Outcome	Number of		Median	(IQR)				
	Studies	Comparisons						
RR of return to work	25	59	1.21	(1.00 – 1.60)				
RR of avoiding job loss	5	15	1.25	(1.06 – 1.71)				
Mean days/month of sick leave prevented	21	41	1.11	(0.32 – 3.20)				
MRC Promotion			Sou	thampton				

ESTIMATED BENEFITS FROM INTERVENTIONS BY QUALITY AND SIZE OF STUDY

Quality Score	RR to re	eturn to work	Mean days/month of sick leave prevented	
	Median	(IQR)	Median	(IQR)
Low	1.30	(1.30-1.90)	3.20	(1.25-3.52)
Intermediate	1.20	(1.00-1.59)	0.33	(0.09-0.95)
High	1.10	(1.00-1.40)	1.01	(0.35-2.26)
High and large study	1.00	(0.85-1.20)	0.30	(0.20-0.40)
MRC Prime		8	Sout	hampton

ESTIMATED RR OF RETURN TO WORK BY INTENSITY OF INTERVENTION

Estimated total hours of intervention	Number of		RR of return to work		
	Studies	Comparisons	Median	(IQR)	
≤6	6	11	1.30	(1.20-1.35)	
>6 – 12	2	6	1.80	(1.33-2.08)	
12 – 32	8	14	1.45	(1.10-1.85)	
33 – 70	3	6	1.09	(1.08-1.18)	
>70	2	5	1.00	(1.00-1.00)	
MRC Press			Se	outhamptor	

CONCLUSIONS

 Benefits are generally small and of uncertain cost-effectiveness

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- Expensive interventions should be implemented only with carefully planned evaluation of costs and benefits
- Future research should focus on costeffectiveness of simple, low cost interventions, and impacts on job retention

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