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2	Supplementary File 1:
3	WORK-IA Trial: contents of the: Work Self-help Information Pack; Vocational Rehabilitation; and
4	Vocational Rehabilitation Resource Manual.
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6	Work Self-help Information Pack
7	This was received by all participants. The control group only received this.
8	The participating occupational therapists s, patient research partner, working members of the Derby
9	National Rheumatoid Arthritis Society branch (acting as study advisors) and the Trial Management
10	Group, agreed what written information could be representative of "usual care:.
11	• a welcome letter, encouraging people to read the enclosed booklets and discuss work problems
12	with relatives, friends and employers;
13	• a self-help flowchart, suggesting how to identify problems, resulting work difficulties and
14	solutions to then implement and/or discuss with employers/ line managers;
15	• and two work self-help booklets including a summary of the Equality Act [2010], what
16	"reasonable adjustments" employers could make, common work problems and solutions, the
17	importance of discussing work issues with employers and colleagues and how to get further
18	help [14,15].
19	
20	Vocational rehabilitation (VR: intervention group)
21	VR was based on that provided in a successful VR trial in the USA [10], with content modified to suit
22	the UK, as applicable. The occupational therapists received three days face to face VR training,
23	(including: conducting the Work Experience Survey-Rheumatic Conditions (WES-RC) and task
24	analysis; legislation and work services available; role play, case studies, manual handling, equipment
25	options (e.g. seating, computer equipment), and practical workshops), plus self-study [12]. In addition,
26	each occupational therapist was provided with a VR Resource Manual (developed for the study - see
27	later for contents), linking problems with potential solutions. These included: solutions fact sheets,
28	equipment recommendations, equipment sources, work station checklists and other Health and Safety
29	Executive Guidance (e.g. on manual handling), and work-related guidance. During the study, the
30	therapists could contact the VR trainers [RO'B, SW] for advice by telephone or e-mail.

31 At the first meeting, the occupational therapist used the WES-RC [16-19] to identify work problems and 32 specific barriers (physical, psychological, environmental (physical/social) and managerial) to 33 overcoming these. Three broad priority areas of work problems (e.g. work station modification and 34 work positioning, moving to/around the workplace), specifying problems within these, were then 35 collaboratively identified by the therapist and participant. The occupational therapist then recommended 36 some initial self-management advice tailored to the participant's needs, e.g. hand exercises, relaxation, 37 sleep hygiene, fatigue and/or joint protection advice and the occupational therapist provided appropriate 38 booklets, e.g. Arthritis Research UK's "Keep Moving*" or "Looking After Your Joints when you have 39 arthritis*," as applicable. The participant completed an Action Plan, with the support of the occupational 40 therapist, with a few initial, achievable goals, to meet their identified needs, to help the participant start 41 taking appropriate actions to resolve work problems.

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Participants were asked, before the next meeting, to complete an activity diary, for 24 hours on a typical 43 44 work day, identifying for each 30-minute period: their main activity; any equipment, tools or materials 45 used; any difficulties or discomfort doing the activity; whether they took a short rest; and to rate their 46 level of pain and fatigue using a 0 (no) to 10 (severe) scale [modified with permission; 56]. They were 47 asked to reflect on problems identified in the WES-RC and diary and start considering possible 48 solutions. Between the first and second meeting, the occupational therapist reviewed the three priority 49 problem areas identified in the WES-RC and developed a range of possible solutions to discuss/ 50 practice with the participant. At subsequent meetings, the occupational therapist and participant 51 reviewed progress with action plans set in the previous meeting, collaboratively problem-solved, and 52 the occupational therapist continued supporting participants to write Action Plans and in resolving 53 difficulties for themselves. Throughout the meetings, therapists emphasised the importance of 54 participants taking responsibility to liaise with employers to request and obtain job accommodations.

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VR was individualised to include (based on the WES-RC, activity diary and priority problem areas), asapplicable:

a. applying ergonomic, fatigue and stress management approaches to the workplace

- b. recommendations for assistive technology/equipment adaptation, workplace/work stationmodification, transport advice
- c. practical advice and support enabling participants to disclose their condition and negotiate job
 modifications with employers, e.g. discussion of strategies, how to explain their condition its
 impact on work, proactively make suggestions for addressing issues and role play, when
 applicable.

d. explaining rights under the Equality Act 2010, how and why their condition meets being one
 applicable under the Equality Act, what are "reasonable adjustments" employers can make in

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67	the workplace, and the facilities available to support employers making "reasonab
68	adjustments," e.g. Access to Work [47]; and how the participant could apply to Access to Wor
69	e. psychological support, through listening to and discussing work problems; encouraging abili
70	and confidence in solving work problems, managing arthritis when working and continuir
71	working in future
72	. advice on other activities of daily living and hand function difficulties affecting work ability
73	g. to discuss, if necessary, about considering a change in job or career. Referral to a Disabili
74	Employment Advisor (DEA) at their local Jobcentre for advice and support in doing so, if the
75	participant wishes
76	n. referral to other relevant services such as 'mainstream' occupational therapy (e.g. for splintin
77	activities of daily living training, self-management education groups), physiotherap
78	rheumatology or other work rehabilitation services (e.g. DEA, or advice to contact the
79	employer's occupational health department).
80	provision of relevant work and self-management advice booklets and other information a
81	appropriate
82	. general advice on disease flare management and contacting the Rheumatology departme
83	quickly in a flare for review and medication changes, if necessary, to reduce the risk of long
84	sickness absences
85	x. optional: if applicable, to conduct a workplace job assessment and meeting the participant ar
86	line manager together to discuss job accommodations and enabling referral to Access to Wo
87	for equipment / other support funding, as applicable.
88	. A telephone review, several weeks after the final meeting, to discuss participants' progres
89	implementing changes, check recommended job accommodations were in place and if ar
90	further action was needed.
91	
92	Arthritis Research UK downloads available from:
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94	Keep Moving:
05	
95 96	http://www.arthritisresearchuk.org/shop/products/publications/patient-information/living-with-
90	arthritis/keep-moving.aspx
97	ooking After Your Joints:
98	http://www.arthritisresearchuk.org/shop/products/publications/patient-information/living-with-
99	arthritis/looking-after-your-joints.aspx
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104		WORK REHABILITATION IN INFLAMMATORY ARTHRITIS TRIAL
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105		
106		Vocational Rehabilitation Resource Manual for OT
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107		
108	Conter	nts List:
109		
110	1. Res	search project
111	•	Lecture: Work Rehabilitation in Inflammatory Arthritis:
112		"Effectiveness and cost effectiveness of an occupational therapy job retention vocational
113		rehabilitation intervention: a pilot randomised controlled trial"
114	•	Gantt chart – timeline for project
115	•	WORK-IA Study diagram
116	•	Work Rehabilitation in Inflammatory Arthritis: research protocol
117	•	Roles and Responsibilities of the research team/ participating therapists
118	•	Contact details: therapists; research team.
119		
120	2.	Vocational Rehabilitation Intervention, Work Assessment Tool, VR Treatment Record,
120	2.	Information Pack,
122	•	Summary of the Vocational Rehabilitation intervention content
123	•	The UK Work Experience Survey- Rheumatic Conditions (UK WES-RC): assessment
124	-	[Hammond A, Woodbridge S, O'Brien R, Grant M. The UK Work Experience Survey for
125		persons with Rheumatic Conditions (UK WES-RC). 2013. University of Salford [16].
125		UK Work Experience Survey- Rheumatic Conditions (WES-RC): Manual v2 Hammond A,
	•	
127		Woodbridge S, O'Brien R, Grant M. The UK Work Experience Survey for persons with
128		Rheumatic Conditions (UK WES-RC) Manual version 2. 2013. University of Salford [17].
129	•	Vocational Rehabilitation Treatment Record
130	•	The Information Pack (Intervention and Control Groups) content: Cover letter to all
131		participants; Finding Solutions flowchart; NRAS and Arthritis Care booklets

132	
133	3. Vocational Rehabilitation Training Programme
134	Lectures
135	a. Legislation and Policy impacting on Work
136	b. Role of the Disability Employment Adviser (DEA)
137	c. Rheumatoid Arthritis and Work: a service user's perspective
138	d. We are not Alone! – Setting the Scene in which we work
139	e. Work rehabilitation strategies
140	i. Work station assessment
141	ii. Work Rehabilitation strategies: the Upper Lomb
142	iii. Work Rehabilitation strategies: the Environment
143	iv. Load Handling
144	v. Work Rehabilitation strategies: Disclosure
145	Case studies: six cases (problems plus solutions)
146	Example: Two completed WES-RCs, with solutions based on telephone role play activity
147	Bakery case study and solutions
148	Practical workshops: notes
149	Peer teaching: notes/ handouts teaching how to practically do the following: conduct a
150	worksite assessment; take micro-breaks; manage de Quervain's tendinitis; manual handling;
151	pacing; relationships at work; disclosing arthritis at work
152	Key Messages
153	
154	
155	4. Vocational Rehabilitation Solutions: Getting to Work & the Work Environment
156	Travel
157	a. Public transport
158	b. Driving
159	Access
160	a. Access
161	b. Flooring
162	Floor protection
163	Specialist flooring
164	c. Emergency exit
165	Personal evacuation plan
166	d. Toilet

167	Welfare	e at work – Health and Safety Executive (HSE) Guidance for employers on welfare
168	provisio	ons [http://www.hse.gov.uk/pubns/indg293.htm]
169		
170	e.	Refreshments
171	Working	g conditions
172	a.	Lighting
173	b.	Temperature
174	С.	Noise
175		
176	5. Vocational F	Rehabilitation Solutions: Physical job demands
177	 MSD H 	azards & Solutions
178	[https://	/www.uwo.ca/hr/form_doc/health_safety/doc/ergo/msd_hazards_solutions.pdf]
179	a) Lift	ing strategies:
180	HSE Ar	re you making the best use of lifting and handling aids HSE getting to grips with
181	manual	handling [http://www.hse.gov.uk/pubns/indg143.pdf]
182	• HSE M	anual handling assessment chart (MAC) [http://www.hse.gov.uk/msd/mac/]
183	a)	Pushing and pulling
184	b)	Ladders
185		HSE Safe use of ladders and step ladders
186		[http://www.hse.gov.uk/pubns/indg455.htm]
187		
188	6. Vocational F	Rehabilitation Solutions: Work Station Evaluation
189	a)	Seating
190		Osmond Ergonomics seating assessment chart
191		[http://www.ergonomics.co.uk/downloads.html]
192		Selecting a chair, issues for consideration
193		National seating suppliers
194	b)	Desk
195		RSIA repetitive strain awareness leaflet – www.keytools.com
196	c)	Computer monitor
197		My computer My way – Abilitynet https://www.abilitynet.org.uk/
198	d)	Keyboard
199		Osmond Ergonomics range of inputting devices – keyboards
200		(http://www.ergonomics.co.uk/)

201				Voice recognition software – Abilitynet: https://www.abilitynet.org.uk/
202		e)	Mouse	
203				Selecting a mouse
204				Osmond Ergonomics inputting devices, mice etc
205				(http://www.ergonomics.co.uk/)
206				RSIA repetitive strain awareness – no cost computer tips
207				(<u>https://www.rsitips.com/</u> ; http://www.rsiprevention.com/rsi_prevention.php)
208		f)	Wrist re	st
209				Summary sheet
210		g)	Docume	ent holder / writing slope
211				Osmond Ergonomics range of holders (http://www.ergonomics.co.uk/)
212		h)	Laptop	
213				Range of laptop stands
214		i)	Writing	
215				Range of products by EmpTech (http://www.emptech.info/)
216		j)	Telepho	ne
217		k)	HSE VD	0U Work Station Checklist [http://www.hse.gov.uk/pubns/ck1.pdf]
218				
219	7. Voca	ational	Rehabilit	ation Strategies: Policies, Benefits & Legislation
220	•	Comp	any polic	ies
221	•	Benef	its / assis	tance
222		a.	Disable	ed Living Allowance (DLA)
223		b.	Carers	allowance
224		C.	Employ	ment and Support Allowance
225		d.	Blue Ba	adge scheme
226		e.	Work c	hoice
227		f.	If an in	dividual is in employment and becomes disabled
228		g.	Access	s to Work
229		h.	Legisla	tion Summary
230				
231				
232				
233				

234	8. Supporting documents	
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235	•	Manager support for return to work following long-term sickness absence: Guidance
236		[Chartered Institute of Personnel Development: CIPD:
237		https://www.cipd.co.uk/knowledge/fundamentals/relations/absence/return-to-work-guide]
238	•	Working together? Matching work ambitions with health provision for people with arthritis –
239		Arthritis Care
240	•	Recruitment: an overview - CIPD
241		[https://www.cipd.co.uk/knowledge/fundamentals/people/recruitment/factsheet]
242	•	Disability and employment - CIPD [https://www.cipd.co.uk/knowledge/fundamentals/emp-
243		law/disability-discrimination/factsheet]
244	•	Harassment and bullying at work – CIPD
245		[https://www.cipd.co.uk/knowledge/fundamentals/emp-law/harassment/factsheet]
246	•	Managing sickness absence and return to work [Health and Safety Executive:
247		http://www.hse.gov.uk/pUbns/priced/hsg249.pdf]
248	•	Health Work Wellbeing : Health Care Professions' consensus statement
249		[https://www.nhs.uk/Livewell/workplacehealth/Documents/hwwb-healthcare-professionals-
250		consensus-statement-04-03-2008.pdf]
251	•	College of Occupational Therapists' Vocational Rehabilitation strategy
252		[https://www.cot.co.uk/sites/default/files/publications/public/Work_Matters_Vocational_Rehab
253		_English.pdf]
254	•	The Health and Work Handbook. Patient care and occupational health: a partnership guide
255		for primary care and occupational health teams [Royal College of General Practitioners:
256		http://www.fom.ac.uk/wp-content/uploads/hw.pdf].
257	•	NICE Checklist to help employers and employees discuss sickness absence using NICE
258		guidance [https://www.nice.org.uk/guidance/ph19/checklist-for-managing-absence-
259		65786221]
260	•	Fit note [https://www.gov.uk/government/collections/fit-note]
261	•	UK Rehabilitation Council: Rehabilitation Standards
262		[http://www.rehabcouncil.org.uk/pages/DownloadForm.aspx?Type=Standards]
263	•	Categories for Return to Work
264	•	HSE Ergonomics and human factors at work: http://www.hse.gov.uk/pubns/indg90.pdf
265		
266	9. Rele	evant Articles
267	•	Allaire S, Li W, la Valley M. Reduction of job loss in persons with rheumatic diseases
268		receiving vocational rehabilitation. Arthritis Rheum 2003;48:3212-3218
269	•	Allaire SH, Niu J, LaValley MP. Employment and satisfaction outcomes from a job retention
270		intervention delivered to persons with chronic diseases. Arthritis Care Res 2005;48:3212-
271		3218

272	•	Tang K, Beaton DE, Gignac MAM, et al. The Work Instability Scale for rheumatoid arthritis
273		predicts arthritis-related work transitions within 12 months. Arthritis Care Res 2010;62:1578-
274		1587
275	•	Allaire S, Keysor J. Development of a structured interview tool to help patients identify and
276		solve rheumatic condition related work barriers. Arthritis Care Res 2009; 61:988-995
277	•	Hammond A. Rehabilitation in Musculoskeletal Diseases. Best Practice Res Clin Rheum
278		2008;22:435-449
279	•	Edgar J. Rheumatoid Arthritis, Work & Disability. WebMD
280		[http://www.webmd.com/rheumatoid-arthritis/features/rheumatoid-arthritis-work-and-
281		disability#1 Downloaded 14 October 2016].
282	•	ES Bowers. About to Resign? Accommodations for RA at Work.
283		http://www.webmd.com/rheumatoid-arthritis/life-with-ra-11/ra-work-accommodations
284	٠	Downloaded 14 October 2016
285		
286	10. Ow	n Notes
287		
288	11. Fur	ther Resources.
289		
290	12. Oth	er information
291	©Alisor	Hammond, Rachel O'Brien, Sarah Woodbridge (2016).

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293 Supplementary File 2: Table 6: Self-reported health and personal resource use at six and nine months.

Resource	6m:	6m:	9m:	9m:
	Intervention	Control	Intervention	Control
	(n = 23)	(n =21)	(n = 22)	(n =21)
Hospital service use:				
Contact with any hospital services (n):	21	19	19	19
Rheumatology outpatient appointments:				
- no. attending;	21	18	16	17
- median no. visits (min-max) of attenders	2 [1-18]	3.5 [1-12]	2 [1-9]	2 [1-9]
Other appointments:				
- no. attending;	6	10	7	10
- median (min-max)	4 [1-11]	2.5 [1-30]	2 [1-6]	2 [1-3]
Day Unit attendance:				
- no. attending;	5	5	5	1
- median (min-max)	4 [2-4]	2 [1-6]	2 [1-2]	2
Accident and Emergency:				
- no. attending;	1	4	0	0
- median (min-max)	1	1.5 [1-2]		
In-patient stays:				
- no. admitted;	0	1	0	0
Rheumatology telephone helpline:				
- no. using;	6	9	6	6
- median (min-max)	2 [1-5]	2 [1-4]	1 [1-5]	2 [1-3]
Occupational Therapy appointments:				
- no. attending;	10	6	3	1
- median (min-max)	6 [1-11]	3.5 [2-4]	1 [1-2]	2
Physiotherapy appointments:				
- no. attending;	4	8	1	4
- median (min-max)	2 [1-5]	3 [1-60]	2	1 [1-2]
GP Contacts:				
- no. attending;	17	15	12	13
- median (min-max)	2.5 [1-15]	3 [1-10]	1.5 [1-4]	2 [1-4]
District and other Nurse appointments:				
- no. attending;	9	7	4	5
- median (min-max)	6 [1-26]	2 [1-6]	3 [1-6]	1 [1-2]
Personal service use:				
Home-help/cleaner (paid)				
- no. using;	2	0	2	1
- median contacts (min-max)	64 [24-104]	0	32 [12-52]	12 [12-52]

Unpaid help from friends/relatives:				
Help with childcare:				
- no. using;	2	0	1	0
- median hours/week (min-max)	2	0	3	0
Help with personal care:				
- no. using;	6	8	3	9
- median hours/week (min-max)	2 [2-9]	2.5 [1-8]	3 [2-4]	5.5 [1-14]
Help in and around the house:				
- no. using;	10	13	9	11
- median hours/week (min-max)	9.5 [2-26]	5 [3-20]	12 [1-35]	15 [4-30]
Help outside the house:				
- no. using;	9	8	7	8
- median hours/week (min-max)	3 [1-9]	3 [2-6]	5 [4-20]	8 [2-30]