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# Clinical and cost effectiveness of arthritis gloves in rheumatoid arthritis (A-GLOVES) : randomised controlled trial with economic analysis

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Adams, J, Hough, Y, O'Neill, T and Firth, J

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<b>Authors</b>	Hammond, A, Prior, Y, Cotterill, S, Sutton, C, Camacho, E, Heal, C, Adams, J, Hough, Y, O'Neill, T and Firth, J
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**Supplementary Materials:**

Supplement to Hammond A, Prior Y, Cotterill S, Sutton C, Heal C, Camacho E, Jones W, Adams J, Hough Y, O'Neill T, Firth J. Clinical and cost effectiveness of arthritis gloves in rheumatoid arthritis (A-GLOVES): randomised controlled trial with economic analysis. BMC Musculoskeletal Disorders 2021

**Supplementary Table S1: At screening, reasons why patients were ineligible; or unwilling, if eligible**

<b>Ineligible:</b>	<b>n= 541<sup>a</sup></b>	<b>Reasons why unwilling to participate, if eligible</b>	<b>n =88</b>
Previously worn arthritis gloves	287	Did not want to attend Occupational Therapy as interfering with work/daily routines	9
No persistent pain in PIP/MCPs joints	97	Unwilling to take part in research	9
Unable to read and understand English	58	Unwilling to complete questionnaire	5
Unwilling to wear arthritis gloves for 12 weeks	47	No reason given	22
Not diagnosed with RA or IA	46	Other reasons	43
Diagnosed with other rheumatic conditions	36		
Severe hand deformities meaning unable to wear gloves	26	<b>Not progressed after consent</b>	<b>n=17</b>
Severe neuropathy in hands	14	Non-return baseline questionnaire	1
Severe Raynaud's / other circulatory problem	7	Withdrawn prior to randomisation	16
Reason not recorded	2		

<sup>a</sup> more than one reason for ineligibility could be recorded

**Supplementary Table S2: Treatment duration and other therapy provided**

	Control	Intervention	p-value
Treatment duration (minutes: mean (SD)):			
- Initial glove appointment	35.66 (17.93) (n=99 <sup>a</sup> )	33.33 (12.60) (n=103)	0.29
- Glove review appointment	18.47 (10.09) (n=78)	16.88 (9.72) (n=90)	0.30
Other interventions <sup>b</sup> : (minutes: mean (SD))	24.35 (18.17) (n=23)	18.21 (18.11) (n=29)	0.23
- Hand exercises	10	7	
- Joint protection	6	6	
- Assistive device recommendations	5	8	
- Splint provision or repair	3	7	
- Activities of daily living training	0	2	
- Psychological intervention	3	1	
- Medication/flare management advice	2	1	
- Sleep/fatigue management	1	1	
- Work advice	1	0	
- Housing advice	1	0	
Total treatment time (minutes: mean (SD))	55.52 (27.75) (n=99)	53.01 (24.61) (n=103)	0.50
New steroid use:			
- Oral steroids started	2	2	
- Intramuscular or intra-articular injections	12	10	0.54
<sup>a</sup> Four control participants did not attend;			

<sup>b</sup> Participants could receive more than one intervention.

**Supplementary Table S3: Frequency of adverse events reported from glove wear (n=76 reporting adverse events)**

	Control (n=29)	Intervention (n=47)
Sleep disturbance at night (e.g. because the gloves made hands hot or itchy).	13	17
Pins and needles	4	12
Numbness	2	8
Fingertips became discoloured	1	6
Skin irritation	3	4
Other:	10	10
- Uncomfortable to wear due to hot weather	6	6
- Hand symptoms worsened	3	3
- Uncomfortable: reason not stated	1	1
Total	43	67

**Supplementary Table S4: Use of healthcare resources during 12-week follow-up and mean usage for key services <sup>a</sup>**

	<b>Control (n=78)</b>	<b>Intervention (n=84)</b>
	Participants reporting any use of any service, by setting n/N (%)	
Primary care appointments	60 (77)	61 (73)
Community care visits	10 (13)	13 (15)
Outpatient appointments	57 (73)	62 (74)
Day case admissions	1 (1)	4 (5)
Inpatient (overnight) admissions	1 (1)	0
Accident and emergency visits	4 (5)	8 (10)
	Mean (SD) number of times services used	
GP	2.2 (2.2) n=41	2.3 (2.0) n=35
Physiotherapist (community)	1 (0) n=4	1.3 (0.5) n=10
Physiotherapist (outpatient)	2.1 (1.9) n=8	3.0 (3.1) n=19
Rheumatology (outpatient)	1.8 (1.1) n=47	2.1 (1.4) n=53
Occupational therapist (outpatient)	1.6 (0.8) n=32	1.6 (0.8) n=27
<sup>a</sup> Mean number of visits calculated for those reporting any visits only.		

**Supplementary Table S5: Results of incremental cost-effectiveness analysis for intervention versus control gloves: sensitivity analyses.**

	<b>Net cost (95% CI)</b>	<b>Net QALY (95% CI)</b>	<b>ICER (£/QALY)</b>	<b>Probability intervention is cost effective versus control if WTPT<sup>a</sup> =</b>		
Primary analysis				<b>£20,000/ QALY</b>	<b>£30,000/ QALY</b>	<b>£60,000/ QALY</b>
Complete cases (ITT) (n=151)	£251 (106, 396)	0.003 (-0.017, 0.023)	£83,700/QALY	0.19	0.29	0.44
Sensitivity analysis - alternative costs (added/removed in turn)				<b>£20,000/ QALY</b>	<b>£30,000/ QALY</b>	<b>£60,000/ QALY</b>
Including training cost of £10/participant	£262 (117, 408)	0.003 (-0.017, 0.023)	£87,463/QALY	0.17	0.28	0.43
Including cost of glove review with OT <sup>b</sup>	£261 (116, 407)	0.003 (-0.017, 0.023)	£87,040/QALY	0.17	0.29	0.44
Alternative glove fitting cost <sup>b</sup>	£194 (51, 337)	0.003 (-0.017, 0.023)	£64,650/QALY	0.26	0.37	0.48
Sensitivity analysis – sample included in the analysis						
Per protocol analysis (n=121) <sup>c</sup>	£293 (18, 568)	0.005 (-0.017, 0.026)	£58,526/QALY	0.21	0.33	0.50
Sensitivity analysis - alternative outcome measure				<b>£1,000/ point</b>	<b>£10,000/ point</b>	<b>£20,000/ point</b>
Dominant hand pain (n=151)	£251 (106, 396)	0.24 (-0.33, 0.82)	£1046 to improve by 1 point	0.49	0.77	0.78
<p>ICER = incremental cost-effectiveness ratio; WTPT=willingness to pay threshold; ITT = intention to treat</p> <p>Covariates costs: pre-baseline costs, stratification variable</p> <p>Covariates QALYs: baseline health status, stratification variable</p> <p><sup>a</sup> willingness to pay thresholds based on 10,000 bootstrap simulations</p> <p>Note: whole £ reported in table but ICERs calculated including pence</p> <p><sup>b</sup> based on cost of Band 5 OT time (£34/hour; PSSRU (2016), Unit Costs of Health and Social Care) and duration of individual appointments as reported by OTs</p> <p><sup>c</sup> excluding participants who were not treated as per the trial protocol</p> <p>The training cost was calculated on the basis of two hours working time for the 32 OTs who attended training. This cost was divided by the number of participants in the intervention arm (n=103). This cost was then halved as it would only have been necessary to train half the number of OTs just to fit the intervention gloves. This gave a cost of £10 per person in the intervention group.</p>						





**A-GLOVES: 12 week Follow-up Questionnaire**

Office Use:

Site Number

Participant ID:

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Centre

Name:

PIN\*:

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**\*UoS use only:**

Participant contacted for missing data

Yes  No

Participant contacted for minimal data only

Yes  No

## Testing Arthritis Gloves in Rheumatoid / Inflammatory Arthritis

Thank you for taking part in this study. It will be a great help to us if you can complete and return this questionnaire within the **next week**.

It may take you about 30 minutes to fill in, depending on how much time you wish to spend on it. As you fill it out, don't spend too much time on any one question. There are no right or wrong answers.

There are **four** sections:

1. Information about your hand pain and stiffness
  2. The same four published questionnaires you completed at the start of this study to capture the impact of your condition on your daily activities and quality of life.
  3. Information about any changes occurring in the last 12 weeks and your views about the arthritis gloves.
  4. Your use of NHS services.
- Please ensure you answer each question.

We also want to remind you that your answers will be kept completely confidential. Therefore, your answers will in no way affect your medical care.

**Instructions:**

For most of the questions all you need to do is:

a) **Circle the number** that best reflects your opinions. For example:

<b>Are you able to:</b>	<b>Never</b>	<b>Sometimes</b>	<b>Fairly often</b>	<b>Often</b>	<b>Always</b>
Manage your everyday activities as you wish to	1	2	3	4	5

b) **Or tick boxes.** For example,

Please describe any pain you have in your hands during your daily activities?

<b>Not at all</b>	<b>Slightly</b>	<b>Moderately</b>	<b>Quite a bit</b>	<b>Extremely</b>
		✓		

If you need help filling in this questionnaire, please feel free to discuss this with a relative or friend. But please make sure the answers are your own views.

**We can be contacted on:**

Dr Yeliz Prior (Trial Manager): 0161 295 0211 or 07471 826 719 –  
y.prior@salford.ac.uk

Please check that you answer all questions and that no pages are missed by accident.

**Thank you for your assistance.**

**Please complete and return in the PRE-PAID envelope provided to:**

A-Gloves Trial Data Co-ordinator  
Lancashire Clinical Trials Unit  
Brook Building, Room BB418  
University of Central Lancashire  
Preston  
PR1 2HE.

**Date of Completion:**   /    /      
 D D M M M Y Y Y Y  
 .g: 04 JUL 2016)

**Your Initials:**

**Your Date of Birth:**   /    /      
 D D M M M Y Y Y Y

**PART ONE:**

1. Are you: (please circle)

- a. Right-handed
- b. Left-handed
- c. Both

2 Please rate your **RIGHT** hand condition at present: (Please **tick** one option)

Very Good	Good	Moderate	Severe	Very Severe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

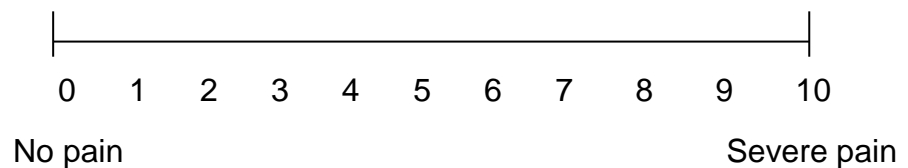
3 Please rate your **LEFT** hand condition at present: (Please **tick** one option)

Very Good	Good	Moderate	Severe	Very Severe
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

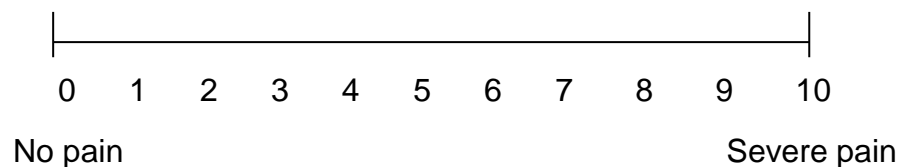
**Please describe your hand pain:**

For the following questions we ask you to **CIRCLE** the number below the line which best reflects your situation **on a typical day in the last week**.

4. In your **RIGHT** hand: during the **daytime**, when doing moderate hand activities, e.g. housework, cooking, DIY, gardening:



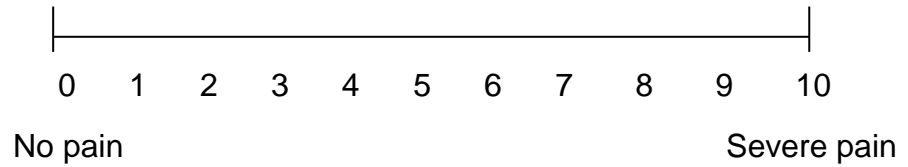
5. In your **RIGHT** hand, when you are resting during the day?



6. In your **RIGHT** hand, during the night:



7. In your **LEFT** hand: during the **daytime**, when doing moderate hand activities, e.g. housework, cooking, DIY, gardening:



8. In your **LEFT** hand, when you are resting during the day?



9. In your **LEFT** hand, during the night:



**Please describe your hand stiffness:**

10. How long does any early morning stiffness in your hands last (hours/minutes)? If you do not have early morning stiffness, put "0":

\_\_\_\_\_(hour/s)\_\_\_\_\_(minutes) (e.g. 1 hour 30 minutes)

11 Early morning stiffness **In your RIGHT** hand:



12 Early morning stiffness **In your LEFT** hand:



13. How are your hands in comparison to 3 months ago (i.e. before you received your arthritis gloves from the OT)? (Please tick one option below)

<b>Much better</b>	<b>Better</b>	<b>No change</b>	<b>Worse</b>	<b>Much worse</b>



**PART TWO:**

**A. Measure of Activity Performance in the Hand**

This is an assessment of how you use your hands when doing everyday activities. Please tick the answer that best describes your ability to do the activities the last time you did them. If you use a gadget, please tick the answer that best describes your ability when using this.

	<b>No difficulty</b>	<b>Some difficult y</b>	<b>Great difficulty</b>	<b>Not able to do</b>
1. Buttoning buttons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Putting on socks or tights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Tying shoelaces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Squeezing out of tubes (e.g. toothpaste)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Brushing teeth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Wiping yourself after using the toilet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Opening screw top bottles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Opening cans (any type)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Opening jam jars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slicing bread or cheese using a knife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Peeling raw vegetables	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Stirring food in a pan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Wringing out cloths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Carrying shopping bags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15. Writing by hand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Typing on a computer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Pushing with hands when getting up from a chair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Carrying heavy objects like suitcases and bags (over 5kg/ 10 lbs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **B MICHIGAN HAND OUTCOMES QUESTIONNAIRE**

**Instructions:** This survey asks for your views about your hands and your health. This information will help keep track of how you feel and how well you are able to do your usual activities.

Answer **EVERY** question by marking the answer as indicated. If you are unsure about how to answer a question, please give the best answer you can.

I The following questions refer to the function of your hand(s)/wrist(s) ***during the past week***. (Please circle one answer for each question). Please answer **EVERY** question, even if you do not experience any problems with the hand and/or wrist.

A. The following questions refer to your **right** hand/wrist.

	<b>Very Good</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>Very Poor</b>
1. Overall, how well did your <b><i>right</i></b> hand work?	1	2	3	4	5
2. How well did your <b><i>right</i></b> fingers move?	1	2	3	4	5
3. How well did your <b><i>right</i></b> wrist move?	1	2	3	4	5
4. How was the strength in your <b><i>right</i></b> hand?	1	2	3	4	5
5. How was the sensation (feeling) in your <b><i>right</i></b> hand?	1	2	3	4	5

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**B.** The following questions refer to your **left** hand/wrist.

	<b>Very Good</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>Very Poor</b>
1. Overall, how well did your <b><i>left</i></b> hand work?	1	2	3	4	5
2. How well did your <b><i>left</i></b> fingers move?	1	2	3	4	5
3. How well did your <b><i>left</i></b> wrist move?	1	2	3	4	5
4. How was the strength in your <b><i>left</i></b> hand?	1	2	3	4	5
5. How was the sensation (feeling) in your <b><i>left</i></b> hand?	1	2	3	4	5

II. The following questions refer to the ability of your hand(s) to do certain tasks during the past week. (Please circle one answer for each question). If you do not do a certain task, please estimate the difficulty with which you would have in performing it.

**A.** How difficult was it for you to perform the following activities using your **right hand**?

	<b>Not at all difficult</b>	<b>A Little Difficult</b>	<b>Somewhat Difficult</b>	<b>Moderately Difficult</b>	<b>Very Difficult</b>
1. Turn a door knob	1	2	3	4	5
2. Pick up a coin	1	2	3	4	5
3. Hold a glass of water	1	2	3	4	5
4. Turn a key in a lock	1	2	3	4	5
5. Hold a frying pan	1	2	3	4	5

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**B. How difficult was it for you to perform the following activities using your left hand?**

	<b>Not at all difficult</b>	<b>A Little Difficult</b>	<b>Somewhat Difficult</b>	<b>Moderately Difficult</b>	<b>Very Difficult</b>
1. Turn a door knob	1	2	3	4	5
2. Pick up a coin	1	2	3	4	5
3. Hold a glass of water	1	2	3	4	5
4. Turn a key in a lock	1	2	3	4	5
5. Hold a frying pan	1	2	3	4	5

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**C. How difficult was it for you to perform the following activities using both of your hands?**

	<b>Not at all difficult</b>	<b>A Little Difficult</b>	<b>Somewhat Difficult</b>	<b>Moderately Difficult</b>	<b>Very Difficult</b>
1. Open a jar	1	2	3	4	5
2. Button a shirt/ blouse	1	2	3	4	5
3. Eat with a knife/ fork	1	2	3	4	5
4. Carry a grocery bag	1	2	3	4	5
5. Wash dishes	1	2	3	4	5
6. Wash your hair	1	2	3	4	5
7. Tie shoelaces/ knots	1	2	3	4	5

III. The following questions refer to how you did in your **normal work** (including both housework and school work) during the **past four weeks** (Please circle one answer for each question)

	<b>Always</b>	<b>Often</b>	<b>Sometimes</b>	<b>Rarely</b>	<b>Never</b>
1. How often were you unable to do your work because of problems with your hand(s)/ wrist(s)	1	2	3	4	5
2. How often did you have to shorten your work day because of problems with your hand(s)/ wrist(s)	1	2	3	4	5
3. How often did you have to take it easy at your work because of problems with your hand(s)/ wrist(s)?	1	2	3	4	5
4. How often did you accomplish less in your work because of problems with your hand(s)/ wrist(s)?	1	2	3	4	5
5. How often did you take longer to do the tasks in your work because of problems with your hand(s)/ wrist(s)	1	2	3	4	5

IV. The following questions refer to how **pain** you had in your hand(s)/ wrist(s) **during the past week**. (Please circle one answer for each question).

A. The following questions refer to **pain** in your **right** hand/wrist.

1 How often did you have pain in your **right** hand/ wrist?

1. Always
2. Often
3. Sometimes
4. Rarely
5. Never

If you answered **never** to question **IV-A1** above, please **skip** the following questions and go to the next page.

2 Please describe the pain you had in your **right** hand/ wrist

1. Very mild
2. Mild
3. Moderate
4. Severe
5. Very severe



	Always	Often	Sometimes	Rarely	Never
3. How often did the pain in your <b>right</b> hand/ wrist interfere with your sleep?	1	2	3	4	5
4. How often did the pain in your <b>right</b> hand/ wrist interfere with your daily activities (such as eating or bathing)?	1	2	3	4	5
5. How often did the pain in your <b>right</b> hand/ wrist make you unhappy?	1	2	3	4	5

**B.** The following questions refer to **pain** in your **left** hand/wrist.

1 How often did you have pain in your **left** hand/ wrist?

1. Always
2. Often
3. Sometimes
4. Rarely
5. Never

If you answered **never** to question **IV-B1** above, please **skip** the following questions and go to the next page.

2 Please describe the pain you had in your **left** hand/ wrist

1. Very mild
2. Mild
3. Moderate
4. Severe
5. Very severe

	Always	Often	Sometimes	Rarely	Never
3. How often did the pain in your <b>left</b> hand/ wrist interfere with your sleep?	1	2	3	4	5
4. How often did the pain in your <b>left</b> hand/ wrist interfere with your daily activities (such as eating or bathing)?	1	2	3	4	5
5. How often did the pain in your <b>left</b> hand/ wrist make you unhappy?	1	2	3	4	5

V. **A.** The following questions refer to the appearance (look) of your ***right*** hand during the past week. (Please circle one answer for each question).

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Neither Agree nor Disagree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>
1. I am satisfied with the appearance (look) of my <b><i>right</i></b> hand.	1	2	3	4	5
2. The appearance (look) of my <b><i>right</i></b> hand sometimes made me uncomfortable in public.	1	2	3	4	5
3. The appearance (look) of my <b><i>right</i></b> hand made me depressed.	1	2	3	4	5
4. The appearance (look) of my <b><i>right</i></b> hand interfered with my normal social activities.	1	2	3	4	5

---

**B.** The following questions refer to the appearance (look) of your ***left*** hand during the past week (Please circle one answer for each question).

	<b>Strongly Agree</b>	<b>Agree</b>	<b>Neither Agree nor Disagree</b>	<b>Disagree</b>	<b>Strongly Disagree</b>
1. I am satisfied with the appearance (look) of my <b><i>left</i></b> hand.	1	2	3	4	5
2. The appearance (look) of my <b><i>left</i></b> hand sometimes made me uncomfortable in public.	1	2	3	4	5
3. The appearance (look) of my <b><i>left</i></b> hand made me depressed.	1	2	3	4	5
4. The appearance (look) of my <b><i>left</i></b> hand interfered with my normal social activities.	1	2	3	4	5

---

VI. **A.** The following questions refer to your satisfaction with your ***right*** hand/wrist during the past week (Please circle one answer for each question).

	<b>Very Satisfied</b>	<b>Somewhat Satisfied</b>	<b>Neither satisfied nor Dissatisfied</b>	<b>Somewhat Dissatisfied</b>	<b>Very Dissatisfied</b>
1. Overall function of your <b><i>right</i></b> hand.	1	2	3	4	5
2. Motion of the fingers in your <b><i>right</i></b> hand.	1	2	3	4	5
3. Motion of your <b><i>right</i></b> wrist.	1	2	3	4	5
4. Strength of your <b><i>right</i></b> hand.	1	2	3	4	5
5. Pain level of your <b><i>right</i></b> hand.	1	2	3	4	5
6. Sensation (feeling) of your <b><i>right</i></b> hand.	1	2	3	4	5

**B.** The following questions refer to your satisfaction with your **left** hand/ wrist during the past week (Please circle one answer for each question).

	<b>Very Satisfied</b>	<b>Somewhat Satisfied</b>	<b>Neither satisfied nor Dissatisfied</b>	<b>Somewhat Dissatisfied</b>	<b>Very Dissatisfied</b>
1. Overall function of your <b>left</b> hand.	1	2	3	4	5
2. Motion of the fingers in your <b>left</b> hand.	1	2	3	4	5
3. Motion of your <b>left</b> wrist.	1	2	3	4	5
4. Strength of your <b>left</b> hand.	1	2	3	4	5
5. Pain level of your <b>left</b> hand.	1	2	3	4	5
6. Sensation (feeling) of your <b>left</b> hand.	1	2	3	4	5

### **C Health Assessment Questionnaire**

We are interested in learning how your illness affects your ability to function in daily life. Please **circle** the one response that best describes your usual abilities **OVER THE PAST WEEK.**

	<i>Without ANY difficulty</i>	<i>With SOME difficulty</i>	<i>With MUCH difficulty</i>	<i>UNABLE to do</i>
<b>DRESSING AND GROOMING:</b>				
<b>Are you able to:</b>				
Dress yourself, including tying shoes and doing buttons?	0	1	2	3
Shampoo your hair?	0	1	2	3
<b>RISING: Are you able to:</b>				
Stand up from an armless straight chair?	0	1	2	3
Get in and out of bed?	0	1	2	3
<b>EATING. Are you able to:</b>				
Cut your meat/ food?	0	1	2	3
Lift a full cup or glass to your mouth?	0	1	2	3
Open a new milk carton (or soap powder)?	0	1	2	3
<b>WALKING: Are you able to?</b>				
Walk outdoors on flat ground?	0	1	2	3
Climb up five steps?	0	1	2	3

Please **tick any aids or devices** that you usually use for any of these activities:

\_\_\_\_\_ Walking stick/cane  
button hook, long

\_\_\_\_\_ Gadgets for dressing (eg

\_\_\_\_\_ Walking frame  
pull etc)

handled shoehorn, zipper

\_\_\_\_\_ Crutches

\_\_\_\_\_ Built-up or special utensils

\_\_\_\_\_ Wheelchair

\_\_\_\_\_ Special or built-up chair

Other

(*please*

*specify*) \_\_\_\_\_

—

Please **tick any categories for which you usually need help** from another person:

\_\_\_\_\_ Dressing and grooming

\_\_\_\_\_ Eating

\_\_\_\_\_ Rising

\_\_\_\_\_ Walking



Please **circle** the one response which best describes your usual abilities **OVER THE PAST WEEK:**

	<i>Without ANY difficulty</i>	<i>With SOME difficulty</i>	<i>With MUCH difficulty</i>	<i>UNABLE to do</i>
<b>HYGIENE. Are you able to:</b>				
Wash and dry your entire body?	0	1	2	3
Take a bath?	0	1	2	3
Get on and off the toilet?	0	1	2	3
<b>REACH. Are you able to:</b>				
Reach and get down a 5lb (2kg) object (e.g. bag of potatoes) from just above your head?	0	1	2	3
Bend down to pick up clothing from the floor?	0	1	2	3
<b>GRIP. Are you able to:</b>				
Open car doors?	0	1	2	3
Open jars which have been previously opened?	0	1	2	3
Turn taps on and off?	0	1	2	3
<b>ACTIVITIES. Are you able to:</b>				
Run errands and shop?	0	1	2	3
Get in and out of a car?	0	1	2	3
Do chores such as vacuuming, housework or light gardening?	0	1	2	3

Please **tick** any **aids or devices** that you usually use for any of these activities:

\_\_\_\_\_ Raised toilet seat

\_\_\_\_\_ Bath rail

\_\_\_\_\_ Bath seat

\_\_\_\_\_ Long handled appliances for reach

\_\_\_\_\_ Jar opener (for jars previously opened)

Other (please specify)

---

Please **tick** any **categories for which you usually need help** from another person:

\_\_\_\_\_ Hygiene

\_\_\_\_\_ Gripping and opening things

\_\_\_\_\_ Reach

\_\_\_\_\_ Errands and housework

#### **D. Your health (EQ-5D-3L)**

Under **each** heading, please tick the **ONE** box that best describes your health **TODAY**.

<b>MOBILITY</b>	
I have no problems in walking about	<input type="checkbox"/>
I have some problems in walking about	<input type="checkbox"/>
I am unable to walk about	<input type="checkbox"/>
<b>SELF CARE</b>	
I have no problems washing or dressing myself	<input type="checkbox"/>
I have some problems washing or dressing myself	<input type="checkbox"/>
I am unable to wash or dress myself	<input type="checkbox"/>
<b>USUAL ACTIVITIES</b> (e.g. work, study, housework, family or leisure activities)	
I have no problems doing my usual activities	<input type="checkbox"/>
I have some problems doing my usual activities	<input type="checkbox"/>
I am unable to do my usual activities	<input type="checkbox"/>
<b>PAIN/DISCOMFORT</b>	
I have no pain or discomfort	<input type="checkbox"/>
I have moderate pain or discomfort	<input type="checkbox"/>
I have extreme pain or discomfort	<input type="checkbox"/>
<b>ANXIETY/DEPRESSION</b>	
I am not anxious or depressed	<input type="checkbox"/>
I am moderately anxious or depressed	<input type="checkbox"/>
I am extremely anxious or depressed	<input type="checkbox"/>

To help people say how good or bad a health state is, we have drawn a scale (rather like a thermometer) on which the best state you can imagine is marked 100 and the worst state you can imagine is marked 0.

We would like you to indicate on this scale how good or bad your own health is today, in your opinion. Please do this by drawing a line:

**from** the box below **to** whichever point on the scale indicates how good or bad your health state is today.

**Your own health state today**

Best imaginable health state



Worst imaginable health state

**PART THREE:**

1. In the **last 3 months** (since completing the previous study questionnaire), have you...

Please TICK...

a) Had any medication changes or started any new drugs **for your arthritis?**

Yes  No

If yes: what changes were made?:

.....

.....

.....

b) had a steroid injection?

Yes  No

c) Received any occupational therapy (APART from your glove provision and review appointments) or any physiotherapy treatment?

Yes  No

**If yes**, please state what this was and how long it lasted (e.g. saw a physiotherapist 3 times for leg exercises; saw the OT once for help with everyday activities)

2. In the last 3 months, have you worn any splints on your hands (apart from arthritis gloves)? (Please tick)

Yes  No

**If yes:** please tick which: (Please tick all that apply).

	<b>Right hand</b>	<b>Left hand</b>
Resting splint	<input type="checkbox"/>	<input type="checkbox"/>
Wrist splint	<input type="checkbox"/>	<input type="checkbox"/>
Finger splint	<input type="checkbox"/>	<input type="checkbox"/>
Thumb splint	<input type="checkbox"/>	<input type="checkbox"/>
Wrist and thumb support splint	<input type="checkbox"/>	<input type="checkbox"/>

### 3. Glove use during the day

i) I was recommended to wear the glove(s) during the day (please tick):  
 Yes  No

ii) **In the last 4 weeks**, during the day on average, how many days a week have you worn your arthritis gloves?

*If you did not receive a glove for either your right or for your left hand, please circle "Not Given"*

<b>RIGHT GLOVE</b>	<i>Not given</i>	0	1	2	3	4	5	6	7
<b>LEFT GLOVE</b>	<i>Not given</i>	0	1	2	3	4	5	6	7

iii) On average, how many hours/ minutes did you wear your glove/s each day? *(If this varied, please give your best estimate overall for a typical day)*

Right glove \_\_\_\_\_hours \_\_\_\_\_minutes      Left glove \_\_\_\_\_hours \_\_\_\_\_minutes

#### 4 Glove use during the night

i) I was recommended to wear the glove(s) during the night (please tick):

Yes  No

ii) **In the last 4 weeks, during the night**, on average, how many nights a week have you worn your arthritis gloves?

*If you did not receive a glove for either your right or for your left hand, please circle "Not Given"*

<b>RIGHT GLOVE</b>	<i>Not given</i>	0	1	2	3	4	5	6	7
<b>LEFT GLOVE</b>	<i>Not given</i>	0	1	2	3	4	5	6	7

iii) On average, how many hours/minutes did you wear your glove/s each night? *(If this varied, please give your best estimate overall for a typical night).*

Right glove \_\_\_\_\_ hours \_\_\_\_\_ minutes      Left glove \_\_\_\_\_ hours \_\_\_\_\_ minutes



5. Have you worn the arthritis gloves as advised by the therapist when you were given them?

Day-time: Yes  No

Night-time: Yes  No

6. Have you bought, or obtained, any other type of “arthritis” gloves from elsewhere?  
(*please tick*)

Yes  No

**If no, proceed to Question 7 over the page**

i) **In the last 4 weeks**, during the day on average, how many days a week have

If yes, what type these were? (e.g. *fingerless thermal gloves*. Please state the make of glove, if you know it)

you worn the arthritis gloves you got for yourself?

<b>RIGHT GLOVE</b>	0	1	2	3	4	5	6	7
<b>LEFT GLOVE</b>	0	1	2	3	4	5	6	7

ii) **In the last 4 weeks**, during the night, on average, how many nights a week have you worn the arthritis gloves you got for yourself?

<b>RIGHT GLOVE</b>	0	1	2	3	4	5	6	7
<b>LEFT GLOVE</b>	0	1	2	3	4	5	6	7

7. What is your opinion of the arthritis gloves **provided to you by the OT?** (Please tick)

Yes, they were of benefit

No, they were not of benefit

8. **If yes, you found the arthritis gloves of benefit,** please tick which of the following apply. You can tick more than one:

Hands feel less painful in the day

Hands feel less painful in the night

Hands feel less stiff

Gloves give comfort

Able to do things better- personal care/grooming

Able to do things better- household activities

Able to do things better- leisure/ social activities

Able to do things better- at work

Stronger hands/wrists

Gloves give support

Hands feel less swollen

Gloves give warmth

Hand(s) feel more flexible

Using a keyboard (e.g. computer/laptop)

Using a tablet computer (e.g.i-Pad)

Using a mobile/ smart phone

Sleep better

Take fewer painkillers

More confident doing activities

Less frustrated doing activities

Improved mood

Feel better overall

**If you found any other benefits or have any other comments, please state:**

**9. If you had any problems wearing the gloves, please tell us why?**

Day-time:

Night-time:

10. If you **stopped** wearing the arthritis gloves completely (in the day and/or at night) which were provided by the OT, please state why:

I stopped wearing the gloves completely during the day because:

I stopped wearing the gloves completely during the night because:

10. Would you want to continue to wear the arthritis gloves provided by the OT?

Yes  No

11. In future, would you be willing to buy replacement arthritis gloves of the same type you received from the OT?

Yes  No

**PART FOUR:**

**Please tell us about your use of NHS and Social Services:**

**1. Your use of hospital in-patient services**

a. Have you had any **planned** hospital overnight stays in the last **3 months?**  
(please tick)

Yes  No  If no, continue to question 2.

b. If **YES**, please list below any **planned** admissions you had to hospital involving overnight stays and the number of days you were in hospital each time. Examples of departments you might have been admitted to are, for example, a “Medical ward” or “Orthopaedic ward”; or a reason might be e.g. “Gall stone operation” or “hip joint replacement.”

*(Please do **not** include any hospital out-patient appointments, day hospital appointments, accident and emergency services or admissions as a result of attending A&E here. We will ask you for information about these in questions 2, 3, and 4).*

Department - please give type of department or reason you were	Name of Hospital	Admission date (month/year)	Length of stay in hospital (i.e. number of nights)
		__ / ____	
		__ / ____	

*Clinical and cost-effectiveness of arthritis gloves (A-GLOVES Trial)*

		__ / ____	
		__ / ____	
		__ / ____	
		__ / ____	
		__ / ____	

## 2. Your use of hospital out-patient appointments

- a. Have you attended any **planned hospital out-patient appointments** lasting 4 hours or less in the last **3 months**? (please tick)

Yes  No  If no, continue to question 3.

- a. If **YES**, please tell us about the department or specialty and the number of appointments which **lasted 4 hours or less**. If you did not have appointments at some, please put "0" against those services.

*(Please do not include any hospital in-patient admissions, day hospital appointments, accident and emergency services or admissions as a result of attending A&E here. We ask you for information about these in questions 1, 3 and 4).*

Department or specialty	Number of visits to each department in the last <u>3 months</u>
<p><i>Please list each type of department/clinic or specialty separately and tell us the number of visits for this hospital department/clinic or specialty (e.g. Rheumatology, Orthopaedics, Diabetology, hospital-based occupational therapy, hospital-based physiotherapy, hospital blood tests).</i></p> <p><i>If you did not attend that department, put "0" under number of visits</i></p>	
Rheumatology	
Occupational Therapy	
Physiotherapy	
Other (please state):	



### 3. Your use of day hospital appointments

- a. Have you attended any day or hospital outpatient appointments which lasted for **more than 4 hours (but not overnight)** during the last **3 months**?(please tick)

Yes

No

If no, please go to question 4

- b. If **YES**, tell us about the department or specialty and the number of appointments lasting **more than 4 hours (but not overnight)**.

*(Please do not include any hospital in-patient admissions, out-patient hospital appointments under 4 hours, accident and emergency services or admissions resulting from going to A&E here. We ask you for information about these in questions 1, 2 and 4).*

Department or specialty	Number of visits to each department in the last <u>3 months</u>
<i>Please list each type of department/clinic or specialty separately and tell us the number of visits to this department/clinic or specialty (e.g. minor surgery, dialysis, chemotherapy, other diagnostic procedures)</i>	

#### 4. Your use of accident and emergency (A&E) services

- a. Have you attended an Accident and Emergency (A&E) unit during the last **3 months**?

Yes

No

If no, please go to question 5.

- b. If **YES**, first tell us about the number of A & E visits you had which did **not** lead to a hospital admission.

*(Please do not include any planned hospital in-patient admissions, hospital out-patient appointments or day hospital appointments here. We ask you for information about these in questions 1,2 and 3).*

For Accident and Emergency visits <b>not</b> leading to in-patient admission:
<b>Number of visits to A&amp;E during the last <u>3 months</u>?</b>

- c. Were you admitted into a hospital as an **in-patient** directly from the Accident and Emergency (A&E) unit during the last **3 months**?

Yes

No

If no, please go to question 5

- d. **If yes**, please tell us which department/ for what reason you were admitted, where and when you were admitted each time. Examples of departments you might have

been admitted to are, for example, a “Medical ward” or “Surgical ward”; or a reason might be e.g. “heart failure” or “fall.”

Department - please give type of department or reason you were	Name of Hospital	Admission date (month/year	Length of stay in hospital (i.e. number of nights)
		__ / ____	
		__ / ____	
		__ / ____	
		__ / ____	
		__ / ____	

**5. Your use of primary and community based health services**

b. Have you used any of the services below in the last **3 months**?

Yes  No  If no, please go to the next page.

c. If **YES**, please state the number of appointments for each. If you did not have appointments at some, please put “0” against those services.

GP practice services	Number of visits in the last <u>3 months</u> ?
GP (at the surgery/practice)	
GP (at your home)	
Practice Nurse (at the surgery)	

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Nurse (at your home)	
Counsellor <i>or</i> mental health worker	

<b>Other physical care services</b> (e.g. minor illness or injury, diagnostic test, blood sample test)	<b>Number of visits in the last <u>3 months</u>?</b>
Walk-in-centre	
Blood test at the surgery/ practice	
Other ( <i>please specify</i> )	

**5. Your use of primary and community based health services (continued)**

a. Have you used any of the following services in the last **3 months**?

Yes  No  .

d. If YES, please state the number of appointments with/ visits from each. If you did not have appointments with/ visits from some, please put “0” against those services.

<b>Other community / social support services</b> <i>(e.g. social worker, home help, care worker, occupational or physiotherapist)</i> <i>(please specify)</i>	<b>Total visits in the last <u>3</u> months?</b>
Occupational therapist (community-based or from the Social Services)	
Physiotherapist (community-based)	
Care worker	
Home help	
Social worker	

Other (please specify):	

***Thank you for completing these questions!***

Many thanks indeed for taking the time to answer this, which we very much appreciate.  
Please could you go back and check you have not left out a page or any questions by mistake.

**Please complete and return in the PRE-PAID envelope provided to:**

A-Gloves Trial Data Co-ordinator  
Lancashire Clinical Trials Unit  
Brook Building, Room BB418  
University of Central Lancashire  
Preston  
PR1 2HE.