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Linguistic validation, validity and reliability of the British English versions of the Disabilities of the Arm, Shoulder and Hand (DASH) questionnaire and QuickDASH in people with rheumatoid arthritis

Hammond, A, Prior, Yeliz and Tyson, S

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Authors	Hammond, A, Prior, Yeliz and Tyson, S
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Table S1: Linking between Brief ICF Core Set for Rheumatoid Arthritis (RA) and the DASH.

Brief Core Set for RA ICF Components, Codes, Categories and Titles:	DASH Item (and ICF sub-codes if applicable)
1 BODY FUNCTIONS:	
b130 Energy and drive functions	
b134 Sleep functions	29. During the past week, how much difficulty have you had in sleeping because of the pain in your arm, shoulder or hand
b152 Emotional functions	
b180 Experience of self and time functions	
b1801 Body image	
b2800 Generalized pain	
b2801 Pain in body part	
b28010 Pain in head and neck	
b28013 Pain in back	
b28014 Pain in upper limb	24 Arm, shoulder or hand pain 25 Arm, shoulder or hand pain when performing specific activities
b28015 Pain in lower limb	
b28016 Pain in joints	24 Arm, shoulder or hand pain 25 Arm, shoulder or hand pain when performing specific activities.
b430 Haematological system functions	
b510 Ingestion functions	
b640 Sexual functions	
b7102 Mobility of joints generalized	19 Recreational activities in which you move your arm freely (e.g. playing Frisbee, badminton etc)
b715 Stability of joint functions	
b740 Muscle endurance functions	
b770 Gait pattern functions	

b7800 Sensation of muscle stiffness 28. Stiffness in your arm, shoulder or hand.

2 BODY STRUCTURES:

s73001 Elbow joint

s73011 Wrist joint

s7302 Structure of hand

s73021 Joints of hand and fingers

s73022 Muscles of hand

s75001 Hip joint

s75011 Knee joint

s7502 Structure of ankle and foot

s760 Structure of trunk

s7600 Structure of vertebral column

s76000 Cervical vertebral column

s770 Additional musculoskeletal structures related to movement

s810 Structure of areas of skin

3 ACTIVITIES AND PARTICIPATION:

d170 Writing 2 Write

d360 Using communication devices and techniques

d415 Maintaining a body position

d430 Lifting and carrying objects 10 Carry a shopping bag or briefcase (4301 Carrying in the hands)

11 Carry a heavy object (over 10lbs/5 kgs). (d4301)

d449 Carrying, moving and handling objects, other specified and unspecified 1 Open a tight or new jar (d4453 turn or twist hands or arms)

3 Turn a key (d4453)

5 Push open a heavy door (d4451 Pushing)

6 Place an object on a shelf above your head (d4452 Reaching)

12 Change a light bulb overhead (d4453)

	17 Recreational activities which require little effort (e.g. card playing), knitting etc.) (d4400 picking up; d4401 grasping; d4402 manipulating; d4403 releasing)
	18 Recreational activities in which you take some force or impact through your arm, shoulder or hand (e.g. golf, hammering, tennis etc.) (d4454 Throwing)
d455 Moving around	
d460 Moving around in different locations	
d465 Moving around using equipment	
d470 Using transportation	20 Manage transport needs (getting from one place to another)
d475 Driving	20 Manage transport needs (getting from one place to another) (d4751 driving motorized vehicles)
d510 Washing oneself	14 Wash your back (d5100 Washing body parts)
d520 Caring for body parts	13 Wash or blow dry your hair (d5202 Caring for hair)
d530 Toileting	
d540 Dressing	15 Put on a jumper (d5400 Putting on clothes)
d550 Eating	16 Use a knife to cut food
d560 Drinking	
d570 Looking after one`s health	
d620 Acquisition of goods and services	
d630 Preparing meals	4 Prepare a meal
d640 Doing housework	7 Do heavy household jobs (e.g. wash windows, clean floors) (d6402 Clean living area) 9 Make a bed
d660 Assisting others	
d760 Family relationships	22 During the past week, to what extent has your arm, shoulder or hand problem interfered with your normal social activities with family (d760), friends, neighbours or groups?
d770 Intimate relationships	21 Sexual activities (d7702 sexual relationships)
d859 Work and employment, other specified and unspecified	23 During the past week, were you limited in your work or other regular daily activities as a result of your arm, shoulder or hand problem?

d910 Community life

d920 Recreation and leisure

17 Recreational activities which require little effort (e.g. card playing, knitting etc.) (d920: cards (d9200 Play); knitting (d9203 Crafts).

18 Recreational activities in which you take some force or impact through your arm, shoulder or hand (e.g. golf, hammering, tennis etc) (d9201 Sports; d9204 Hobbies)

19 Recreational activities in which you move your arm freely (e.g. playing Frisbee, badminton etc) (d9201 Sports)

4. ENVIRONMENTAL FACTORS:

e115 Products and technology for personal use in daily living

e310 Immediate family

e355 Health Professionals

e570 Social security services, systems and policies

e580 Health services, systems and policies

DASH items not included in the Brief ICF Core Set for RA:

ICF Code, Category and Title:

DASH item

b265 Touch function

26 Tingling (pins and needles) in your arm, shoulder or hand.

b730 Muscle power functions*

27 Weakness in your arm, shoulder or hand.

d650 Caring for household objects

8 Garden or outdoor property work (d6505 Taking care of plants, indoors and outdoors)

d750 Informal social relationships

22 During the past week, to what extent has your arm, shoulder or hand problem interfered with your normal social activities with family, friends (d7500 informal relationships with friends), neighbours (d7501 informal relationships with neighbours), or groups (d7504 informal relationships with peers)?

personal factor (pf)

30 I feel less capable, less confident or less useful because of my arm, shoulder or hand problem.

Key: * item is included in Comprehensive ICF Core Set for RA.

Table S2: Test retest reliability for the DASH (n=170), WORKDASH (n=53) and SPAMDASH (n=19) items (linear weighted kappas).

<p>DASH1: Open jar</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.652</td></tr> <tr><td>Standard error</td><td>0.0307</td></tr> <tr><td>95% CI</td><td>0.592 to 0.712</td></tr> </table> <p>DASH2: Write</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.717</td></tr> <tr><td>Standard error</td><td>0.0326</td></tr> <tr><td>95% CI</td><td>0.654 to 0.781</td></tr> </table> <p>DASH3: Turn a key</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.679</td></tr> <tr><td>Standard error</td><td>0.0320</td></tr> <tr><td>95% CI</td><td>0.616 to 0.742</td></tr> </table> <p>DASH4: Prepare meal</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.732</td></tr> <tr><td>Standard error</td><td>0.0310</td></tr> <tr><td>95% CI</td><td>0.671 to 0.793</td></tr> </table> <p>DASH5: Open heavy door</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.682</td></tr> <tr><td>Standard error</td><td>0.0295</td></tr> <tr><td>95% CI</td><td>0.624 to 0.74</td></tr> </table>	Weighted Kappa	0.652	Standard error	0.0307	95% CI	0.592 to 0.712	Weighted Kappa	0.717	Standard error	0.0326	95% CI	0.654 to 0.781	Weighted Kappa	0.679	Standard error	0.0320	95% CI	0.616 to 0.742	Weighted Kappa	0.732	Standard error	0.0310	95% CI	0.671 to 0.793	Weighted Kappa	0.682	Standard error	0.0295	95% CI	0.624 to 0.74	<p>DASH6: Place object on shelf</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.690</td></tr> <tr><td>Standard error</td><td>0.0257</td></tr> <tr><td>95% CI</td><td>0.64 to 0.74</td></tr> </table> <p>DASH7: Heavy household jobs</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.712</td></tr> <tr><td>Standard error</td><td>0.0265</td></tr> <tr><td>95% CI</td><td>0.66 to 0.764</td></tr> </table> <p>DASH8: Garden/ property work</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.722</td></tr> <tr><td>Standard error</td><td>0.0261</td></tr> <tr><td>95% CI</td><td>0.671 to 0.773</td></tr> </table> <p>DASH9: Make bed</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.648</td></tr> <tr><td>Standard error</td><td>0.0307</td></tr> <tr><td>95% CI</td><td>0.588 to 0.708</td></tr> </table> <p>DASH10: Carrying shopping bag</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.611</td></tr> <tr><td>Standard error</td><td>0.0320</td></tr> <tr><td>95% CI</td><td>0.548 to 0.673</td></tr> </table>	Weighted Kappa	0.690	Standard error	0.0257	95% CI	0.64 to 0.74	Weighted Kappa	0.712	Standard error	0.0265	95% CI	0.66 to 0.764	Weighted Kappa	0.722	Standard error	0.0261	95% CI	0.671 to 0.773	Weighted Kappa	0.648	Standard error	0.0307	95% CI	0.588 to 0.708	Weighted Kappa	0.611	Standard error	0.0320	95% CI	0.548 to 0.673	<p>DASH11: Carry heavy object</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.699</td></tr> <tr><td>Standard error</td><td>0.0288</td></tr> <tr><td>95% CI</td><td>0.642 to 0.755</td></tr> </table> <p>DASH12: Change a light bulb</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.728</td></tr> <tr><td>Standard error</td><td>0.0252</td></tr> <tr><td>95% CI</td><td>0.678 to 0.777</td></tr> </table> <p>DASH13: Wash/ blow hair</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.723</td></tr> <tr><td>Standard error</td><td>0.0285</td></tr> <tr><td>95% CI</td><td>0.667 to 0.779</td></tr> </table> <p>DASH14: Wash back</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.693</td></tr> <tr><td>Standard error</td><td>0.0283</td></tr> <tr><td>95% CI</td><td>0.637 to 0.748</td></tr> </table> <p>DASH15: Put on jumper</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.653</td></tr> <tr><td>Standard error</td><td>0.0321</td></tr> <tr><td>95% CI</td><td>0.59 to 0.716</td></tr> </table>	Weighted Kappa	0.699	Standard error	0.0288	95% CI	0.642 to 0.755	Weighted Kappa	0.728	Standard error	0.0252	95% CI	0.678 to 0.777	Weighted Kappa	0.723	Standard error	0.0285	95% CI	0.667 to 0.779	Weighted Kappa	0.693	Standard error	0.0283	95% CI	0.637 to 0.748	Weighted Kappa	0.653	Standard error	0.0321	95% CI	0.59 to 0.716
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<p>DASH16: Use knife to cut food</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.609</td></tr> <tr><td>Standard error</td><td>0.0324</td></tr> <tr><td>95% CI</td><td>0.546 to 0.673</td></tr> </table>	Weighted Kappa	0.609	Standard error	0.0324	95% CI	0.546 to 0.673	<p>DASH21: Sexual activities</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.769</td></tr> <tr><td>Standard error</td><td>0.0317</td></tr> <tr><td>95% CI</td><td>0.707 to 0.831</td></tr> </table>	Weighted Kappa	0.769	Standard error	0.0317	95% CI	0.707 to 0.831	<p>DASH26: Tingling in arm, shoulder, hand</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.543</td></tr> <tr><td>Standard error</td><td>0.0385</td></tr> <tr><td>95% CI</td><td>0.467 to 0.618</td></tr> </table>	Weighted Kappa	0.543	Standard error	0.0385	95% CI	0.467 to 0.618
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<p>DASH17: Recreational activities – little effort</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.579</td></tr> <tr><td>Standard error</td><td>0.0376</td></tr> <tr><td>95% CI</td><td>0.505 to 0.653</td></tr> </table>	Weighted Kappa	0.579	Standard error	0.0376	95% CI	0.505 to 0.653	<p>DASH22: Past week – norm social act</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.577</td></tr> <tr><td>Standard error</td><td>0.0307</td></tr> <tr><td>95% CI</td><td>0.517 to 0.637</td></tr> </table>	Weighted Kappa	0.577	Standard error	0.0307	95% CI	0.517 to 0.637	<p>DASH27: Weakness in arm, shoulder, hand</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.565</td></tr> <tr><td>Standard error</td><td>0.0351</td></tr> <tr><td>95% CI</td><td>0.496 to 0.634</td></tr> </table>	Weighted Kappa	0.565	Standard error	0.0351	95% CI	0.496 to 0.634
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<p>DASH18: Recreational activities – force or impact</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.693</td></tr> <tr><td>Standard error</td><td>0.0275</td></tr> <tr><td>95% CI</td><td>0.639 to 0.747</td></tr> </table>	Weighted Kappa	0.693	Standard error	0.0275	95% CI	0.639 to 0.747	<p>DASH23: Past week – limited in work/ daily act</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.656</td></tr> <tr><td>Standard error</td><td>0.0299</td></tr> <tr><td>95% CI</td><td>0.598 to 0.715</td></tr> </table>	Weighted Kappa	0.656	Standard error	0.0299	95% CI	0.598 to 0.715	<p>DASH28: Stiffness in arm, shoulder, hand</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.495</td></tr> <tr><td>Standard error</td><td>0.0362</td></tr> <tr><td>95% CI</td><td>0.424 to 0.566</td></tr> </table>	Weighted Kappa	0.495	Standard error	0.0362	95% CI	0.424 to 0.566
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<p>DASH19: Recreational activities move arm freely</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.641</td></tr> <tr><td>Standard error</td><td>0.0322</td></tr> <tr><td>95% CI</td><td>0.578 to 0.704</td></tr> </table>	Weighted Kappa	0.641	Standard error	0.0322	95% CI	0.578 to 0.704	<p>DASH24: Arm, shoulder, hand pain</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.596</td></tr> <tr><td>Standard error</td><td>0.0342</td></tr> <tr><td>95% CI</td><td>0.529 to 0.663</td></tr> </table>	Weighted Kappa	0.596	Standard error	0.0342	95% CI	0.529 to 0.663	<p>DASH29: Sleeping difficulty due to arm, shoulder, hand pain</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.572</td></tr> <tr><td>Standard error</td><td>0.0349</td></tr> <tr><td>95% CI</td><td>0.503 to 0.64</td></tr> </table>	Weighted Kappa	0.572	Standard error	0.0349	95% CI	0.503 to 0.64
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<p>DASH20: Manage transport needs</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.663</td></tr> <tr><td>Standard error</td><td>0.0334</td></tr> <tr><td>95% CI</td><td>0.597 to 0.728</td></tr> </table>	Weighted Kappa	0.663	Standard error	0.0334	95% CI	0.597 to 0.728	<p>DASH25: Arm, shoulder, hand pain – specific activity</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.540</td></tr> <tr><td>Standard error</td><td>0.0368</td></tr> <tr><td>95% CI</td><td>0.467 to 0.612</td></tr> </table>	Weighted Kappa	0.540	Standard error	0.0368	95% CI	0.467 to 0.612	<p>DASH30: Capability/ confidence due to arm, shoulder, hand</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.564</td></tr> <tr><td>Standard error</td><td>0.0344</td></tr> <tr><td>95% CI</td><td>0.497 to 0.632</td></tr> </table>	Weighted Kappa	0.564	Standard error	0.0344	95% CI	0.497 to 0.632
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<p>WM1: Work usual way</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.618</td></tr> <tr><td>Standard error</td><td>0.0627</td></tr> <tr><td>95% CI</td><td>0.495 to 0.74</td></tr> </table> <p>WM2: Arm shoulder hand pain</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.579</td></tr> <tr><td>Standard error</td><td>0.0607</td></tr> <tr><td>95% CI</td><td>0.46 to 0.698</td></tr> </table> <p>WM3: Working as well as I would like</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.587</td></tr> <tr><td>Standard error</td><td>0.0605</td></tr> <tr><td>95% CI</td><td>0.469 to 0.706</td></tr> </table> <p>WM4: Working usual amount of time</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.490</td></tr> <tr><td>Standard error</td><td>0.0705</td></tr> <tr><td>95% CI</td><td>0.352 to 0.629</td></tr> </table>	Weighted Kappa	0.618	Standard error	0.0627	95% CI	0.495 to 0.74	Weighted Kappa	0.579	Standard error	0.0607	95% CI	0.46 to 0.698	Weighted Kappa	0.587	Standard error	0.0605	95% CI	0.469 to 0.706	Weighted Kappa	0.490	Standard error	0.0705	95% CI	0.352 to 0.629	<p>SPAM1: Play usual way</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.694</td></tr> <tr><td>Standard error</td><td>0.102</td></tr> <tr><td>95% CI</td><td>0.493 to 0.894</td></tr> </table> <p>SPAM2: Arm shoulder hand pain</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.716</td></tr> <tr><td>Standard error</td><td>0.0807</td></tr> <tr><td>95% CI</td><td>0.558 to 0.874</td></tr> </table> <p>SPAM3: Play as well as I would like</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.770</td></tr> <tr><td>Standard error</td><td>0.0669</td></tr> <tr><td>95% CI</td><td>0.639 to 0.901</td></tr> </table> <p>SPAM4: Playing usual amount of time</p> <table border="1"> <tr><td>Weighted Kappa</td><td>0.773</td></tr> <tr><td>Standard error</td><td>0.0600</td></tr> <tr><td>95% CI</td><td>0.655 to 0.89</td></tr> </table>	Weighted Kappa	0.694	Standard error	0.102	95% CI	0.493 to 0.894	Weighted Kappa	0.716	Standard error	0.0807	95% CI	0.558 to 0.874	Weighted Kappa	0.770	Standard error	0.0669	95% CI	0.639 to 0.901	Weighted Kappa	0.773	Standard error	0.0600	95% CI	0.655 to 0.89	
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