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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

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<b>Authors</b>	Hammond, A, Prior, Y 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)
<b>1 BODY FUNCTIONS:</b>	
<b>b130 Energy and drive functions</b>	
<b>b134 Sleep functions</b>	29. During the past week, how much difficulty have you had in sleeping because of the pain in your arm, shoulder or hand
<b>b152 Emotional functions</b>	
<b>b180 Experience of self and time functions</b>	
<b>b1801 Body image</b>	
<b>b2800 Generalized pain</b>	
<b>b2801 Pain in body part</b>	
<b>b28010 Pain in head and neck</b>	
<b>b28013 Pain in back</b>	
<b>b28014 Pain in upper limb</b>	24 Arm, shoulder or hand pain 25 Arm, shoulder or hand pain when performing specific activities
<b>b28015 Pain in lower limb</b>	
<b>b28016 Pain in joints</b>	24 Arm, shoulder or hand pain 25 Arm, shoulder or hand pain when performing specific activities.
<b>b430 Haematological system functions</b>	
<b>b510 Ingestion functions</b>	
<b>b640 Sexual functions</b>	
<b>b7102 Mobility of joints generalized</b>	19 Recreational activities in which you move your arm freely (e.g. playing Frisbee, badminton etc)
<b>b715 Stability of joint functions</b>	
<b>b740 Muscle endurance functions</b>	
<b>b770 Gait pattern functions</b>	

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**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)

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	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)
<b>d455 Moving around</b>	
<b>d460 Moving around in different locations</b>	
<b>d465 Moving around using equipment</b>	
<b>d470 Using transportation</b>	20 Manage transport needs (getting from one place to another)
<b>d475 Driving</b>	20 Manage transport needs (getting from one place to another) (d4751 driving motorized vehicles)
<b>d510 Washing oneself</b>	14 Wash your back (d5100 Washing body parts)
<b>d520 Caring for body parts</b>	13 Wash or blow dry your hair (d5202 Caring for hair)
<b>d530 Toileting</b>	
<b>d540 Dressing</b>	15 Put on a jumper (d5400 Putting on clothes)
<b>d550 Eating</b>	16 Use a knife to cut food
<b>d560 Drinking</b>	
<b>d570 Looking after one`s health</b>	
<b>d620 Acquisition of goods and services</b>	
<b>d630 Preparing meals</b>	4 Prepare a meal
<b>d640 Doing housework</b>	7 Do heavy household jobs (e.g. wash windows, clean floors) (d6402 Clean living area) 9 Make a bed
<b>d660 Assisting others</b>	
<b>d760 Family relationships</b>	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?
<b>d770 Intimate relationships</b>	21 Sexual activities (d7702 sexual relationships)
<b>d859 Work and employment, other specified and unspecified</b>	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?

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**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.

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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><b>DASH1: Open jar</b></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>	Weighted Kappa	0.652	Standard error	0.0307	95% CI	0.592 to 0.712	<p><b>DASH6: Place object on shelf</b></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>	Weighted Kappa	0.690	Standard error	0.0257	95% CI	0.64 to 0.74	<p><b>DASH11: Carry heavy object</b></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>	Weighted Kappa	0.699	Standard error	0.0288	95% CI	0.642 to 0.755
Weighted Kappa	0.652																			
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<p><b>DASH2: Write</b></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>	Weighted Kappa	0.717	Standard error	0.0326	95% CI	0.654 to 0.781	<p><b>DASH7: Heavy household jobs</b></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>	Weighted Kappa	0.712	Standard error	0.0265	95% CI	0.66 to 0.764	<p><b>DASH12: Change a light bulb</b></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>	Weighted Kappa	0.728	Standard error	0.0252	95% CI	0.678 to 0.777
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<p><b>DASH3: Turn a key</b></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>	Weighted Kappa	0.679	Standard error	0.0320	95% CI	0.616 to 0.742	<p><b>DASH8: Garden/ property work</b></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>	Weighted Kappa	0.722	Standard error	0.0261	95% CI	0.671 to 0.773	<p><b>DASH13: Wash/ blow hair</b></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>	Weighted Kappa	0.723	Standard error	0.0285	95% CI	0.667 to 0.779
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<p><b>DASH4: Prepare meal</b></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>	Weighted Kappa	0.732	Standard error	0.0310	95% CI	0.671 to 0.793	<p><b>DASH9: Make bed</b></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>	Weighted Kappa	0.648	Standard error	0.0307	95% CI	0.588 to 0.708	<p><b>DASH14: Wash back</b></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>	Weighted Kappa	0.693	Standard error	0.0283	95% CI	0.637 to 0.748
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<p><b>DASH5: Open heavy door</b></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	0.682	Standard error	0.0295	95% CI	0.624 to 0.74	<p><b>DASH10: Carrying shopping bag</b></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	0.611	Standard error	0.0320	95% CI	0.548 to 0.673	<p><b>DASH15: Put on jumper</b></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	0.653	Standard error	0.0321	95% CI	0.59 to 0.716
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Weighted Kappa	0.653																			
Standard error	0.0321																			
95% CI	0.59 to 0.716																			

<p><b>DASH16: Use knife to cut food</b></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><b>DASH21: Sexual activities</b></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><b>DASH26: Tingling in arm, shoulder, hand</b></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><b>DASH17: Recreational activities – little effort</b></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><b>DASH22: Past week – norm social act</b></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><b>DASH27: Weakness in arm, shoulder, hand</b></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><b>DASH18: Recreational activities – force or impact</b></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><b>DASH23: Past week – limited in work/ daily act</b></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><b>DASH28: Stiffness in arm, shoulder, hand</b></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><b>DASH19: Recreational activities move arm freely</b></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><b>DASH24: Arm, shoulder, hand pain</b></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><b>DASH29: Sleeping difficulty due to arm, shoulder, hand pain</b></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><b>DASH20: Manage transport needs</b></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><b>DASH25: Arm, shoulder, hand pain – specific activity</b></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><b>DASH30: Capability/ confidence due to arm, shoulder, hand</b></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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