

Supplementary Material S2. Mann-Whitney U results for barriers to beach access for disability and mobility status subgroups

Barrier	Mann-Whitney U Mobility vs. non-mobility disability	Barrier	Mann-Whitney U Mobility vs. non-mobility disability
Limited accessible parking	2325.500; $p = 0.158$ MR Mobility 74.02 MR Non-mobility 84.12 $r = -0.11$	Limited specialised beach mobility equipment	2580.000; $p = 0.683$ MR Mobility 78.46 MR Non-mobility 75.68 $r = -0.03$
Parking proximity to beach access point	2625.000; $p = 0.836$ MR Mobility 76.99 MR Non-mobility 78.47 $r = -0.02$	No hoist availability	2092.500; $p = 0.022$ MR Mobility 71.72 MR Non-mobility 88.52 $r = -0.18$
Physically challenging geography leading to beach	2501.000; $p = 0.473$ MR Mobility 79.24 MR Non-mobility 74.19 $r = -0.06$	Limited retail services within 150m	2384.000; $p = 0.246$ MR Mobility 74.60 MR Non-mobility 83.02 $r = -0.09$
Inaccessible leadup pathways to beach	2628.500; $p = 0.843$ MR Mobility 77.98 MR Non-mobility 76.59 $r = -0.02$	Inaccessible shaded recreational areas	2282.500; $p = 0.122$ MR Mobility 73.60 MR Non-mobility 84.93 $r = -0.12$
Inaccessible toilet	1891.000; $p = 0.002$ MR Mobility 69.73 MR Non-mobility 92.31 $r = -0.25$	Lack of physical assistance for transfers	2459.500; $p = 0.398$ MR Mobility 75.35 MR Non-mobility 81.59 $r = -0.07$
Inaccessible shower	1866.500; $p = 0.001$ MR Mobility 69.48 MR Non-mobility 92.78 $r = -0.26$	Lack of physical assistance available for beach activities	2582.500; $p = 0.713$ MR Mobility 76.57 MR Non-mobility 79.27 $r = -0.03$
Inaccessible change room	1925.500; $p = 0.003$ MR Mobility 70.06 MR Non-mobility 91.67 $r = -0.24$	Personal safety – fear of falling	2676.000; $p = 0.998$ MR Mobility 77.50 MR Non-mobility 77.49 $r = -0.00$
Difficulty moving – soft sand	2492.000; $p = 0.316$ MR Mobility 79.33 MR Non-mobility 74.02 $r = -0.08$	Personal safety – reduced confidence outdoor mobility	2617.000; $p = 0.815$ MR Mobility 76.91 MR Non-mobility 78.62 $r = -0.02$
Difficulty moving – hard sand	2473.500; $p = 0.422$ MR Mobility 75.49	Personal safety – fear of water	2564.000; $p = 0.658$ MR Mobility 76.39

	MR Non-mobility 81.33 r = -0.06	MR Non-mobility 79.62 r = -0.04
Difficult to access water	2660.500; p=0.944 MR Mobility 77.66 MR Non-mobility 77.20 r=-0.01	

Note: MR = mean rank. Cell shading is used to highlight the effect size in the Mann-Whitney-U test where significant between group differences were found (white = no significant difference; light blue = significant difference with small effect size ($r < 0.3$); mid blue = significant difference with moderate effect size ($r = 0.3 - < 0.5$); dark blue = significant difference with large effect size ($r \geq 0.5$)).