Supplementary Material

Rasch Measurement Theory (RMT) Analyses of the Huntington's Disease Everyday Functioning (Hi-DEF) to Evaluate Item Fit and Performance

Supplementary Table 1. Items removed after initial analyses to produce final 40-item Hi-DEF

Item number	Item description	Subscales	Reason(s) for removal
Item 1	Completing a one-step activity	Home	Dependence and conceptual overlap with item 2 (completing a multi-step activity) – item 1 removed due to being easier and showing less discrimination than item 2
Item 16	Adapting to last-minute change in plans	Home	Dependence and conceptual overlap with item 17 (able to respond to unexpected situations) – item 16 removed due to being less conceptually fitting with the 'Home' scale and being less relevant to higher functioning patients than item 17
Item 18	Getting to work on time	Work	Fit issues and disordering; likely affected by factors other than executive functioning, too general and not conceptually straightforward
Item 20	Completing a one-step activity	Work	Dependency and conceptual overlap with item 21 (completing a multi-step activity) – item 20 removed due to being easier and making less sense for this population (i.e., if someone has issues with this activity, they are most likely not working anymore)
Item 31	Driving a car safely	Driving	Disordering of response options
Item 40	Difficult getting your thoughts across in one-to-one conversations	Communicating	Dependency and conceptual overlap with item 41 (difficulty getting thoughts across in group conversations) – item 41 was retained over 40, as it is a more difficult item so is more sensitive to early problems
Item 45	Limit socializing with friends because of changes in thinking	Communicating	Dependency and similar wording to item 46 (limit social interactions because of changes in thinking) – the wording of item 46 was preferred as it covers all social interactions, not just with friends