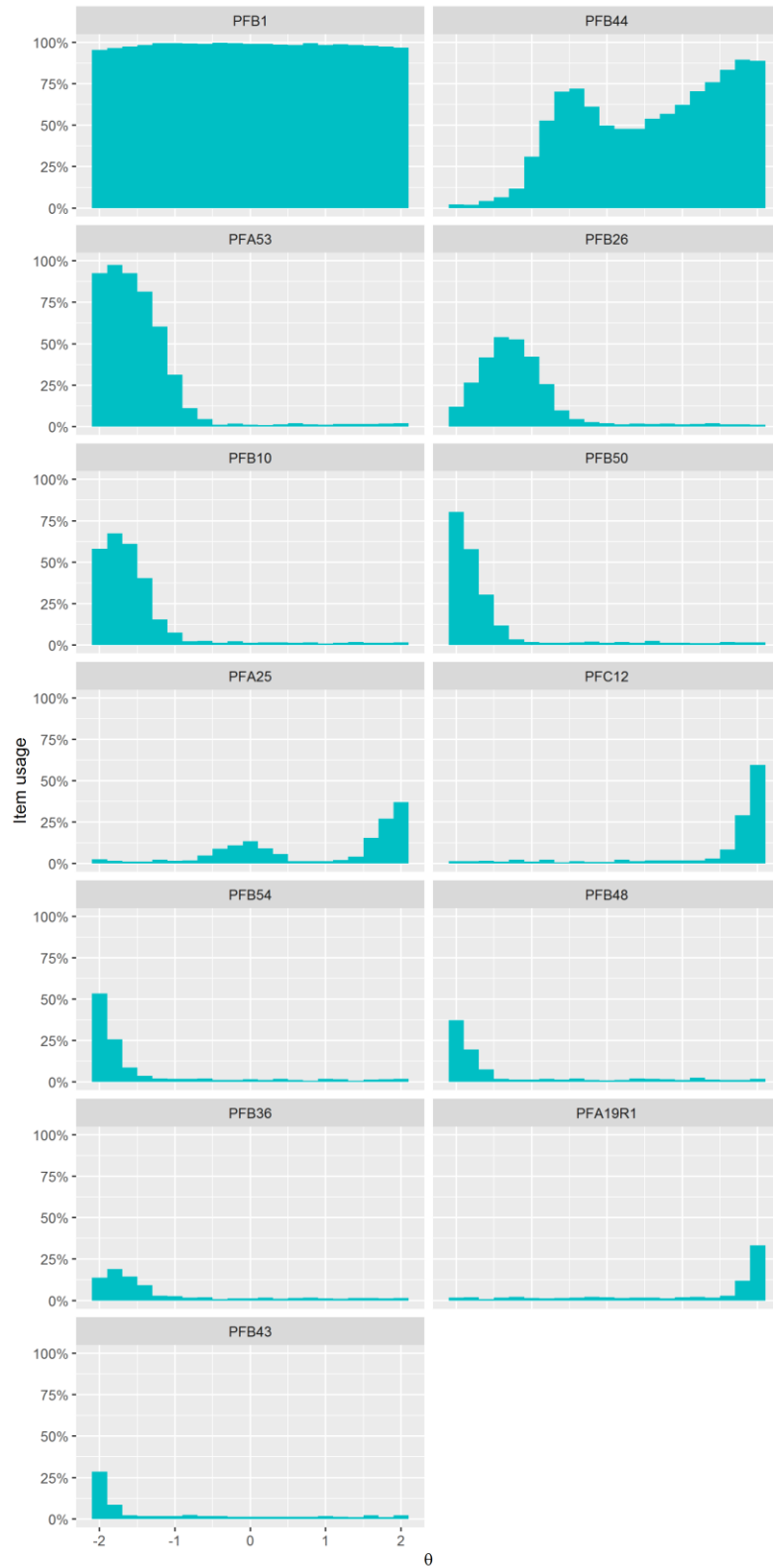


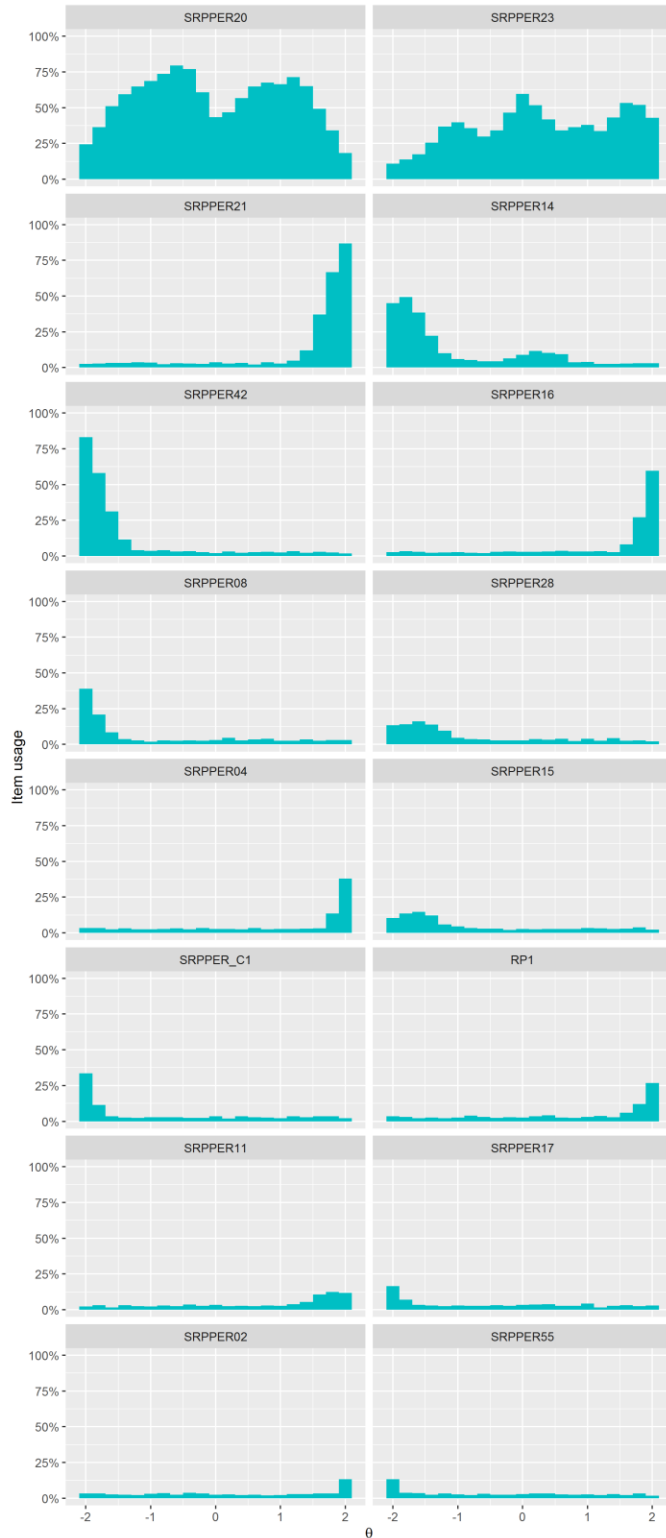
## Supplement 4 Item usage rates per dimension



**Fig. 1** Item usage rates for *fatigue* items for  $\theta$ -values between -2 and +2. Only items whose usage rate exceeded the expected usage rate for any  $\theta$ -value are depicted.



**Fig. 2** Item usage rates for *physical function* items for  $\theta$ -values between -2 and +2. Only items whose usage rate exceeded the expected usage rate for any  $\theta$ -value are depicted.



**Fig. 3** Item usage rates for *ability to participate in social roles and activities* items for  $\theta$ -values between -2 and +2. Only items whose usage rate exceeded the expected usage rate for any  $\theta$ -value are depicted.



**Fig. 4** Item usage rates for *COPD-SIB* items for  $\theta$ -values between -2 and +2. Only items whose usage rate exceeded the expected usage rate for any  $\theta$ -value are depicted.

This online supplement accompanies the following paper: *Item usage in a multidimensional computerized adaptive test measuring health-related quality of life* written by Muirne C. S. Paap, Karel Kroeze, Caroline B. Terwee, Job van der Palen, and Bernard P. Veldkamp.

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