



Figure 1. Item response model for MDS-UPDRS Part III. Left: Item scores relate to underlying severity, which mirrors the sum of score, through Item Characteristic Curves (ICCs). Upper right: the position and steepness of ICCs reflect an item's difficulty and ability to differentiate patient severity, respectively. The blue, pink, green and red curves describe the probabilities of having a score of not lower than 1, 2, 3 and 4, respectively. Lower right: The blue, pink, green, red and yellow Category Characteristic Curves (CCCs) describe the probabilities of having a score of 0, 1, 2, 3 and 4, respectively.