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| **Appendix A.** Measures of Item Difficulty and Fit from Rasch Analysis of the QOLIBRI-OS |
| **QOLIBRI-OS items** | **Item difficulty measure** | **Infit MNSQ** | **Infit Z** | **Outfit MNSQ** | **Outfit Z** |
| Physical condition | 0.32 | 1.05 | 0.9 | 1.07 | 1.4 |
| How brain is working, in terms of concentration, memory and thinking | 0.23 | 1.11 | 2.2 | 1.12 | 2.3 |
| Feelings and emotions | -0.01 | 1.04 | 0.8 | 1.02 | 0.5 |
| Ability to carry out day to day activities | -0.35 | 0.99 | -0.3 | 0.94 | -1.2 |
| Personal and social life | -0.38 | 1 | 0.1 | 0.93 | -1.4 |
| Current situation and future prospects | 0.19 | 0.81 | -4.1 | 0.8 | -4.4 |
| **Six items:** |
| Person real separation: 1.57 |
| Reliability: 0.71 |
|  |
| **Five items:** |
| Person real separation: 1.63 |
| Reliability: 0.73 |
| \* when the current situation and future prospects item has been excluded. |  |  |  |  |