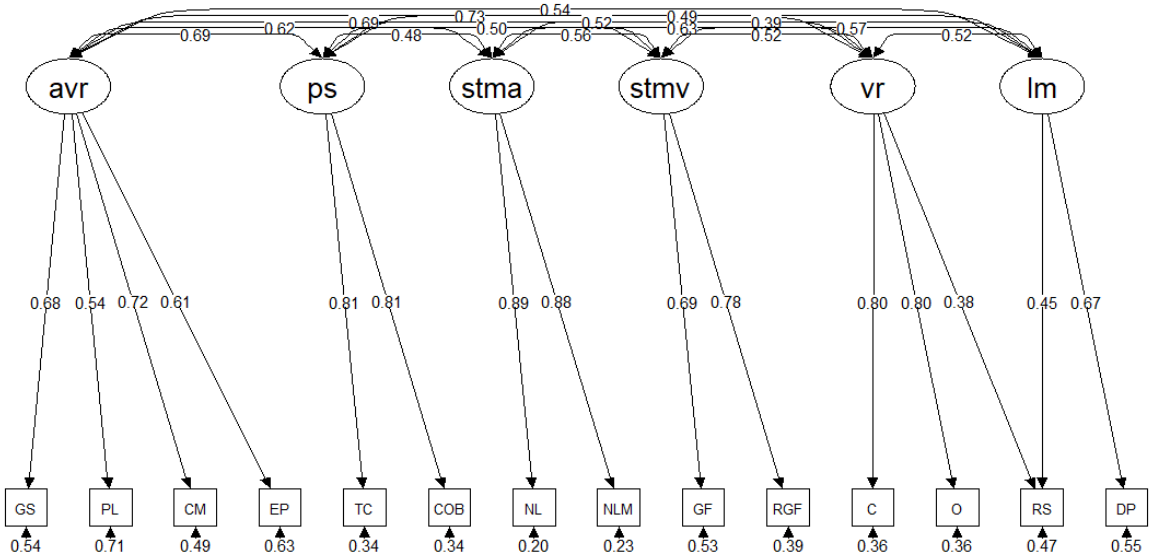


**Figure S1.** Confirmatory factor analysis of the intelligence subtests included in the Intelligence and Development Scales [22]. Latent variables are represented by ovals; manifest indicators are depicted as squares. avr = *Abstract Visual Reasoning*, ps = *Processing Speed*, stma = *Auditive Short-Term Memory*, stmv = *Visuo–Spatial Short-Term Memory*, vr = *Verbal Reasoning*, lm = *Long-Term Memory*, GS = "Geometric Shapes", PL = "Plates", CM = "Completing Matrices", EP = "Excluding Pictures" ,TC = "Two Characteristics", COB = "Crossing-Out Boxes", NL = "Numbers/Letters", NLM = "Numbers/Letters Mixed", GF = "Geometric Figures", RGF = "Rotated Geometric Figures", C = "Categories", O = "Opposites", RS = "Retelling a Story", DP = "Describing a Picture".

**Table S1.** Absolute and relative frequencies of demographic characteristics

| Characteristic | Full sample ($N$ = 1540) | | BID subsample ($n$ = 255) | |
|---|---|---|---|---|
| Gender | | | | |
| Male | 738 | (47.92) | 143 | (56.1) |
| Female | 802 | (52.08) | 112 | (43.9) |
| Age | | | | |
| 8 | 163 | (10.6) | 61 | (10.2) |
| 9 | 153 | (9.9) | 62 | (7.8) |
| 10 | 142 | (9.2) | 64 | (10.6) |
| 11 | 145 | (9.4) | 51 | (9.4) |
| 12 | 119 | (7.7) | 49 | (7.5) |
| 13 | 102 | (6.6) | 37 | (10.2) |
| 14 | 133 | (8.6) | 51 | (8.2) |
| 15 | 120 | (7.8) | 53 | (7.5) |
| 16 | 93 | (6.0) | 31 | (7.1) |
| 17 | 87 | (5.6) | 42 | (5.5) |
| 18 | 79 | (5.1) | 35 | (3.5) |
| 19 | 101 | (6.6) | 30 | (5.9) |
| 20 | 103 | (6.7) | 32 | (6.7) |
| Residency | | | | |
| Swiss | 820 | (53.2) | 91 | (35.7) |
| German | 649 | (42.1) | 155 | (60.8) |
| Others | 71 | (4.6) | 9 | (3.5) |
| Educational status (mother) | | | | |
| Compulsory education | 174 | (11.6) | 57 | (34.7) |
| Upper-secondary vocational training | 561 | (37.3) | 261 | (36.3) |
| Upper-secondary general education | 91 | (6.0) | 34 | (5.2) |
| Higher vocational training | 124 | (8.2) | 54 | (4.4) |
| Universities | 531 | (35.3) | 171 | (15.1) |
| Unknown | 25 | (1.7) | 9 | (4.4) |

*Note*. BID = borderline intellectual disability (IQ ≤ 85). Percental frequencies are rounded to one decimal digit and are presented in brackets. Educational status groups according to Swiss Bundesamt für Statistik [22].

**Table S2.** Descriptive statistics of the indicators within the full sample (N = 1540)

| | *M* | *SD* | min | max | skew | kurtosis |
|---|---|---|---|---|---|---|
| GS | 10.08 | 3.208 | 1 | 19 | -0.079 | 0.325 |
| PL | 10.08 | 3.130 | 1 | 19 | -0.145 | 0.317 |
| RS | 10.08 | 3.118 | 1 | 19 | -0.375 | 0.467 |
| DP | 10.30 | 3.104 | 1 | 19 | 0.136 | 0.310 |
| TC | 9.94 | 3.056 | 1 | 19 | -0.234 | 0.983 |
| COB | 9.95 | 3.135 | 1 | 19 | -0.082 | 0.691 |
| NL | 10.38 | 3.243 | 1 | 19 | -0.195 | 0.509 |
| NLM | 10.39 | 3.093 | 1 | 19 | -0.251 | 0.799 |
| GF | 10.14 | 3.047 | 1 | 19 | 0.533 | 0.522 |
| RGF | 10.11 | 3.162 | 1 | 19 | 0.251 | 0.884 |
| CM | 10.25 | 3.194 | 1 | 19 | 0.029 | -0.104 |
| EP | 10.20 | 3.174 | 1 | 19 | -0.116 | 0.249 |
| C | 10.37 | 3.256 | 1 | 19 | -0.388 | 0.488 |
| O | 10.31 | 3.061 | 1 | 19 | -0.352 | 0.665 |
| LW | 9.83 | 3.147 | 1 | 19 | -0.096 | -0.012 |
| AC | 9.89 | 3.090 | 1 | 19 | -0.152 | 0.157 |
| DA | 9.94 | 2.494 | 1 | 18 | -0.413 | 0.701 |
| DR | 10.10 | 2.567 | 1 | 17 | -0.337 | 0.052 |

*Note.* GS = "Geometric Shapes", PL = "Plates", RS = "Retelling a Story", DP = "Describing a Picture", TC = "Two Characteristics", COB = "Crossing-Out Boxes", NL = "Numbers/Letters", NLM = "Numbers/Letters Mixed", GF = "Geometric Figures", RGF = "Rotated Geometric Figures", CM = "Completing Matrices", EP = "Excluding Pictures", C = "Categories", O = "Opposites", LW = "Listing Words", AC = "Animal Colors", DA = "Divide Attention", DR = "Drawing Routes".

**Table S3.** Factor loadings of the exploratory factor analysis of the executive function tasks

| | **PA1** | **$h^2$** | **u** |
|---|---|---|---|
| LW | 0.746 | 0.556 | 0.44 |
| AC | 0.517 | 0.267 | 0.73 |
| DA | 0.905 | 0.819 | 0.18 |
| DR | 0.299 | 0.089 | 0.91 |

*Note*: The principal axis approach was used for the exploratory factor analysis. Loadings above 0.3 are in bold face. PA1 = first principal axis extracted, h2 = communality, u = uniqueness. LW = "Listing Words", AC = "Animal Colors", DA = "Divide Attention", DR = "Drawing Routes".

**Table S4.** Factor loadings of the exploratory factor analysis of the executive function tasks within the (borderline) intellectual disability subsample, excluding multivariate outliers ($n$ = 220)

| | **PA1** | **$h^2$** | **u** |
|---|---|---|---|
| LW | 0.738 | 0.545 | 0.455 |
| AC | 0.574 | 0.329 | 0.671 |
| DA | 0.971 | 0.943 | 0.057 |
| DR | 0.428 | 0.183 | 0.817 |

*Note*: The principal axis approach was used for the exploratory factor analysis. PA1 = first principal axis extracted, h2 = communality, u = uniqueness. LW = "Listing Words", AC = "Animal Colors", DA = "Divide Attention", DR = "Drawing Routes".

**Table S5.** Explorative analyses: maximum likelihood estimation and model fit statistics within the (borderline) intellectual disability subsample, excluding multivariate outliers ($n$ = 220).

| | Fit indices | | | | | | |
|---|---|---|---|---|---|---|---|
| **Model** | $\chi^2$ | *df* | **CFI** | **RMSEA** | **SRMR** | **AIC** | **BIC** |
| Measurement models | | | | | | | |
| Intelligence | 98.58 | 67 | 0.974 | 0.045 | 0.037 | 7003.44 | 7179.91 |
| EF | 2.47 | 2 | 0.999 | 0.030 | 0.019 | 2227.27 | 2268.00 |
| Main analyses | | | | | | | |
| M1 | 169.80 | 120 | 0.973 | 0.040 | 0.044 | 10754.34 | 10998.69 |
| M2 | 224.36 | 129 | 0.948 | 0.054 | 0.054 | 10792.14 | 11004.62 |
| M2a | 436.296 | 130 | 0.830 | 0.097 | 0.206 | 11009.77 | 11218.70 |
| M2b | 255.01 | 130 | 0.931 | 0.062 | 0.092 | 10822.70 | 11031.63 |

*Note*: The variances of the latent variables were constrained to unity to ensure model identification. Intelligence measurement model including five broad abilities in accordance with Grieder and Grob [84]. M1 = first-order CFA including six intelligence factors and one EF factor, M2 = second-order CFA: M1 additionally including the superordinate g-factor, M2a = M2 with the loading of g onto the EF factor fixed to 0, M2b = M2 with the loading of g onto the EF factor fixed to 1. CFI = comparative fit index, RMSEA = root mean square error of approximation, CI = 90% confidence interval for RMSEA, SRMR = standardized root mean square residual, AIC = Akaike's information criterion, BIC = Bayesian information criterion.