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| --- | --- | --- |
| Distribution of growth measures within each cohort | | |
| Growth measure | TARGet Kids! cohort  *mean* ±*SD* | Pelotas cohort  *mean* ±*SD* |
| Height (cm) | 85.00 ±23.20  nvar = 46,494, nNAs = 1,269 | 89.79 ±31.88  nvar = 26,078, nNAs = 1,964 |
| Weight (kg) | 12.36 ±7.27  nvar = 47,689, nNAs = 74 | 15.76 ±13.32  nvar = 25,805, nNAs = 2,237 |
| zBMI | -0.13 ±1.15  nvar = 46,048, nNAs = 1,715 | 0.23 ±1.29  nvar = 25,634, nNAs = 2,408 |
| zwei | 0.17 ±1.06  nvar = 45,752, nNAs = 2,011 | -0.01±1.26  nvar = 22,357, nNAs = 5,685 |
| zlen | 0.47±1.26  nvar = 44,925, nNAs = 2,838 | -0.13 ±1.17  nvar = 26,027, nNAs = 2,015 |
| *Abbreviations*: TARGet Kids!, The Applied Research Group for Kids; zBMI, zwei, zlen BMI-for-age, weight-for-age and length/height-for-age Z-scores respectively; nvar, the total number of measurements; nNAs, number of Not Available measurements. Missing variables were imputed using cubic splines (Massara et al, 2021). | | |

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| Cluster sizes BIC, AIC and entropy values | | | | | | | | | |
| Growth measure | Model | Cluster 1 | Cluster 2 | Cluster 3 | Cluster 4 | BIC | AIC | Entropy |
| zbmi Pelotas | M4\_4 | 1546 | 410 | 1022 | 840 | 70846 | 70715 | 0.6190 |
| zwei Pelotas\*\* | M2\_3 | 2923 | 895 | - | - | 57532 | 57476 | 0.7611 |
| Zlen Pelotas\*\* | M3\_4 | 1182 | 2159 | 477 | - | 58341 | 58241 | 0.7366 |
| Zbmi  TARGet Kids! | M3\_5 | 413 | 182.00 | 539.00 | - | 30749 | 30668 | 0.8754 |
| zlen TARGet Kids! | M4\_4 | 363 | 487 | 124 | 160 | 29300 | 29194 | 0.8392 |
| zwei TARGet Kids! | M2\_3 | 836 | 298 | - | - | 91381 | 91324 | 0.7245 |
| Zbmi  Pelotas 0-4 years | M4\_3 | 879 | 294 | 2517 | 128 | 52158 | 52052 | 0.6134 |
| zwei Pelotas 0-4 \*\* | M2\_3 | 2745 | 1073 | - | - | 48948 | 48892 | 0.698 |
| zlen Pelotas 0-4 \*\* | M4\_3 | 534 | 889 | 2306 | 89 | 45337 | 45231 | 0.721 |
| Zbmi  TK 0-4 years | M3\_3 | 104 | 332 | 698 | - | 14419 | 14353 | 0.644 |
| zwei  TK 0-4 years | M2\_3 | 849 | 285 | - | - | 11933 | 11888 | 0.848 |
| zlen TK 0-4 years | M4\_3 | 417 | 69 | 632 | 16 | 15041 | 14955 | 0.7285 |
| \*\*4 were not meaningful, they were merged to 2 for zwei and 3 for zlen respectively | | | | | | | | |