## Supplementary Table 1

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| Table e-1 AIC values |
| **Sample** | **Model** | **df** | **AIC value** |
| BrainSpan | Normalized DMPK ~ age.pcw.log | 3 | 304.1976 |
|  | Normalized DMPK ~ rcs(age.pcw.log, 3) | 4 | 299.5269 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 293.5196 \* |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 295.1371 |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 296.1188 |
| < 10 years | Normalized DMPK~ age.pcw.log | 3 | 232.9624 |
|  | Normalized DMPK~ rcs(age.pcw.log, 3) | 4 | 225.2453 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 226.9001 |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 224.9425 \* |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 226.8157 |
| ≥ 10 years | Normalized DMPK~ age.pcw.log | 3 | 61.27562  |
|  | Normalized DMPK~ rcs(age.pcw.log, 3) | 4 | 62.76334 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 64.40862 |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 60.79395 \* |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 61.87854 |
| Yale | Normalized DMPK~ age.pcw.log | 3 | 67.85525 |
|  | Normalized DMPK~ rcs(age.pcw.log, 3) | 4 | 61.80414 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 51.01796 \* |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 53.32977 |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 54.68222 |
| < 10 years | Normalized DMPK~ age.pcw.log | 3 | 32.59534 |
|  | Normalized DMPK~ rcs(age.pcw.log, 3) | 4 | 20.25576 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 22.45634 |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 19.16357 |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 17.88074 \* |
| ≥ 10 years | Normalized DMPK~ age.pcw.log | 3 | 6.082945 \* |
|  | Normalized DMPK~ rcs(age.pcw.log, 3) | 4 | 8.065987 |
|  | Normalized DMPK~ rcs(age.pcw.log, 4) | 5 | 10.003401 |
|  | Normalized DMPK~ rcs(age.pcw.log, 5) | 6 | 11.258881 |
|  | Normalized DMPK~ rcs(age.pcw.log, 6) | 7 | 12.307163 |

**\*** indicates AIC used for each model