**Supplementary file 1:** Demographics of participating subjects who went through MRI scans at birth and was assessed with Bayley tests at their 2 years of age. aC for C-section and V for vaginal birth; b B for breast-feeding and F for formula; wks: postmenstrual weeks.

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|  | **Age range (wks)** | **Age mean (wks)** | **Age****>37wks****n(%)** |  | **Weight range (kgs)** | **Weight mean (kgs)** | **Male n(%)** | **White n(%)** | **Mode of delivery a** | **Feeding practice b** | **Antibiotic exposure during pregnancy** |
| Cohort with MRI scan(n=87) | At birth | 26.0-41.4  | 33.6 | 23(26) |  | 0.8-4.1 | 2.1 | 58 (67) | 61(70) | C:33; V:54 | B: 87; F: 0 | Yes |
| Atscan | 31.9-41.7 | 37.0 | 41(47) |  | 1.4-4.1 | 2.5 |  |
| Cohort with Bayley exam(n=46) | Atbirth | 25.0-41.4 | 32.4 | 8(17) |  | 0.8-3.9 | 1.8 | 33 (72) | 34(74) | C: 17;V: 29 | B: 46; F: 0 | Yes |
| Atscan | 31.9-41.7 | 36.7 | 17(37) |  | 1.4-3.9 | 2.4 |  |