**APPENDIX: SUPPLEMENTARY DATA**

Table A: Components of the adapted version of the Frailty phenotype by Rockwood et al. (Rockwood et al., 2007b).

|  |  |
| --- | --- |
| **Component**  | **Measure**  |
| **Weight loss**  | Self-reported unintentional weight loss of ≥ 5 % in the prior year or loss of ≥ 3 kilograms in the last three months.  |
| **Exhaustion**  | Self-reported exhaustion identified by statement number 13 of the Dutch version of The Geriatric Depression Scale (GDS) “Do you feel full of energy?” in the last two weeks or by the Hospital Anxiety and Depression scale question “I feel that everything is an effort”, in which the answers “all the time” and “often were scored as exhausted. |
| **Mobility**  | Ability to walk without difficulty or assistance according to (Rockwood et al., 2007a), determined by self-report of a statement about mobility and walking from the EuroQOL five dimensions questionnaire. |
| **Weakness**  | Low maximal hand grip strength measured with a Smedley spring hand dynamometer adjusted for gender and body mass index.  |
| **Slowness**  | Low gait speed based on the Timed Up and Go test (TUG) (a score lower than or equal to 10 seconds was scored as fast, more than 10 seconds was scored as slow) (Savva et al., 2013).  |

Table B: Demographics of the group without cortical brain infarcts over 1.5 cm.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Total (n=195)** | **Frail (n=27)** | **Pre-frail (n=95)** | **Non-frail (n=73)** |  | **p-value** |
| Age  | 72.3 ± 5.0 | 74.1 ± 5.6 | 72.4 ± 5.0 | 71.4 ± 4.5 |  | 0.047 |
| Female gender | 72 (37%) | 16 (60%) | 33 (35%) | 23 (32%) |  | 0.03 |
| MMSE  | 29 (28-30) | 28 (27-29) | 29 (28-30) | 29 (28-30) |  | 0.02 |
| Study center |  |  |  |  |  | 0.20 |
| Utrecht | 66 (34%) | 10 (37%) | 37 (39%) | 19 (26%) |  |  |
| Berlin | 129 (66%) | 17 (63%) | 58 (61%) | 54 (74%) |  |  |
| ASA score (N=193)\* |  |  |  |  |  | 0.04 |
| I | 12 (6%) | 0 | 4 (4%) | 8 (11%) |  |  |
| II | 124 (64%) | 15 (58%) | 58 (62%) | 51 (70%) |  |  |
| III | 57 (30%) | 11 (42%) | 32 (34%) | 14 (19%) |  |  |
| Vascular risk factors† |  |  |  |  |  |  |
| Diabetes  | 21 (11%) | 2 (7%) | 11 (12%) | 8 (11%) |  | 0.24 |
| BMI | 27 (24-29) | 29 (26-34) | 26 (24-30) | 27 (24-28) |  | 0.40 |
| Hypertension | 114 (58%) | 18 (67%) | 57 (60%) | 39 (53%) |  | 0.17 |
| Hyperlipidemia | 45 (23%) | 7 (26%) | 25 (26%) | 13 (18%) |  | 0.16 |
| Current smoker | 23 (12%) | 1 (4%) | 12 (13%) | 10 (14%) |  | 0.29 |
| Self-reported previous cardiovascular events (stroke, infarcts) | 5 (3%) | 1 (4%) | 2 (2%) | 2 (3%) |  | 0.21 |

Data represent N, N (percentage), mean±SD or the median (interquartile range). A one-way ANOVA comparison of three groups was performed on continuous data. A chi-square comparison of three groups was performed for categorical data. In preoperative ASA scores, two values were missing, therefore a percentage of N=193 participants was calculated. † In vascular risk factors three values were missing, therefore a percentage of N=192 participants was calculated.