## Supplementary Information

### Supplementary Table 1. Leuven Oncogeriatric Frailty score

| Geriatric test | LOFS +2 | LOFS +1 | LOFS +0 |
|----------------|---------|---------|---------|
| ADL            | 6       | 5 - 4   | ≤ 3     |
| iADL           | 8       | 7 - 4   | ≤ 3     |
| MMSE           | 30 - 28 | 27 - 24 | ≤ 23    |
| MNA            | 14 - 12 | 11 - 8  | ≤ 7     |
| CCI            | 0       | 1       | ≥ 2     |

### Supplementary Table 2. Spearman correlations between biomarkers and continuous geriatric assessment scores in the old cohort

| GA scores   | Telomeres | IGF-1  | MCP-1  | RANTES |
|-------------|-----------|--------|--------|--------|
|             | N   | rₖ   | p     | N   | rₖ   | p     | N   | rₖ   | p     | N   | rₖ   | p     |
| LOFS        | 109 | 0.048 | 0.6174 | 114 | 0.124 | 0.1897 | 130 | -0.017 | 0.8463 | 130 | -0.025 | 0.7799 |
| ECOG        | 120 | -0.068 | 0.4616 | 127 | -0.094 | 0.2937 | 150 | -0.026 | 0.7559 | 150 | 0.031 | 0.7108 |
| TRST        | 120 | 0.041 | 0.6604 | 132 | -0.016 | 0.8537 | 157 | 0.001 | 0.9927 | 157 | -0.066 | 0.4111 |
| G8          | 120 | -0.015 | 0.8740 | 118 | 0.041 | 0.6628 | 139 | -0.112 | 0.1894 | 139 | 0.010 | 0.9066 |
| ADL24       | 120 | 0.092 | 0.3162 | 123 | -0.139 | 0.1243 | 146 | 0.002 | 0.9770 | 146 | 0.111 | 0.1815 |
| IADL8       | 108 | 0.056 | 0.5652 | 123 | 0.073 | 0.4211 | 141 | 0.085 | 0.3153 | 141 | 0.007 | 0.9326 |
| MMSE        | 120 | 0.088 | 0.3380 | 130 | 0.071 | 0.4192 | 153 | 0.153 | 0.0596 | 153 | -0.058 | 0.4781 |
| GDS_15      | 120 | 0.131 | 0.1542 | 130 | -0.026 | 0.7653 | 153 | -0.146 | 0.0719 | 153 | 0.015 | 0.8530 |
| MNA14       | 120 | -0.054 | 0.5559 | 118 | 0.096 | 0.2995 | 139 | -0.053 | 0.5327 | 139 | 0.037 | 0.6662 |
| MNA30       | 56  | 0.040 | 0.7681 | 51  | 0.089 | 0.5327 | 66  | -0.089 | 0.4763 | 66  | 0.029 | 0.8162 |
| CCI         | 120 | 0.009 | 0.9182 | 133 | -0.195 | 0.0248 | 158 | 0.123 | 0.1244 | 158 | -0.055 | 0.4905 |
Supplementary Figure 1. LOFS distribution among older patients.

Supplementary Figure 2. Histogram of the age distribution of the study population. (A) young patients group (median age = 40 years, IQR = 37 – 44). (B) older patients group (median age = 76 years, IQR = 72 – 80).