Supplemental table S1. Primary, secondary and tertiary causes of death reported.

|                          | Primary causes of death n=105 | Secondary causes of death n=87 | Tertiary causes of death n=60 |
|--------------------------|-------------------------------|-------------------------------|-------------------------------|
| Cancer                   | 48 (45.7%)                    | 31 (35.6%)                    | 6 (10.0%)                     |
| Cardiovascular disorders | 17 (16.2%)                    | 24 (27.6%)                    | 15 (25.0%)                    |
| Infectious diseases      | 12 (11.4%)                    | 5 (5.7%)                      | 5 (8.3%)                      |
| Neurological disorders   | 11 (10.5%)                    | 6 (6.9%)                      | 6 (10.0%)                     |
| Respiratory tract disorders | 9 (8.6%)                    | 18 (20.7%)                    | 15 (25.0%)                    |
| Others                   | 8 (7.6%)                      | 3 (3.4%)                      | 13 (21.7%)                    |
**Supplemental table S2. Mortality and physical conditions by physical and mental multimorbidity, N=1570**

| Condition                          | ≤1 physical condition or ≤1 mental disorder (n=81) | ≥2 physical conditions without a mental disorder (n= 946) | ≥2 physical conditions with a mental disorder (n= 543) |
|-----------------------------------|--------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|
|                                   | Death No | Death Yes | p-value$^a$ | Death No | Death Yes | p-value$^b$ | Death No | Death Yes | p-value$^c$ |
| n=79                              | 0.7 ± 0.4 | 0.5 ± 0.7 | 0.44        | 5.1 ± 2.1 | 6.4 ± 2.4 | <0.001     | 6.1 ± 2.3 | 6.6 ± 2.4 | 0.15       |
| Number of physical conditions (Mean ± SD) | 0.7 ± 0.4 | 0.5 ± 0.7 | 0.44        | 5.1 ± 2.1 | 6.4 ± 2.4 | <0.001     | 6.1 ± 2.3 | 6.6 ± 2.4 | 0.15       |
| Arthropathy                       | 2 (2%)   | 0         | 1.00        | 444 (50%) | 37 (60%)  | 0.15       | 301 (60%) | 24 (58%)  | 0.86       |
| Cancer                            | 5 (6%)   | 0         | 1.00        | 234 (26%) | 27 (43%)  | 0.004      | 130 (26%) | 23 (56%)  | <0.001     |
| Cardiovascular disease            | 2 (2%)   | 0         | 1.00        | 310 (35%) | 38 (61%)  | <0.001     | 227 (45%) | 27 (66%)  | 0.01       |
| Dermatologic conditions           | 5 (6%)   | 0         | 1.00        | 269 (30%) | 17 (27%)  | 0.62       | 205 (41%) | 16 (39%)  | 0.82       |
| Diabetes                          | 4 (5%)   | 1 (50%)   | 0.12        | 263 (30%) | 28 (45%)  | 0.01       | 117 (23%) | 19 (46%)  | 0.001      |
| Eye disease                       | 8 (10%)  | 0         | 1.00        | 377 (43%) | 34 (55%)  | 0.06       | 233 (46%) | 13 (32%)  | 0.07       |
| Condition                      | Count (%)       | p-value<sup>a</sup> | Count (%)       | p-value<sup>b</sup> |
|--------------------------------|-----------------|----------------------|-----------------|----------------------|
| Gastrointestinal diseases     | 5 (6%)          | 0.07                 | 196 (22%)       | 0.07                 |
| Genitourinary disease         | 3 (4%)          | 0.03                 | 255 (29%)       | 0.03                 |
| Headaches                     | 0               | 0.29                 | 67 (8%)         | 0.29                 |
| Hyperlipidemia                | 3 (4%)          | 0.25                 | 409 (46%)       | 0.25                 |
| Hypertension                  | 13 (16%)        | 0.37                 | 623 (70%)       | 0.37                 |
| Liver disease                 | 0               | 0.21                 | 30 (3%)         | 0.21                 |
| Musculoskeletal conditions    | 4 (5%)          | 0.05                 | 388 (44%)       | 0.05                 |
| Respiratory tract disease     | 1 (1%)          | 0.06                 | 194 (22%)       | 0.06                 |
| Thyroid problem               | 2 (2%)          | 0.33                 | 208 (23%)       | 0.33                 |

<sup>a</sup>: from Fisher’s exact test

<sup>b</sup>: from Chi-square statistic