**Supplementary Table 1.** Number of symptoms simultaneously experienced by the 865 study patients at baseline.

|  |  |  |
| --- | --- | --- |
| **Number of symptoms** | **Patients** | |
| **N** | **%** |
| ≤4 | 68 | 7.9 |
| 5 | 57 | 6.6 |
| 6 | 75 | 8.7 |
| 7 | 87 | 10.1 |
| 8 | 89 | 10.3 |
| 9 | 109 | 12.6 |
| 10 | 65 | 7.5 |
| 11 | 64 | 7.4 |
| 12 | 85 | 9.8 |
| 13 | 39 | 4.5 |
| 14 | 42 | 4.9 |
| ≥15 | 85 | 9.8 |

**Supplementary Table 2.** Most frequent combinations of concomitant symptoms among 865 patients at baseline.

|  |  |  |  |
| --- | --- | --- | --- |
| **Symptoms** | **N symptoms** | **Patients** | |
| **N** | **%** |
| Asthenia, Poor well-being | 2 | 595 | 68.9 |
| Asthenia, Lack of appetite | 2 | 591 | 68.3 |
| Asthenia, Drowsiness | 2 | 525 | 60.7 |
| Lack of appetite, Poor well-being | 2 | 518 | 60.0 |
| Lack of appetite, Asthenia, Poor well-being | 3 | 507 | 58.6 |
| Asthenia, Pain | 2 | 499 | 57.7 |
| Asthenia, Depression | 2 | 466 | 53.9 |
| Asthenia, Drowsiness, Poor well-being | 3 | 451 | 52.1 |
| Asthenia, Drowsiness, Lack of appetite | 3 | 450 | 52.0 |
| Pain, Poor well-being | 2 | 442 | 51.1 |
| Asthenia, Nausea | 2 | 440 | 50.9 |
| Pain, Poor well-being, Asthenia | 3 | 430 | 49.7 |
| Pain, Lack of appetite | 2 | 425 | 49.1 |
| Pain, Lack of appetite, Asthenia | 3 | 416 | 48.1 |
| Asthenia, Drowsiness, Poor well-being, Lack of appetite | 4 | 400 | 46.2 |
| Pain, Lack of appetite, Poor well-being, Asthenia | 4 | 374 | 43.2 |

**Supplementary Table 3**. Prevalence of symptoms experienced by 865 patients at baseline in relation to four major primary tumor sites.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Symptoms** | **Primary tumor site,**  **prevalence of symptoms (%)** | | | |
| **Lung**  **(N=151)** | **Pancreas**  **(N=76)** | **Colon-rectum**  **(N=75)** | **Breast**  **(N=50)** |
| Asthenia | 89.4 | 89.5 | 90.7 | 88.0 |
| Poor well-being | 72.8 | 75.0 | 73.3 | 66.0 |
| Lack of appetite | 71.5 | 75.0 | 77.3 | 66.0 |
| Drowsiness | 64.2 | 57.9 | 69.3 | 76.0 |
| Pain | 66.9 | 69.7 | 66.7 | 62.0 |
| Depression | 57.0 | 68.4 | 61.3 | 58.0 |
| Anxiety | 57.6 | 57.9 | 45.3 | 68.0 |
| Breathlessness | 59.6 | 35.5 | 40.0 | 30.0 |
| Nausea | 35.8 | 55.3 | 48.0 | 40.0 |

**Supplementary Table 4.** Prevalence and intensity of four physical symptoms in 780 patients according to intensity of anxiety or depression.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Symptoms** |  | **Intensity of anxiety** | | | | **Intensity of depression** | | | |
| **0** | **1–4** | **5–10** | **p valuea** | **0** | **1–4** | **5–10** | **p valuea** |
| **(N=324)** | **(N=279)** | **(N=177)** | **(N=298)** | **(N=274)** | **(N=208)** |
| Asthenia | N | 294 | 270 | 170 |  | 269 | 264 | 202 |  |
|  | % | 90.7 | 96.8 | 96.0 | <0.05 | 90.3 | 96.4 | 97.1 | <0.01 |
|  | Intensity | 4.67 | 5.03 | 6.32 | <0.001 | 4.34 | 4.34 | 6.58 | <0.001 |
| Pain | N | 198 | 197 | 128 |  | 188 | 187 | 148 |  |
|  | % | 61.1 | 70.6 | 72.3 | <0.05 | 63.1% | 68.2% | 71.2 | NS |
|  | Intensity | 2.64 | 3.08 | 3.64 | <0.001 | 2.79 | 2.96 | 3.45 | <0.05 |
| Breathlessness | N | 135 | 151 | 90 |  | 114 | 155 | 107 |  |
|  | % | 41.7 | 54.1 | 50.8 | <0.05 | 38.3% | 56.6% | 51.4 | <0.05 |
|  | Intensity | 1.70 | 2.30 | 2.50 | <0.01 | 1.73 | 2.43 | 2.19 | <0.001 |
| Nausea | N | 117 | 137 | 94 |  | 96 | 137 | 115 |  |
|  | % | 36.1 | 49.1 | 53.1 | <0.001 | 32.2 | 50.0 | 55.3 | <0.001 |
|  | Intensity | 1.27 | 1.69 | 2.70 | <0.001 | 1.05 | 1.76 | 2.72 | <0.001 |

NS, not statistically significant.

ap value for difference across levels of intensity of anxiety or depression.

**Supplementary Table 5**. Changes in intensity of main symptoms between day 0 and day 7 in 508 patients with severe degree of intensity at baseline.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Symptoms** | **N patients** | **Intensity, mean (SD)** | | | **p valuea** |
| **Day 0** | **Day 7** | **Difference**  **(Day 7 – Day 0)** |
| Asthenia | 282 | 6.74 (1.63) | 5.50 (2.43) | -1.24 (2.41) | <0.001 |
| Poor well-being | 222 | 6.55 (1.41) | 5.21 (2.38) | -1.34 (2.41) | <0.001 |
| Lack of appetite | 194 | 6.86 (1.66) | 5.17 (2.91) | -1.69 (2.83) | <0.001 |
| Drowsiness | 150 | 6.51 (1.49) | 4.57 (2.74) | -1.94 (2.75) | <0.001 |
| Pain | 162 | 6.16 (1.31) | 3.96 (2.37) | -2.20 (2.57) | <0.001 |
| Depression | 136 | 6.63 (1.62) | 5.04 (2.57) | -1.58 (2.55) | <0.001 |
| Anxiety | 109 | 6.47 (1.50) | 4.86 (2.49) | -1.61 (2.39) | <0.001 |
| Breathlessness | 104 | 6.56 (1.59) | 5.00 (2.75) | -1.56 (2.46) | <0.001 |
| Nausea | 71 | 6.46 (1.56) | 4.03 (3.02) | -2.44 (3.02) | <0.001 |

NS, not statistically significant; SD, standard deviation.

ap value for difference between day 7 and day 0.

**Supplementary Table 6.** Changes in symptom prevalence between day 0 and day 7 in 508 patients according to care setting.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Symptoms** | **Setting** | **Prevalence, N (%)** | | |
| **Day 0** | **Day 7** | **p valuea** |
| Asthenia | Home | 348 (93.5) | 352 (94.6) | NS |
|  | Hospice | 85 (92.4) | 81 (88.0) | NS |
|  | Hospital | 39 (88.6) | 41 (93.2) | NS |
|  | p valueb | NS | NS |  |
| Poor well-being | Home | 302 (81.2) | 302 (81.2) | NS |
|  | Hospice | 63 (68.5) | 66 (71.7) | NS |
|  | Hospital | 31 (70.5) | 31 (70.5) | NS |
|  | p valueb | <0.001 | <0.01 |  |
| Lack of appetite | Home | 280 (75.3) | 280 (75.3) | NS |
|  | Hospice | 68 (73.9) | 56 (60.9) | <0.05 |
|  | Hospital | 26 (59.1) | 26 (59.1) | NS |
|  | p valueb | NS | <0.01 |  |
| Drowsiness | Home | 264 (71.0) | 263 (70.7) | NS |
|  | Hospice | 64 (69.6) | 63 (68.5) | NS |
|  | Hospital | 29 (65.9) | 25 (56.8) | NS |
|  | p valueb | NS | <0.05 |  |
| Pain | Home | 267 (71.8) | 252 (67.7) | NS |
|  | Hospice | 45 (48.9) | 42 (45.7) | NS |
|  | Hospital | 31 (70.5) | 25 (56.8) | NS |
|  | p valueb | <0.001 | <0.001 |  |
| Depression | Home | 224 (60.2) | 234 (62.9) | NS |
|  | Hospice | 67 (72.8) | 63 (68.5) | NS |
|  | Hospital | 13 (29.5) | 22 (50.0) | <0.05 |
|  | p valueb | <0.001 | NS |  |
| Anxiety | Home | 209 (56.2) | 230 (61.8) | <0.05 |
|  | Hospice | 56 (60.9) | 48 (52.2) | NS |
|  | Hospital | 25 (56.8) | 23 (52.3) | NS |
|  | p valueb | NS | NS |  |
| Breathlessness | Home | 182 (48.9) | 151 (40.6) | <0.001 |
|  | Hospice | 36 (39.1) | 29 (31.5) | NS |
|  | Hospital | 15 (34.1) | 12 (27.3) | NS |
|  | p valueb | NS | NS |  |
| Nausea | Home | 187 (50.3) | 168 (45.2) | <0.05 |
|  | Hospice | 30 (32.6) | 17 (18.5) | <0.01 |
|  | Hospital | 8 (18.2) | 7 (15.9) | NS |
|  | p valueb | <0.001 | <0.001 |  |

NS, not statistically significant; SD, standard deviation.

ap value for difference between day 7 and day 0; bp value for difference between care settings.