**Supplementary table 1S**. Type and characteristics of index and recurrent/new cancers of the cohort.

INDEX CANCERS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type | n | Stage | | | | |
|  | | I | II | III | IV | Unknown |
| Esophageal carcinoma | 3 | 0 | 0 | 0 | 0 | 3 |
| Gastric carcinoma | 9 | 2 | 4 | 0 | 0 | 3 |
| Gastrointestinal stromal tumors | 3 | 0 | 3 | 0 | 0 | 0 |
| Small bowell | 8 | 4 | 0 | 2 | 0 | 2 |
| Gastric carcinoid | 3 | 1 | 2 | 0 | 0 | 0 |
| Myeloma | 1 |  |  |  |  |  |
| Leukemia | 8 |  |  |  |  |  |
| Lymphoma | 23 | 3 | 2 | 4 | 4 | 10 |
| Breast | 88 | 20 | 12 | 4 | 0 | 50 |
| Lung | 36 | 3 | 7 | 4 | 3 | 19 |
| Melanoma | 21 | 6 | 2 | 3 | 0 | 10 |
| Non-melanoma cutaneous cancer | 34 | 10 | 5 | 0 | 0 | 19 |
| Prostate | 55 | 3 | 10 | 7 | 3 | 32 |
| Urothelial | 48 | 11 | 11 | 3 | 0 | 23 |
| Kydney | 14 | 6 | 0 | 0 | 1 | 7 |
| Cervix | 22 | 12 | 6 | 4 | 0 | 0 |
| Uterus | 24 | 9 | 3 | 1 | 0 | 11 |
| Hepatocellular carcinoma | 7 | 3 | 2 | 0 | 0 | 2 |
| Oropharyngueal cancer | 28 | 3 | 6 | 5 | 0 | 14 |
| Ovary | 16 | 1 | 3 | 1 | 2 | 9 |
| Tyroides | 10 | 3 | 2 | 0 | 0 | 5 |
| Sarcoma | 8 | 1 | 2 | 2 | 0 | 3 |
| Pancreas | 5 | 0 | 2 | 0 | 0 | 3 |
| Seminoma | 8 | 3 | 1 | 0 | 0 | 4 |
| Others | 38 |  |  |  |  |  |

RECURRENT CANCERS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type | n | Stage | | | | |
|  | | I | II | III | IV | Unknown |
| Breast | 11 | 0 | 1 | 1 | 2 | 7 |
| Prostate | 5 | 1 | 0 | 0 | 0 | 4 |
| Non-melanoma cutaneous cancer | 6 | 0 | 0 | 0 | 0 | 6 |
| Melanoma | 2 | 0 | 0 | 0 | 1 | 1 |
| Lung | 4 | 1 | 0 | 0 | 2 | 1 |
| Kydney | 0 |  |  |  |  |  |
| Urothelial | 7 | 1 | 0 | 1 | 0 | 5 |
| Cervix | 2 | 0 | 2 | 0 | 0 | 0 |
| Ovary | 0 |  |  |  |  |  |
| Tyroides | 0 |  |  |  |  |  |
| Oropharyngueal cancer | 7 | 0 | 1 | 3 | 1 | 2 |
| Colorectal | 0 |  |  |  |  |  |
| Others |  |  |  |  |  |  |

NEW INCIDENT CANCER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type | n | Stage | | | | |
|  | | I | II | III | IV | UK |
| Breast | 3 | 0 | 0 | 0 | 1 | 2 |
| Prostate | 4 | 0 | 0 | 0 | 0 | 4 |
| Non-melanoma cutaneous cancer | 10 | 0 | 0 | 0 | 0 | 10 |
| Melanoma | 1 | 1 | 0 | 0 | 0 | 0 |
| Lung | 4 | 1 | 0 | 0 | 0 | 3 |
| Kydney | 2 | 2 | 0 | 0 | 0 | 0 |
| Urothelial | 4 | 1 | 0 | 1 | 0 | 2 |
| Cervix | 3 | 2 | 0 | 0 | 0 | 1 |
| Ovary | 3 | 2 | 0 | 0 | 0 | 1 |
| Tyroides | 2 | 1 | 1 | 0 | 0 | 0 |
| ENT | 5 | 1 | 3 | 0 | 0 | 1 |
| Colorectal | 3 | 0 | 1 | 0 | 0 | 2 |
| Myeloma | 1 |  |  |  |  |  |
| Leukemia | 1 |  |  |  |  |  |
| Pancreas | 1 | 0 | 0 | 0 | 1 | 0 |