Supplementary table 3. Observed deaths, relative risks, and 95 % CIs by each cause of death and category of items.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Items | Category | 　 | Causes of death | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  | All cancersexcluding leukemia | 　 | Stomach cancer | 　 | Liver cancer | 　 | Colorectal cancer | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Observed death | 　 | 978 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 165 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 100 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 114 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Smoking | 0 (Never, refb) | 117 | 1.00  |  |  |  |  |  |  | 17 | 1.00  |  |  |  |  |  |  | 14 | 1.00  |  |  |  |  |  |  | 21 | 1.00  |  |  |  |  |  |  |
| (Pack-years) | Former smoker | 359 | 1.51  | ( | 1.22  | - | 1.86  | ) |  | 59 | 1.67  | ( | 0.96  | - | 2.90  | ) |  | 32 | 1.01  | ( | 0.53  | - | 1.92  | ) |  | 47 | 0.99  | ( | 0.58  | - | 1.70  | ) |  |
|  | >0- | 31 | 1.66  | ( | 1.11  | - | 2.50  | ) |  | 4 | 1.37  | ( | 0.46  | - | 4.13  | ) |  | 0 |  |  |  |  |  |  |  | 3 | 0.81  | ( | 0.24  | - | 2.78  | ) |  |
|  | 20-  | 182 | 1.95  | ( | 1.53  | - | 2.49  | ) |  | 32 | 2.15  | ( | 1.16  | - | 3.97  | ) |  | 21 c | 1.30 c  | ( | 0.64  | - | 2.64  | )c |  | 20 | 1.07  | ( | 0.55  | - | 2.09  | ) |  |
|  | 40- | 182 | 1.95  | ( | 1.53  | - | 2.50  | ) |  | 37 | 2.54  | ( | 1.39  | - | 4.62  | ) |  | 17 | 1.31  | ( | 0.63  | - | 2.72  | ) |  | 13 | 0.73  | ( | 0.34  | - | 1.56  | ) |  |
|  | 60+ | 107 | 2.71  | ( | 2.05  | - | 3.57  | ) |  | 16 | 2.76  | ( | 1.35  | - | 5.62  | ) |  | 16 | 2.58  | ( | 1.20  | - | 5.52  | ) |  | 10 | 1.02  | ( | 0.43  | - | 2.44  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alcohol consumption | 0 (Never, refb) | 148 | 1.00  |  |  |  |  |  |  | 24 | 1.00  |  |  |  |  |  |  | 10 | 1.00  |  |  |  |  |  |  | 14 | 1.00  |  |  |  |  |  |  |
|  (Ethanol / day (g)) | Former drinker | 153 | 1.51  | ( | 1.20  | - | 1.91  | ) |  | 26 | 1.62  | ( | 0.93  | - | 2.83  | ) |  | 21 | 2.90  | ( | 1.34  | - | 6.29  | ) |  | 22 | 2.61  | ( | 1.28  | - | 5.33  | ) |  |
|  | >0  | 276 | 0.90  | ( | 0.74  | - | 1.11  | ) |  | 50 | 0.95  | ( | 0.58  | - | 1.55  | ) |  | 19 | 0.81  | ( | 0.38  | - | 1.74  | ) |  | 34 | 1.42  | ( | 0.73  | - | 2.73  | ) |  |
|  | 20- | 189 | 1.18  | ( | 0.93  | - | 1.49  | ) |  | 35 | 1.19  | ( | 0.67  | - | 2.13  | ) |  | 20 | 1.49  | ( | 0.68  | - | 3.25  | ) |  | 23 | 1.92  | ( | 0.94  | - | 3.92  | ) |  |
|  | 40- | 90 | 1.19  | ( | 0.89  | - | 1.59  | ) |  | 15 | 1.41  | ( | 0.75  | - | 2.64  | ) |  | 16 | 2.24  | ( | 0.97  | - | 5.18  | ) |  | 8 | 1.57  | ( | 0.64  | - | 3.87  | ) |  |
|  | 60+ | 122 | 1.30  | ( | 1.01  | - | 1.68  | ) |  | 15 | 0.87  | ( | 0.44  | - | 1.73  | ) |  | 14 | 1.87  | ( | 0.82  | - | 4.27  | ) |  | 13 | 1.75  | ( | 0.77  | - | 4.03  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Health consciousness | Good (refb) | 332 | 1.00  |  |  |  |  |  |  | 48 | 1.00  |  |  |  |  |  |  | 33 | 1.00  |  |  |  |  |  |  | 40 | 1.00  |  |  |  |  |  |  |
|  | Medium | 596 | 1.08  | ( | 0.94  | - | 1.24  | ) |  | 108 | 1.35  | ( | 0.94  | - | 1.94  | ) |  | 59 | 1.09  | ( | 0.69  | - | 1.71  | ) |  | 66 | 1.02  | ( | 0.67  | - | 1.55  | ) |  |
|  | Bad | 50 | 0.99  | ( | 0.72  | - | 1.35  | ) |  | 9 | 1.15  | ( | 0.54  | - | 2.46  | ) |  | 8 | 1.67  | ( | 0.74  | - | 3.78  | ) |  | 8 | 1.27  | ( | 0.54  | - | 3.01  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of  | Every year (refb) | 660 | 1.00  |  |  |  |  |  |  | 105 | 1.00  |  |  |  |  |  |  | 63 | 1.00  |  |  |  |  |  |  | 73 | 1.00  |  |  |  |  |  |  |
|  medical examination | Sometimes | 195 | 1.19  | ( | 1.01  | - | 1.41  | ) |  | 36 | 1.44  | ( | 0.97  | - | 2.15  | ) |  | 24 | 1.63  | ( | 0.99  | - | 2.70  | ) |  | 22 | 1.15  | ( | 0.69  | - | 1.90  | ) |  |
|  | Almost never | 123 | 1.26  | ( | 1.02  | - | 1.55  | ) |  | 24 | 1.55  | ( | 0.96  | - | 2.49  | ) |  | 13 | 1.53  | ( | 0.81  | - | 2.91  | ) |  | 19 | 1.67  | ( | 0.96  | - | 2.92  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Breakfast intake | Every day (refb) | 863 | 1.00  |  |  |  |  |  |  | 143 | 1.00  |  |  |  |  |  |  | 89 | 1.00  |  |  |  |  |  |  | 95 | 1.00  |  |  |  |  |  |  |
|  | Sometimes | 70 | 0.92  | ( | 0.71  | - | 1.18  | ) |  | 9 | 0.70  | ( | 0.35  | - | 1.40  | ) |  | 8 | 0.80  | ( | 0.38  | - | 1.70  | ) |  | 14 | 1.91  | ( | 1.06  | - | 3.46  | ) |  |
|  | Almost never | 45 | 1.21  | ( | 0.89  | - | 1.65  | ) |  | 13 | 1.99  | ( | 1.09  | - | 3.63  | ) |  | 3 | 0.65  | ( | 0.20  | - | 2.12  | ) |  | 5 | 1.46  | ( | 0.57  | - | 3.73  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sleep | Well (refb) | 570 | 1.00  |  |  |  |  |  |  | 99 | 1.00  |  |  |  |  |  |  | 48 | 1.00  |  |  |  |  |  |  | 61 | 1.00  |  |  |  |  |  |  |
|  | Sometimes not well | 369 | 1.06  | ( | 0.93  | - | 1.21  | ) |  | 61 | 0.99  | ( | 0.71  | - | 1.37  | ) |  | 49 | 1.66  | ( | 1.11  | - | 2.50  | ) |  | 47 | 1.22  | ( | 0.82  | - | 1.79  | ) |  |
|  | Not well | 39 | 0.93  | ( | 0.66  | - | 1.30  | ) |  | 5 | 0.73  | ( | 0.29  | - | 1.80  | ) |  | 3 | 0.89  | ( | 0.27  | - | 2.89  | ) |  | 6 | 1.23  | ( | 0.52  | - | 2.90  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMI | <18.5 | 53 | 1.34  | ( | 1.01  | - | 1.77  | ) |  | 12 | 1.80  | ( | 0.98  | - | 3.32  | ) |  | 3 | 0.78  | ( | 0.24  | - | 2.55  | ) |  | 5 | 1.06  | ( | 0.42  | - | 2.67  | ) |  |
|  | 18.5-<25 (refb) | 707 | 1.00  |  |  |  |  |  |  | 122 | 1.00  |  |  |  |  |  |  | 68 | 1.00  |  |  |  |  |  |  | 81 | 1.00  |  |  |  |  |  |  |
|  | 25- | 204 | 0.94  | ( | 0.80  | - | 1.10  | ) |  | 30 | 0.80  | ( | 0.53  | - | 1.21  | ) |  | 26 | 1.31  | ( | 0.83  | - | 2.07  | ) |  | 26 | 0.95  | ( | 0.60  | - | 1.50  | ) |  |
|  | 30+ | 14 | 0.91  | ( | 0.54  | - | 1.55  | ) |  | 1 | 0.37  | ( | 0.05  | - | 2.69  | ) |  | 3 | 2.01  | ( | 0.62  | - | 6.45  | ) |  | 2 | 1.13  | ( | 0.28  | - | 4.64  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job category | Design & research (refb) | 73 | 1.00  |  |  |  |  |  |  | 11 | 1.00  |  |  |  |  |  |  | 10 | 1.00  |  |  |  |  |  |  | 11 | 1.00  |  |  |  |  |  |  |
|  | Radiological management | 165 | 0.99  | ( | 0.74  | - | 1.32  | ) |  | 28 | 1.17  | ( | 0.57  | - | 2.42  | ) |  | 14 | 0.55  | ( | 0.22  | - | 1.33  | ) |  | 17 | 0.77  | ( | 0.35  | - | 1.68  | ) |  |
|  | Operation & investigation | 110 | 0.97  | ( | 0.70  | - | 1.34  | ) |  | 21 | 1.07  | ( | 0.50  | - | 2.32  | ) |  | 9 | 0.69  | ( | 0.26  | - | 1.85  | ) |  | 12 | 0.64  | ( | 0.25  | - | 1.63  | ) |  |
|  | Maintenance | 630 | 1.01  | ( | 0.77  | - | 1.34  | ) |  | 105 | 1.01  | ( | 0.51  | - | 1.99  | ) |  | 67 | 0.78  | ( | 0.35  | - | 1.74  | ) |  | 74 | 0.90  | ( | 0.44  | - | 1.86  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Position | Management (refb) | 212 | 1.00  |  |  |  |  |  |  | 32 | 1.00  |  |  |  |  |  |  | 23 | 1.00  |  |  |  |  |  |  | 23 | 1.00  |  |  |  |  |  |  |
|  | Technical advisor | 96 | 0.96  | ( | 0.72  | - | 1.27  | ) |  | 18 | 1.51  | ( | 0.80  | - | 2.88  | ) |  | 7 | 0.51  | ( | 0.18  | - | 1.42  | ) |  | 10 | 0.93  | ( | 0.41  | - | 2.10  | ) |  |
|  | Group leader | 355 | 1.19  | ( | 0.94  | - | 1.50  | ) |  | 55 | 1.56  | ( | 0.88  | - | 2.76  | ) |  | 46 | 1.14  | ( | 0.58  | - | 2.22  | ) |  | 39 | 1.27  | ( | 0.65  | - | 2.49  | ) |  |
|  | Staff | 315 | 1.07  | ( | 0.86  | - | 1.33  | ) |  | 60 | 1.48  | ( | 0.86  | - | 2.53  | ) |  | 24 | 0.72  | ( | 0.37  | - | 1.41  | ) |  | 42 | 1.23  | ( | 0.66  | - | 2.28  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Years of education | 13+ years (refb) | 192 | 1.00  |  |  |  |  |  |  | 32 | 1.00  |  |  |  |  |  |  | 18 | 1.00  |  |  |  |  |  |  | 21 | 1.00  |  |  |  |  |  |  |
|  | 10-12 years | 412 | 1.14  | ( | 0.94  | - | 1.37  | ) |  | 71 | 1.22  | ( | 0.78  | - | 1.92  | ) |  | 51 | 1.37  | ( | 0.76  | - | 2.46  | ) |  | 56 | 1.67  | ( | 0.95  | - | 2.94  | ) |  |
|  | <10 years | 374 | 1.16  | ( | 0.94  | - | 1.42  | ) |  | 62 | 1.18  | ( | 0.71  | - | 1.97  | ) |  | 31 | 1.00  | ( | 0.51  | - | 1.98  | ) |  | 37 | 1.28  | ( | 0.67  | - | 2.46  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | <5 mSv (refb) | 423 | 1.00  |  |  |  |  |  |  | 76 | 1.00  |  |  |  |  |  |  | 43 | 1.00  |  |  |  |  |  |  | 57 | 1.00  |  |  |  |  |  |  |
| (Cumulative dose) | 5- mSv | 77 | 1.25  | ( | 0.98  | - | 1.59  | ) |  | 9 | 0.82  | ( | 0.41  | - | 1.65  | ) |  | 6 | 0.90  | ( | 0.38  | - | 2.13  | ) |  | 4 | 0.50  | ( | 0.18  | - | 1.38  | ) |  |
|  | 10- mSv | 158 | 1.03  | ( | 0.85  | - | 1.24  | ) |  | 25 | 0.89  | ( | 0.56  | - | 1.41  | ) |  | 10 | 0.64  | ( | 0.32  | - | 1.29  | ) |  | 22 | 1.06  | ( | 0.64  | - | 1.75  | ) |  |
|  | 20- mSv | 173 | 1.08  | ( | 0.90  | - | 1.29  | ) |  | 30 | 1.03  | ( | 0.67  | - | 1.59  | ) |  | 24 | 1.45  | ( | 0.86  | - | 2.43  | ) |  | 15 | 0.71  | ( | 0.40  | - | 1.27  | ) |  |
|  | 50- mSv | 100 | 1.24  | ( | 0.996  | - | 1.55  | ) |  | 20 | 1.37  | ( | 0.83  | - | 2.27  | ) |  | 8 | 0.95  | ( | 0.44  | - | 2.05  | ) |  | 11 | 1.13  | ( | 0.59  | - | 2.19  | ) |  |
|  | 100+ mSv | 47 | 0.89  | ( | 0.65  | - | 1.20  | ) |  | 5 | 0.56  | ( | 0.22  | - | 1.39  | ) |  | 9 | 1.62  | ( | 0.77  | - | 3.41  | ) |  | 5 | 0.79  | ( | 0.31  | - | 2.02  | ) |  |
| 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| a: The number of deaths listed in each category were based on pseudo-complete data set #1. These were almost similar, but slightly different in each data set. |  |  |  |  |  |  |  |
| b: Reference category. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c: The results were based on the category that combined >0- and 20- because the number of observed deaths for >0- was zero. |  |  |  |  |  |  |  |  |  |  |  |  |  |

Supplementary table 3. Observed deaths, relative risks and 90 % CIs by each cause of death and category of items. (Continued)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Items | Category | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  | Lung cancer | 　 | Smoking-related cancers | 　 | Non-smoking related cancers |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Observed death | 　 | 237 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 704 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 234 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Smoking | 0 (Never, refb) | 11 | 1.00  |  |  |  |  |  |  | 65 | 1.00  |  |  |  |  |  |  | 43 | 1.00  |  |  |  |  |  |
| (Pack-years) | Former smoker | 91 | 4.71  | ( | 2.42  | - | 9.18  | ) |  | 250 | 1.92  | ( | 1.45  | - | 2.54  | ) |  | 94 | 1.01  | ( | 0.69  | - | 1.47  | ) |
|  | >0- | 6 | 4.67  | ( | 1.68  | - | 13.04  | ) |  | 19 | 1.88  | ( | 1.12  | - | 3.15  | ) |  | 8 | 1.05  | ( | 0.47  | - | 2.36  | ) |
|  | 20-  | 36 | 5.29  | ( | 2.56  | - | 10.92  | ) |  | 138 | 2.59  | ( | 1.90  | - | 3.52  | ) |  | 40 | 1.21  | ( | 0.76  | - | 1.93  | ) |
|  | 40- | 57 | 8.29  | ( | 4.14  | - | 16.59  | ) |  | 151 | 2.84  | ( | 2.10  | - | 3.86  | ) |  | 26 | 0.79  | ( | 0.47  | - | 1.32  | ) |
|  | 60+ | 36 | 12.52  | ( | 6.05  | - | 25.90  | ) |  | 81 | 3.65  | ( | 2.59  | - | 5.14  | ) |  | 23 | 1.48  | ( | 0.85  | - | 2.56  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alcohol consumption | 0 (Never, refb) | 41 | 1.00  |  |  |  |  |  |  | 102 | 1.00  |  |  |  |  |  |  | 38 | 1.00  |  |  |  |  |  |
|  (Ethanol / day (g)) | Former drinker | 40 | 1.27  | ( | 0.81  | - | 1.99  | ) |  | 113 | 1.64  | ( | 1.25  | - | 2.16  | ) |  | 35 | 1.31  | ( | 0.81  | - | 2.11  | ) |
|  | >0  | 71 | 0.85  | ( | 0.57  | - | 1.26  | ) |  | 187 | 0.86  | ( | 0.67  | - | 1.10  | ) |  | 74 | 1.02  | ( | 0.68  | - | 1.52  | ) |
|  | 20- | 35 | 0.79  | ( | 0.49  | - | 1.28  | ) |  | 137 | 1.15  | ( | 0.87  | - | 1.53  | ) |  | 45 | 1.30  | ( | 0.83  | - | 2.05  | ) |
|  | 40- | 18 | 0.85  | ( | 0.47  | - | 1.53  | ) |  | 69 | 1.25  | ( | 0.90  | - | 1.74  | ) |  | 19 | 1.08  | ( | 0.58  | - | 1.98  | ) |
|  | 60+ | 32 | 1.14  | ( | 0.70  | - | 1.86  | ) |  | 96 | 1.40  | ( | 1.05  | - | 1.87  | ) |  | 23 | 1.04  | ( | 0.59  | - | 1.85  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Health consciousness | Good (refb) | 86 | 1.00  |  |  |  |  |  |  | 231 | 1.00  |  |  |  |  |  |  | 83 | 1.00  |  |  |  |  |  |
|  | Medium | 142 | 1.01  | ( | 0.76  | - | 1.33  | ) |  | 435 | 1.11  | ( | 0.94  | - | 1.31  | ) |  | 141 | 1.05  | ( | 0.79  | - | 1.39  | ) |
|  | Bad | 9 | 0.70  | ( | 0.34  | - | 1.42  | ) |  | 38 | 1.05  | ( | 0.73  | - | 1.50  | ) |  | 10 | 0.83  | ( | 0.40  | - | 1.70  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of  | Every year (refb) | 164 | 1.00  |  |  |  |  |  |  | 482 | 1.00  |  |  |  |  |  |  | 148 | 1.00  |  |  |  |  |  |
|  medical examination | Sometimes | 44 | 0.97  | ( | 0.67  | - | 1.38  | ) |  | 129 | 1.10  | ( | 0.90  | - | 1.35  | ) |  | 59 | 1.53  | ( | 1.11  | - | 2.10  | ) |
|  | Almost never | 29 | 1.10  | ( | 0.72  | - | 1.67  | ) |  | 93 | 1.31  | ( | 1.03  | - | 1.67  | ) |  | 27 | 1.16  | ( | 0.74  | - | 1.82  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Breakfast intake | Every day (refb) | 216 | 1.00  |  |  |  |  |  |  | 626 | 1.00  |  |  |  |  |  |  | 200 | 1.00  |  |  |  |  |  |
|  | Sometimes | 15 | 0.80  | ( | 0.47  | - | 1.37  | ) |  | 46 | 0.77  | ( | 0.57  | - | 1.06  | ) |  | 24 | 1.62  | ( | 1.04  | - | 2.53  | ) |
|  | Almost never | 6 | 0.67  | ( | 0.29  | - | 1.53  | ) |  | 32 | 1.07  | ( | 0.74  | - | 1.55  | ) |  | 10 | 1.54  | ( | 0.80  | - | 2.98  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sleep | Well (refb) | 145 | 1.00  |  |  |  |  |  |  | 419 | 1.00  |  |  |  |  |  |  | 126 | 1.00  |  |  |  |  |  |
|  | Sometimes not well | 79 | 0.89  | ( | 0.67  | - | 1.19  | ) |  | 256 | 1.00  | ( | 0.86  | - | 1.18  | ) |  | 99 | 1.26  | ( | 0.96  | - | 1.64  | ) |
|  | Not well | 13 | 1.33  | ( | 0.74  | - | 2.37  | ) |  | 29 | 0.98  | ( | 0.66  | - | 1.44  | ) |  | 9 | 0.97  | ( | 0.49  | - | 1.93  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMI | <18.5 | 12 | 1.14  | ( | 0.63  | - | 2.06  | ) |  | 39 | 1.36  | ( | 0.98  | - | 1.89  | ) |  | 11 | 1.18  | ( | 0.63  | - | 2.20  | ) |
|  | 18.5-<25 (refb) | 173 | 1.00  |  |  |  |  |  |  | 512 | 1.00  |  |  |  |  |  |  | 166 | 1.00  |  |  |  |  |  |
|  | 25- | 48 | 0.93  | ( | 0.67  | - | 1.30  | ) |  | 144 | 0.92  | ( | 0.77  | - | 1.12  | ) |  | 53 | 1.01  | ( | 0.74  | - | 1.38  | ) |
|  | 30+ | 4 | 1.10  | ( | 0.40  | - | 2.98  | ) |  | 9 | 0.80  | ( | 0.41  | - | 1.54  | ) |  | 4 | 1.11  | ( | 0.41  | - | 3.00  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job category | Design & research (refb) | 17 | 1.00  |  |  |  |  |  |  | 47 | 1.00  |  |  |  |  |  |  | 18 | 1.00  |  |  |  |  |  |
|  | Radiological management | 42 | 0.85  | ( | 0.47  | - | 1.55  | ) |  | 117 | 1.03  | ( | 0.72  | - | 1.48  | ) |  | 42 | 1.03  | ( | 0.59  | - | 1.82  | ) |
|  | Operation & investigation | 23 | 0.77  | ( | 0.40  | - | 1.51  | ) |  | 84 | 1.10  | ( | 0.75  | - | 1.62  | ) |  | 23 | 0.75  | ( | 0.38  | - | 1.50  | ) |
|  | Maintenance | 155 | 0.84  | ( | 0.48  | - | 1.48  | ) |  | 456 | 1.06  | ( | 0.76  | - | 1.49  | ) |  | 151 | 1.04  | ( | 0.61  | - | 1.79  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Position | Management (refb) | 55 | 1.00  |  |  |  |  |  |  | 155 | 1.00  |  |  |  |  |  |  | 49 | 1.00  |  |  |  |  |  |
|  | Technical advisor | 19 | 0.69  | ( | 0.37  | - | 1.26  | ) |  | 68 | 0.95  | ( | 0.69  | - | 1.32  | ) |  | 25 | 0.97  | ( | 0.55  | - | 1.70  | ) |
|  | Group leader | 93 | 0.96  | ( | 0.60  | - | 1.53  | ) |  | 258 | 1.13  | ( | 0.87  | - | 1.49  | ) |  | 82 | 1.27  | ( | 0.80  | - | 2.01  | ) |
|  | Staff | 70 | 0.87  | ( | 0.55  | - | 1.35  | ) |  | 223 | 1.02  | ( | 0.79  | - | 1.32  | ) |  | 78 | 1.16  | ( | 0.75  | - | 1.80  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Years of education | 13+ years (refb) | 40 | 1.00  |  |  |  |  |  |  | 141 | 1.00  |  |  |  |  |  |  | 42 | 1.00  |  |  |  |  |  |
|  | 10-12 years | 92 | 1.16  | ( | 0.78  | - | 1.73  | ) |  | 300 | 1.08  | ( | 0.87  | - | 1.34  | ) |  | 102 | 1.42  | ( | 0.96  | - | 2.12  | ) |
|  | <10 years | 105 | 1.38  | ( | 0.89  | - | 2.13  | ) |  | 263 | 1.08  | ( | 0.84  | - | 1.37  | ) |  | 90 | 1.37  | ( | 0.88  | - | 2.14  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | <5 mSv (refb) | 84 | 1.00  |  |  |  |  |  |  | 291 | 1.00  |  |  |  |  |  |  | 115 | 1.00  |  |  |  |  |  |
| (Cumulative dose) | 5- mSv | 26 | 2.10  | ( | 1.34  | - | 3.29  | ) |  | 58 | 1.35  | ( | 1.02  | - | 1.80  | ) |  | 15 | 0.90  | ( | 0.52  | - | 1.54  | ) |
|  | 10- mSv | 43 | 1.39  | ( | 0.95  | - | 2.02  | ) |  | 114 | 1.08  | ( | 0.86  | - | 1.34  | ) |  | 38 | 0.89  | ( | 0.61  | - | 1.29  | ) |
|  | 20- mSv | 44 | 1.38  | ( | 0.95  | - | 2.00  | ) |  | 135 | 1.21  | ( | 0.99  | - | 1.50  | ) |  | 33 | 0.76  | ( | 0.51  | - | 1.12  | ) |
|  | 50- mSv | 27 | 1.61  | ( | 1.03  | - | 2.51  | ) |  | 75 | 1.32  | ( | 1.02  | - | 1.71  | ) |  | 22 | 1.07  | ( | 0.67  | - | 1.70  | ) |
|  | 100+ mSv | 13 | 1.13  | ( | 0.62  | - | 2.06  | ) |  | 31 | 0.82  | ( | 0.56  | - | 1.19  | ) |  | 11 | 0.82  | ( | 0.44  | - | 1.54  | ) |
| 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| a: The number of the deaths listed in each category was based on pseudo-complete data set #1. These were almost similar but slightly different in each data set. |
| b: Reference category. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c: The results were based on the category that combined >0- and 20- because the number of observed deaths for >0- was zero. |  |  |  |  |