Supplementary Table 1. Observed deaths, relative risks, and 90 % CIs by category of items, and ERR/Sv for radiation (Entry date: the date of the questionnaire response).

|  |  |  |
| --- | --- | --- |
| Items | Category | Causes of death |
|  |  | All noncancers | 　 | Circulatorydiseases | 　 | Cardiovasculardiseases | 　 | Cerebrovasculardiseases | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Observed death | 　 | 1201 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 634 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 398 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 231 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Smoking | 0 (Never, refb) | 155 | 1.00  |  |  |  |  |  |  | 83 | 1.00  |  |  |  |  |  |  | 50 | 1.00  |  |  |  |  |  |  | 33 | 1.00  |  |  |  |  |  |  |
| (Packyears) | Former smoker | 444 | 1.33  | ( | 1.10  | - | 1.61  | ) |  | 210 | 1.14  | ( | 0.88  | - | 1.49  | ) |  | 135 | 1.20  | ( | 0.85  | - | 1.68  | ) |  | 73 | 1.02  | ( | 0.67  | - | 1.57  | ) |  |
|  | >0- | 59 | 2.21  | ( | 1.62  | - | 3.03  | ) |  | 34 | 2.32  | ( | 1.53  | - | 3.52  | ) |  | 20 | 2.17  | ( | 1.25  | - | 3.77  | ) |  | 14 | 2.52  | ( | 1.32  | - | 4.81  | ) |  |
|  | 20-  | 235 | 1.83  | ( | 1.47  | - | 2.28  | ) |  | 122 | 1.76  | ( | 1.31  | - | 2.36  | ) |  | 77 | 1.88  | ( | 1.29  | - | 2.74  | ) |  | 45 | 1.56  | ( | 0.97  | - | 2.52  | ) |  |
|  | 40- | 226 | 1.83  | ( | 1.47  | - | 2.28  | ) |  | 136 | 2.06  | ( | 1.54  | - | 2.75  | ) |  | 85 | 2.18  | ( | 1.50  | - | 3.16  | ) |  | 48 | 1.75  | ( | 1.09  | - | 2.81  | ) |  |
|  | 60+ | 82 | 1.49  | ( | 1.12  | - | 1.98  | ) |  | 49 | 1.64  | ( | 1.13  | - | 2.39  | ) |  | 31 | 1.66  | ( | 1.03  | - | 2.66  | ) |  | 18 | 1.63  | ( | 0.88  | - | 2.99  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alcohol consumption | 0 (Never, refb) | 232 | 1.00  |  |  |  |  |  |  | 123 | 1.00  |  |  |  |  |  |  | 77 | 1.00  |  |  |  |  |  |  | 45 | 1.00  |  |  |  |  |  |  |
|  (Ethanol / day (g)) | Former drinker | 281 | 1.83  | ( | 1.52  | - | 2.21  | ) |  | 147 | 1.95  | ( | 1.50  | - | 2.53  | ) |  | 94 | 2.05  | ( | 1.48  | - | 2.85  | ) |  | 50 | 1.76  | ( | 1.13  | - | 2.72  | ) |  |
|  | >0  | 287 | 0.74  | ( | 0.62  | - | 0.90  | ) |  | 154 | 0.76  | ( | 0.59  | - | 0.99  | ) |  | 96 | 0.73  | ( | 0.53  | - | 1.01  | ) |  | 57 | 0.83  | ( | 0.54  | - | 1.27  | ) |  |
|  | 20- | 201 | 1.06  | ( | 0.85  | - | 1.31  | ) |  | 108 | 1.09  | ( | 0.81  | - | 1.45  | ) |  | 67 | 1.12  | ( | 0.78  | - | 1.61  | ) |  | 41 | 1.07  | ( | 0.66  | - | 1.72  | ) |  |
|  | 40- | 95 | 1.01  | ( | 0.78  | - | 1.31  | ) |  | 53 | 0.95  | ( | 0.66  | - | 1.39  | ) |  | 32 | 0.96  | ( | 0.60  | - | 1.53  | ) |  | 21 | 0.97  | ( | 0.52  | - | 1.82  | ) |  |
|  | 60+ | 105 | 0.91  | ( | 0.71  | - | 1.17  | ) |  | 49 | 0.79  | ( | 0.55  | - | 1.14  | ) |  | 32 | 0.79  | ( | 0.50  | - | 1.25  | ) |  | 17 | 0.82  | ( | 0.45  | - | 1.50  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Health consciousness | Good (refb) | 467 | 1.00  |  |  |  |  |  |  | 247 | 1.00  |  |  |  |  |  |  | 162 | 1.00  |  |  |  |  |  |  | 84 | 1.00  |  |  |  |  |  |  |
|  | Medium | 664 | 0.89  | ( | 0.78  | - | 1.008  | ) |  | 351 | 0.87  | ( | 0.73  | - | 1.04  | ) |  | 211 | 0.80  | ( | 0.64  | - | 0.99  | ) |  | 136 | 0.98  | ( | 0.73  | - | 1.32  | ) |  |
|  | Bad | 70 | 0.88  | ( | 0.68  | - | 1.15  | ) |  | 36 | 0.88  | ( | 0.61  | - | 1.27  | ) |  | 25 | 0.92  | ( | 0.59  | - | 1.44  | ) |  | 11 | 0.81  | ( | 0.42  | - | 1.55  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of  | Every year (refb) | 746 | 1.00  |  |  |  |  |  |  | 401 | 1.00  |  |  |  |  |  |  | 256 | 1.00  |  |  |  |  |  |  | 142 | 1.00  |  |  |  |  |  |  |
|  medical examination | Sometimes | 267 | 1.37  | ( | 1.18  | - | 1.59  | ) |  | 144 | 1.41  | ( | 1.15  | - | 1.73  | ) |  | 85 | 1.29  | ( | 0.99  | - | 1.67  | ) |  | 58 | 1.64  | ( | 1.17  | - | 2.28  | ) |  |
|  | Almost never | 188 | 1.54  | ( | 1.29  | - | 1.84  | ) |  | 89 | 1.44  | ( | 1.12  | - | 1.86  | ) |  | 57 | 1.48  | ( | 1.08  | - | 2.03  | ) |  | 31 | 1.38  | ( | 0.88  | - | 2.14  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Breakfast intake | Everyday (refb) | 1005 | 1.00  |  |  |  |  |  |  | 539 | 1.00  |  |  |  |  |  |  | 335 | 1.00  |  |  |  |  |  |  | 199 | 1.00  |  |  |  |  |  |  |
|  | Sometimes | 146 | 1.66  | ( | 1.37  | - | 1.99  | ) |  | 71 | 1.48  | ( | 1.14  | - | 1.92  | ) |  | 48 | 1.58  | ( | 1.14  | - | 2.18  | ) |  | 23 | 1.34  | ( | 0.85  | - | 2.11  | ) |  |
|  | Almost never | 50 | 1.17  | ( | 0.87  | - | 1.58  | ) |  | 24 | 1.00  | ( | 0.65  | - | 1.54  | ) |  | 15 | 1.02  | ( | 0.60  | - | 1.75  | ) |  | 9 | 0.98  | ( | 0.47  | - | 2.02  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sleep | Well (refb) | 631 | 1.00  |  |  |  |  |  |  | 355 | 1.00  |  |  |  |  |  |  | 223 | 1.00  |  |  |  |  |  |  | 130 | 1.00  |  |  |  |  |  |  |
|  | Sometimes not well | 466 | 1.13  | ( | 1.00  | - | 1.28  | ) |  | 227 | 1.01  | ( | 0.85  | - | 1.21  | ) |  | 142 | 0.99  | ( | 0.79  | - | 1.23  | ) |  | 83 | 1.04  | ( | 0.78  | - | 1.38  | ) |  |
|  | Not well | 104 | 1.95  | ( | 1.58  | - | 2.42  | ) |  | 52 | 1.86  | ( | 1.37  | - | 2.52  | ) |  | 33 | 1.90  | ( | 1.30  | - | 2.77  | ) |  | 18 | 1.70  | ( | 1.01  | - | 2.87  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMI | <18.5 | 135 | 2.24  | ( | 1.85  | - | 2.72  | ) |  | 46 | 1.47  | ( | 1.07  | - | 2.02  | ) |  | 25 | 1.38  | ( | 0.90  | - | 2.09  | ) |  | 20 | 1.60  | ( | 0.97  | - | 2.63  | ) |  |
|  | 18.5-<25 (refb) | 795 | 1.00  |  |  |  |  |  |  | 434 | 1.00  |  |  |  |  |  |  | 264 | 1.00  |  |  |  |  |  |  | 167 | 1.00  |  |  |  |  |  |  |
|  | 25- | 244 | 1.02  | ( | 0.88  | - | 1.18  | ) |  | 138 | 1.03  | ( | 0.85  | - | 1.26  | ) |  | 99 | 1.23  | ( | 0.98  | - | 1.56  | ) |  | 38 | 0.72  | ( | 0.50  | - | 1.04  | ) |  |
|  | 30+ | 27 | 1.53  | ( | 1.04  | - | 2.25  | ) |  | 16 | 1.59  | ( | 0.96  | - | 2.63  | ) |  | 10 | 1.59  | ( | 0.84  | - | 3.01  | ) |  | 6 | 1.58  | ( | 0.69  | - | 3.60  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job category | Design & research (refb) | 70 | 1.00  |  |  |  |  |  |  | 34 | 1.00  |  |  |  |  |  |  | 26 | 1.00  |  |  |  |  |  |  | 8 | 1.00  |  |  |  |  |  |  |
|  | Radiological management | 172 | 1.11  | ( | 0.82  | - | 1.50  | ) |  | 86 | 1.06  | ( | 0.70  | - | 1.63  | ) |  | 55 | 0.81  | ( | 0.49  | - | 1.35  | ) |  | 30 | 1.93  | ( | 0.83  | - | 4.52  | ) |  |
|  | Operation & investigation | 129 | 1.37  | ( | 0.98  | - | 1.90  | ) |  | 61 | 1.39  | ( | 0.88  | - | 2.21  | ) |  | 40 | 1.09  | ( | 0.63  | - | 1.88  | ) |  | 21 | 2.47  | ( | 1.00  | - | 6.07  | ) |  |
|  | Maintenance | 830 | 1.36  | ( | 1.02  | - | 1.81  | ) |  | 453 | 1.51  | ( | 1.01  | - | 2.25  | ) |  | 277 | 1.24  | ( | 0.77  | - | 1.98  | ) |  | 172 | 2.44  | ( | 1.07  | - | 5.55  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job position | Management (refb) | 215 | 1.00  |  |  |  |  |  |  | 122 | 1.00  |  |  |  |  |  |  | 83 | 1.00  |  |  |  |  |  |  | 38 | 1.00  |  |  |  |  |  |  |
|  | Technical advisor | 110 | 0.96  | ( | 0.72  | - | 1.27  | ) |  | 57 | 0.90  | ( | 0.62  | - | 1.32  | ) |  | 37 | 0.89  | ( | 0.55  | - | 1.42  | ) |  | 19 | 0.88  | ( | 0.46  | - | 1.68  | ) |  |
|  | Group leader | 447 | 1.15  | ( | 0.93  | - | 1.42  | ) |  | 241 | 1.03  | ( | 0.78  | - | 1.37  | ) |  | 143 | 1.04  | ( | 0.74  | - | 1.48  | ) |  | 95 | 1.01  | ( | 0.62  | - | 1.64  | ) |  |
|  | Staff | 429 | 1.16  | ( | 0.95  | - | 1.43  | ) |  | 214 | 1.00  | ( | 0.76  | - | 1.31  | ) |  | 135 | 0.98  | ( | 0.69  | - | 1.37  | ) |  | 79 | 1.05  | ( | 0.65  | - | 1.67  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Years of education | 13+ years (refb) | 222 | 1.00  |  |  |  |  |  |  | 115 | 1.00  |  |  |  |  |  |  | 81 | 1.00  |  |  |  |  |  |  | 33 | 1.00  |  |  |  |  |  |  |
|  | 10-12 years | 451 | 0.97  | ( | 0.82  | - | 1.16  | ) |  | 243 | 1.02  | ( | 0.80  | - | 1.31  | ) |  | 159 | 0.93  | ( | 0.69  | - | 1.25  | ) |  | 84 | 1.29  | ( | 0.83  | - | 2.01  | ) |  |
|  | <10 years | 528 | 1.10  | ( | 0.91  | - | 1.33  | ) |  | 276 | 1.13  | ( | 0.87  | - | 1.47  | ) |  | 158 | 0.89  | ( | 0.64  | - | 1.23  | ) |  | 114 | 1.78  | ( | 1.12  | - | 2.83  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | <5 mSv (refb) | 541 | 1.00  |  |  |  |  |  |  | 280 | 1.00  |  |  |  |  |  |  | 164 | 1.00  |  |  |  |  |  |  | 115 | 1.00  |  |  |  |  |  |  |
| (Cumulative dose) | 5- mSv | 76 | 0.91  | ( | 0.71  | - | 1.16  | ) |  | 42 | 0.95  | ( | 0.68  | - | 1.32  | ) |  | 36 | 1.41  | ( | 0.98  | - | 2.04  | ) |  | 6 | 0.32  | ( | 0.14  | - | 0.72  | ) |  |
|  | 10- mSv | 217 | 1.10  | ( | 0.94  | - | 1.29  | ) |  | 114 | 1.13  | ( | 0.91  | - | 1.41  | ) |  | 69 | 1.17  | ( | 0.88  | - | 1.56  | ) |  | 43 | 1.03  | ( | 0.72  | - | 1.47  | ) |  |
|  | 20- mSv | 188 | 0.90  | ( | 0.76  | - | 1.07  | ) |  | 105 | 0.96  | ( | 0.76  | - | 1.21  | ) |  | 71 | 1.14  | ( | 0.86  | - | 1.51  | ) |  | 33 | 0.70  | ( | 0.47  | - | 1.04  | ) |  |
|  | 50- mSv | 116 | 1.11  | ( | 0.90  | - | 1.36  | ) |  | 61 | 1.09  | ( | 0.82  | - | 1.45  | ) |  | 40 | 1.26  | ( | 0.89  | - | 1.80  | ) |  | 20 | 0.83  | ( | 0.51  | - | 1.35  | ) |  |
|  | 100+ msv | 63 | 0.94  | ( | 0.72  | - | 1.23  | ) |  | 32 | 0.87  | ( | 0.60  | - | 1.26  | ) |  | 18 | 0.88  | ( | 0.53  | - | 1.44  | ) |  | 14 | 0.87  | ( | 0.49  | - | 1.53  | ) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ERR/Sv |  | -0.27 | ( | -1.61  | - | 1.07  | ) |  |  | -1.01 | ( | -2.62 | - | 0.60  | ) |  |  | -0.89 | ( | -2.99 | - | 1.22  | ) |  |  | -1.12 | ( | -3.69 | - | 1.45  | ) |  |
| 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| a: The number of the deaths listed in each category were based on pseudo complete data set #1. These were almost similar but slightly different by data set. |  |  |  |  |  |  |  |  |
| b: Reference category. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Supplementary Table 1. Observed deaths, relative risks, and 90 % CIs by category of items, and ERR/Sv for radiation (Entry date: the date of the questionnaire response). (continued)

|  |  |  |
| --- | --- | --- |
| Items | Category | Causes of death |
|  |  | Respiratorydiseases | 　 | Digestivediseases |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | 　 | Obs.a | RR | 95% CI | 　 | Obs.a | RR | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Observed death | 　 | 236 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 103 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Smoking | 0 (Never, refb) | 30 | 1.00  |  |  |  |  |  |  | 6 | 1.00  |  |  |  |  |  |
| (Packyears) | Former smoker | 122 | 1.81  | ( | 1.17  | - | 2.81  | ) |  | 34 | 3.10  | ( | 1.20  | - | 8.01  | ) |
|  | >0- | 8 | 1.74  | ( | 0.78  | - | 3.90  | ) |  | 8 | 7.43  | ( | 2.38  | - | 23.18  | ) |
|  | 20-  | 35 | 1.66  | ( | 0.97  | - | 2.82  | ) |  | 26 | 4.26  | ( | 1.59  | - | 11.39  | ) |
|  | 40- | 28 | 1.23  | ( | 0.70  | - | 2.15  | ) |  | 22 | 4.11  | ( | 1.52  | - | 11.11  | ) |
|  | 60+ | 13 | 1.33  | ( | 0.67  | - | 2.65  | ) |  | 7 | 2.70  | ( | 0.83  | - | 8.76  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alcohol consumption | 0 (Never, refb) | 48 | 1.00  |  |  |  |  |  |  | 15 | 1.00  |  |  |  |  |  |
|  (Ethanol / day (g)) | Former drinker | 75 | 2.07  | ( | 1.40  | - | 3.05  | ) |  | 15 | 1.63  | ( | 0.75  | - | 3.54  | ) |
|  | >0  | 55 | 0.69  | ( | 0.46  | - | 1.05  | ) |  | 20 | 0.78  | ( | 0.36  | - | 1.71  | ) |
|  | 20- | 34 | 1.07  | ( | 0.65  | - | 1.77  | ) |  | 23 | 1.55  | ( | 0.71  | - | 3.36  | ) |
|  | 40- | 11 | 0.89  | ( | 0.47  | - | 1.71  | ) |  | 17 | 2.46  | ( | 1.13  | - | 5.36  | ) |
|  | 60+ | 13 | 0.52  | ( | 0.25  | - | 1.07  | ) |  | 13 | 1.63  | ( | 0.74  | - | 3.60  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Health consciousness | Good (refb) | 99 | 1.00  |  |  |  |  |  |  | 30 | 1.00  |  |  |  |  |  |
|  | Medium | 126 | 0.95  | ( | 0.71  | - | 1.27  | ) |  | 62 | 1.08  | ( | 0.67  | - | 1.72  | ) |
|  | Bad | 11 | 0.70  | ( | 0.34  | - | 1.43  | ) |  | 11 | 1.74  | ( | 0.83  | - | 3.66  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of  | Every year (refb) | 142 | 1.00  |  |  |  |  |  |  | 63 | 1.00  |  |  |  |  |  |
|  medical examination | Sometimes | 48 | 1.09  | ( | 0.77  | - | 1.54  | ) |  | 22 | 1.37  | ( | 0.82  | - | 2.28  | ) |
|  | Almost never | 46 | 1.76  | ( | 1.21  | - | 2.56  | ) |  | 18 | 1.56  | ( | 0.87  | - | 2.80  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Breakfast intake | Everyday (refb) | 202 | 1.00  |  |  |  |  |  |  | 74 | 1.00  |  |  |  |  |  |
|  | Sometimes | 30 | 2.15  | ( | 1.42  | - | 3.25  | ) |  | 20 | 2.41  | ( | 1.41  | - | 4.13  | ) |
|  | Almost never | 4 | 0.68  | ( | 0.25  | - | 1.88  | ) |  | 9 | 1.87  | ( | 0.89  | - | 3.93  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sleep | Well (refb) | 113 | 1.00  |  |  |  |  |  |  | 44 | 1.00  |  |  |  |  |  |
|  | Sometimes not well | 103 | 1.34  | ( | 1.01  | - | 1.77  | ) |  | 46 | 1.38  | ( | 0.90  | - | 2.12  | ) |
|  | Not well | 20 | 1.75  | ( | 1.06  | - | 2.88  | ) |  | 13 | 3.17  | ( | 1.67  | - | 6.03  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMI | <18.5 | 51 | 4.39  | ( | 3.12  | - | 6.19  | ) |  | 12 | 2.44  | ( | 1.30  | - | 4.58  | ) |
|  | 18.5-<25 (refb) | 139 | 1.00  |  |  |  |  |  |  | 70 | 1.00  |  |  |  |  |  |
|  | 25- | 42 | 1.06  | ( | 0.74  | - | 1.53  | ) |  | 19 | 0.84  | ( | 0.49  | - | 1.43  | ) |
|  | 30+ | 4 | 1.49  | ( | 0.55  | - | 4.04  | ) |  | 2 | 1.20  | ( | 0.29  | - | 4.93  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job category | Design & research (refb) | 21 | 1.00  |  |  |  |  |  |  | 4 | 1.00  |  |  |  |  |  |
|  | Radiological management | 40 | 1.01  | ( | 0.53  | - | 1.91  | ) |  | 12 | 1.49  | ( | 0.47  | - | 4.70  | ) |
|  | Operation & investigation | 23 | 0.92  | ( | 0.44  | - | 1.93  | ) |  | 19 | 3.00  | ( | 0.98  | - | 9.18  | ) |
|  | Maintenance | 152 | 0.92  | ( | 0.50  | - | 1.67  | ) |  | 68 | 1.96  | ( | 0.67  | - | 5.70  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job Position | Management (refb) | 39 | 1.00  |  |  |  |  |  |  | 16 | 1.00  |  |  |  |  |  |
|  | Technical advisor | 23 | 1.11  | ( | 0.55  | - | 2.22  | ) |  | 12 | 1.08  | ( | 0.44  | - | 2.65  | ) |
|  | Group leader | 91 | 1.64  | ( | 0.95  | - | 2.82  | ) |  | 35 | 1.24  | ( | 0.57  | - | 2.68  | ) |
|  | Staff | 83 | 1.56  | ( | 0.94  | - | 2.58  | ) |  | 40 | 1.25  | ( | 0.61  | - | 2.56  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Years of education | 13+ years (refb) | 42 | 1.00  |  |  |  |  |  |  | 26 | 1.00  |  |  |  |  |  |
|  | 10-12 years | 83 | 0.88  | ( | 0.58  | - | 1.35  | ) |  | 31 | 0.59  | ( | 0.35  | - | 1.02  | ) |
|  | <10 years | 111 | 1.09  | ( | 0.70  | - | 1.68  | ) |  | 46 | 0.84  | ( | 0.46  | - | 1.54  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | <5 mSv (refb) | 117 | 1.00  |  |  |  |  |  |  | 49 | 1.00  |  |  |  |  |  |
| (Cumulative dose) | 5- mSv | 15 | 0.85  | ( | 0.49  | - | 1.47  | ) |  | 2 | 0.26  | ( | 0.06  | - | 1.09  | ) |
|  | 10- mSv | 39 | 0.88  | ( | 0.61  | - | 1.28  | ) |  | 23 | 1.30  | ( | 0.78  | - | 2.15  | ) |
|  | 20- mSv | 35 | 0.79  | ( | 0.53  | - | 1.16  | ) |  | 16 | 0.82  | ( | 0.46  | - | 1.46  | ) |
|  | 50- mSv | 19 | 0.90  | ( | 0.55  | - | 1.48  | ) |  | 7 | 0.71  | ( | 0.32  | - | 1.59  | ) |
|  | 100+ msv | 11 | 0.88  | ( | 0.47  | - | 1.66  | ) |  | 6 | 0.95  | ( | 0.40  | - | 2.26  | ) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ERR/Sv |  | -0.63 | ( | -3.65 | - | 2.40  | ) |  |  | 0.76  | ( | -4.39 | - | 5.90  | ) |
| 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| a: The number of the deaths listed in each category were based on pseudo complete data set #1. These were almost similar but slightly different by data set. |
| b: Reference category. |