

Table VII: Estimated power for the artificial cohort assembled from the fire departments in Table VI

| Underlying cause of death | Expected number of deaths | SMR detectable with specified power ^b 80% | SMR detectable with specified power ^b 90% | Range of Elevated Risk Estimates among Firefighters Reported in Meta-Analyses ^c |
|---|---------------------------|--|--|--|
| All cancers | 1,920 | 1.06 | 1.07 | 5% -9% |
| Cancer of prostate | 190 | 1.20 | 1.23 | 27% - 28% |
| Cancer of the brain and other parts of the nervous system | 44 | 1.42 | 1.50 | 20% - 43% |
| Non-Hodgkin's lymphoma | 65 | 1.35 | 1.41 | 36% - 51% |
| Leukemia | 71 | 1.33 | 1.39 | 12% - 30% |
| Multiple myeloma | 31 | 1.52 | 1.62 | 50% - 51% |

^a Assuming a 5% type I error rate

^b Table entry is the minimum detectable SMR assuming a 5% type I error rate and the specified power

^c Reported in meta analyses conducted by Lemasters et al., 2006; Howe and Burch 1990; Samet et al., 2005 and by IARC, 2007