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**ALL-CAUSE MORTALITY AND RADAR EXPOSURE AMONG FRENCH NAVY PERSONNEL : A 30 YEARS COHORT STUDY.**  
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To improve operational performance in a modern navy force, radiofrequency (RF) and microwaves emitting devices are widely used. It has been suggested that exposure to electromagnetic fields could be associated with greater health hazards and higher mortality. The all-cause mortality of 39488 militaries of the French navy forces was studied over the period 1975-2001 with a cohort epidemiological study. They served from 1975 until 1995. In a first step, the mortality of radar exposed militaries was compared to a control group formed by militaries who served during the same period in the same environment but without radar exposure. Administrative procedures for identifying militaries and their vital status were equivalent in the radar and the control groups. The age-standardized mortality ratio in the radar navy personnel was 0.70 (95% CI: 0.54-0.90). In professional militaries, no difference in mortality ratio was found according to duration of estimated exposure. During a 30 years period of observation, we found no increase in all-cause mortality in the French navy personnel who were close to radar equipments.