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Relationship between vaccination prevalence and biological occupational contamination risks

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Introduction: Vaccination is a key current prophylactic measure. For instance, few germs are highly contagious and they may be transmitted to other people and coworkers. The aim of this study was to determinate vaccination coverage regarding the level of the risk exposure to be contaminated during work.

Methodology: The study was conducted during two years on a representative sample of miscellaneous population group of workers. Data concerning Hepatitis B and Tetanus were obtained from medical and occupational files. Therefore, a distribution of jobs leading to increasing risks to be contaminated by Hepatitis B and Tetanus in relationship with the vaccination coverage was established.

Results: Number of workers included in the study was 1704 (36% males, 44% females). Thirty different

jobs were listed, mainly police officers, administrative workers, researchers... No relationships concerning the level of vaccinated workers were observed regarding to gender, marital status, diploma and risk to be contaminated during work. But non-smokers and younger groups are more frequently vaccinated independently to working conditions.

Discussion: Among the population studied, we found a low adherence to the vaccination under study. Moreover, these low adherences to vaccination are completely independent of the risk to be contaminated during work. These results suggest that it seems desirable to promote a list of mandatory vaccinations regarding to the job practice. Education of workers about vaccination could improve their behavior towards its coverage.

Biography

Frederic Deschamps is a medical occupational doctor since 1990. He is the Professor of medicine since 2002. He manages a department of occupational diseases in the University Hospital of Reims. He is the Director of the department of occupational health. His main topic concerns the assessment of diseases in relationship with low level toxic during long periods and vaccinations.

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