appear to be a short-term risk of suicide among Danish UN soldiers. However, the fact that the two soldiers committed suicide after discharge belonged to the same unit, and that this unit sustained a heavy artillery strike is worthy of note. A questionnaire study found less psychological morbidity among the personnel of the unit in question compared to other units at the time they were involved in combat. 2

Conclusion: Personnel from traumatised units carry a risk of PTSD and suicide. Special methodology to perform research into the area needs to be developed, and current programmes to detect these problems in repatriated units should be evaluated.

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Keywords: combat; military; peacekeeping; post-traumatic stress disorder; risk; suicide; United Nations *Prehosp Disast Med* 2002;17:s9.

Changes in Attitudes Are Associated with Increased Reporting of Exposure to Illegal Drugs in Finland *Jormanainen V, Sahi T*

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Introduction. In Finland, organised questionnaire studies among conscripts at the entry to common military service have been carried out since 1968. The aim of this study was to describe the behaviour characteristics of the July 2001 entry cohort's health, especially their lifetime exposure to illegal drugs.

Methods. The July 2001 questionnaire data were collected in 10 garrisons (every 5th conscript sampled) by using a 78-item questionnaire during the entry medical examination.

Results. The 2001 study database was comprised of 1,482 respondents. In 2001, 52% knew a user of illegal drugs among their peers in civilian life, 48% had been approached to purchase such drugs, and 21% had tried illegal drugs at sometime during their lifetime. The first use (93%) and later uses (94%) were associated primarily with consumption of hashish/marihuana. Interestingly, attitudes among those who had not tried illegal drugs changed from 80% in the 1985–1992 Group to 50% in the 1996–2001, the latter stating that the use of hashish is a danger to health. During the same time divisions, there was an increase in reporting of trials of illegal drugs from 5–10% in the 1985–1992 Group to 20% in 1996–2001 Group.

Conclusions. Twenty percent of the conscripts entering common military service in Finland report having tried illegal drugs in civilian circumstances. These data suggest that changes in attitudes among those who have not tried illegal drugs recently have been associated with actual trials of illegal drugs in the age groups studied.

Keywords: attitudes; drugs, illegal; exposure; Finland; military *Prehosp Disast Med* 2002;17:s9.

Stress Fractures: Diagnosis with MRI, Bone Scintigraphy, and Radiography Kiuru MJ, 1.2 Pihlajamäki HK, 3 Ahovuo JA²

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Purpose: To compare MR imaging (MRI), bone scintigraphy, and radiography in the diagnosis of stress fractures of the pelvis and lower extremities.

Materials and Methods: A total of 50 consecutive military recruits clinically suspected of having a stress fracture underwent MR imaging and scintigraphy. Of these patients, 43 were studied also with plain film radiography, and follow-up radiographs were taken of 24 patients. A total of 41 stress fractures were diagnosed in 32 patients using MR imaging.

Results: Of the patients, 36% had a false-positive clinical diagnosis of stress fracture. The sensitivity of radiography was 56%, specificity = 94%, accuracy = 67%, positive predictive value (PPV) = 95%, and negative predictive value (NPV) = 48%. In the follow-up, the sensitivity increased to 72%, NPV to 60%, accuracy to 79%, and PPV to 96%, and specificity remained the same. The kappa value for MR imaging and radiography was fair (0.39) initially, and moderate (0.57) in the follow-up. The sensitivity of bone scintigraphy was 92%, specificity = 90%, accuracy = 92%, PPV = 95%, and NPV = 86%. The kappa value for bone scintigraphy and MR imaging was very good: 0.81. Three false-negative and two false-positive scintigrams were identified.

Conclusions: The clinical diagnosis of stress fractures of the pelvis and the lower extremity is not reliable. If the primary radiography is negative, the use of MR imaging is preferrable to bone scintigraphy and follow-up radiographs. The diagnostic value of MR imaging is higher than bone scintigraphy.

Keywords: diagnosis; fractures, stress; MRI; scintigraphy; x-ray Prehosp Disast Med 2002;17:s10.

Possible Exposure to Depleted Uranium without Adverse Health Effects among the Finnish Peacekeepers in Kosovo

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Introduction: The Finnish peacekeeping troops in Kosovo had their first exposure to depleted uranium (DU) in April 2000. The purpose of the study was to describe exposure to DU and the health characteristics of Finnish peacekeeping veterans who had served in Kosovo.

Methods: Those who served in Kosovo were identified using the registries of the Finnish Defense Forces. A 33-item questionnaire was mailed to the veterans in late February 2001 data. The study database was closed on 30 September, 2001, and it comprised of 752 accepted responses.

Results: Of all the respondents, 15% had visited a place where a DU exposure was possible, 6% had been inside a DU-destroyed armored weapon, and 5% had handled DU-ammunition. A total of 83 (11%) responses suggested possible DU exposure. Health or the use of health care parameters during or after Kosovo deployment was similar between the potentially exposed and others.

Conclusions Of the 752 Finnish peacekeepers who had served in Kosovo, 11% possibly were exposed to DU according to their responses in a mailed questionnaire in 2000. However, health and use of healthcare parameters during or after Kosovo service were similar between those classified as possibly exposed and those not exposed. These epidemiological results match well the results obtained in earlier reports.