order to enable the possibility of comparing results on an international basis.

1200 PREVALENCE AND RISK FACTORS FOR HAND ECZEMA AMONG NORWEGIAN SPECIALIST NURSES: A CROSS-SECTIONAL STUDY

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Background Hand eczema (HE), the most frequent work-related skin disease, is common among health care workers, but knowledge about its occurrence in Norwegian specialist nurses is scarce.

We aimed to investigate the prevalence of hand eczema and identify occupational and non-occupational risk factors among specialist nurses working at the Oslo University Hospital.

Methods A cross-sectional survey of 115 specialist nurses (surgical and anesthesiology) was performed by using an adapted version of the Nordic Occupational Skin Questionnaire (NOSQ 2002-Norwegian), which includes standardised questions for HE, occupational and non-occupational exposures. Analyses comprised descriptive statistics and logistic regression (STATA 14).

Results The participation frequency was 99.1%. Nearly three-quarters of the participants reported skin symptoms during the last 12 months. The lifetime prevalence, one-year prevalence and point prevalence of HE were 27.19%, 17.54% and 11.40%; the prevalence of work-related HE was 14.9%. Although HE was more common in women, we did not find an association between sex and HE. Age, childhood eczema, and amount of years working as a nurse predicted for work-related HE. Time spent using protective gloves did not predict work-related HE, but self-reported skin symptoms when using protective gloves was a consistent predictor. The most common aggravating factors at work comprised hand cleaning and disinfection, water and winter season. Domestic exposures (food preparation, cleaning/washing, care for children under 4 years, contact with animals) did not predict either HE or work-related HE.

Conclusion The one-year prevalence for HE was almost twice, and for work-related HE was nearly thrice than in the general population. The occurrence of work-related HE was associated with older age, childhood eczema, amount of years working as specialist nurse, and skin symptoms when wearing protective gloves. A potential healthy worker survivor effect may underestimate the prevalence figures and associations reported here. Prevention strategies focusing on skin care and protection should be developed for specialist nurses.

986 FEASIBILITY AND ACCEPTABILITY OF A WORK-BASED COLORECTAL CANCER SCREENING INITIATIVE IN FLORIDA FIREFIGHTERS

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Introduction Colorectal cancer (CRC) has been identified as one of the top diagnosed cancers among firefighters in Florida, United States. Firefighters are routinely exposed to highly toxic materials, many of which have been linked to an increased risk for colorectal cancer. Despite the elevated risk, cancer screening behaviours of active firefighters are unknown. We assessed the feasibility, acceptability, and implementation of a worksite-based cancer screening program using faecal immunochemical testing (FIT) among unscreened and underscreened Florida firefighters.

Methods In collaboration with Florida fire departments, participants were recruited through their fire department. All participants completed an eligibility screener, informed consent and demographic questionnaire. Firefighters subsequently received a FIT kit in-person or via mail and returned specimens to the lab for testing. Screening results were reported to participants via telephone and those who screened positive were referred for colonoscopy.

Result Collectively, 1611 firefighters were screened for eligibility of whom 525 (32.6%) were eligible. Ineligible firefighters...
were mainly excluded due to age (n=635, 58.5%) or were already current with CRC screening recommendations (154 (14.2%) completed FIT in the previous year, and 132 (12.2%) received a colonoscopy in the previous 10 years). FIT kits were sent to 496 of the eligible subjects; 310 (62.5%) participants returned the kits, and 6 (2.0%) received a positive FIT result. All FIT positive participants completed clinical follow-up with colonoscopy screening.

Discussion Firefighters in this study report that using FIT was easy or somewhat easy to perform and would prefer to use this test for screening in the future. Based on these preliminary findings, this workplace screening initiative was both feasible and acceptable in the sample of firefighters. A workplace cancer screening program has potential to increase screening rates in the firefighter population. Additional epidemiologic surveillance for annual screening follow-up is warranted.

### 108 A STUDY ON THE WORKERS WITH LATENT TUBERCULOSIS INFECTION IN A TERTIARY HOSPITAL

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**Introduction** The risk of contracting with Latent Tuberculosis Infection (LTBI) is higher among those who are dealing with patients directly. Control of LTBI is an important step towards tuberculosis elimination.

**Methods** LTBI was assessed by Tuberculin Skin Test by screening new workers and through contact tracing. A cross-sectional study of 362 workers infected with LTBI were detected from 2013–2016. The study was done to obtain the information on the gender, age, job category and workplace, results of chest X-ray, history of previous Bacillus Calmette-Guerin (BCG) vaccination and infection with tuberculosis. These data were collected from the Occupational Health Clinic of the hospital and a descriptive study was done.

**Results** 106 males (29.3%) and 256 females (70.7%) were evaluated. 60.2% of them were 30 years old and below. Majority were nurses (31.8%) and 64.4% of the LTBI cases were detected from contact tracing. 261 workers (72.1%) were from clinical departments. Majority of the workers (76.5%) were known to be vaccinated with BCG. Only 1.6% of them had previous history of tuberculosis. As low as 12.2% of the workers had some chest x-ray changes on investigation and 17.7% were referred to pulmonologist due to various reasons. Out of 362 LTBI workers, six were found to have positive TB.

**Discussion** Although very few workers with LTBI became positive tuberculosis, the practices of tuberculosis infection control have to be strengthened in high risk places such as hospitals.

### 1033 WORK AND HEALTH: THE PERSPECTIVE OF THE ENDEMIC DISEASES COMBAT AGENTS THE MUNICIPALITY OF BELO HORIZONTE, BRAZIL

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**Introduction** The purpose of this study was to understand the perception of the Endemic Diseases Combat Agents (EDCA) about their work context, mainly focusing the relationship between work and health, within the Municipal Health Department of Belo Horizonte.

**Methods** This is a qualitative study, under the theoretical contribution of the Work Clinics, with emphasis on Psychosociology and Clinic of Activity. The methodological procedures were bibliographic search, document analysis and focus group. The analysis of the data was based on the Bardin’s Content Analysis.

**Results** The study showed that the professionals realise that the zoonosis service is not effectively integrated in health units. This not-belonging is one of the causes of the precarious working conditions, the feeling of invisibility and the symbolic and concrete marginalisation reported by the professionals. The Endemic Diseases Combat Agents recognise the risks to which they are exposed, highlighting the various forms of violence and lack of adequate equipment. Given the organisation of the work, they use strategies of resistance and build creative alternatives in order to defend the good work and for preservation of health at work.

**Discussion** An organisation reproduces a logic that prevails in society; values, expected behaviours, kinds of relationship, so it is important, the institution perceives its internal contradictions, questioning about its institutional mission and its practices. Thus, although laws and regulations define and encourage the integration of EDCA to primary care teams, this process still needs to be discussed collectively in the SMSA at all levels of management.

### 461 WORKPLACE BULLYING AND ITS ASSOCIATION WITH DEPRESSION AND SELF-ESTEEM AMONG HEALTH CARE WORKERS IN SELECTED HOSPITALS IN SARAWAK

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**Introduction** Bullying at the workplace has been recognised as an increasing problem amongst healthcare staff, and has been associated with a low self-esteem and depression. Considering this view, this study was aimed to determine the proportion of bullying amongst healthcare workers in selected hospitals in Sarawak and its association between depression and self-esteem.

**Methods** A cross-sectional study using self-administered questionnaires was done in three selected hospitals in Sarawak. The questionnaires were distributed to doctors, nurses and medical assistants during their teaching sessions. The questionnaires consisted of socio-demographics, Negative Acts Questionnaire (NAQ), Beck Depression Inventory (BDI), and Rosenberg Self-Esteem (RSE) scale. A total of 426 samples were included for analysis, after discarding 72 samples due to grossly missing information. The response rate was 71.1%.

**Results** Majority of the respondents were of the age group 25 to 29 years old. Nurses comprised 45.5% of the study population, followed by doctors (37.8%), whilst the rest were medical assistants and midwives. Based on the definition of bullying as at least two occurrences of any negative act either on a weekly or daily basis, 20.7% of respondents had been bullied. 22.5% of the study group had mild to severe depression, and 8.5% had a low self-esteem. There was an association between depression and being bullied, with a p value of <0.001. Those healthcare workers who had a low self-esteem were associated with higher exposure to bullying, with