Results Mean age of the participants was 30.5 years, 46% were nulliparous, 6.3% received fertility treatment, mean BMI was 23.6 kg/m². Prevalence of sickness absence until pregnancy week 30 was 36%. Preliminary results indicate that sickness absence is related to fertility treatment and obesity. Women receiving fertility treatment had increased odds of sickness absence in pregnancy week 30; OR: 1.31 (95% CI: 1.21–1.42). Obese women had increased odds of sickness absence compared to normal weight women; OR: 1.37 (95% CI: 1.28–1.48). More statistical analyses will be conducted.

Conclusions Final results and conclusions will be presented at the conference.

0157 THE USE OF EPIDEMIOLOGIC DATA TO EVALUATE THE ECONOMIC BURDEN OF OCCUPATIONAL RISKS: MODELLING THE COST OF DISEASES ATTRIBUTABLE TO JOB STRAIN IN FRANCE

^{1,2}Hélène Sultan-Taïeb, ^{3,4}Jean-François Chastang, ⁵Malika Mansouri, ^{3,4}Isabelle Niedhammer. ¹Université Du Québec À Montréal (UQAM), Montréal, Québec, Canada; ²Centre de Recherche Interdisciplinaire Sur Le Bien-Être, La Santé, La Société Et L'environnement (CINBIOSE), Montréal, Québec, Canada; ³INSERM, U1018, CESP Centre for Research in Epidemiology and Population Health, Epidemiology of Occupational and Social Determinants of Health Team, Villejuif, France; ⁴Laboratoire D'économie Et Gestion, Université de Bourgogne, Dijon, France; ⁵Université de Versailles St-Quentin, UMRS 1018, Versailles, France

10.1136/oemed-2014-102362.62

Objectives To estimate the annual costs of coronary heart diseases (CHD) and mental disorders (MD) attributable to job strain exposure according to Karasek's model in France for the year 2003 from a societal perspective.

Method We produced attributable fraction estimates which were applied to the number of cases (morbidity and mortality) and the costs of CHD and MD. Relative risk estimates came from a systematic literature review of prospective studies. We conducted meta-analyses based on this selection of studies. Prevalence of exposure to job strain came from the national SUMER survey conducted in France in 2003.

Results Between 8.8 and 10.2% of CHD morbidity and between 9.4 and 11.2% of CHD mortality was attributable to job strain for men. Between 15.2 and 19.8% of MD was attributable to job strain for men, and between 14.3 and 27.1% for women. The total costs of CHD and MD attributable to job strain exposure ranged from 1.8 to 3 billion euros for the year 2003 (0.12–0.19% GDP). Medical costs accounted for 11% of the total costs, value of life costs accounted for 13–15% and sick leave costs for 74–77%. The cost of CHD was estimated at 113–133 million euros and the cost of MD was between 1.7–2.8 billion euros in 2003.

Conclusions This study on the economic burden of diseases attributable to job strain in France provides relevant insights for policy-makers when defining public health priorities for prevention policies.

0162 PREVALENCE OF OCCUPATIONAL EXPOSURE TO LEAD IN AUSTRALIA

¹Tim Driscoll, ²Renee Carey, ³Deborah Glass, ³Geze Benke, ²Susan Peters, ²Alison Reid, ²Lyn Fritsch. ¹Sydney School of Public Health, University of Sydney, Sydney, NSW, Australia; ²Western Australian Institute for Medical Research, University of Western Australia, Perth, WA, Australia; ³Department of Epidemiology and Preventive Medicine, Monash University, Melbourne, VIC, Australia

10.1136/oemed-2014-102362.63

Objectives To determine the prevalence of work-related exposure to lead, the main circumstances of work-related exposure to lead in the general workforce, and the use of workplace control measures designed to decrease exposure to lead, in Australia.

Method The information came from the Australian Work Exposures Study (AWES) project, a nationwide survey which investigated the current prevalence of work-related exposure to 38 known or suspected carcinogens, including lead, among Australian workers, based on reported job tasks. Only those persons designated as having probable work-related exposure to lead were included in the analysis. Assessments were extrapolated to the national workforce with reference to the 2011 Census.

Results The results suggest approximately 6.6% of Australian workers were occupationally exposed to lead. Almost all exposed workers were male, about half workers worked in technical occupations and almost half worked in the construction industry. The main tasks associated with probable exposures were, in decreasing order, soldering; painting old houses, ships or bridges; plumbing work; cleaning up or sifting through the remains of a fire; radiator repair work; machining metals or alloys containing lead; mining; and welding leaded steel. The use of appropriate respiratory control measures was inconsistent. Exposure levels were assessed as being high or medium in most cases, taking into account information on work tasks and the controls being used by workers.

Conclusions The study suggests exposure to lead in the Australian workforce is higher than expected based on estimates from other countries. There is considerable scope for better use of exposure control measures.

0163 JOB STRAIN AND BURNOUT AMONG NURSES WORKING IN DIFFERENT HEALTHCARE SETTING

¹Weishan Chin, ²Li-Jie Wang, ³Judith Shu-Chu Shiao, ^{1,2}Yue-Liang Leon Guo Guo, ¹Shan-wei Yang. ¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University School of Public Health, Taipei, Taiwan; ²Department of Environmental and Occupational Medicine, National Taiwan University and NTU Hospital, Taipei, Taiwan; ³Department of Nursing, College of Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan; ⁴Department of Environmental and Occupational Medicine, National Taiwan University Hospital, Taipei, Taiwan

10.1136/oemed-2014-102362.64

Objectives To assess job strain and burnout status among female nurses working in primary clinics, secondary referral hospitals, and public health units in Taiwan.

Method Study participants included female nurses from (1) all primary clinics (PC) hiring more than two registered nurses; (2) a nation-wide representative sample of secondary referral hospitals (SRH), selected using stratified random sampling; and (3) all public health units (PHU) hiring more than two registered nurses. To candidate participants, a structured, self-administered questionnaire was disseminated, which included demographic information, work conditions, the Chinese Job Content Questionnaire, and the modified Chinese Copenhagen Burnout Inventory.

Results A total of 6087 questionnaires were sent, and 4046 (66.5%) were satisfactorily completed. Compared with PC nurses, nurses working in SRHs and PHUs had higher job strain (adjusted odds ratio, aOR=1.7, 95% confidence interval, CI=1.3–2.1 for SRH; aOR=2.4, 95% CI=1.7–3.4 for PHU), personal burnout (aOR=2.6, 95% CI=1.8–3.6 for SRH; aOR=3.4, 95% CI=2.1–5.7 for PHU), work-related burnout