mining area in the Philippines which is the area of Itogon, Benguet.

**Methods** There were 93 small-scale miners who were included in the study as they complied with the inclusion criteria. The methods consisted of survey questionnaires, health physical examination guide, individual interviews, and work process observation tool.

**Results** The results showed that the small-scale miners worked for an average of 10.7 years, and a maximum work year of 40. The most widely employed mining technique was the dog-hole mining consisting of several sub-processes -tunneling, ball milling and gravity concentration, cyanide leaching, and smelting. The ergonomic and safety hazards identified were noise exposure from the dynamite blast, temperature extremes, and exposure to dust from dynamite blasting. The miners experienced prolonged crouching and bending, prolonged handling of tools, and carrying heavy sacks filled with mineral ores. In the ball milling and gravity concentration process, machine-related accidents were noted such as experiencing cuts from the crusher. In the cyanide leaching which uses massive amounts of cyanide, the most prevalent hazards were heat, dust, and chemicals such as cyanide fumes. In the smelting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents. The most common injury was laceration at the cutting process, smoke from burning ore and coal as well as exposure to borax and nitric acid fumes. Burn injuries were reported among miners. A third (31.2%) of miners have experienced accidents.

**Conclusion** The most prevalent health symptom reported by the miners was muscle pain which points to exposure to ergonomic hazards and risks.

**O-157 EFFECT OF EXPOSURE TO PSYCHOSOCIAL WORK FACTORS ON THE OCCURRENCE OF WORKPLACE INJURIES**

Stephanie Boini, Regis Colin, Pascal Paris, Christophe Paris. *Institut national de recherche et de sécurité (INRS), France*

**Objective** To determine the effect of psychosocial factors (PSF) on the incidence of workplace injuries (WI) among workers from the French two-waves survey ‘Health and Career paths’. A second objective was to explore effects of gender and age.

**Methodology** The outcome considered here was the occurrence of WI between 2006 and 2010, reported by participants. Nineteen self-reported PSF, evaluated in 2006, explored six domains: labour intensity and working time (9 items), emotional demand (3), autonomy (2), social relationships at work (2), conflict of values (2), and job insecurity (1). Multiple logistic models were performed for each PSF. Interactions between PSF and respectively gender and age class (£30y., 30–50y., ≥50y.) were tested using Wald test.

**Results** The study population consists in 3,277 men and 3,565 women in employment in 2006 and re-interviewed in 2010. Over the period, 255 workers reported at least one WI, corresponding to an annual average rate of 6 WI/1000 workers. PSF associated with the incidence of WI were mostly related to emotional demand, social relationship at work and labour intensity. The risk of WI was greater in women reporting difficulties reconciling work and family life, tensions with public, necessity to hide or fake emotions or lack of reward, and in men reporting more than 48 h/week, irregular working hours or fear for own safety or for safety for others during work. Participants under 30y. reporting tensions with public, necessity to hide or fake emotions, or fear for own safety or for safety for others during work had a greater risk of WI than the others.

**Conclusion** These results provide evidence for relationships between PSF exposure and the occurrence of WI. In particular, the risk of WI was greater in participants reporting exposure to emotional demand at work and varied according to gender and age.