**Results** Women ever exposed to benzene had a significantly elevated risk of NHL (Hazard Ratio (HR) = 1.87, 95% CI = 1.19–2.96). Compared to unexposed women, significant trends in NHL risk were observed for increasing years of benzene exposure (p trend = 0.009) and increasing cumulative exposure levels (p trend = 0.01), with women in the highest duration and cumulative exposure tertiles having a significantly elevated association with NHL (HR = 2.07, 95% CI = 1.07–4.01 and HR = 2.16, 95% CI = 1.17–3.98, respectively).

**Conclusions** Our study is the first to our knowledge to evaluate this association in the context of a population-based prospective cohort of all women with diverse occupational histories. Our findings add to the evidence that benzene is associated with risk of NHL.

**Method** The contribution of occupational studies to the IARC monographs is reviewed.

**Results** Occupational epidemiology has made important contributions beyond developing knowledge to protect workers’ health, notably in identifying carcinogens of concern for the general population. The IARC Monographs have evaluated many carcinogens for which occupational studies have provided key evidence. The recent classifications of diesel engine exhaust, trichloroethylene and polychlorinated biphenyls (PCBs) as human carcinogens, which depended heavily on data from occupational studies, are illustrative. In the evaluation of PCBs, for example, occupational cohort studies showing an exposure-related increase in the risk of malignant melanoma were pivotal for the conclusion of sufficient evidence of carcinogenicity. Despite such noteworthy contributions, the number of occupational studies that are ultimately informative tends to be relatively small relative to the number reviewed. The most informative studies tend to have common features, including clear reporting of methods and results, well-defined outcomes, quantitative estimates of exposure, adequate control of major confounders, and state of the art analytical methods, often with internal analyses of exposure-response. In contrast, studies that are too broadly focused and those with crude classifications of exposure or outcome, analyses by external comparisons alone or poor reporting of the methods and results are often less informative in the final evaluation.

**Conclusions** While occupational studies are important for carcinogen identification, their relevance could be further enhanced with improvements in study design, methods and reporting.

**Objectives** To discuss the important role of occupational studies in identifying carcinogens and suggest how it could be still greater.

**Method** The contribution of occupational studies to the IARC monographs is reviewed.

**Results** Occupational epidemiology has made important contributions beyond developing knowledge to protect workers’ health, notably in identifying carcinogens of concern for the general population. The IARC Monographs have evaluated many carcinogens for which occupational studies have provided key evidence. The recent classifications of diesel engine exhaust, trichloroethylene and polychlorinated biphenyls (PCBs) as human carcinogens, which depended heavily on data from occupational studies, are illustrative. In the evaluation of PCBs, for example, occupational cohort studies showing an exposure-related increase in the risk of malignant melanoma were pivotal for the conclusion of sufficient evidence of carcinogenicity. Despite such noteworthy contributions, the number of occupational studies that are ultimately informative tends to be relatively small relative to the number reviewed. The most informative studies tend to have common features, including clear reporting of methods and results, well-defined outcomes, quantitative estimates of exposure, adequate control of major confounders, and state of the art analytical methods, often with internal analyses of exposure-response. In contrast, studies that are too broadly focused and those with crude classifications of exposure or outcome, analyses by external comparisons alone or poor reporting of the methods and results are often less informative in the final evaluation.

**Conclusions** While occupational studies are important for carcinogen identification, their relevance could be further enhanced with improvements in study design, methods and reporting.

**Objectives** To examine trends in workers’ compensation payments for falls from height (FFH) among a large cohort of carpenters over a 20-year period (1989–2008). Cost data provide an important metric reflecting frequency of falls and severity of associated injuries.

**Method** Using combined administrative data we evaluated workers’ compensation (WC) payments associated with FFH among a large (n = 24,830) 20-year cohort (1989–2008) of union carpenters in Washington State. Mean payments, costs rates and adjusted rate ratios based on hours worked were calculated using negative binomial regression to evaluate cost patterns based on age, union tenure, type of carpentry work and calendar time after adjusting and discounting to 2011 dollar values.

**Results** FFH accounted for $66.6 million in WC payments (a burden of $0.35 per hour worked) over the 20-year period. FFH were responsible for 5.5% of injuries but 15.1% of costs. Mean costs per fall were monotonic fashion. Reductions were more pronounced for FFH than for medical care. Mean costs per fall were 2.3 times greater among carpenters.