PROSPECTIVE MONITORING OF EXPOSURE AND LUNG FUNCTION AMONG CEMENT PRODUCTION WORKERS – IS DROP OUT FROM THE STUDY ASSOCIATED WITH RESPIRATORY HEALTH AT INCLUSION?


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Objectives In this study we aimed to estimate the associations between respiratory health at inclusion and drop-out from a 4-year longitudinal study of lung function among cement production workers in Europe and Turkey.

Method Non-administration workers (n = 3203) aged 17–54 yrs in 22 cement production plants in eight countries were included. Geometric mean (GM) exposure to the thoracic fraction of the workplace aerosol was allocated individually by job type and plant from a database of 6111 measurements from the follow-up study. Drop out was analysed in logistic regression with year of hire, exposure level, airway symptoms, chronic obstructive pulmonary disease (COPD) and use of airway protection at inclusion as explanatory variables. COPD was defined as FEV1/FVC < 0.7.

Results COPD at inclusion was associated with drop out, but only among those hired 6–10 years before inclusion (OR 2.4 [CI 95% 1.1–5.5]). GM exposure exceeding a level of 1.61 mg/m³ was associated with drop out (OR= 1.9; CI 95% 1.3–2.7) compared to exposure below 0.42 mg/m³. The use of respiratory protection at inclusion was inversely associated with drop out (OR 0.6 [CI 95% 0.4–0.9]). Age, sex, allergy, asthma and previous occupational exposure to dust and gases did not confound the associations.

Conclusions Workers in the highest exposed group had increased risk, while those who reported using a respiratory mask had reduced risk of dropping out. Participants classified with COPD at inclusion were to some extent depleted from the study, but only among those hired 6–10 years before their inclusion.

THE MANAGEMENT OF PATIENT/VISITOR (TYPE II) VIOLENCE BY THE HOSPITAL UNIT NURSE MANAGERS AND STAFF

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Objectives To examine the management of workplace violent events (type II) by hospital unit nurse managers and staff.

Method Cross-sectional surveys, telephone interviews, and semi-structured focus groups were employed among nurse managers and nursing unit staff in two large hospital systems.

Results Nurse managers and staff perceived an increase in type II violence in recent years which they attributed to an increase in financial needs of patients/families, and drug seeking behaviour. Both groups expressed sometimes feeling unsupported by their institutions with regard to their safety in the context of these events due to their organisation’s focus on maximising patient/visitor satisfaction, poorly defined/enforced visitor policies, and movement away from physical/chemical patient restraints. Nurse managers perceived themselves as the designated person on their unit responsible for de-escalation of violent situations, with security called only in extreme situations. Security involvement was not consistently considered an option for managing violent events. Unit staff concurred that they relied on their managers to assist, but were left to handle this in their absence. Managers expressed feeling torn between having to consider patient satisfaction versus worker safety at times. They sometimes resorted to rotating patients, known to be violent, between hospital units for purposes of relieving staff from over-exposure to violent behaviour.

Conclusions Poorly defined and/or enforced hospital level policies results in nurse managers and staff being left to determine how violent events are managed, which sometimes occurs at the expense of their safety. Efforts at identifying effective institutional and unit level violence prevention policies and strategies are needed.