Objectives To characterise geographical distribution and time trends of chronic kidney disease (CKD) mortality in the context of the epidemic of Mesoamerican nephropathy (MeN), likely related to occupational heat stress and other, unknown, factors.

Method Vital statistics (1970–2012) provided deaths from CKD. In the Guanacaste province, the SMR for 1997–2012 was five-fold in men and two-fold in women. In Guanacaste, CKD mortality increased from the mid-1970s in men, and mid-1980s in women. Age-standardised rates per 100,000 in men aged ≥30 increased from 5.8 in the early seventies to 75.0 in 2007–2012, compared to 5.9 to 16.2 in the rest of Costa Rica. For women, rates increased from 4.5 to 20.7 in Guanacaste versus 4.2 to 9.7 in the rest of the country. Within Guanacaste, there was marked spatial variation in mortality between counties, with patterns being consistent between time periods but different for men and women.

Conclusions Guanacaste is a heterogeneous CKD “hot spot,” affecting mostly men, but to lesser extent also women. CKD mortality increased from the mid-1970s in men, and mid-1980s in women. Age-standardised rates per 100,000 in men aged ≥30 increased from 5.8 in the early seventies to 75.0 in 2007–2012, compared to 5.9 to 16.2 in the rest of Costa Rica. For women, rates increased from 4.5 to 20.7 in Guanacaste versus 4.2 to 9.7 in the rest of the country. Within Guanacaste, there was marked spatial variation in mortality between counties, with patterns being consistent between time periods but different for men and women.

Conclusions This study provided additional evidence of increased lung cancer risk in bricklayers. Although non-causal explanations cannot be completely ruled out, the association is plausible in view of the potential for exposure to several carcinogens, notably crystalline silica and to a lesser extent asbestos.

Objectives “Traditional” occupational health research has focused on hazard identification in the work environment and the effects on health. Young adults represent 13% of the UK working population, yet little is known about whether pre-existing conditions are associated with their job choice.

Method The study was based on data from the Avon Longitudinal Study of Parents and Children (ALSPAC). At 16 and 18 years, participants were asked to report their current employment. Information on pre-existing asthma was obtained from previous questionnaires. Multivariate analysis was applied to determine the relationship between previous illness and current occupations.

Results A total of 5087 and 3347 participants responded to the 16 and 18 years questionnaires, respectively. At 16, 4.3% left full time education for employment and 26.0% at 18. Perceived overall health was slightly better among those still in education at 16 years, although such difference was no longer observed at 18. Those with a previous diagnosis of asthma were less likely to be employed in jobs associated with high risk of adult onset asthma (OR = 0.78; 95% CI 0.59–1.02). On the other hand, those who reported to have asthma at 16 but not at 18 were more likely to be engaged in high risk jobs (OR = 2.20; 1.35–3.58).

Conclusions Results of this prospective study suggest a possible “healthy hire effect” among young people with asthma, although such avoidance might be modulated by the time of diagnosis.

Objectives Bricklayers may be exposed to several lung carcinogens, including crystalline silica and asbestos. Previous studies reported an excess of lung cancer among these workers. We examined lung cancer risk among bricklayers within SYNERGY, a large international pooled analysis of case-control studies on lung cancer and the joint effects of occupational carcinogens (http://SYNERGY.iarc.fr).

Method The pooled dataset included 15,608 cases and 18,531 controls from 22 centres in Europe, Canada, Hong Kong, and New Zealand. For men ever employed as bricklayers we estimated odds ratios (ORs) and 95% confidence intervals (CIs) adjusted for study centre, age, lifetime cigarette smoking history, and employment in occupations with exposures to known or suspected lung carcinogens.

Results We found 1,332 cases and 1,004 controls who had ever worked as bricklayers (OR: 1.35; 95% CI: 1.22–1.49). There was a clear positive trend with length of employment (P < 0.0001). The relative risk was higher for squamous (OR: 1.44, 95% CI: 1.28–1.63, 578 cases) and small cell carcinomas (OR: 1.60, 95% CI: 1.36–1.87, 248 cases), than for adenocarcinoma (OR: 1.14, 95% CI: 0.98–1.32, 289 cases) (P-value for homogeneity: 0.0007). ORs were still elevated after additional adjustment for education and in analyses using blue collar workers as referents.

Conclusions This study provided additional evidence of increased lung cancer risk in bricklayers. Although non-causal explanations cannot be completely ruled out, the association is plausible in view of the potential for exposure to several carcinogens, notably crystalline silica and to a lesser extent asbestos.