hip circumference and leisure-time physical activity on all-cause mortality.

Methods We used a prospective population design with approximately 14 years’ follow-up and estimated the HRs of all-cause mortality for combinations of physical activity and hip circumference. 3120 men and 4068 women aged 21 to 92 years without pre-existing diagnosis of diabetes, stroke, ischaemic heart disease, or cancer in 1991–1994 and with complete information on the variables of interest were included. They were followed until 2009 in the Danish Civil Registration System, with 1.5% loss to follow-up and 2534 deaths.

Results Hip circumference was inversely associated with all-cause mortality irrespective of physical activity. However, physical activity seemed to counterbalance some of the adverse health effects of a small hip circumference, with the excess mortality in the lower quartile of hip circumference being reduced by 41% in men (HR diff: 1.41, 95% CI 1.14 to 1.74) and 40% in women (1.40, 1.14 to 1.71) when comparing physically inactive with the active. These associations were observed after adjustment for waist circumference, height, and weight change in the 6 months before the examination.

Conclusion A small hip circumference appears hazardous to survival. However, being physically active may counterbalance some of the hazardous effects of a small hip circumference.

P1-489 PREVALENCE AND DETERMINANTS OF SOLITARY PULMONARY NODULES DETECTED USING THORACIC IMAGING TESTS DURING ROUTINE CLINICAL PRACTICE

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Introduction The finding of a solitary pulmonary nodule (SPN) (<3 cm) in routine radiological examination may represent an early stage of lung cancer or a benign lesion, where any further diagnostic procedures may pose an unnecessary risk to patient health. Although SPNs have been described in high risk populations, their frequency in routine clinical care has not been determined.

Methods 4691 consecutive patients ≥55 years referred for a thoracic imaging test in two hospitals in the Community of Valencia, Spain in 2010 were included. Six expert radiologists independently classified each imaging report according to the presence or absence of a SPN. Other variables, such as patient demographics diagnosis suspicion, smoking habit, the referral clinical department, type of radiological test performed, and clinical setting were ascertained from medical records. The association between SPNs and patient/clinical characteristics was assessed with unconditional logistic regression.

Results SPNs were observed in 351 patients (7.5%) and their prevalence varied according to patient characteristics and the referral department, with oncology (15.4%), primary care (10.7%) and pneumology (9.8%), being the highest. After controlling for other factors, SPNs were more common in men (aOR 1.47, 95% CI 1.25 to 1.74), and in smokers (aOR 1.62, 95% CI 1.41 to 1.82).

Conclusions At least one in every 13 patients undergoing a thoracic imaging test during routine clinical care will show a SPN. The follow-up of these patients is needed in order to estimate their predictive value for lung cancer, and to avoid the initiation of an unnecessary cascade of clinical procedure in benign lesions.
Results During the study period, 39,676 scans were recorded on 21,089 patients. The number of scans and patients scanned differed in relation to quintiles of deprivation, with increasing numbers of scans and patients associated with increasing area-level deprivation. Significant associations were also seen between deprivation and age at scan, age at first scan, type of CT scan, and the number of scans per patient.

Conclusion Social inequalities exist in the numbers of young people undergoing CT scans with those from deprived areas more likely to do so. This is likely to reflect the rates of injuries in these individuals and implies that certain groups within the population may receive higher radiation doses than others due to medical procedures.

Methods From 1997 through 2005, 18,511 cases were recorded by PBCR-SP. From the 1997 through 2007, 767,752 deaths were recorded by Mortality Information System of São Paulo city. The fetal deaths were excluded. Exceeding spaces between characters were excluded. Type and size of field, and different spellings with same phoneme were standardised. Prepositions were removed. Scores for ranking true match pairs and probabilistic record linkage was performed using Reclink 3.2 software. The descriptive statistics and Kaplan-Meier test were conducted before and after linkage.

Results Of 18,511 cancer cases, of both sexes, aged between 0 and 100 years and older, 7528 were true matched pairs. There was an 85.8% gain in residential address and a 11.0% gain in death date in 4086 cases, mothers’ name was aggregated and for all paired registries, cause of death. In the survival analysis, it was verified a 14.4% underestimation in the one-year survival probability and a 31.6% underestimation for the three-year.

Conclusion Probabilistic record linkage has shown to be effective in the identification of deaths. An expressive gain in information quality of PBCR-SP database was observed.

Results Significant differences were seen in all three outcomes between males and females (p<0.001). No direct significant associations were seen with birth weight. Increased paternal age was associated with significant increases in % SB and decreases in cpm and MVPA (p<0.05). Associations with BMI at 9 yrs were in the expected directions. Increased time spent in sports clubs was significantly associated with decreased % SB (p=0.12) and increased MVPA (p=0.01), but not cpm (p=0.13).

Conclusions Although we found no evidence for an effect of birth weight on PA, path models suggest indirect effects mediated through BMI. Having an older father appeared to have a negative impact on the child’s PA levels, while participation in sports clubs increases time spent in MVPA, but not cpm.

Methods This was a cross-sectional study. A sample of 478 Pap smears was selected from 12 PCU-São Paulo-Brazil, between April and September 2010. Collection date, name of the responsible physician, record number, age, pregnancy presence, and previous patients' collections, date of result, presence and epithelial classification of the sample and cytological result were collected from the “registration book”. The samples were classified as satisfactory with squamous columnar junction (SCJ), satisfactory without SCJ, and unsatisfactory. Samples without epithelial classification in the “registration book” were reported as “missing”. Descriptive analyses were calculated.

Results The mean age was 39 years (SD=14.2), median 37 years (range 14–82), 38.1% of samples were satisfactory with SCJ, 22.6% satisfactory without SCJ, 0.4% unsatisfactory and 38.9% missing.

Conclusion It is concluded that there was a low percentage of unsatisfactory samples; however, the results are unreliable, because a high percentage of samples without the epithelial classification was identified. It is necessary to improve the recording of the epithelia by professionals from PCU, because a low quality examination can lead to inadequate prevention of cervical cancer.
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