

Conclusion Patients treated with clopidogrel and omeprazole had not increase risk for all-cause mortality and for CE after adjusting for comorbidities.

P2-8 LATE NIGHT ENERGY INTAKE: ASSOCIATION WITH LONG-TERM RISK OF HYPERTENSION IN THE BRITISH BIRTH COHORT 1946

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Background The role of circadian rhythm of energy and macro-nutrient intake in influencing cardiometabolic risk factors is increasingly recognised. However, little is known of the association between time of energy intake and long-term risk of hypertension. **Objectives** To examine the association between time of day of energy intake and risk of hypertension.

Methods The analysis included 517 men and 635 women who were members of the MRC National Survey of Health and Development (1946 British birth cohort). Diet was assessed using 5d estimated diaries at ages 43 years (1989) and 53 years (1999). Diet diaries were divided into seven time slots: breakfast, mid-morning, lunch, mid-afternoon, evening, night and extra. The association between time of day of energy intake in 1989 or 1999 and blood pressure in 1999 was assessed using logistic regression after adjustment for sex, social class, smoking status, region and body mass index. Hypertension was defined by systolic blood pressure ≥ 140 mm Hg or diastolic blood pressure ≥ 90 mm Hg.

Results Compared to the lowest quintile, cohort members from the highest quintile of energy intake at night in 1989 were more likely to have high systolic (OR=1.69; 95% CI 1.08 to 2.7; $p=0.024$) but not high diastolic blood pressure in 1999 (OR=1.64; 95% CI 1.02 to 2.66; $p=0.055$). Energy intake at night in 1999 was not related to high systolic or diastolic blood pressure in 1999. No associations between energy intake at other time slots and hypertension were observed.

Conclusions Increased energy intake at night is predictive of higher risk of systolic hypertension 10 years later.

P2-9 AMINO ACIDS AND INCIDENCE OF HYPERTENSION IN A DUTCH OLDER POPULATION: THE ROTTERDAM STUDY

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Background Epidemiological studies have shown an association between dietary protein and hypertension, which may be attributed to specific amino acids (AAs). We examined the relation of dietary arginine, cysteine, lysine, proline and tyrosine with incident hypertension in 1958 men and women from the Rotterdam Study, aged ≥ 55 years, who were not treated with antihypertensive medication and were normotensive at baseline.

Methods HRs (95% CI) were calculated in tertiles of AA intake (expressed as percentage of total protein intake), using a Cox proportional model with adjustment for age, gender, BMI, smoking, alcohol intake, education, and intake of energy and several nutrients.

Results Mean systolic and diastolic blood pressure levels were 122 ± 12 mm Hg and 69 ± 9 mm Hg and dietary protein intake was 82 ± 20 g/day (~ 17 en%). Arginine (with nuts being the main source) contributed $5.3 \pm 0.4\%$ of total protein intake, cysteine contributed $1.4 \pm 0.1\%$ (main source: grain), lysine $6.8 \pm 0.4\%$ (main

source: meat), proline $7.4 \pm 0.6\%$ (main source: dairy and grain), and tyrosine $3.7 \pm 0.1\%$ (main source: dairy). Intake of these AAs was not significantly associated with incident hypertension (HRs ranging from 0.84 to 1.15; $p_{\text{trend}} \geq 0.15$). We observed, however, a tendency towards an increased risk for lysine (HR upper tertile vs lower tertile 1.15; $p_{\text{trend}}=0.21$) and towards a decreased risk for tyrosine (HR 0.86; $p_{\text{trend}}=0.15$).

Conclusion We found no significant associations between AAs, and incidence of hypertension in this older population. There was, however, a tendency towards an adverse effect of lysine and a beneficial effect of tyrosine, which warrants further investigation in larger prospective studies.

P2-10 QUALITY OF LIFE OF PATIENTS IN RENAL REPLACEMENT THERAPY IN BRAZIL: COMPARISON AMONG TREATMENT MODALITIES

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Purpose This study aimed to evaluate the quality of life of Renal Replacement Therapy patients in Brazil and its relationship with socioeconomic and demographic conditions, aspects related with the disease and health services.

Methods The participants were representative of the national population. Results were based on interviews through structured questionnaires that were applied to 3036 patients in haemodialysis, peritoneal dialysis and renal transplant. Information about socioeconomic and demographic situation as well as quality of life was obtained. The co-morbidities referred by the patient were gathered into a co-morbidity index. It was built by means of analysis of Item Response Theory.

Results There are significant differences between renal transplantation and both dialysis in all dimensions of SF-36. Comparison between haemodialysis and peritoneal dialysis showed differences in functional capacity, physical and social aspects. Renal transplant patients had the best mean score in the physical component. There is no significant difference regarding mental component. Physical and mental components are influenced by co-morbidities and age. However, older patients had better mental quality of life but worse physical component. Better off and not hospitalised patients presented better quality of life (physical component). The treatment unit influences quality of life of haemodialysis patients.

Conclusions Renal transplant patients have the best of quality of life. It's necessary to implement actions that enable more patients access to renal transplantation.

P2-11 GENDER-SPECIFIC SOCIOECONOMIC PATTERNING OF NINE ESTABLISHED CARDIOVASCULAR RISK FACTORS

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Introduction We aimed to compare the associations between education, occupation and marital status with nine cardiovascular risk factors (RF) which explain 90% of incident myocardial infarction.

Methods We surveyed a representative sample of 1704 dwellers of Porto aged ≥ 40 years using structured questionnaires in 1999–2003. A fasting blood sample was collected. Education (completed years), occupation (upper white collar, lower white collar, blue collar) and

marital status (married or not) were the exposures. The outcomes were hypertension, diabetes, hypercholesterolaemia, smoking, sedentariness, abdominal obesity, diet, alcohol consumption and depression. Subjects were grouped as 0–1, 2–3 or ≥ 4 RF. Binomial and multinomial logistic regressions were used to estimate age-adjusted ORs.

Results Among women, both lower education and occupation were associated with hypertension, diabetes, sedentariness, abdominal obesity, poor diet, excessive alcohol intake and depression. Smoking was less prevalent among married women, with lower education and occupation. Among men, lower education and occupation were associated with sedentariness and excessive alcohol intake. Diabetes was more prevalent among less educated men. Being married increased the odds of hypertension in women but decreased the odds of smoking and poor diet in men. The effects of education and occupation were stronger in subjects with ≥ 4 RF than in those with 2–3 RF (reference: 0–1 RF).

Conclusion Overall, lower social standing is associated with adverse cardiovascular risk profiles in a dose-response manner. Gender-specific patterns emerge between education, occupation and marital status across established cardiovascular risk factors, contributing to clarify mechanisms linking socioeconomic position to cardiovascular health.

P2-12 RECURRENT DENTURE RELATED SORES AND ORAL CANCER

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Background The potential contribution of denture-related sores to oral carcinogenesis still fuels controversies. This study assessed the association between recurrent denture-related sores and squamous cell carcinoma in anatomic sites of the mouth that are specifically at risk of sores by ill-fitting dentures.

Methods We conducted a hospital-based case-control study comprising 71 histologically-confirmed cases of squamous cell carcinoma in anatomic sites of the mouth that were specifically at risk of developing sores due to ill-fitting dentures, who were attended at two hospitals in São Paulo, Brazil; and 240 controls without cancer, recruited from outpatient units of the same hospitals. Associations were assessed by multivariate logistic regression conditioned on socio-demographic (family income) and behavioural characteristics (tobacco smoking, alcohol drinking and dietary patterns).

Results The association between ill-fitting dentures and mouth cancer was statistically significant in the multivariate model, which adjustment for socio-demographic and behavioural characteristics: OR=3.98 (95% CI 1.06 to 14.96). The specific assessment of association between tumours in the lower jaw and sores by mandibular dentures confirmed this result (OR=6.39; 95% CI 1.49 to 29.52).

Conclusions These results reinforce the hypothesis that an appropriate application and monitoring of dental prosthesis represent a non-negligible scope for cancer prevention.

P2-13 FAMILY HISTORY OF CANCER: THE ROLE OF SMOKING STATUS OF AFFECTED RELATIVES

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Tobacco smoking is a major risk factor for head and neck cancer (HNC). Family history of cancer is also associated with HNC. This association lies in the difficulty in balancing the influence of hereditary vs shared environmental factors. We aimed to assess the role of smoking status of affected relatives on the risk of HNC. This study comprised 567 patients with HNC and 328 controls without cancer admitted in five centers in São Paulo State, Brazil, from 2005 to 2009; all of them had at least one parent or sibling with cancer of any site reported. Multivariate unconditional logistic regression was used to assess the effect of tobacco smoking in affected relatives on the risk of HNC. ORs were adjusted on socioeconomic status, tobacco smoking, alcohol drinking, age, sex and the number of relatives that experienced cancer. Having one or more smoker affected relative was associated with a higher risk of HNC (OR=2.39; 95% CI 1.69 to 3.37). This association remained high when stratification by cancer subsites was performed: oral cavity (2.11; 1.41 to 3.17), oropharynx (2.84; 1.54 to 5.23), larynx (4.05; 2.36 to 6.93). In conclusion, cancer affected relatives of HNC cases are more exposed to tobacco smoking than cancer affected relatives of controls. This finding suggests that lifestyle factors of parents or siblings with cancer history may play a role on the association between family history of cancer and HNC.

P2-14 STUDY OF THE QUALITY OF LIFE IN PATIENTS AFTER URINARY STONE FRAGMENTATION

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This study was designed to evaluate the health-related quality of life (HRQoL) of patients who had undergone lithotripsy for treatment of urinary stones and to identify factors that significantly affect their HRQoL.

Methods A comparative cross-sectional study was performed at the main university hospital in Riyadh, Saudi Arabia. All patients admitted to the urology service for urinary stones fragmentation during a 9-month period were included in the study. An observation period of 3–15 months following the last treatment was allowed before patients completed the QOL questionnaire. Information on socio-demographic, medical characteristics, number and type of lithotripsies were collected. The Medical Outcome Study Short-Form 36-item survey (SF-36) was used to assess HRQoL. For comparison, the HRQoL in an equal number of healthy individuals was investigated; multivariate analysis of variance was used for comparisons between groups.

Results Compared with healthy subjects, lithotripsy patients had significantly higher mean scores in the different subscales of the SF-36 questionnaire such as physical functioning, vitality, role-physical, role-emotional and mental health, indicating a better HRQoL. Compared with patients who underwent ureteroscopic or extracorporeal shock-wave lithotripsies, those who underwent percutaneous lithotripsy had significantly worse mean scores for all the SF-36 scales, except for body pain. Factors impacting HRQoL of the patients were age, obesity, diabetes mellitus, and stone characteristics such as localisation (in the kidney) and recurrence.

Conclusions Post-lithotripsy, patients have a favourable HRQoL compared with healthy volunteers. Further prospective studies are warranted to confirm these results owing to the inherent limitations of the cross-sectional design.