not been sufficiently studied. Sectional analyses were conducted among menopausal employees (n=486), participating in a longitudinal study (the Pró-Saúde Study). Data on insomnia complaints (IC), menopause characteristics, self-report of physical morbidity medical diagnosis, common mental disorders (CMD), social support and stressful life events (SLE) were collected. Insomnia complaints were analysed as polytomous outcome (frequent, occasional and absent), and crude and adjusted ORs were calculated by multinomial logistic regression. Prevalences of frequent and occasional IC among women in menopause were 25.7% and 32.7%, respectively. Menopause characteristics were not associated with IC. Presence of CMD (GHQ-12) was strongly associated with frequent IC [OR=6.14 (95% CI 3.24 to 11.65)]. For occasional IC, values were lower [OR=2.98 (95% CI 1.59 to 5.57)], but still significant. All social support dimensions were associated with occasional IC, after adjustment, except for the intermediate tertile of total social support. The social support dimension associated with frequent IC after adjustment was “to have low total social support” [OR=2.46 (95% CI 1.53 to 4.56)], “to have low emotional support/information” [OR=2.31 (95% CI 1.27 to 4.19)], and “to have low affective support/positive social interaction” [OR=2.21 (95% CI 1.22 to 4.03)]. Our results warn of an important association among insomnia complaints and CMD and social support. These psychosocial factors can contribute to the onset of primary insomnia, a symptom that in general is not taken into consideration when the patient seeks for medical help.

**P1-503 MENOPAUSE AND INSOMNIA IN THE PRÓ-SAUDE STUDY: ASSESSING THE ROLE OF PSYCHOSOCIAL, SOCIO-ECONOMIC AND DEMOGRAPHIC FACTORS**

DOI:10.1136/jech.2011.142976bg.91

1 J R Robaina,* 1C de S Lopes, 2L Rotenberg. 1Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil; 2Fundação Oswaldo Cruz, Rio de Janeiro, Rio de Janeiro, Brazil

Studies show that insomnia in menopause may be associated with psychological symptoms, which would reflect its association with depression and high levels of tension and stress. To estimate the prevalence of insomnia and to assess its association with menopausal status in a population of women, a cross-sectional study was conducted among employees of a university in Rio de Janeiro, participating in a longitudinal study (the Pró-Saúde Study) (n=2189), using a self-administered questionnaire to evaluate insomnia, menopausal status and other variables. Non-pregnant women who reported absence of menstruation were considered “in menopause”. Insomnia was ranked as difficulty initiating sleep (DIS), difficulty maintaining sleep (DMS) and general insomnia complaints (GIC). Crude and adjusted ORs were calculated by multivariate logistic regression. Among women in menopause, prevalence of insomnia was 20.8% for difficulty initiating sleep, 21.8% for difficulty maintaining sleep, and 25.7% for general insomnia complaints. In the final model, adjusted by socio-economic and demographic variables, common mental disorder (CMD), stressful life event (SLE) and social support, all insomnia categories were associated with menopause. ORs were the following: for DIS OR=1.58 (95% CI 1.07 to 2.34); for DMS OR=1.61 (95% CI 1.08 to 2.41); and for GIC OR=1.65 (95% CI 1.15 to 2.43). These results are consistent with other studies, and show that menopause is significantly associated with the presence of insomnia, is independent of age, income, education, CMD, SLE and social support. The results of our study can help highlight the importance of managing/treating insomnia associated with menopause.

**P1-504 DIETARY INTAKE AND ADEQUACY TO NUTRITIONAL RECOMMENDATIONS IN PREGNANT WOMEN IN A MEDITERRANEAN AREA. INMA-VALENCIA COHORT**

DOI:10.1136/jech.2011.142976bg.92

1 J R Robaina,* 1C de S Lopes, 2L Rotenberg. 1Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil; 2Fundação Oswaldo Cruz, Rio de Janeiro, Rio de Janeiro, Brazil

Interset in the DASH diet adapted to the southern Brazil population. A pilot study, including 50 pregnant women aged 20 to 69 years, from a Hypertension clinic of a reference centre (Hospital de Clínicas de Porto Alegre, Porto Alegre, Brazil), was conducted to assess dietary intake and adequacy for micronutrients. Spanish women showed lower intakes of fruits and carbohydrates and higher intakes of proteins, total fat, saturated fatty acids, MUFAs and n-3 fatty acids compared to their foreign counterparts.

**P1-505 CURRENT DIET VS DASH DIET ASSESSED BY FOOD FREQUENCY QUESTIONNAIRE USING FOOD GROUPS: AGREEMENT AMONG HYPERTENSIVE PATIENTS**

DOI:10.1136/jech.2011.142976bg.93

1 J L Rodríguez-Bernal,* 2R Ramón, 1M Murcia, 2J Quiros, 2J Vioque, *C Navarrete, 2M Rebagliato, 2F Ballester. 1Centro Superior de Investigación en Salud Pública, Valencia, Spain; 2Dirección General de Salud Pública, Valencia, Spain; *Universidad Miguel Hernández, Alicante, Spain

Introduction Dietary guidelines for hypertensive patients require methods able to identify food patterns and monitoring adherence, which could be based on a simplified Food Frequency Questionnaire (FFQ) for food groups.

Objective To develop a FFQ for food groups in order to easily recommend the DASH (Dietary Approach to Stop Hypertension) diet for hypertensive patients.

Methods A cross-sectional study was conducted among adults, aged 20 to 69 years, from a Hypertension clinic of a reference centre (Hospital de Clínicas de Porto Alegre), in southern Brazil. Data gathering using two sequential 24 h recalls (RA 24 h) were adopted to assess dietary intake. A list of food groups was generated, based on the DASH diet adapted to the southern Brazil population. A pilot study, including 50 individuals, was conducted to test the FFQ structure, consumption of food groups, two periods of recall, and pictures and wording for food items identification.

Results A sample of 127 hypertensive patients were interviewed at seven and 30 days, using a qualitative FFQ with 40 items aggregated