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among rural women. The study also tried to identify the awareness, perceptions & attitude towards breast cancer & mammography use among these women.

Methods Breast cancer educational sessions were conducted by trained health workers. Women were later contacted at their homes and invited to attend a CBE and mammography at the tertiary care centre at no cost. Those willing were provided transportation as well as assistance to attend the screening session.

Results A total of 599 women were screened over a span of 2 years (response rate -85%). Most of the participants were in the 40-50age group (59.8%). Seventy nine per cent were unaware regarding the risk factors for breast cancer and nearly 60% were not aware of any breast cancer screening methods. Only 16% had heard of mammography earlier. Anxiety, pain and cost factor were some of the perceived barriers for mammography.

Conclusion In spite of poor awareness regarding breast cancer & it's screening modalities participation was encouraging, demonstrating that a targeted intervention could bring about the required health seeking behaviour.

P2-212 ASSOCIATION BETWEEN THE RANK POLYMORPHISM AND THE NUMBER OF TEETH AMONG JAPANESE

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Introduction The receptor activator of nuclear factor-κB (RANK), the receptor for RANK ligand, is a member of the tumour necrosis factor receptor superfamily and plays a central role in osteoclast development. There is little epidemiological evidence as to whether RANK polymorphisms influence oral health. This study investigated the association between the RANK polymorphism and the number of teeth among Japanese.

Methods We used baseline data from the Shizuoka area in the Japan Multi-Institutional Collaborative Cohort Study. The analysis included 4927 subjects (3348 men, 1579 women; age range 35-69 years). The genotyping of the RANK polymorphism (rs12458117) was conducted using a PCR-based TagMan method. The number of teeth was self-reported.

Results The mean tooth number was 24.2 ± 5.6 (range 0-28) and decreased with age (p<0.01). The subjects with the GG genotype had significantly fewer teeth than those with the GA or AA genotype, after adjusting for sex, age and covariates (p=0.02). In a multivariate analysis after adjusting for covariates, men with the GG (OR, 2.6; 95% CI 1.1 to 2.1) and GA (OR, 1.4; 95% CI 0.7 to 1.6) genotypes had a higher risk of having less than 20 teeth, as compared to those with the AA genotype. No significant OR was found in women.

Conclusion Our findings suggest that the RANK polymorphism is related to tooth loss among Japanese men.

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ASSOCIATION BETWEEN DIETARY PATTERNS AND SERUM C-REACTIVE PROTEIN AMONG JAPANESE MEN AND WOMEN

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Introduction Dietary pattern may influence the risks of cardiovascular disease, atherosclerosis, and type 2 diabetes through its effects on inflammation. We evaluated the association between dietary pattern and serum high-sensitivity C reactive protein (hs-CRP) in a Japanese population.

Methods In this cross-sectional analysis, we used baseline data from 3905 men and 5640 women (age 40-69 years) who participated in a population-based cohort study between November 2005 and December 2007. Participants with possible inflammation-related diseases, current analgesic use, high hs-CRP levels (≥3000 ng/ml) or extreme dietary energy intake were excluded. We used 46 items from a validated short food frequency questionnaire and examined major dietary patterns by factor analysis.

Results We identified five dietary patterns: healthy (high in vegetables and fruit), Western (high in meat and fried foods), seafood (high in shellfish, squid, fish, etc), bread (high in bread and low in rice), and dessert (high in confections and fruit). After adjustment for age, alcohol use, smoking, physical activity, and body mass index, hs-CRP levels in men were inversely associated with the healthy, bread, and dessert patterns (p-trend: 0.02, 0.06, and 0.001, respectively) and positively associated with the seafood pattern (ptrend=0.03). In women, hs-CRP levels were inversely associated with the healthy pattern (p-trend=0.07) and positively associated with the Western pattern (p-trend=0.06).

Conclusions The healthy dietary pattern may be associated with suppressed inflammation in Japanese men and women, independently of body mass index and other factors. The sex-specific associations of hs-CRP with other dietary patterns (eg, the seafood pattern) require further study.

P2-214 | RICE INTAKE AND TYPE 2 DIABETES IN JAPANESE MEN AND WOMEN: THE JAPAN PUBLIC HEALTH CENTER-BASED PROSPECTIVE STUDY

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Introduction Refined carbohydrates have been suggested to deteriorate glucose metabolism; however, whether persons with elevated intakes of white rice, a major staple food for the Japanese, experience increased risk of developing type 2 diabetes remains unclear. We prospectively investigated the association between white rice intake and risk of type 2 diabetes.

Methods Participants were 25666 men and 33622 women aged 45-75 years who participated in the second survey of the Japan Public Health Center-based Prospective Study and had no prior history of diabetes. We ascertained food intake by using a validated 147-item food frequency questionnaire. ORs of self-reported physician-diagnosed type 2 diabetes over 5 years were estimated by using logistic regressions.

Results A total of 1103 new cases of type 2 diabetes were selfreported. Rice intake was significantly associated with an increased risk of type 2 diabetes in women; the multivariate-adjusted OR for the highest compared with lowest quartiles of rice intake was 1.65 (95% CI 1.06 to 2.57; p for trend =0.005). In men, the association was unclear, although there was a suggestion of a positive