

P132**RELATIONSHIP OF PHYSICAL PERFORMANCE AND BONE MINERAL DENSITY IN A TAIWANESE METROPOLITAN ELDERLY POPULATION**C.-C. Lin^{1,2,*}, T.-C. Li³, C.-S. Liu⁴, N.-H. Meng⁵, C.-H. Lin⁴, W.-Y. Lin⁴, C.-K. Chang⁵, C.-I. Li⁶¹China Medical University, School of Medicine, ²China Medical University Hospital, Department of Family Medicine, ³China Medical University, ⁴China Medical University Hospital, Department of Family, ⁵China Medical University Hospital, ⁶China Medical University Hospital, Department of Medical Research, Taichung, Chinese Taipei**Aims:** Previous study reported positive association between BMD and hand grip strength in Taiwanese elders living in long-term care facility. The aim of this study was to examine the relationship between BMD and various physical performances in community-dwelling elders in Taiwan.**Methods:** A cross-sectional study was conducted in elders living in 8 administrative Lis at north district of Taichung City in 2009. A total of 838 elders (392 women and 446 men), aged 65–94 years old, were recruited. BMD and appendicular skeletal muscle mass are measured by DXA (GE-Lunar DPX Pro, Lunar Corporation, Madison, WI, USA). Low bone density was defined as: (1) osteopenia: a BMD value between 1 and 2.5 SD below the mean of men or women age 20–29 years as reference group. Physical performances including balance (one leg limb stand), physical function (gait speed, 20-s chair stand test, timed up and go test and 5-min walk test) are measured for each elder.**Results:** The prevalence of normal, osteopenia and osteoporosis was 51.3 %, 35.1 % and 13.6 %, respectively. The mean walking meters of 6-min walk test for normal, osteopenia and osteoporosis groups were 433.7±129.4, 432.8±110.0 and 384.3±159.1, respectively. The mean of grip strength for normal, osteopenia and osteoporosis groups were 28.9±8.3, 26.0±7.7 and 22.1±7.9, respectively. We observed elders with osteopenia and osteoporosis had worse flexibility, 5-min walk test and grip strength than those with normal BMD by using linear regression models with adjustment for age, sex, body composition, exercise behavior, and comorbidity.**Conclusions:** We conclude that osteopenia and osteoporosis elders have greater loss in flexibility and physical function than those with normal BMD.**P133****LOW BACK PAIN ASSOCIATED WITH SOCIODEMOGRAPHIC FACTORS, LIFESTYLE AND OSTEOPOROSIS: A POPULATION-BASED STUDY**C.-C. Liao^{1,2,*}, Y.-C. Chou³¹Department of Anesthesiology, Taipei Medical University Hospital, ²School of Medicine, Taipei Medical University,Taipei, ³Department of Physical Medicine and Rehabilitation, China Medical University Hospital, Taichung, Chinese Taipei**Aims:** To investigate the prevalence and factors associated with low back pain among adults in Taiwan.**Methods:** The National Health Interview Survey, a cross-sectional study, was conducted from October 2002–March 2003 to gather data from 24,435 adults aged 20 years and older selected randomly from Taiwan's general population. Participants with history of low back pain were assessed using a comprehensive questionnaire. Additional assessment of osteoporosis diagnosed by physician was also evaluated.**Results:** Among the 24,435 adults, 25.7 % had reported low back pain within the past 3 months. Factors associated with low back pain included female gender (odds ratio (OR)=1.67, 95%CI=1.43–1.95), low education (OR=1.38, 95%CI=1.23–1.55), and blue-collar work (OR=1.16, 95%CI=1.07–1.26). Patients with osteoporosis were more likely than those without osteoporosis to have low back pain (OR=2.55, 95%CI=2.33–2.78) or frequent low back pain (OR=4.15, 95%CI=3.66–4.70). The ORs of frequent low back pain in association with osteoporosis in men and women were 5.77 (95%CI=4.66–7.15) and 3.49 (95%CI=2.99–4.07), respectively.**Conclusions:** Low back pain is prevalent among Taiwanese adults and is associated with osteoporosis.**Acknowledgements:** This study was supported by China Medical University Hospital (grant number 1MS1), Taiwan Department of Health Clinical Trial and Research Center for Excellence (grant number DOH101-TD-B-111-004) and Taiwan Department of Health Cancer Research Center of Excellence (grant number DOH101-TD-C-111-005).**P134****IS THE RECOMMENDED DAILY ALLOWANCE FOR VITAMIN D TOO LOW FOR THE KASHMIRI PREGNANT WOMEN?**S.R. Masoodi^{1,*}, M.A. Dar², M.I. Bashir¹, A.I. Wani¹, Z.A. Shah³, A.H. Zargar²¹Endocrinology, ²Sher-i-Kashmir Institute of Medical Sciences (SKIMS) Srinagar, ³Immunology & Molecular Medicine, Sher-i-Kashmir Institute of Medical Sciences (SKIMS) Srinagar, Srinagar, India**Aims:** To determine the vitamin D status in apparently healthy pregnant Kashmiri women, and whether the recommended daily allowance for vitamin D in pregnancy is sufficient to maintain a normal vitamin D status in this population.**Methods:** 165 consenting pregnant women attending the antenatal clinic of the Department of Obstetrics & Gynecology of our Institute were enrolled. All subjects underwent a detailed history and physical examination as per a preformed proforma.