grip strength in the lowest quintile according to subgroups of gender and body mass index (83 elders as low grip strength and 387 elders as normal grip strength).

Results: The minor allele frequency for rs4814615 and rs2021785 was 0.4926 and 0.3109, respectively. After adjusting for age, gender, and body mass index, our study indicates that SNP rs4814615 G/A genotype was significantly associated with decreased grip strength (β =-1.179 Kg, p<0.05) and SNP rs2021785 was not associated with decreased grip strength. In addition, the adjusted odds ratios of low grip strength were at borderline significance [1.952 (95% CI: 0.984-3.874) among elders with SNP rs4814615 G/A genotypes compared with elders with GG genotype, p=0.056]. On the contrary, the adjusted odds ratios of low grip strength were significantly associated with SNP rs2021785 A/A genotype [0.316 (95% CI: 0.100-0.998) among elders with SNP rs4814615 G/A genotypes compared with elders with GG genotype, p=0.049].

Conclusion: We conclude that polymorphisms rs4814615 and rs2021785 in the PCSK2 gene are predictors of grip strength, indicating rs4814615 and rs2021785 appear to be a susceptibility biomarker of grip strength. But future study may be required.

AGREEMENT OF BODY COMPOSITION MEASURED BY BIOELECTRICAL IMPEDANCE ANALYSIS AND DUAL-ENERGY X-RAY ABSORPTIOMETRY IN OLDER ADULTS

成老人使用生物電阻抗分析法與雙能 X光吸光測定法 測量體組成的一致性

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Purpose: This study aimed to compare the estimates of body fat mass percentage (%BF) and lean mass percentage (%BL) by performing bioelectrical impedance analysis (BIA) and dual energy X-ray absorptiometry (DXA) in Chinese older adults.

Methods: A total of 1,382 older adults aged 55 years and over was recruited in a community-based cross-sectional study in Taichung City, Taiwan from 2010 to 2012. Among them, 638 (46.2%) were males and 664 (48.0%) were aged 65 years and older. Their body composition was measured by both bioelectrical impedance analysis (BIA) and dual energy X-ray absorptiometry (DXA) examinations. For each assessment, two indicators (%BF and %BL) in segmental body (legs, arms, and trunk) and in total body were calculated. Bland-Altman analyses and multiple regression analyses were used to assess relations of these indicators measured by BIA and DXA.

Results: Compared with DXA, BIA underestimated %BF [in males: -2.4, -2.8 to -2.0 (mean biases, 95% limit of agreement); in females: -1.44 (-1.80 to -1.77)] and overestimated %BL [in males: 6.3 (5.9 to 6.7); in females: 5.0 (4.7 to 5.3)].

一屆第 2 次會員大會暨學術研討會

論文

The significant predictors of the difference of total body fat percent and total body lean mass percent between DXA and BIA were %BF and %BL when body mass index and age were considered in both genders (in males: including %BF and %BL, adjusted R^2 =28.9% and 25.0%, respectively; in females: including %BF and %BL, adjusted R^2 =46.3% and 46.1%, respectively).

Conclusion: BIA provides a relatively accurate prediction of %BF and %BL in older adults, but less accurate prediction of %BF and %BL with aging.

CARING AN OLD AGED WOMAN WITH A CALCIFIED ABDOMINAL LESION – CASE REPORT

一位高齡婦右腹鈣化影像的診療-個案報告

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背景:老年病患經常是病史不詳、症狀非特異性、複雜性及多層面,侵入性檢查的安排更需謹慎考量;如何跟老人和家屬溝通也是挑戰甚高,本文整理腹部鈣化病灶的鑑別診斷及醫病溝通過程,供臨床醫師參考。

個案:一位83歲婦人因精神不佳,家屬陪同前來就診,理學檢查及回溯病歷,除高血壓病史外無特殊異狀,但X光意外發現右側上腹一橢圓形鈣化影像,初步懷疑是「膽囊或腎結石」,但腹部超音波未能發現任何鈣化組織,須排除「非完全性鈣化膽囊」,且考慮可能有惡性組織的風險,故安排電腦斷層掃描進一步評估,放射科醫師判斷為「陳舊性鈣化腎動脈血管瘤」,但一般外科醫師則評斷為「腎上腺腫瘤」,且安排相關血液檢驗,結果無異常發現,再次建議進行取組織檢查,但婦人不同意,其後也未再回診,為了有助影像診斷的判讀,家醫科醫師再次請放射科同仁協助,把CT掃描影像重組成3D影像再次判讀,並諮詢血管外科醫師意見,一致判讀是「腎血管瘤」,血管外科醫師建議可以血管攝影確診,並同時進行栓塞治療;家醫科醫師因考慮C婦高齡且健康狀況良好,故未積極建議C婦接受血管攝影,在2013年3月的電話追蹤,C婦血壓穩定、無不適,居家活動無困難。

討論:雖然至今這個案腹部內鈣化影像未有確實診斷,因該鈣化影像組織半年間沒變化故應屬良性,C婦84歲高齡、無症狀,基本生活功能無障礙,血壓亦已規律控制,鈣化血管瘤在腹部深處,且有脂肪層包裹,發生破裂風險不大,若為了確診而進行血管攝影或切片檢查,其所暴露的風險可能更高,個案和家屬對進行確診的意願也不高,故採取保守觀察態度;隨著檢查結果更改或外科醫師不同看法,家庭醫師與個案及家屬溝通面對很大壓力;對無

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