

psychiatric outpatients (48 males and 39 females) were determined.

Results: Patients with serum folate of less than 7 ng/ml, and tHcy of more than 10 nmol/ml were 77 % and 79%, respectively. The gene variant frequency of MTHFR C677T (n=87) was 33% CC, 47% CT and 20% TT, and that of 5-HTT (n=77) was 60% SS, 38% SL and 2% LL. There were larger gender differences in serum folate (m: 5.2 2.4, f: 7.6 6.1 ng/ml), tHcy (m: 10.2 6.5, f: 6.2 3.4 nmol/ml) and vitamin B12 (m: 431 236.1, f: 487.2 268.7 pmol/L), than those reported reference ranges.

Discussion: Japanese are vulnerable to depression because of the high frequency of SS of 5-HTT (1), especially when combined with TT of MTHFR (2). The male-specific folate effects reported in the previous studies may reflect the gender difference found in the folate status.

Reference: 1. Yamakawa M et al. Biochem. Biophys. Res. Commun. 334: 1165-1171 (2005). 2. Hiraoka M et al. Ibid 316: 1210-1216 (2004)

## Oral Track 19- Mental Health

### OT19-1

#### Relationship between Menopausal Perception, Adaptation, and Sexual Life of Andropause Men in Bangkok Metropolitan

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The descriptive study explored the relationship between adaptation and perception on menopause and sexual life of andropausal men who live with their spouse in Bangkok Metropolitan, Thailand. A total of 400 andropausal men were participated. Data were analyzed by using descriptive and analytical statistics. Results showed that the andropausal men had an average age of 48 years (SD=5.15) and had average income of 500 USD (16,408 baht). Most of them (62.3%) had an annual medical check up. Common health problems were hypertension and oral health (27.6%). Most of them drank coffee (79.0%), alcohol (74.0%), used analgesic drugs (60.0%), and smoked cigarette (55.0%).

Adaptation showed a strongly relationship to sexual life, satisfaction, affection expression, responsibility, and sexual relationship ( $r = 0.52, 0.46, 0.52, 0.51, \text{ and } 0.31$  respectively). Stepwise multiple regression analysis reveal that five factors including interdependence, perception on menopause, self concept, physiologic mode, and educational level can predict 46.4 % of variance of sexual life. This study suggests that adaptation is an important factor among andropausal men to predict sexual life. The public health implication should be promoted adaptation among andropause and menopause clients to improve couple sexual life and family well being.

### OT19-2

#### Internet Addiction and Pathological Internet Use in Hong Kong: Prevalence and Correlates

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Objectives: To examine the prevalence and correlates of pathological internet use in Hong Kong.

Method: An anonymous, telephone survey was conducted on 1152 Chinese adults (15-54 years of age) in 2008 with a structured questionnaire to examine pathological internet use (PIU) and internet addiction (IA).

Results: The census age-standardized past-year prevalence of IA in Hong Kong was 1.9% among all males and 1.1% among all females and the prevalence showed the highest prevalence (6.6%) among 15-19 year olds and among the unemployed (9.4%). Pathological internet use was found in about 31% of males and 25% of all women. While normal users averaged 21 online hours/week, the weekly averages were 27.7 hours for low pathological users, 37.6 hours for high pathological users and 50.7 hours for internet addicts. A strong association was noted between level of internet pathology and the greater likelihood with most daily online activities but there was a negative association with using email and work-related use. Increasing maladaptive internet use was associated with various negative health effects such as greater likelihood of skipping meals and depression but not with greater likelihood of obesity or being underweight. Pathological users and internet addicts self-perceived their use to worsen their physical health, work productivity, and family relationships but were divided as to the effects on their social life and overall mental health.

Conclusions: Some subgroups of urban Chinese adults show a high prevalence of maladaptive patterns of internet use that negatively impinges on multiple domains of mental and physical health.

### OT19-3

#### Association Study of Serotonin Receptor and Transporter Polymorphisms with Tardive Dyskinesia in Chronic Schizophrenia

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Background and Objective: Tardive dyskinesia (TD) is highly prevalent among patients taking antipsychotics. Although the pathogenesis of TD is still not fully understood, studies have reported TD is associated with serotonin genes. This study is aimed at exploring the association between the serotonin gene polymorphisms