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#### **Prevalence and factors associated with geriatric syndrome in elderly in Community Medical Unit 4 of Buriram Hospital**

*Parisom Wongsakda, W Petchnarong, J Maithong, K Mungprayoon, S Innarong, N Thamklang, N Tassanawiwat, P Subhaluksuksakorn, P Sangkarit, N Namwichaisirikul, E Yodkhaw*

*Institute of Medicine, Suranaree University of Technology, Buriram Hospital, Thailand*

*Corresponding author: Miss Parisom Wongsakda, Suranaree University of Technology, Department of Medicine, Nakhonratchasima, Thailand. E-mail: kluay\_docdonkdank@hotmail.com*

Advances in medicines have resulted in falling trend in mortality among the elderly population resulting in a longer life expectancy in elderly in Thailand. This study aimed to study prevalence and the factors associated with Geriatric syndrome in mid and late-elderly. This cross sectional descriptive and analytic study is chosen in the research for assesses prevalence and the factors with effected on Geriatric syndrome. The study was done among 144 mid and late-elderly in area of Community Medical Unit 4 of Buriram Hospital responsibility between 18 January - 3 February 2016. The instruments were Barthel ADL index, MMSE-Thai 2002, urinary incontinence scale, ACR clinical criteria for OA knee, Thai-FRAT and TGDS. The result found that prevalence of Geriatric syndrome is 79.86% (female 59.72 %): Urinary incontinence 50%, Falls 42.36%, Osteoarthritis 31.29%, Depression 16.62% and Dementia 13.19%. The factors associated Geriatric syndrome that we found the statistic significant in multivariated analysis are female about 4.86 times (OR adj. 4.86, 95%CI 1.07-22.66), elderly with chronic disease about 4.27 times (OR adj. 4.27, 95% CI 1.49-12.21) and obesity about 4.19 times (OR adj. 4.19, 95% CI 1.02-17.07) in Urinary incontinence. Aged 90 and older about 13.15 times compared with aged 70-80 (OR adj. 13.15, 95% CI 1.32 -130.18), female about 4.14 (OR adj. 4.14, 95% CI 1.61-10.63) and non-exercise elderly about 2.91 (OR adj. 2.91, 95% CI 1.35-6.24) in Falls. Normal BMI about 4.29 times compared with overweight (OR adj. 4.29, 95% 1.07-17.26) in Depression. Aged 90 and older about 10.74 times (OR adj. 10.74, 95% CI 1.18-97.83) and Diabetes about 9.55 times (OR adj. 9.55, 95% CI 2.40-38.06) in Dementia. Therefore this result leads to develop holistic health care system for elderly in community.

**Key words:** Geriatric syndrome, Osteoarthritis, Dementia, Depression, Falls, Urinary incontinence