



## An Investigation of the Relevant Factors of Unplanned Readmission within 14 days of Discharge in a Regional Teaching Hospital in South Taiwan

**Xuan Hua Huang,**

*BSN RN, Department of Nursing, Yuan's General Hospital, Kaohsiung, Taiwan*

### Abstract:

.Unplanned readmission not only effects patient's condition but also increase healthcare utilization rate and healthcare costs. The purpose of this study was explore the effects of adult unplanned readmission within 14 days of discharge at a regional teaching hospital in South Taiwan. The retrospectively review design was used. A total 495 participants of unplanned readmissions and 878 of non-readmissions within 14 days recruited from a regional teaching hospitals in Southern Taiwan. The instruments used included the Charlson Comorbidity Index, and demographic characteristics, and disease-related variables. Statistical analyses were performed with SPSS version 22.0. The descriptive statistics were used (means, standard deviations, and percentage) and the inferential statistics were used T-test, Chi-square test and Logistic regression. The unplanned readmissions within 14 days rate was 36%. The majority were 268 males (54.1%), aged >65 were 318 (64.2%), and mean age was 68.8±14.65 years (23-98years). The mean score for the comorbidities was 3.77±2.73. The top three readmission diagnosed were digestive diseases (32.7%), respiratory diseases (15.2%), and genitourinary diseases (10.5%). There were significant relationships among the gender, age, marriage, comorbidity status, and discharge planning services (12: 3.816-16.474, p: 0.051~0.000). Logistic regression analysis showed that old age (OR = 1.012, 95% CI: 1.003, 1.021), had the multimorbidity (OR = 0.712~4.040, 95% CI: 0.559~8.522), had been consult with discharge planning services (OR = 1.696, 95% CI: 1.105, 2.061) have a higher risk of readmission. This study finds that multimorbidity were independent risk factor for unplanned readmissions at 14 days.



### Biography:

Xuan-Hua Huang has completed her college at Fooyin University, Taiwan. She is a registered nurse at Yuan's general hospital, a regional teaching hospital. She has published some papers in nursing journals and has been involved in case management research.

### Recent Publications:

1. Charlson M.E., Pompei P., Ales K.L., MacKenzie C.R.( 1987) A new method of classifying prognostic comorbidity in longitudinal studies:development and validation. *J Chron Dis.*40, 373-83.
2. Chiu, C. F., Chou, M. H., Chou, M. Y., Liang, C. K., Lin, M. L (2018) A case-control study of factors related to unplanned readmissions of elderly patient. *VGH Nursing.* 35(1), 21-32. doi:1.6142/VGHN.201803\_35(1).0003
3. Chiu, C. F., Lin, M. I., Lee, L., Jeang S. R., Ku, Y. C (2016) Factors related to the unplanned 90-day readmissions rate among elderly at geriatric medicine center. *The Journal of Nursing.* 63(5), 95-107. doi:10.6224/JN.63.

13th World Congress on Nursing and Health Care | March 16-17, 2020 | Berlin, Germany

Citation: Xuan Hua Huang, An Investigation of the Relevant Factors of Unplanned Readmission within 14 days of Discharge in a Regional Teaching Hospital in South Taiwan, *Nursing and Health Care* 2020, March 16-17, 2020, Berlin, Germany