

## The association between Charlson Comorbidity Index(CCI) and the burden of cancer

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This study compared the association of comorbidity related with health outcomes by considering the fatality of cancer. Lastly, it will examine how the association on health outcomes differs according to patterns of associated diseases by types of cancer and will analyze the correlation with health outcomes. This retrospective, non-controlled and non-randomized study was conducted with 287 breast cancer patients, 273 colon cancer patients, 614 stomach cancer patients and 391 lung cancer patients. Using claim data, I measured comorbidity index. I used EDI claim data for calculating medical cost. Multiple regression and logistic regression model were utilized to investigate the effect of comorbidity on health outcomes as a total medical cost. This study controlled demographic characteristics and stage of cancer to estimate the influence of CCI on health outcomes. All statistical analysis was performed with sas 9.1. The effect of CCI measured with the medical records on the medical costs is higher CCI increased the medical cost of stomach cancer patients 1.05 and the cost of colon cancer patients 1.01. The breast cancer patients with COPD paid more medical cost than those without it and the increasing rate got lesser when CCI increased. And the colon cancer patients with DM paid more medical cost when the CCI got 1 point. But the lung cancer patients with COPD and CCI 2 point paid less than other patients. There are some differences according to comorbid diseases due to the characteristics of each cancers. The chronic comorbid were major factor to increasing medical cost and using medical resources. To prevent above mentioned disease, we must focused to check metabolic syndromes then preserve insurance financial health.

### Biography

Eun-Jung Kim has completed her Ph.D at the age of 30 years from Korea University. She is the assist professor of Cheju Halla University. She has published more than 5 papers in reputed journals and serving as a member of repute.