Prognostic Role of Thyroid Transcription Factor-1 (TTF-1) in Advanced Adenocarcinoma of Lung

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**Background:** Thyroid transcription factor-1 (TTF-1) is mostly expressed in adenocarcinoma subtype of non-small cell lung cancer (NSCLC) and still remains unknown about the supported prognostic role for survival in advanced stage of lung cancer. The objective of this study was to determine the role of TTF-1 as a prognostic factor in advanced adenocarcinoma of lung.

**Method:** Retrospective cohort study in patient with inoperable or metastases lung cancer, adenocarcinoma type whose tumors already tested for TTF-1 in Rajavithi hospital for past 8 years. The correlation of TTF-1 to survival period and the treatment outcomes were defined.

**Results:** From December 2003 to November 2011, 67 cases were selected (TTF-1 positive 48 cases and TTF-1 negative 19 cases). Median overall survival for all population was 263 days (111-415 days). No statistically significant difference between TTF-1 positive negative tumors (251 and 369 days, respectively, p-value 0.8) was found. The systemic treatment was only good prognostic factor for survival of this study.

**Conclusion:** No prognostic implication of TTF-1 in advance adenocarcinoma subtype of NSCLC.