



## Expression of ERCC1, Bcl-2, MT and their Clinical Significance in Advanced Non-small-cell Lung Cancer Treated With Cisplatin-based Chemotherapy

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**SUMMARY.** The aim of this study was to determine the prognostic value of expression of Excision Repair Cross-complementation Group 1 (ERCC1), B cell lymphoma/leukemia-2 (Bcl-2) and metallothionein (MT) by immunohistochemically staining tumor specimens from 78 patients with advanced non-small-cell lung cancer (NSCLC) treated with cisplatin-based chemotherapy. The result showed that positive expression of ERCC1 was associated both with short survival (10.45 months vs. 14.38 months, log-rank  $p = 0.003$ ) and poor response to cisplatin-based chemotherapy ( $p = 0.003$ ) when compared with negative group. But expression of Bcl-2 and MT was not associated with response to chemotherapy and survival. Multivariate analysis confirmed that expression of ERCC1 was an independent variable related to overall survival ( $p = 0.013$ ). These data support the role of ERCC1 expression as a candidate predictor for the survival of patients with advanced NSCLC treated with cisplatin-based chemotherapy.

**KEY WORDS:** Bcl-2, Cisplatin, ERCC1, MT, NSCL, Resistance

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