学 位 論 文 の 要 旨

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主論文の題名

A simple risk stratification model for prostate cancer using histopathologic findings of radical prostatectomy

主論文の要旨

Objectives: To develop a simple postoperative risk stratification based on histopathologic findings from radical prostatectomy specimens.

Methods: This study included 3 cohorts of patients with a preoperative diagnosis of clinically localized prostate cancer. First, a risk stratification model was developed in the derivation cohort using the factors extraprostatic extension, surgical margin status, seminal vesicle invasion, and lymph node involvement. Each of the first 3 factors was assigned 0 or 1 point for negative or positive results, respectively, and the sum of the points, ranging from 0 to 3, was scored. pN1 was not scored but was analyzed separately. Additionally, we compared the model with the Cancer of the Prostate Risk Assessment (CAPRA) score.

Results: There were statistically significant differences in recurrence-free survival between any of 2 groups of 3-level risk stratification: low risk (score 0), intermediate risk (score 1-2), and high risk (score 3 or pN1). This model similarly worked in both validation cohorts. The C indexes for the model were higher than those for the CAPRA score.

Conclusions: This simple postoperative risk stratification model, based on radical prostatectomy findings, has a prognostic impact that has been validated in a multicenter population.