

Prognostic value of intraductal carcinoma for adjuvant radiotherapy candidates after radical prostatectomy

Sedat Karakoc¹, Serdar Çelik¹, Nilhan Akbulut¹, Ozan Bozkurt¹, Hulya Ellidokuz¹, Burçin Tuna¹, Kutsal Yörükoğlu¹, and Mehmet Uğur Mungan¹

¹Dokuz Eylül University

December 11, 2020

Abstract

ABSTRACT Objective: We aimed to investigate the prognostic significance of intraductal carcinoma in radical prostatectomy (RP) specimens and predictive value of IDC-P for biochemical recurrence and adjuvant therapy decision. **Method:** Patients who underwent RP between 2000-2014 with final pathological stage pT3a and negative surgical margins (Group 1, n=35) and pT2 with positive surgical margins (Group 2, n=32) were included. RP specimens were re-evaluated for the presence of IDC-P component and other prognostic factors. In both groups, prognostic factors were compared according to the presence of IDC-P and biochemical recurrence status. **Results:** In group 1, IDC-P was detected in 5 cases and biochemical recurrence was detected in 3 cases. Patients with IDC-P showed significantly higher biochemical recurrence than those without IDC-P ($p=0.002$). In univariate analysis, IDC-P was found to be significantly associated with worse progression free survival ($p<0.001$). In group 2, IDC-P was detected in 4 cases and biochemical recurrence was detected in 10 cases. Also, tumor volume was significantly higher in patients with IDC-P than those without IDC-P ($p=0.02$). IDC-P was also significantly associated with worse progression free survival in group 2 ($p=0.033$). **Conclusions:** In both groups, IDC-P is a prognostic factor for progression free survival and / or biochemical recurrence. Especially in these patients, presence of IDC-P might be helpful for postoperative adjuvant therapy management decision. **Keywords:** radical prostatectomy, intraductal carcinoma of prostate (IDC-P), prostate cancer, biochemical recurrence, progression free survival.

Hosted file

Manuscript.pdf available at <https://authorea.com/users/357657/articles/498239-prognostic-value-of-intraductal-carcinoma-for-adjuvant-radiotherapy-candidates-after-radical-prostatectomy>

Hosted file

Tables.pdf available at <https://authorea.com/users/357657/articles/498239-prognostic-value-of-intraductal-carcinoma-for-adjuvant-radiotherapy-candidates-after-radical-prostatectomy>

Hosted file

Figures.pdf available at <https://authorea.com/users/357657/articles/498239-prognostic-value-of-intraductal-carcinoma-for-adjuvant-radiotherapy-candidates-after-radical-prostatectomy>