

## ANALYSIS OF A SINGLE CENTER REPEAT BIOPSY COHORT

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### INTRODUCTION & OBJECTIVES

The aim of our study is to analyze transitional zone (Tz) lesions on mpMRI in a repeat prostate biopsy setting.

### METHODS AND MATERIALS

- 333 men undergoing transperineal repeat fusion biopsy in one single center in Italy were enrolled from 2016 to 2018.
- Demographic, clinical and histopathological data were recorded.
- Chi-square and logistic regression analysis were calculated to assess the risk of prostate cancer.
- High grade prostate cancer was defined as ISUP Grade Group  $\geq 3$ .
- Median age is 66(60/70) years, median PSA is 7.6(4.7/9.9) ng/ml and median prostate volume is 44(41/75) cc

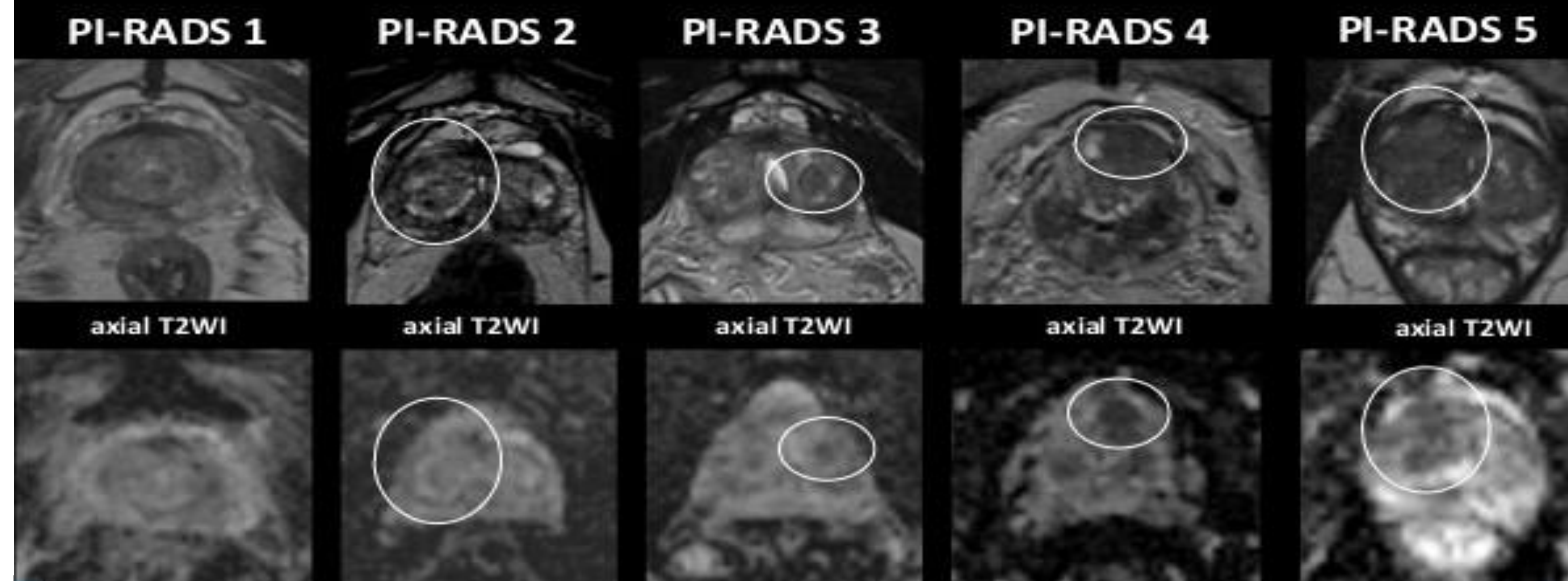
### RESULTS

319 lesions located in the transitional zone (tz) were analyzed: 3 PIRADS 1 (1%); 64 PIRADS 2 (20%), 147 PIRADS 3 (46%), 83 PIRADS 4 (26%) and 22 PIRADS 5 (7%).

Tz PIRADS 3 lesions presented cancer in 9%, only 2 (less than 1%) lesions were High Grade.

Tz PIRADS  $\geq 4$  lesions presented cancer in 61% of the cases, 27% High Grade.

### TRANSITION ZONE PI-RADS CLASSIFICATION



### CONCLUSIONS

Tz PIRADS 3 lesions have low risk of high-grade Pca (less than 1%), targeted biopsies on these lesions should be considered in selected patients.

Tz PIRADS  $\geq 4$  lesions have a considerable risk of cancer and high-grade cancer and should therefore be investigated.