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# ASSESSING THE VALUE OF mpMRI LESIONS IN THE TRANSITIONAL ZONE: ANALYSIS OF A SINGLE CENTER REPEAT BIOPSY COHORT

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## AIM & METHODS

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



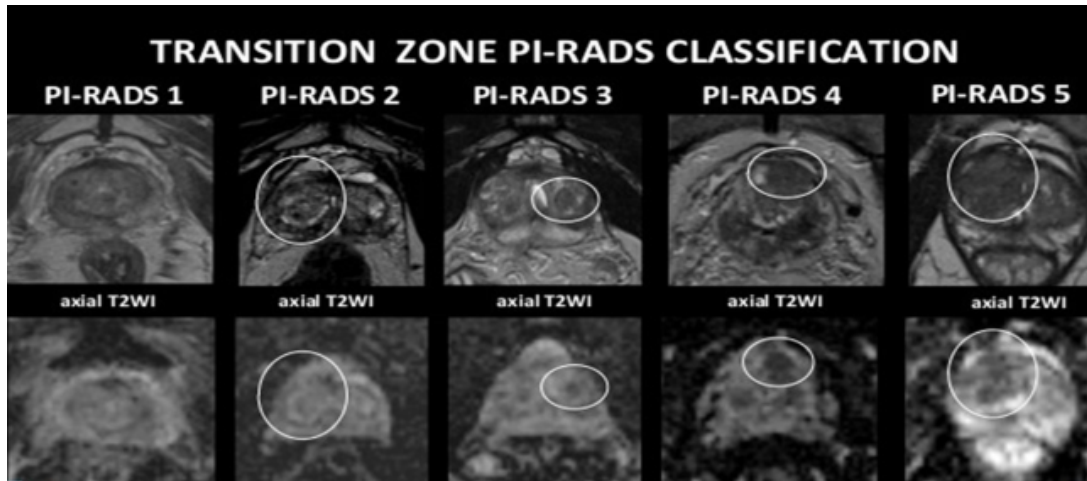
## RESULTS

- 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.





## CONCLUSIONS

- Tz PIRADS 3 lesions have low risk of high grade Pca (less than 1 %), target 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.