

Abstract no.: MP. 2-13



Systematic versus combined biopsy which is better for detecting prostate

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Objective:

To compare the detection effect of prostate cancer (PCa) and clinically significant PCa between systematic biopsy and combined biopsy (systematic biopsy plus MRI-targeted biopsy) in Asian men

Patients & Methods:

Design: Retrospective cohort

> Setting: QMH & TWH

Time: Jul 2015-Dec 2022

Final Sample size: 1,377

Exposure: Biopsy methods Outcome: Onset of PCa and clinically significant PCa (csPCa)

> Analytics: Logistic regression

Patients performed systematic biopsy or MRI-targeted biopsy between Jul 2015 and Dec 2022 (N=2,106)

- a) Missing data, incl. biopsy score, GS (n=518)
- b) Conflicting pathological biopsy result (n=39)
- c) Missing pathological biopsy results (n=158)
- d) Only receiving MRI-targeted biopsy (n=14)

Final Study population (n=1,377)

Excluded

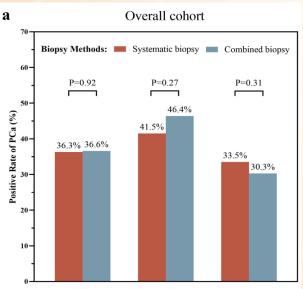
Grouping based on biopsy method

Systematic biopsy cohort (N=765)

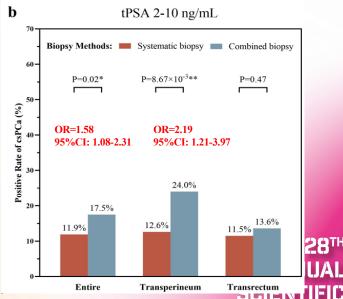
Systematic biopsy + MRItargeted biopsy cohort (N=612)

Results:

Not significant in detecing PCa



Significant in detecing csPCa



Entire Conclusion: Systematic biopsy combined with MRI-targeted biopsy may perform better in detecting aggressive prostate cancer