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The rate of PIRADS-3 is not a proxy of the quality of mp-MRI of the prostate: results of a single, high volume radiologist series

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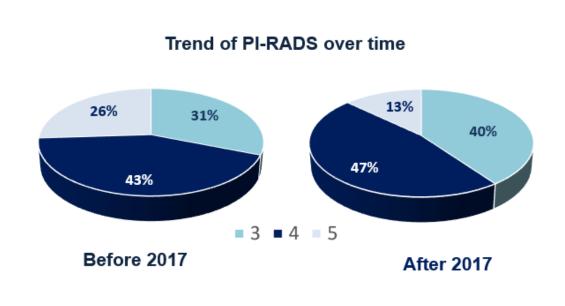


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Materials and Methods

Patients characteristics

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Variable	Overall (n=402)	
Age at biopsy Median (range)	65 (59-72)	
PSA Median (range)	6.4 (4.4-9.3)	
Prostate volume Median (range)	48 (35-68.8)	
N. target sample Median (range)	3 (3-4)	
N. random sample Median (range)	12 (10-12)	
Overall csPCa	197 (49)	
csPCa at TBx	178 (44.3)	
csPCa at SBx	158 (39.3)	



<u>AIM</u>: Our hypothesis is that radiologist experience is not necessarily associated with a decreasing rate of PI-RADS 3 over time. Rather, detection of clinically significant prostate cancer (csPCa) should be correlated with radiologist expertise



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Results

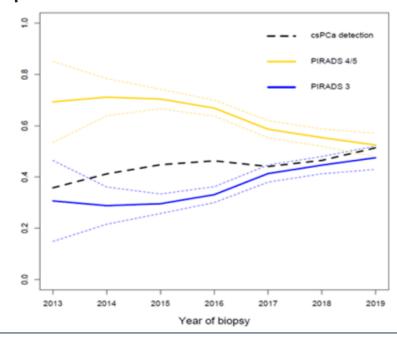
MVA predicting PI-RADS 3

Predictors	OR (95% CI)	p-value
Year of biopsy	1.22	0.04
PSA density	0.004	<0.001
Age	0.9	<0.001
Biopsy history		
Naïve	Ref	-
Repeat biopsy	0.9	0.7
Active surveillance	0.8	0.6

MVA predicting PI-RADS ≥ 4

Predictors	OR (95% CI)	p-value
Year of biopsy	0.8	0.04
PSA density	25	<0,001
Age	1.07	<0.001
Biopsy history		
Naïve	Ref	-
Repeat biopsy	1.13	0.7
Active surveillance	1.28	0.6

Proportion of PI-RADS and csPCa detection over time



The rate of PI-RADS 3 is not necessarily a proxy of radiologist expertise since it increased over time even in the hands of a single, highly experienced reader. Rather, the detection of csPCa over time should be considered as the main endpoint and a more accurate proxy of radiologist and urologist expertise