

Why Are We Still Talking About PSA Screening in 2019!?!

- PSA screening is one of the most controversial topics in the urological literature
- Conflicting results from prospective trials
- Conflicting interpretation of prospective trials
- Conflicting recommendations from scientific societies



Screening: EAU Position Paper

Structured Population-based Prostate-specific Antigen Screening for Prostate Cancer: The European Association of Urology Position in 2019

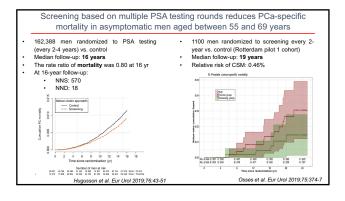
Giorgio Gandaglia¹, Peter Albers², Per-Anders Abrahamsson³, Alberto Briganti^{1,4}, James W.F. Catto⁵, Christopher R. Chapple⁶, Francesco Montorsi^{1,4}, Nicolas Mottel⁷, Monique J. Roobol⁸, Jens Sønksen⁹, Manfred Wirth¹⁰, Hendrik van Poppel⁷

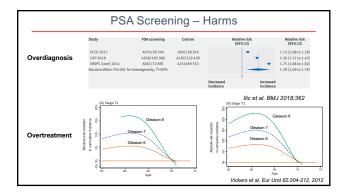
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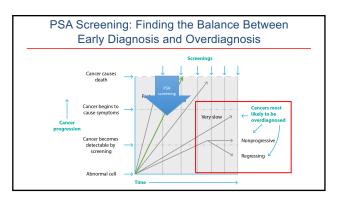
PSA Screening - Is There a Benefit?

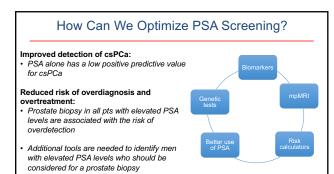
Study	Setting	Enrolment criteria	N. Of men (intervention/c ontrol)	Trigger for biopsy	Screening frequency
CAP	Cluster RCT	Men aged 50-69	195912/219445	PSA ≥3 ng/ml	One-time screening
ERSPC	RCT	Men aged 55-69	72891/89352	PSA ≥3 ng/ml	2-4 years
Labrie (Quebec)	RCT	Men aged 45-80	31133/15353	PSA ≥3 ng/ml	Annual screening
Lundgren (Stockholm)	RCT	Men aged 55-70	2400/25081	PSA >10 ng/ml	One-time screening
PLCO	RCT	Men aged 55-74	38340/38343	PSA ≥4 ng/ml	Annual screening

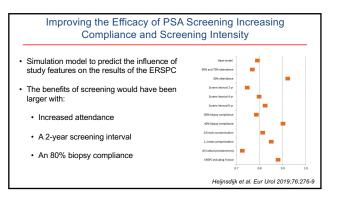
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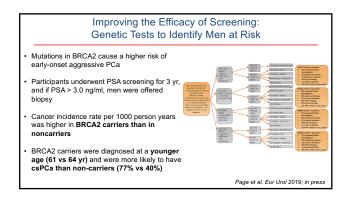


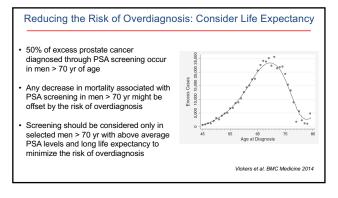


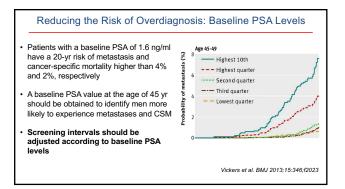


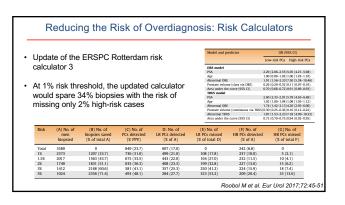






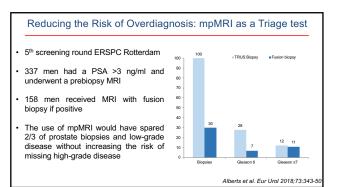


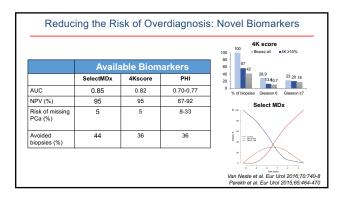




Reducing the Risk of Overdiagnosis: mpMRI as a Triage test							
	PROMIS	PRECISION	MRI-FIRST	4M			
N. Of biopsies	-27%	-28%	-21%	-49%			
Detection of clinically significant PCa	-1%	+12%	+2.4%	+2%			
Detection of clinically insignificant PCa	-5%	-13%	-16%	-11%			

 Multiparametric MRI can improve selection of men for prostate biopsy
The performance of mpMRI for PCa detection and risk estimation is improved by using it in men at risk of clinically significant disease before prostate biopsy





Structured Population-based Prostate-specific Antigen Screening for Prostate Cancer: The European Association of Urology Position in 2019 Individualized PSA screening 1. Obtain a baseline PSA at the age of 45 for risk stratification Baseline PSA values and risk calculators should guide the use of PSA-based screening to reduce overdiagnosis >≥1 ng/ml: PSA testing every 2—4 yr 2. Stop PSA testing in men with a life expectancy <10 yr (consider PSA testing only in selected men with above average PSA levels and long life expectancy) The role of multiparametric MRI mpMRI could reduce over-diagnosis without increasing the risk of missing high-grade disease and might be considered as a triage test in elevated PSA levels 3. In men at risk of significant PCa according to PSA levels consider the following tests to select biopsy candidates: Risk calc mpMRI Tests bas ad on hi rs and genetic poly Molecular biomarkers Molecular biomarkers might assist physicians in the identification of men with elevated PSA levels who should be considered for a prostate biopsy 4. Consider MRI targeted with concomitant systematic biopsy if the mpMRI is suggestive of PCa Gandaglia, Van Poppel et al. Eur Urol 2019;76:142-50