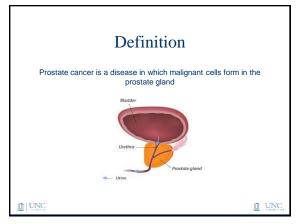
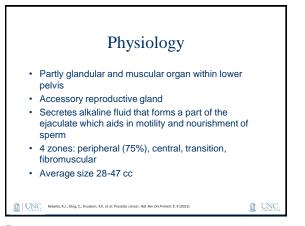


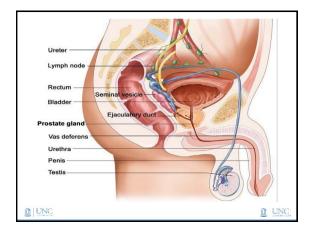
Part 1 Introduction to Prostate Cancer Pathophysiology, Epidemiology, Risk Factors, Screening, and Diagnosis

Objectives Discuss the pathophysiology of Prostate Cancer Discuss the epidemiology of Prostate Cancer Identify the pros & cons of prostate cancer screening. Define the diagnostic process of prostate cancer.

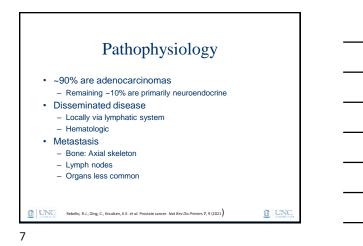


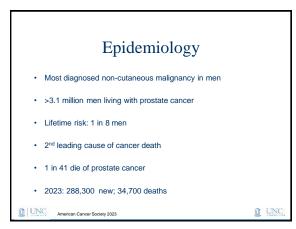




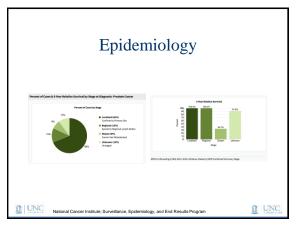








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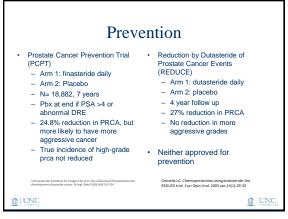


Relative Survival		
Star Plane 97.1%		
Based on data from SEER 22 (Excluding IL/MA) 2013–2019. Gray figures represent those who have died from p cance: Green figures represent those who have survived 5 years or more.	prostate	
Percent surviving 5 years: 97.1%		
UNC National Cancer Institute; Surveillance, Epidemiology, and End Results Program). L	UNC

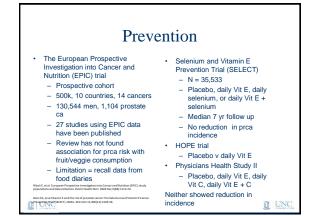
Risk Factors • Age Family History • 60% dx at \geq 65 years old Men with a 1st degree relative dx with prostate CA Race - AA men highest incidence & have a twofold risk mortality - Familial Prostate Cancer - Complex socioeconomic (FPC) Clustering within families disparities · Access, quality of care, comorbidities, health insurance, income • 10-20% have family hx Hereditary Prostate Cancer (HPC) · Less screening More aggressive stage · FPC subtype · Less likely to receive aggressive tx 1 UNC

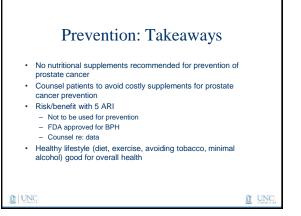
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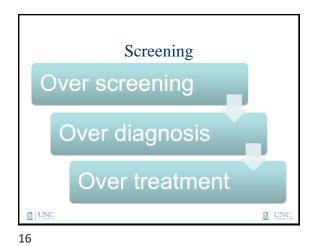




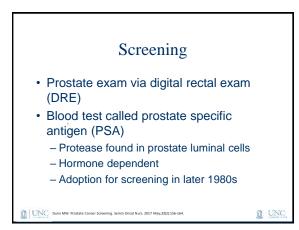






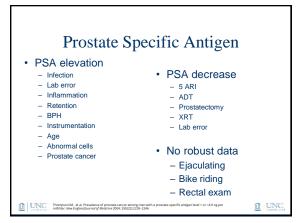




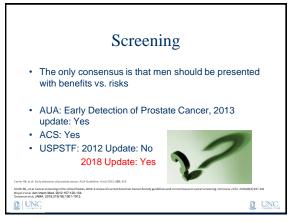


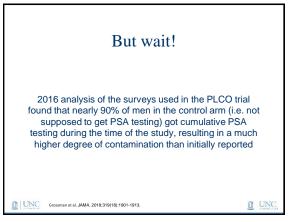
17

Age	Caucasian	African- American	Asian-American
40-49	0-2.5	0-2.0	0-2.0
50-59	0-3.5	0-4.0	0-3.0
60-69	0-4.5	0-4.5	0-4.0
70-79	0-6.5	0-5.5	0-5.0









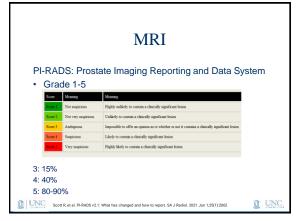
U	pdated USPSTF recs	
Recommendation Si	•	
Population	Recommendation	Grade (What's This?)
Men aged 55 to 69 years	For mer aged 55 ki8 jest, the decision to undergo parketic proteids specific analogies (2014)-Assess towards the proteids across that is an individual one. Before decision to parket and the parket across the parket approximative parkets the parket and the parket across the parket before the parket and the parket and the parket across the parket proteins across the parket and the parket and the parket across the proteins across the parket and the parket across the parket proteins across the parket and the parket across the parket the parket across the parket and the parket across the parket the parket across the parket and the parket across the parket the parket across the parket and the parket across the parket the parket across the parket across the parket across the parket the parket across	C
Men 70 years and older	The USPSTF recommends against PSA-based screening for prostate cancer in men 70 years and older.	D

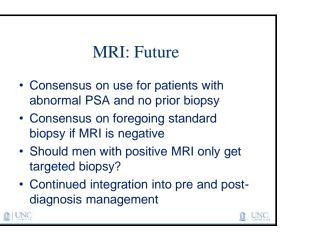


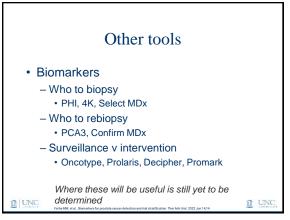


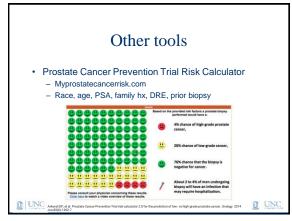


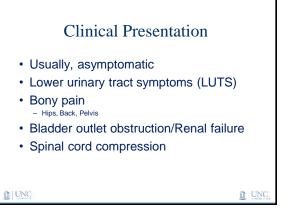
MRI: PRECISION	-
 MRI (with or without targeted bx) or standard TRUS bx suspicion of prostate cancer N = 500 (had not undergone previous bx) In MRI group, 28% had neg MRI so did not have bx In MRI group, clinically significant cancer dx in 38% In TRUS bx group, clinically significant cancer dx in 26% The use of risk assessment w/ MRI before bx and MRI-superior to TRUS bx in men at clinical risk for prostate of the second sec	%
UNC Kask/isvanathan, V et al, NEJM 2018	M UNC.

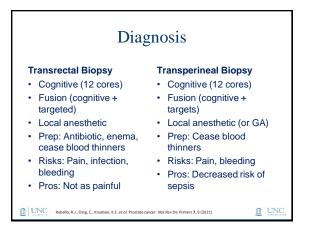




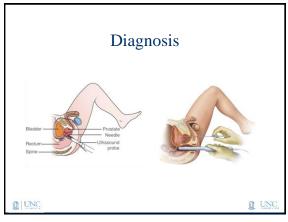




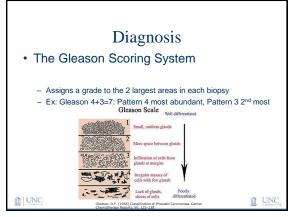




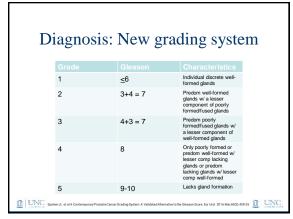




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Gro	ip T	N	М	PSA	Gleason		
1	T1a-c	N0	M0	PSA <10	Gleason <6		
	T2a	N0	M0	PSA <10	Gleason < 6		
	T1-2a	N0	MO	PSA X	Gleason X		
IIA	T1a-c	NO	MO	PSA <20	Gleason 7		
	T1a-c	N0	M0	PSA >10<20	Gleason < 6		
	T2a	N0	M0	PSA>10<20	Gleason < 6		
	T2a	N0	M0	PSA <20	Gleason 7		
	T2b	N0	M0	PSA <20	Gleason < 7		
	T2b	N0	MO	PSA X	Gleason X		
11B	T2c	N0	M0	Any PSA	Any Gleason		
	T1-2	NO	MO	$PSA \ge 20$	Any Gleason		
	T1-2	N0	MO	Any PSA	Gleason ≥ 8		
ш	T3a-b	N0	M0	Any PSA	Any Gleason		
IV	T4	N0	M0	Any PSA	Any Gleason		
	Any	NI	M0	Any PSA	Any Gleason		
	Any	An	M1	Any PSA	Any Gleason		
	Т	y N					
			•				

	INITIAL RISK	STRATIFICA	TION AND STAGING	WORKUP FOR CLINICALLY LOCALIZED DISEASE®			
Risk Group		cal/Pathologic I See Staging (S		Additional Evaluation ^{h,i}	Initial Therapy		
Very low ^f	Has all of the following • cT1c • Grade Group 1 • PSA <10 ng/mL • Fewer than 3 prostat cancer in each frage • PSA density <0.15 m	e biopsy fragme	nts/cores positive, \$50%	Confirmatory testing can be used to assess the appropriateness of active surveillance (See <u>PROS-F.2 of 5</u>)	See PROS-3 See PROS-4		
Low	Has all of the following • cT1-cT2a • Grade Group 1 • PSA <10 ng/mL	g but does not qu	alify for very low risk:	Confirmatory testing can be used to assess the appropriateness of active surveillance (See PROS-F.2 of 5)			
	Has all of the following: • No high-risk group features • No very-high-risk group features	Favorable intermediate Has all of the following: + 1 IRF • Grade Group 1 or 2 • <50% biopsy cores postwo (eg. <6 of 12 cores) ⁸		Confirmatory testing can be used to assess the appropriateness of active surveillance (See <u>PROS-F 2 of 5</u>)	See PROS-5		
	Has one or more intermediate risk factors (IRFs): CT2b-CT2c Grade Group 2 or 3 PSA 10-20 ng/mL	Unfavorable intermediate	Has one or more of the following: • 2 or 3 IRFs • Grade Group 3 • > 50% biopsy cores positive (eg, > 6 of 12 cores) ⁸	Bone and soft tissue imaging ^{1,4} • If regional or distant metastases are found, see <u>PROS-8</u> or <u>PROS-12</u>	See PROS-6		
High	Has no very-high-risk feature: • cT3a OR • Grade Group 4 or Gr • PSA >20 ng/mL		, 11 S	xactly one high-risk Bone and soft tissue imaging ^{1k} • If regional or distant metastases are found, <u>see PROS-8 or</u> <u>PROS-12</u>			
Very high	Has at least one of the following: • cT3b-cT4			Bone and soft tissue imaging ^{1,k} If regional or distant metastases are found, <u>see PROS-8 or</u> <u>PROS-12</u>	See PROS-7		

Part 1 Takeaways

- Prostate cancer is very common
- Black men and men with a family history have higher risk
- · No one way to prevent prostate cancer
- Screening involves shared decision making
- More precise tools are needed for screening
- After diagnosis, several factors help determine staging, which will then guide treatment recommendations
- · Patient education along the way is essential

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