

Hanna Hunter MD

 Assistant Professor in the Department of Rehabilitation Medicine, University of Washington
 Medical Director Cancer Rehabilitation, Fred Hutchinson Cancer Center

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David Sheppard PhD

- Neuropsychologist
- Assistant Professor in the Department of Rehabilitation Medicine
- University of Washington
- Fred Hutchinson Cancer Center

#BCANTT23

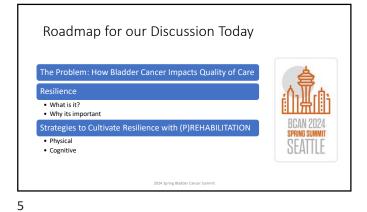
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Sarah P. Psutka MD MS

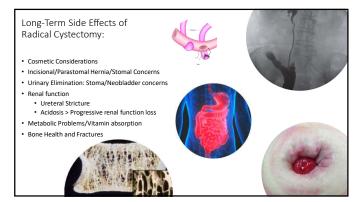
- Associate Professor of Urology
- Uro-Oncologist
- University of Washington Department of Urology Fred Hutchinson Cancer Center

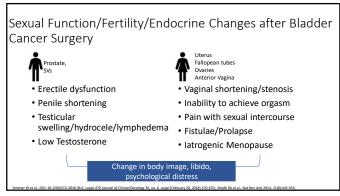
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Long-term Side Effects of Therapy for NMIBC Image: State Stat





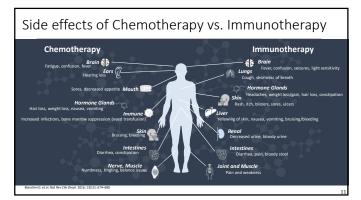
Sexual Dysfunction beyond Erectile Dysfunction after Bladder Cancer Surgery in Men and Women

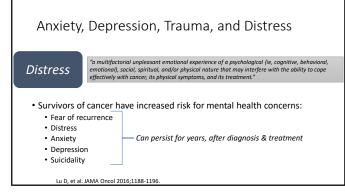
- Contributing factors:
 Relationship Status/Sexual intimacy
 - Depression
 - AnxietyGrief

 - Mourning
 - Partner Sexual Dysfunction Comorbidities



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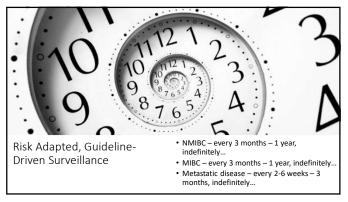




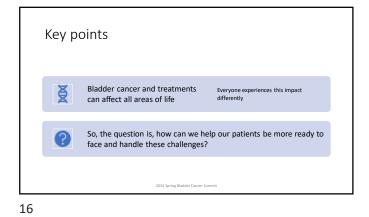
How Anxiety and **Distress Manifest** during Survivorship

Fear of recurrence surveillance appointments Increased anxiety with physical symptoms

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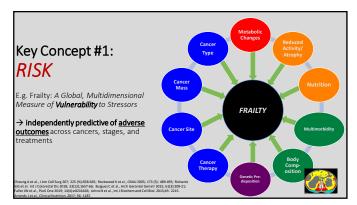






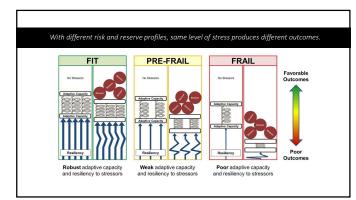




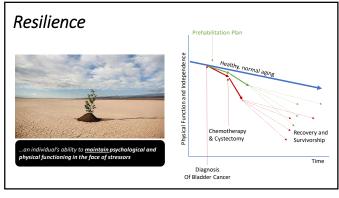




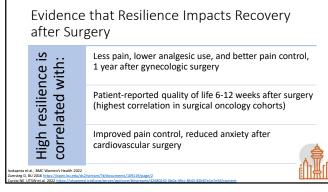
mplications of Frailty for Patients with Bladder Cancer	 Decreased ability to tolerate chemotherapy, immunotherapy, surgery, anesthesia Decreased Life Expectancy Poor Functional Status Increased Symptom Burden Decreased Quality of Life Loss of Independence Decreased sense of Dignity/Well-being
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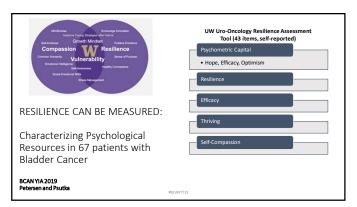


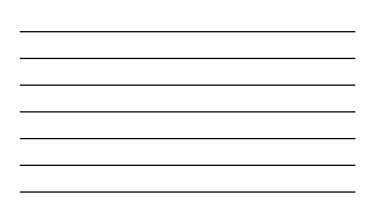






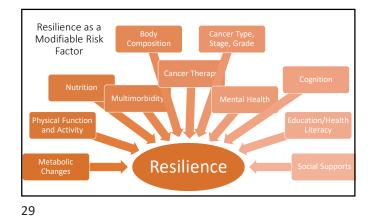






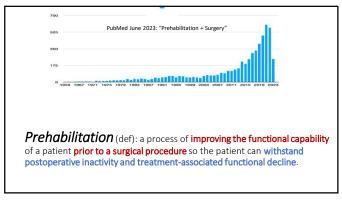
Pilot Data:			Psychological Resources						
			Psychological Capital		Resilience	Self-Compassion			
		Sex	0.06	-0.03	0.06	-0.01			
Characterizing Psychological		Age	0.03	0.11	0.02	0.04			
	Psychological Resources	Psychological Capital	1	0.77	0.72	0.52			
		Thriving	0.77		0.81	0.68			
, 0		Resilience	0.72	0.81	1	0.64			
Resources in 67		Self-Compassion	0.52	0.68	0.64	1			
11000 41 000 111 07		Clinical Frailty Scale	-0.2	-0.14	-0.1	-0.21			
patients with		Grip (R)	0.14	0.1	0.18	-0.05			
	Functional Frailty Assessments		0.13	0.06					
Bladder Cancer		Timed Up and Go	-0.07	-0.17	-0.17	-0.37			
Bladder Galleer		Katz ADLs	0.08	0.17	0.19				
	Multimorbidity	CIRS-G	-0.04	0.13	0.03	0.08			
	-	CCI Geriatric Depression Scale	-0.08	-0.12	-0.06	-0.01			
BCAN YIA 2019	Mental Health/Cognition	Geriatric Depression Scale Mini-Mental	-0.5			-0.56			
Petersen and Psutka	_	Mini-Mental Mini-Nutritional	-0.09	-0.16	-0.11	0.01			
	Nutrition	Mini-Nutritional Albumin	-0.1						
		Albumin Sarcopenia	-0.01	-0.02	0.06	-0.07			
Summary of correlations between psychological resources and frailty domains									
Blue: positive associations, Red: negative associations, Bold: indicates significant associations									
bite, positive associations, iced, negative associations, both, indicates significant associations									
Associations between Resilience, Mental Health, and									
									Measures of Strength and Physical Performance

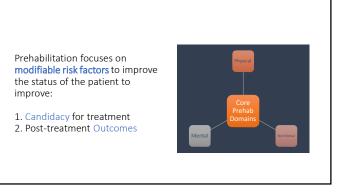












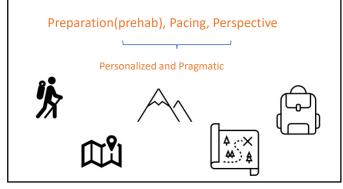


Resilience:

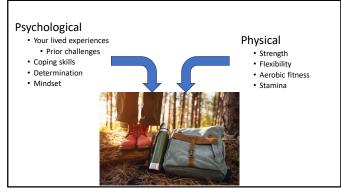
The ability of an elastic material (such as rubber) to absorb energy (such as from a blow) and release that energy as it springs back to its original shape



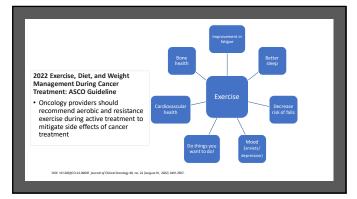
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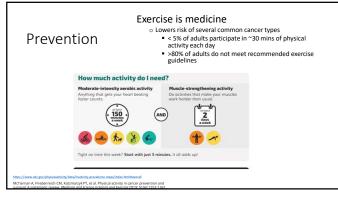




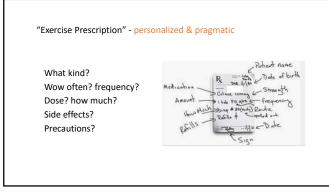








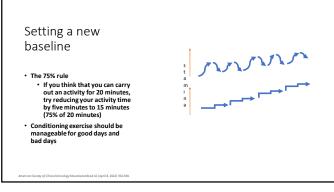








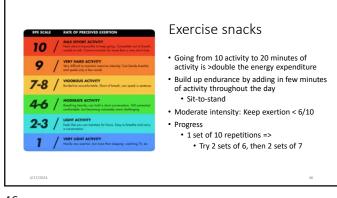




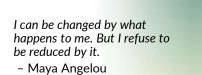








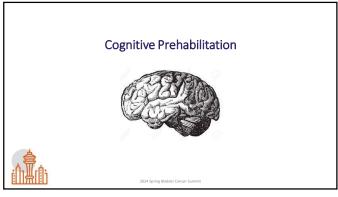


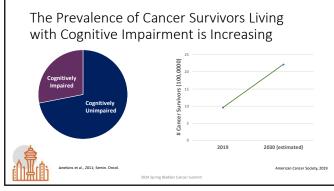




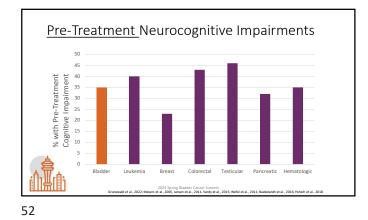






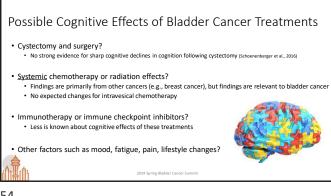


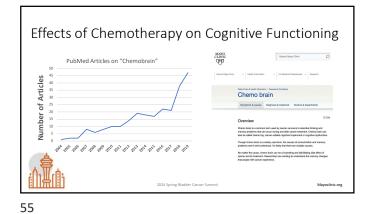




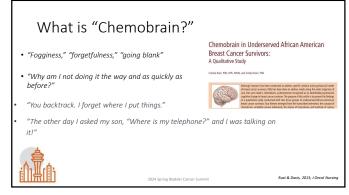


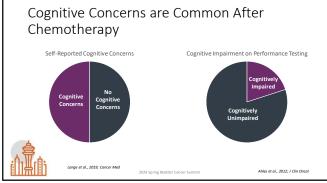




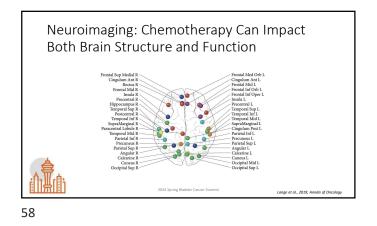




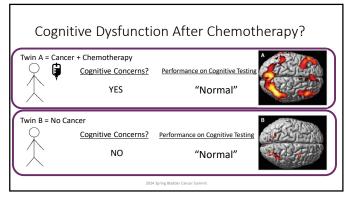


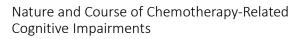










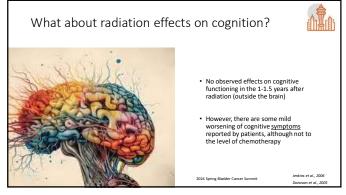


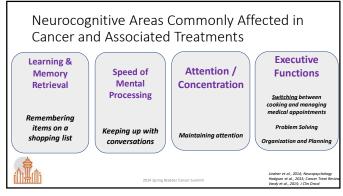
 Generally <u>mild</u> cognitive weaknesses

Can affect everyday functioning (work, education, etc.)

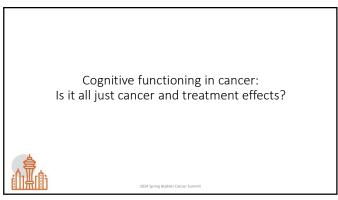
 Usually resolve within 1 year
 For some cancer survivors, mild cognitive changes may persist for years (or possibly decades)

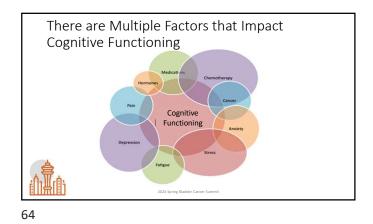


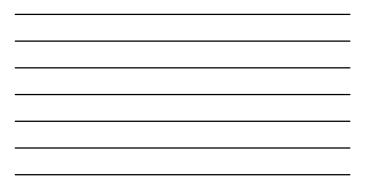








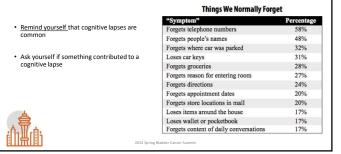




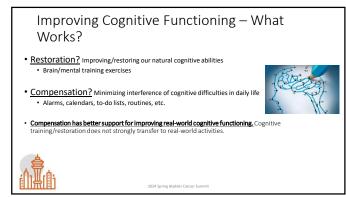




Some Cognitive Lapses are Normal



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- Compensation strategies (e.g., written lists, alarm reminders, pillboxes) can be implemented prior to any cognitive changes
- Everyone (patients, family, care partners) can use compensatory cognitive strategies!





External Compensatory Strategies

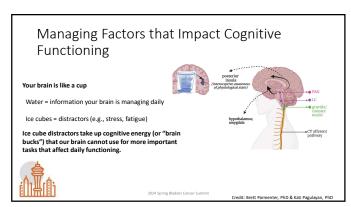
- Use alarms or electronic calendar to cue memory
- Central hub / memory station for essential items (keys, phone)
- Pillbox for organizing medications



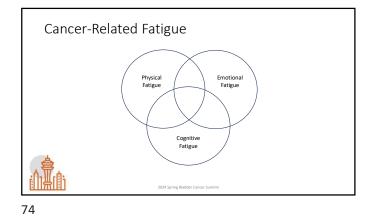
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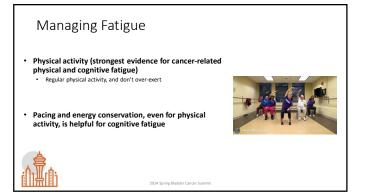
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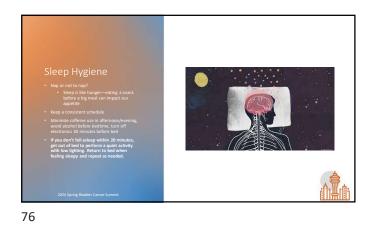
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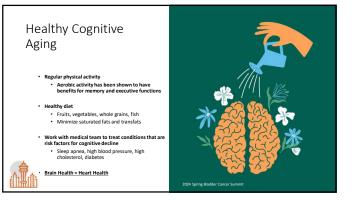


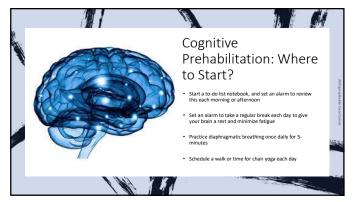
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Sneak Peak: Next Steps re: Prehab @FHCC

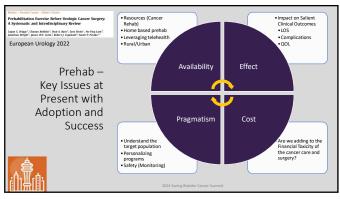


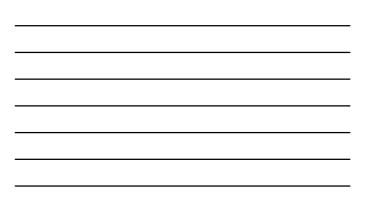
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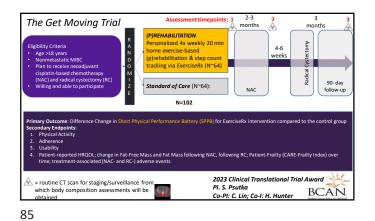
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Making home-based exercise accessible with digital health solutions

- Smartphone-based sonar sensing technology and proprietary software.
- Leverages the Doppler effect
- iPhone & Android
- Detects, classifies, and counts exercises
- Accessible to diverse and mobility impaired
 populations for home exercise & rehabilitation

Slide courtesy of Dr. Cindy Lin





Conclusions: Prehabilitation as a Tool to Cultivate Resilience ✓ Requires detailed personalized risk and resilience assessment The Prehabilitation \checkmark Identify the areas that put an individual at risk ✓ Offers substantial potential benefits for Preparation Pacing patients ✓ Goals: To Optimize • Perspective ✓ Physical Function and Independence
 ✓ Cognitive Function • Pragmatic • Personalized ✓ Manage Anxiety, Stress (Distress), Fatigue





