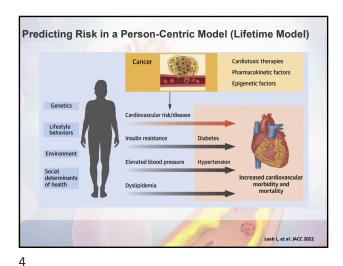
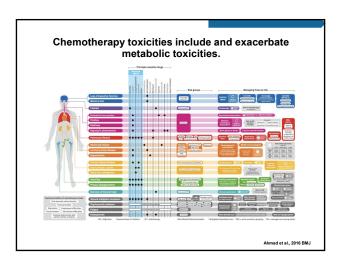


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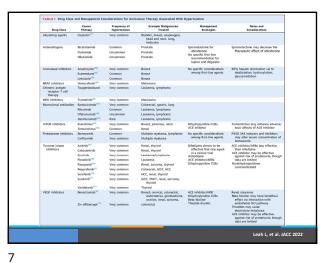




Background #At the time of diagnosis, many cancer survivors have pre-existing comorbidities (e.g HTN, HLD, and DM) that increase their risk of both cancer and non-cancer-related morbidity and mortality #Many cancers have shared risk factors (e.g obesity and sedentary lifestyles) with CVD. Many individuals will survive their cancer only to have a preventable #Management of cardiometabolic comorbidities associated with CVD is essential during and after cancer therapy.



5 6



Pre-existing conditions at diagnosis in combination with treatment promote <u>metabolic toxicity</u> in cancer survivors. Multiple-Hit Hypothesis Poor brain health Immune impairments Blood disorders Cardiovascular events Respiratory problems Weakened bones Muscle breakdown

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Metabolic toxicities may develop into metabolic syndrome (MSY) and lead to the onset of severe comorbidities. 9

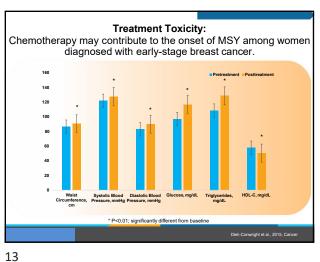
Metabolic syndrome (MSY) is associated with a 2-fold increase in CVD and Type 2 Diabetes. Blood Pressure
≥ 130/85 or medication **HDL** < 40 mg/dL (men) < 50 mg/dL (women) Waist Circumference Glucose ≥ 100 mg/dL o Triglycerides
≥ 150 mg/dL or med

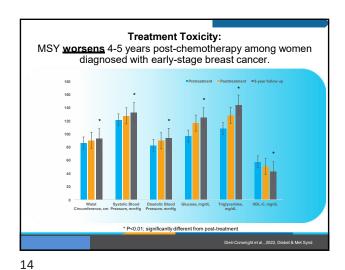
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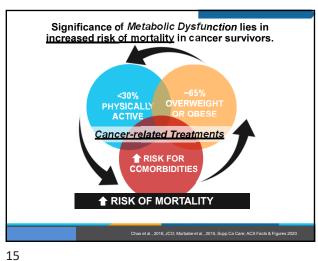
MSY is linked to poor cancer outcomes.

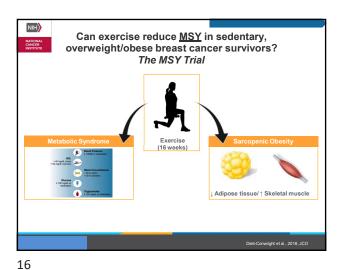
Treatment Toxicity: Chemotherapy may contribute to the onset of MSY among women diagnosed with early-stage breast cancer.

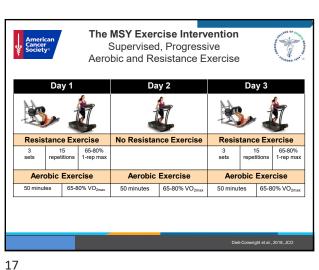
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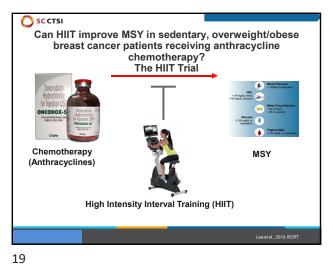


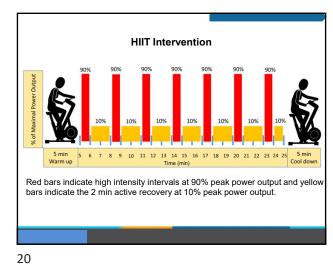


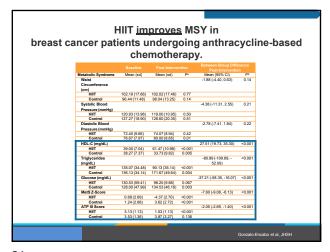


Exercise improves MSY in sedentary, overweight/obese breast cancer survivors. Data presented as mean±SD. *Significantly different from baseline and UC group post-intervention, p<0.05;
**Significantly different from baseline, p<0.05.

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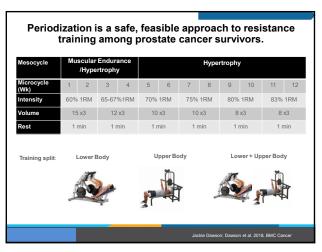






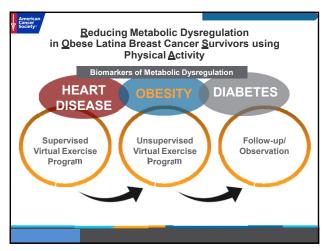
Does a 12-week periodized resistance training intervention affect health outcomes in prostate cancer survivors on ADT? • 3x/week Progressed through periodization • 45 min/session; 3 months · Machine-based, total body exercises

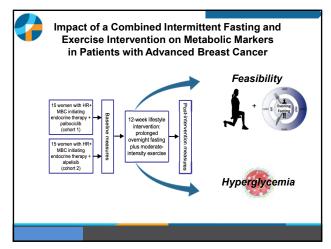
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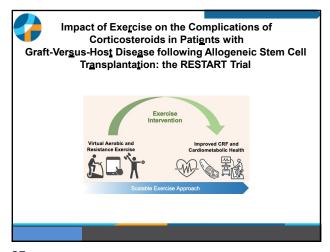
Periodized Resistance Exercise Improves Waist Circumference and Triglycerides in Prostate Cancer Survivors on ADT therapy 0 3 80 MSY (n=13) No RT (n=19)

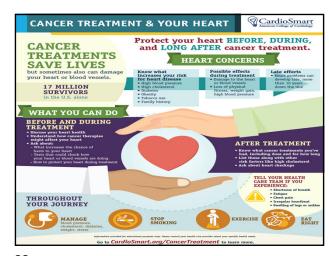
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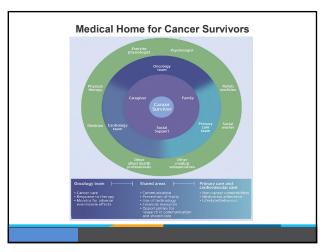


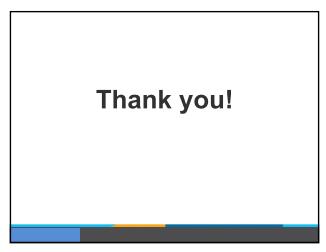
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