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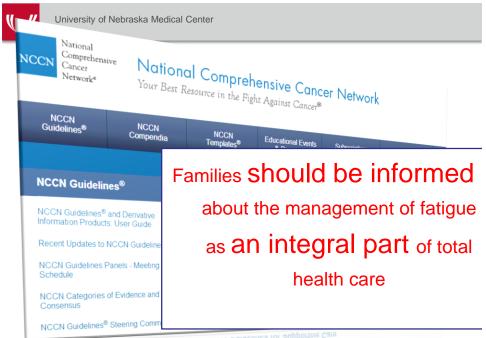
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Evidence for the Use of Exercise in Patients with Breast Cancer to Reduce Cancer-Treatment Related Fatigue

**Combined Sections Meeting 2014** 

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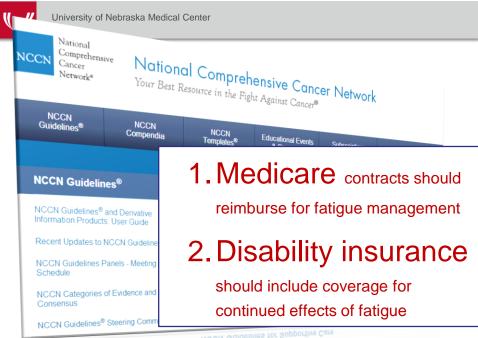




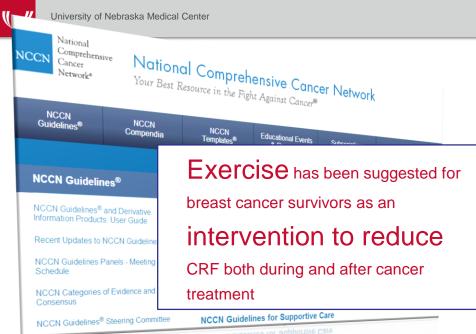
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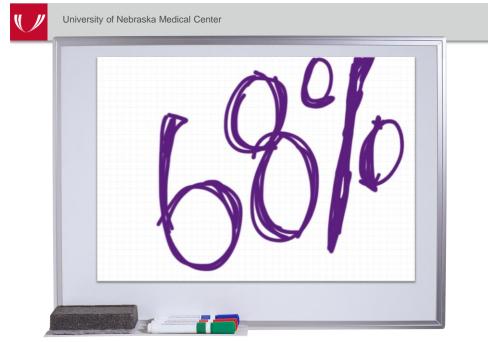
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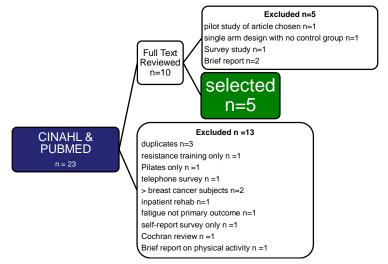


Blaney JM, Lowe-Strong A, Rankin-Watt J, Campbell A, Gracey JH. Cancer survivors' exercise barriers, facilitators and preferences in the context of fatigue, quality of life and physical activity participation: a questionnaire-survey. *Psycho-oncology*. 2013;22:186-194.





#### **Methods for Study Selection**





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### Study Subjects

#### Stage I-III

< 2 years from completion of treatment

Exclusion for mental illness, CI to exercise, previously engaged in exercise or recurrent disease



## Results

4/5 studies showed an improvement in fatigue

3 different outcome tools used to measure fatigue (Piper Fatigue Survey, FACT-F, Schwartz Cancer Fatigue Scale)

Length and mode of exercise intervention & follow-up varied among each study



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Payne J, Held J, Thorpe J, Shaw H. Effect of exercise on biomarkers, fatigue, sleep disturbances, and depressive symptoms in older women with breast cancer receiving hormonal therapy. *Oncology Nursing Forum.* 2008;35:635-642.





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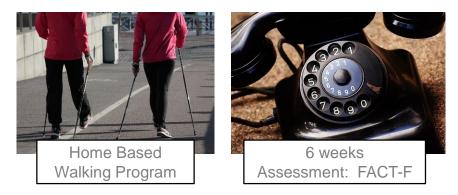
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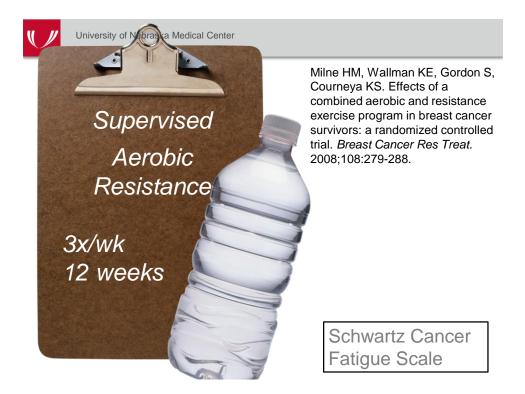




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Wang YJ, Boehmke M, Wu YW, Dickerson SS, Fisher N. Effects of a 6-week walking program on Taiwanese women newly diagnosed with early-stage breast cancer. *Cancer Nursing.* 2011;34:E1-13.







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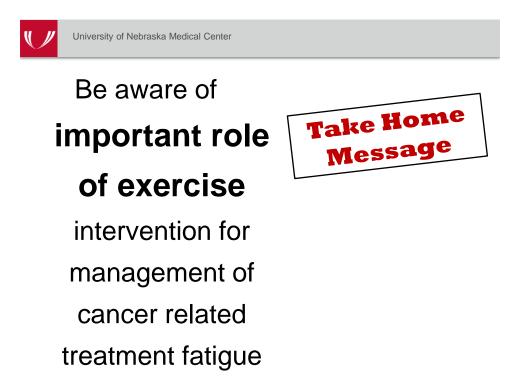
Cantarero-Villanueva I, Fernandez-Lao C, Cuesta-Vargas AI, Del Moral-Avila R, Fernandez-de-Las-Penas C, Arroyo-Morales M. The effectiveness of a deep water aquatic exercise program in cancer-related fatigue in breast cancer survivors: a randomized controlled trial. *Arch Phys Med Rehab.* 2013;94:221-230.





#### **Study Limitations**







Additional research to clarify optimal dosage & compare outcomes of total daily physical activity vs. formal exercise





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Evidence supports the value of exercise for individuals with cancer - related fatigue and the active role PTs can play to initiate exercise programs.





