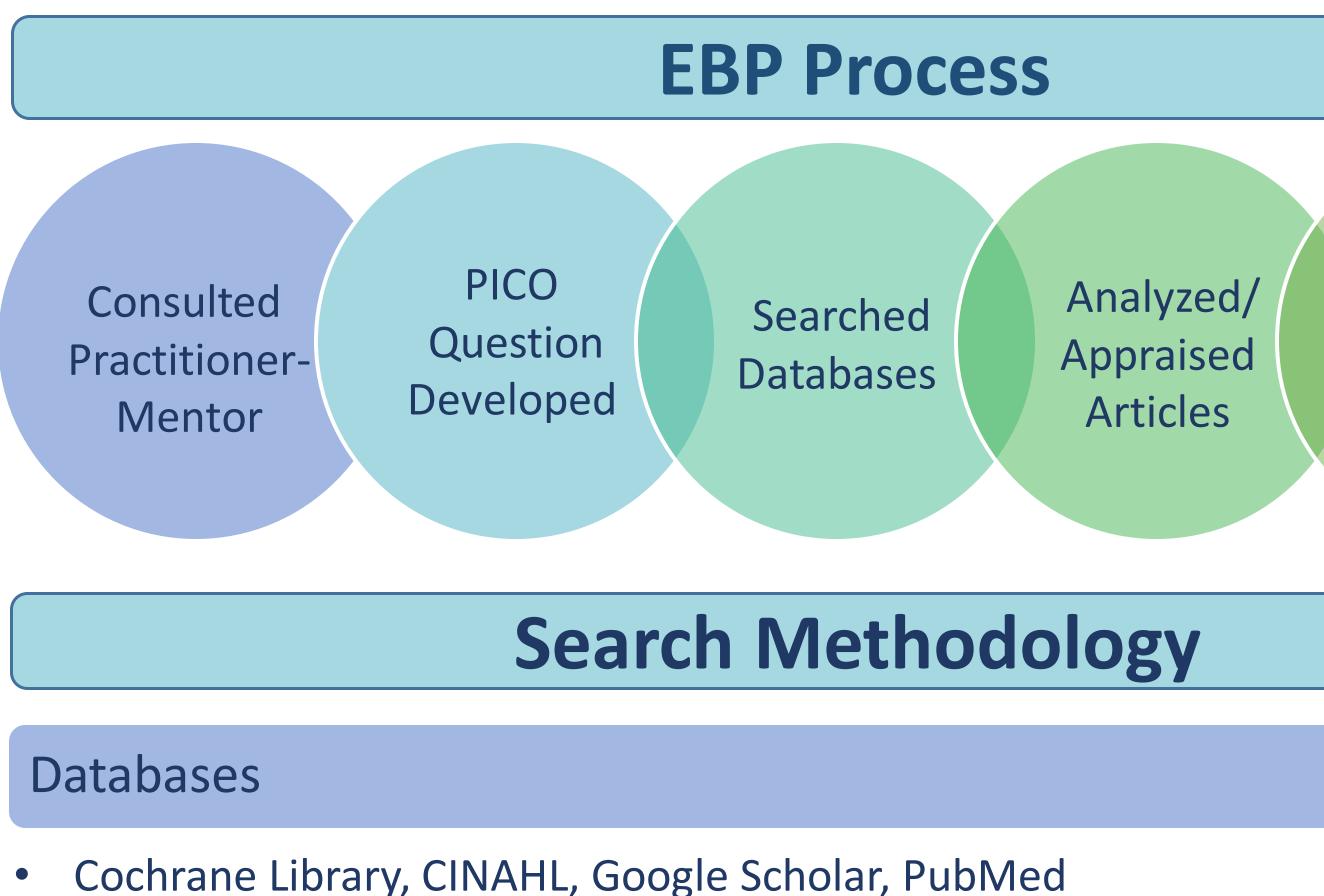


PICO Question

What are the most effective intervention increasing strength and endurance in client leukemia experiencing functional declin

Background and Rationale

- Leukemia: cancer of the blood cells.
- The incidence of individuals who are living with and recover leukemia is high.
- Leukemia patients experience severe functional decline th with everyday activities.
- Leukemia patients also experience impaired strength and or which has an impact on everyday tasks.



Search Terms

Leukemia patient, cancer intervention/treatment, strength /endu

Inclusion Criteria

- Blood cancer patients, adults; Published within last 10 years, Engl **Exclusion Criteria**
- Comorbidities **RESEARCH POSTER PRESENTATION DESIGN © 2019** www.PosterPresentations.com

Effectiveness of Aerobic Exercise for Adults with Leukemia Jalin Davis, MOT/S, Summer Hood, MOT/S, Alex Miller, MOT/S, Sam Stein, MOT/S, Kaylee Stem, MOT/S Faculty Advisor: Anita Witt Mitchell, PhD, OTR, FAOTA; Community Practitioner: Holly Greer, OTR/L The University of Tennessee Health Science Center Department of Occupational Therapy

Main Findings

for	Levels	Evidence	Intownotion	Doculto				
with	Level 1	Bergenthal et al. (2014) Quality Score: 94%		Results ++: Decrease in depression and fatigue	Limitations	 Small samples Intensity and durati Inability to blind particular 		
g from nterferes		Baumann et al. (2011)	blood cancerL)Moderate exercise program (aerobic endurance training and ADL training) versus standard care (gymnastics, massages, and stretching) in that facility12-week exercise rehabilitation vs. a delayed 12-weeks of usual-care	<pre>endurance + : Strength ++ : Reductions in</pre>	Bottom Line	 Moderate strength and quality of evidence Aerobic exercise may benefit individuals with blood cancers. Aerobic exercise may improve emotional function. 		uals with
endurance Peer & Faculty Reviewed	Level 2	Quality Score: 62% Furzer et al. (2016)			Recommendations	 Aerobic exercise More research with Cost-effective adaption available. 		ons are
		Quality Score: 68%			Activity Tracking Chart Example Aerobic Exercise: Treadmill			
		Wehrle et al. (2018) Quality Score: 78%	exercise	<pre>++: Muscular strength capacity ++: Emotional function</pre>	 Date Duration Distance Client reported strength & endurance Therapist's rated strength & endurance 		5/1 25 min 1 miles 7 7	5/2 30 min 1 mile 8 6
e, ADLs	Level 3	Kenji (2016) Quality Score: 56%	versus aerobic exercise	 + : Strength + : Endurance ++ : Psychosocial function 	Key: Low 1 2 3 4 5 (Moderate) 6 7 8 9 References	10 High	Hando	ut
	++ = Positiv results	e statistically significant + =	Positive results ? = Inconclusive res					

Limitations and Conclusions

tions	 Small samples Intensity and duration differences Inability to blind participants 	
Line	 Moderate strength and quality of evidence Aerobic exercise may benefit individuals with blood cancers. Aerobic exercise may improve emotional function. 	
ndations	 Aerobic exercise More research with larger samples Cost-effective adaption of interventions are available. 	
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Activity Tracking Graph Example

