

yoga4cancer

Preliminary Evaluation of a Hospital-Based Pilot and Feasibility Study

yoga y4C cancer

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BACKGROUND & PURPOSE

The benefits of yoga in improving cancer treatment and survivorship have been investigated in numerous condition with a variety of yoga traditions. Within the HealthCare Cancer Institute, Hartford Hospital, yoga has been offered to cancer patients by numerous practitioners, with different training and expertise. Often this results in difficulty for patients, families and clinicians in selecting an optimal yoga referral and treatment. Integrative Medicine partnered with yoga4cancer - "Y4C" creator Tari Prinster to evaluate establishing Y4C as the "gold standard" program for our cancer community. Therefore our purpose was to assess the feasibility of:

- 1) Training high quality yoga providers in the Y4C method;
- 2) Developing an IRB approved protocol with QOL and Y4C outcomes;
- 3) Recruiting cancer patients into the hospital-based Y4C program.

METHODS & DESIGN

Y4C trained yoga practitioners completed all CITI training. Y4C class protocol delineates yoga frequency (1 class weekly), interval (60 min structured class) and duration (1 class/wk x 8 weeks with follow-up

METHODS & DESIGN FIGURE 1. Y4C Functional Yoga Posture Assessments





A. Warm up Vinyasa Seated





B. Getting to Hands and Knees



RESULTS

FIGURE 2. Y4C Cohort Demographics and Assessments (Week 1-4)

A. Y4C Cohort Participant Demographics

Subject Characteristics			Top Cancer Diagnosi	s		
Female	84%	(n = 42)	Breast	72%	(n = 36)	
Male	16%	(n = 8)	Prostate	10%	(n = 5)	
			Ovarian	4%	(n = 2)	
Race			Lung	4%	(n = 2)	
Caucasion	72%	(n = 36)	Liver	2%	(n = 1)	
African America	12%	(n = 6)	Rectal	2%	(n = 1)	
Asian	10%	(n = 5)	Skin	2%	(n = 1)	
Other	6%	(n = 3)	Leiomyosarcoma	2%	(n = 1)	
Age	61 <u>+</u> 8.6	years	Thyroid	2%	(n = 1)	
*75% of enrolled participants completed 120 Y4C sessions over the initial 4 week period						

B. QOL Symptom Assessment Subset

Response	Week 1	Week 4	p value
Sleep Trouble	2.2 <u>+</u> 0.16	1.9 ± 0.15	0.039+
Feelings of Depression	1.2 ± 0.3	0.62 ± 0.3	0.027+
Nausea	1.1 ± 0.05	1.3 ± 0.09	0.031-
Do you worry	1.9 ± 0.14	1.6 ± 0.1	0.09+
Feeling of Wellbeing	2.8 <u>+</u> 0.3	2.2 <u>+</u> 0.4	0.09+

C. Changes Y4C Functional Pose Assesment

Pose	Wk 1	Wk4	% Change
Warm up Vinyasa Seated	7	7.4	4.3%+
Getting to Hands & Knees	6.7	7.4	9.1%+
Kick-stand Tree	6.5	6.3	1.5% -
Chair & Block Test	6.4	7.1	10.9%+
Forward Fold	6.4	7	9.4%+

CONCLUSIONS

We demonstrated:

class wk12). **Outcomes include:** Edmonton Symptom Assessment Scale, EORTCC QLQ-C30-Ver3, 5-Y4C performance poses (A. Warm up Vinyasa, B. Getting to Hands & Knees, C. Kick-stand tree, D. Chair & Block Test and E. Forward Fold) evaluated via F. Likert scale (0-1 Cannot do to 9-10 easy to perform). **Inclusion criteria:** cancer patients (early diagnosis, active treatment, or survivors), > 18 years, willing and available for yoga classes, physician approval.

Exclusion: significant co-morbidity; broken/dislocated bones, muscle strain/sprain, disc problems, fragility, significant balance, vertigo, no physician clearance.





E. Forward Fold

F. Y4C Performance Poses. Participants are asked to identify the ease at which they can perform each of 5 Functional Y4C poses over time.

Performance level Y4C Pose		ot do at all		cult to n pose		at able to m pose	Eas perf	y to `orm		ly easy to m pose
Circle best response	1	2	3	4	5	6	7	8	9	10
I. Warm up Vinyasa Seated	1	2	3	4	5	6	7	8	9	10
II. Getting to Hands & Knees	1	2	3	4	5	6	7	8	9	10
III. Kick-stand tree	1	2	3	4	5	6	7	8	9	10
IV. Chair & Block Test	1	2	3	4	5	6	7	8	9	10
V. Forward Fold	1	2	3	4	5	6	7	8	9	10

• Feasibility to establish an IRB approved Hospital-based "Y4C" pilot program with Y4C trained yoga therapists.

- Demographics and changes in Y4C Poses & QOL can be assessed over time
- Participants are predominately Caucasian, female, early 60s, with breast cancer
- Preliminary improvements of Sleep & Depression from Week 1 to Week 4
- Preliminary improvements in ability to perform Y4C poses form 4 to 11% from Week 1 to Week 4

Efforts are underway to:

- Increase diversity and male participants
- Enroll >100 cancer patients

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