The Use Of The Modified CHAMPS To Measure Change In Physical Activity Following An 8 Week Cancer Nutrition Rehabilitation Program Josée Lemoignan, OT, MSc; Bruno Gagnon, MD, MSc., and Martin Chasen, MBChB, FCP(SA), MPhil(Pall Med)UCT McGill University Health Center, Montreal, Quebec, Canada

Results

Background

Cancer and the treatment thereof cause functional decline in patients.

The McGill Cancer Nutrition Rehabilitation Program (CNRP) consists of a collaborative, interdisciplinary team of professionals who, using a time-limited approach, work to empower patients to function optimally, thereby improving their quality of life.

One of the goals of the CNRP is to improve the physical activity of patients through bi-weekly physiotherapy sessions and bi-monthly (or more frequently) visits to the occupational therapist.

Objective

To measure the effectiveness of an 8 week out-patient CNRP in increasing physical activity of cancer survivors.

Method

Participants: Patients who were enrolled and completed the CNRP between April 2007 and May 2008 (see Table 1).

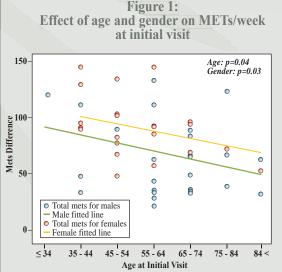
Measure: The Community Healthy Activities Model Program for Seniors ¹(CHAMPS)

A physical activity questionnaire developed to evaluate the outcome of interventions that were used to increase physical activity of seniors was modified (see Table 2).

Procedure: The CHAMPS was administered by the occupational therapist pre and post CNRP.

Table 1: Demographic and clinical characteristics of participants

Variable		# of participants N=51	%
Age	24 to 34 yrs 35 to 44 yrs 45 to 54 yrs 55 to 64 yrs 65 to 74 yrs 75 to 84 yrs > 85 yrs	1 8 14 12 5 3	1.9 15.7 15.7 27.5 23.5 9.8 5.9
Gender	Male Female	29 22	57 43
Cancer Diagnosis	Breast Head and neck Hematological Lung Hepato-biliary Prostate Pancreas Unknown primary Ovary Other	9 8 5 4 4 4 3 3 2 9	17.6 15.7 9.8 7.8 7.8 7.8 5.9 5.9 3.9 17.6

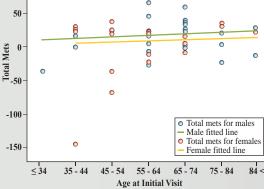


At initial visit, physical activity significantly decreases (6 METs/week) when age increases by 10 years.

Women are significantly more physically active than men (19 METs/week) at all ages.



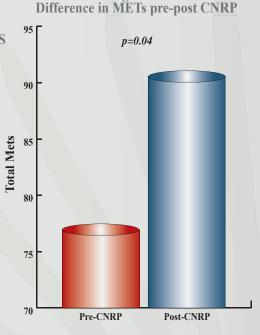
Figure 2:



There is no significant difference in METs pre and post CNRP evaluations in relation to age and gender.

Figure 3:

There is a subgroup of patients whose physical capacity deteriorated from pre to post CNRP.



There is a significant difference in physical activity between pre and post CNRP evaluations.

The difference is an increase of 14 METs after participation in the CNRP.

References

Stewart A., Mills K., King A. et al. Community Healthy Activities Model Program for Seniors. Medicine & Science in Sports & Exercise, 2000; p.1126-1141.

Table 2: Examples of activities rated in the modified CHAMPS

MODIFIED CHAM							£			
THINK OF A TYP			·							
HOW MANY H	HOW MANY HOURS DID YOU SPEND DOING: MET Hours									
	value	<1	1 - 2.5	H0 3 - 4.5		7 - 8.5	> 9			
	vaiue	-					-			
Sedentary activities										
Reading	1									
Watching television	1									
Light activities:										
Walking leisurely	2.5									
Running errands	2.5									
in and generations										
Moderate activities:										
	3									
Doing light housework	3									
Light strength training	3									
Strenuous activities:										
Aerobic exercises	4									
Heavy gardening	4									

Conclusion

At initial evaluation, physical activity decreases with increasing age.

Women are consistently more active than men.

Participation in an 8 week out-patient CNRP improves physical activity of cancer survivors.

Limitations

The modified CHAMPS may be a useful tool to measure change in levels of physical activity in a cancer population however its value is limited by recall effect.

The original CHAMPS does not allow precise recording of activities performed >9 hours therefore we suggest recording the exact number of hours of activity performed for more than 9 hours.