



Title	A good time to dance? Differential effects of dance movement therapy for breast cancer patients during and after radiotherapy
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Citation	The 16th World Congress of Psycho-Oncology and Psychosocial Academy, Lisbon, Portugal, 20-24 October 2014. In Psycho-Oncology, 2014, v. 23 suppl. S3, p. 95-96, abstract H-0157
Issued Date	2014
URL	http://hdl.handle.net/10722/206134
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A Good Time to Dance?

Differential Effects of Dance Movement Therapy for Breast Cancer Patients During and After Radiotherapy

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Background

Dance Movement Therapy (DMT)

- Is both a form of **psychotherapy** and a form of **moderate physical activity**
- It has been found effective in :
 - promoting positive physical and psychological effects
 - improving the quality of breast cancer patients

(Bojner-Horwitz, Theorell, & Maria-Anderberg, 2003; Dibbell-Hope, 2000; Kaltsatou, Mameletzi, & Douka, 2011; Serlin, Classen, Frances, & Angell. 2000)



Significance of the Study

- A mixed-method, **exploratory study** to investigate how and when the DMT intervention can be effective for breast cancer patients, who are either undergoing and completed radiotherapy



Methodology

Inclusion Criteria	<ul style="list-style-type: none">• Chinese-speaking women• Diagnosed with breast cancer (Stage 0-4)
Exclusion Criteria	<ul style="list-style-type: none">• Presence of secondary cancer• History of severe concomitant disease or major psychiatric illnesses
Sample Size	<ul style="list-style-type: none">• 159 participants were recruited from the oncology & radiotherapy department at 2 local hospitals, and 3 cancer patient service centers in Hong Kong, and <u>144</u> (90.6%) completed the study
Data Collection	<ul style="list-style-type: none">• Qualitative data were collected immediately after DMT Intervention by means of a written open-ended questionnaire

Participants Profile

Characteristics	Mean (SD) / Number of Participants (%) (N=104) All participants	Mean (SD) / Number of Participants (%) (n=60) Concurrent Radiotherapy Group	Mean (SD) / Number of Participants (%) (n=44) Post Radiotherapy Group
Age	50 (7.9)	48.8 (8.1)	51.6 (7.5)
Cancer staging			
0	9 (9)	6 (10.5)	3 (7.1)
1	23 (23.2)	12 (21.1)	11 (26.2)
2	44 (44.4)	27 (47.4)	17 (40.5)
3	22 (22.2)	12 (21.1)	10 (23.8)
4	1 (1)	0 (0)	1 (2.4)
Surgery			
None	1 (1)	1 (1.7)	0 (0)
Lumpectomy	57 (55.9)	37 (62.7)	20 (46.5)
Mastectomy	44 (42.7)	21 (35.6)	23 (53.5)
Chemotherapy	78 (76.5)	47 (79.7)	31 (70.5)

The Dance Movement Therapy Intervention Program

- The 6-session (twice a week) Program includes:

Movements-based components	To facilitate...
• Gentle upper arm movements	Relieving of edema
• Group dance & movement games	Enhancement of mood & vitality
• Improvisational movements	Encourage personal expression
• Movement interaction	Communication
• Sharing	Reflection and building mutual support

How Does DMT Help?

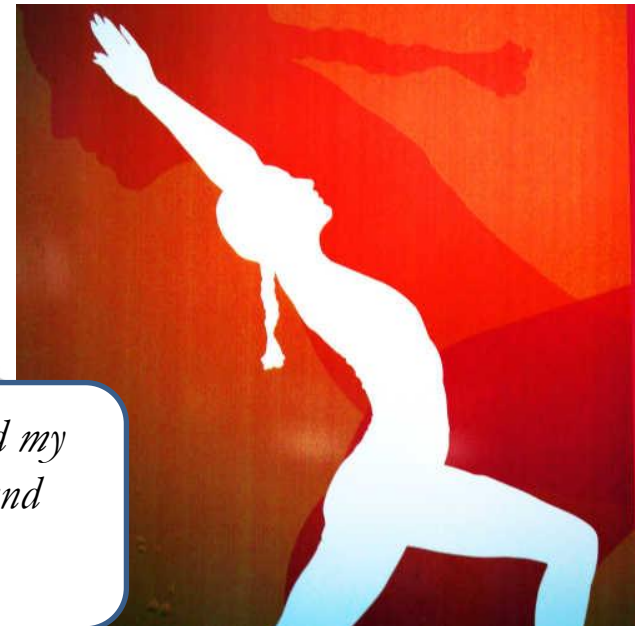


How Does DMT Help?

- **Coping with the cancer, radiation treatment, and physical symptoms**
 - by speeding up their recovery from the current and previous treatments
 - by making the radiotherapy process and side effects more bearable

“It seems like time passed by really quickly, it allowed me to have something to look forward to... I can have my treatment and I can dance. This anticipation helps distract me from the side effects of radiotherapy”

“Throughout radiotherapy, parts of my body and my limbs are painful and tense. But through dance and music, I realize that they can move quite freely”



How Does DMT Help?

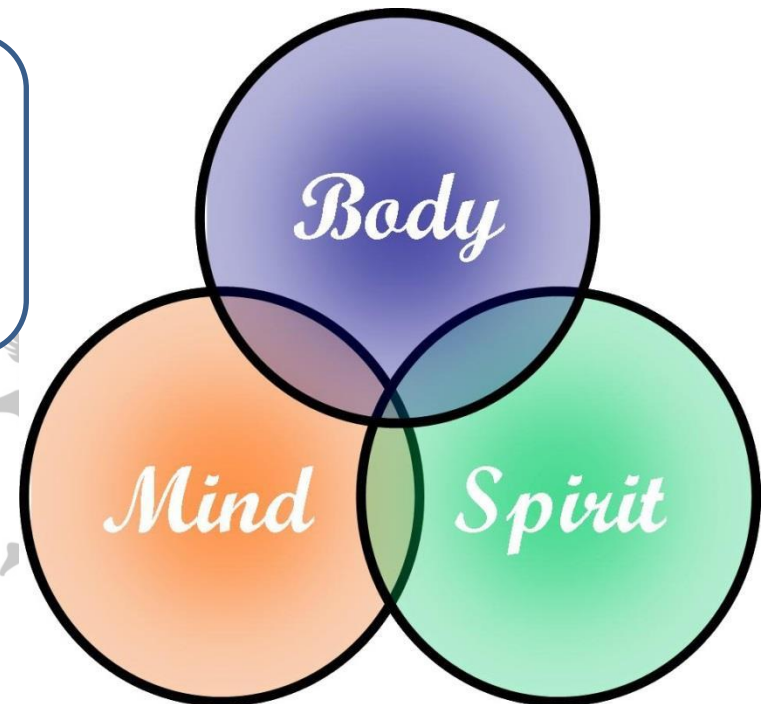
- **Mental well-being , mindfulness and self-appreciation for the self and the body**
 - Feelings of alleviated stress, relaxation, and happiness
 - Enhanced self-acceptance, self-confident & mindfulness



How Does DMT Help?

- **Total functioning**
 - Enhanced quality of life, life enjoyment, and fulfillment
 - Enhanced holistic well-being (i.e. body, mind, spirit)

“Participating in this course has made me more cheerful. Having this new thing to do has made my life more fulfilling, and my quality of life has improved



How Does DMT Help?

- **Bridging back to normal and better life**
 - by encouraging physical activities
 - by commitment to a balanced life rhythm
 - by fostering future orientation

“I gained happiness from the activities and became more aware of being happy every day”



How Does DMT Help?

- **Shared positive experiences**
 - emotional support
 - information exchange

“I feel like I’m not facing this on my own. When my group mates reflected my feelings on the spot, I felt that I immediately gained a lot of support”



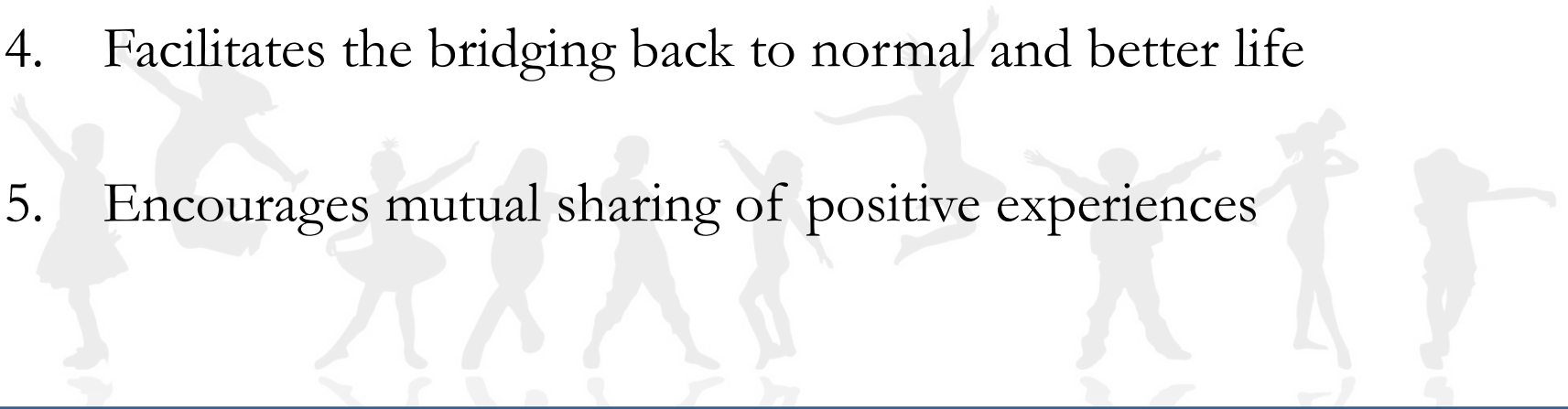
When Does DMT Help?



Differential Effects of DMT

1. Supports the ability to cope with the cancer, radiation treatment, and physical symptoms ($\chi^2 = 7.16, p \leq .01$)
2. Enhances mental well-being, mindfulness and self-appreciation for the self and the body ($\chi^2 = 4.49, p \leq .05$)
3. Improves total functioning
4. Facilitates the bridging back to normal and better life
5. Encourages mutual sharing of positive experiences

Concurrent
Radiotherapy

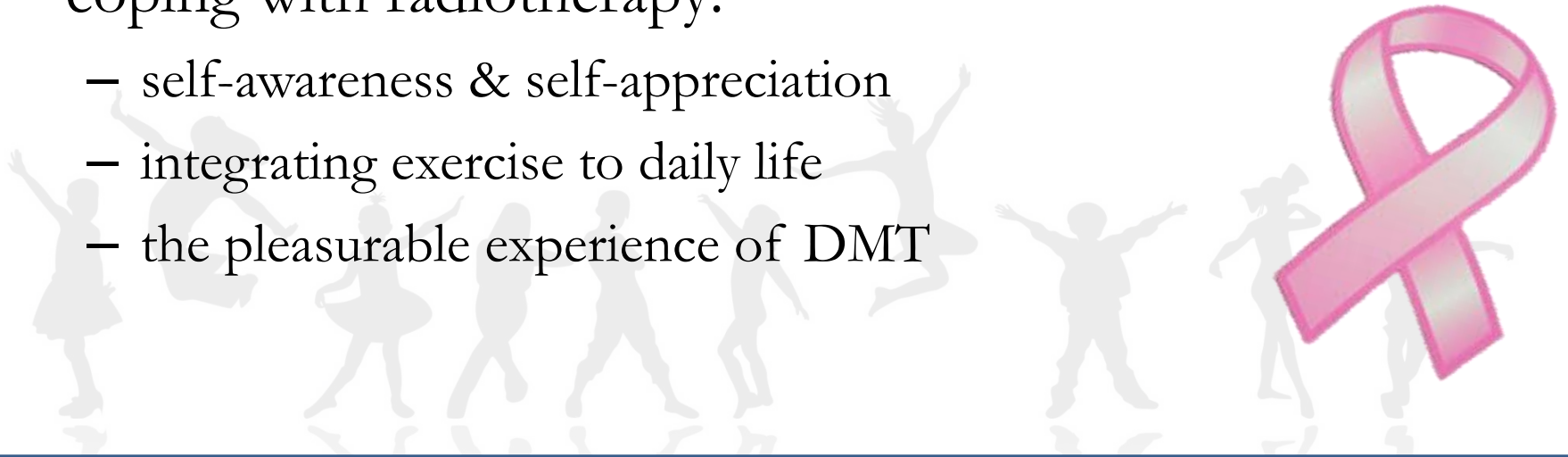


Implications



Implications

- When administered to cancer patients who are *attending* radiotherapy, DMT brings about additional benefits:
 - Better symptoms management
 - Enhanced psychological well-being
- Breast cancer patients find the following helpful when coping with radiotherapy:
 - self-awareness & self-appreciation
 - integrating exercise to daily life
 - the pleasurable experience of DMT



Acknowledgements

Research Grants Council

General Research Fund (HKU745110H)

Research Team Members

Ms. Phyllis H.Y. LO MPhil, MSocSc.

Dr. M.Y. Luk, MBBS

All participants in the DMT Intervention Program



Thank
You