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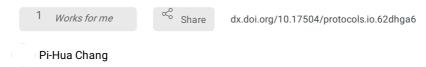
Exercise experiences in patients with lung cancer patients: A qualitative approach

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ABSTRACT

Background Patients with metastatic lung cancer have a series of symptoms and many severe treatment-related side effects. However, little evidence is in support of benefits in performing exercise during their hospitalization. The purpose of this study was to understand exercise experiences inpatients with metastatic lung cancer.

Methods A qualitative approach with face-to-face in-depth interview was conducted at an inpatient ward of a medical center in central Taiwan, on 24 recruited participants with metastatic lung cancer. The interview transcripts went through a narrative analysis by a group of qualitative research experts to extract and validate the main themes.

Results Three primary themes were identified: (a) modifying exercise to maximize physical functions, (b) living with symptoms and frustration but continuing exercise, and (c) doing exercise to sustain hopes, inner power, and life. Two secondary findings were: (a) most participants adopted walking as their main form of exercise because of its flexibility, and (b)participants, according to the severity of their symptoms, adjusted their exercise towards shorter time durations and shorter distances, slower speeds, and higher frequencies.

Conclusions Participants with metastatic lung cancer adjusted their exercise behaviors to balance disease and treatment-induced deteriorations and to boost themselves to fight cancer and sustain survival. Individualized exercise schemes should be adopted in clinical practice to enhance their physical functions and life meaning. Such a home-based rehabilitation program in exercise was acceptable to most participants with metastatic lung cancer, including improvements in physical fitness, motivation, and the ability to manage symptoms.

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GUIDELINES

We used a narrative-based qualitative approach with open-ended interviews to explore exercise experiences of our patients. The narrative analysis is an effective way to understand less structured, yet rich and in-depth descriptions from interviews regarding complex and subjective experiences, such as thoughts, feelings, and meanings. This method has been applied to study cancer patients and their exercise behaviors. Specifically, it was used to explore the rationale underlying time-spent on exercise, and on exercise per se. Analyzing narratives from interviews of these patients can reveal the various reasonings, and different information regarding the way patients live with cancer, and can also help to develop more patient-centered care.

MATERIALS TEXT

Interview guide

No.	Questions
1.	Can you talk
	about your
	thoughts and
	experiences
	on exercise?
	How did you
	feel about
	exercise before
	and after the
	diagnosis of
	lung cancer?
	Can you talk
	about the
	exercise you
	take in daily life
	and how do you
	do it?
	What are your
	thoughts or
	opinions about
	exercise?
2.	How did you
	adjust your
	exercise
	behaviors in
	response to
	various
	physical or
	psychological
	conditions?
	10.1
	How did you
	adjust or modify
	adjust or modify your exercise
	adjust or modify your exercise behaviors in
	adjust or modify your exercise behaviors in different
	adjust or modify your exercise behaviors in different situations?
	adjust or modify your exercise behaviors in different situations?
	adjust or modify your exercise behaviors in different situations? Can you talk about
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	adjust or modify your exercise behaviors in different situations? Can you talk about how you changed your exercise behaviors in your situations? Why did you
	adjust or modify your exercise behaviors in different situations? Can you talk about how you changed your exercise behaviors in your situations?

SAFETY WARNINGS

If participants had any problems during interviews, the author would deal with participants' conditions and

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comfort participants' emotions immediately in the hospital.

BEFORE STARTING

The study setting is at an internal chest ward with 52 beds housed in a medical center with 1,500 beds in central Taiwan. This ward is specialized in caring adults with respiratory problems (lung and breathing) in which about 60% of them are lung cancer. Here, an average of two to three hospitalized patients/week with metastatic lung cancer has received diagnostic examinations, treatments, symptom management, or palliative care.

- 1 A purposeful sampling was used to collect the diversity of exercise experiences in our participants.
- The inclusion criteria were as follows: (1) older than age 20 years; (2) diagnosed with metastatic lung cancer; (3) spoke Chinese or Taiwanese; (4) had exercise habits or behaviors; (5) admitted in our hospital; and (6) understood the research purpose and agreed to participate in the study.
- The exclusion criteria were as follows: (1) diagnosed lung cancer with stage I ~ IIIB; (2) not admitted in our hospital; (3) never did exercise before and after cancer diagnosis; (4) refused to participate in the study, (5) declined to audio-recording the interview, and (6) physical conditions were too sick to talk.
- 4 The ethical approval of this qualitative study was obtained from the Institutional Review Board of Taichung Veterans General Hospital, Taiwan (Certificate of approval: C10188). The informed consent was written version.
- Each participant was interviewed face-to-face by a trained researcher. One of the authors had approached the eligible inpatients and explained to them the purpose and procedures of this study. After obtaining their written informed consent, background information of each participant was recorded and an interview was scheduled.
- The background information included the following: (a) information of demography (age, sex, marital status), and (b) disease and treatment-related information, including diagnosis time, metastasis sites, current cancer treatments, and the score of performance in ECOG (Eastern Cooperative Oncology Group).
- Methods of data collection were in compliance with the principles of narrative interviews. A quiet and comfortable interview room provided a peaceful and trustful ambiance for interviewing with participants and relative members.
- 8 Participants had agreed to share their experiences of taking exercise before, after cancer diagnosis of lung cancer and during the metastatic stage.
- 9 For those who had agreed to participate in the study, the interview began with the following question: 'can you talk about your thoughts and experiences on exercise?' in accordance with an interview guide.
- All interviews were audio-recorded and transcribed within 48 hours. Transcriptions were all de-identified using codes and stored electronically for analyses.
- 11 three authors were assigned to independently read, repeatedly reflect, constantly compare cancer- and exercise-related words, sentences and situations, and collaboratively discuss narratives to identify the findings consistent with participants' experiences and semantic expressions.

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