GUEST EDITORIAL

Nutrition and exercise interventions for patients with lung cancer appear beneficial, but more studies are required

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Patients with lung cancer have a symptom burden—including fatigue, anorexia, and weight loss—that is among the highest for all types of cancer. These symptoms have the potential to result in malnutrition and subsequent poorer patient and clinical outcomes, such as reduced quality of life, reduced tolerance to treatment, and increased health care costs. Interventions that improve fatigue and maintain or improve nutrition status are therefore of great importance.

The systematic review by Payne et al. of exercise and nutrition interventions in patients with advanced lung cancer in this issue of Current Oncology highlights the limited high-quality research that has been conducted in this area. The authors conclude that, although there appears to be some benefit from exercise and nutrition interventions, further research is required.

One of the reasons a larger body of evidence is not available on this topic may relate to the characteristics of the lung cancer population. As the authors note, recruitment and attrition were problematic in all the included studies. The challenges of studying supportive care interventions in advanced lung cancer patients has previously been discussed. It has been suggested that poor performance status, poor ability to communicate in English, and rapidly changing health status may all contribute to low recruitment and high attrition. Future intervention research in this group needs to account for those factors in the study planning stages.

The authors also observe that nutrition counselling as an intervention was not tested in any of the studies. Intensive individualized nutrition counselling has previously been demonstrated to be effective in achieving improvements in patient and clinical outcomes in both head-and-neck and gastrointestinal cancers. This area warrants further exploration in patients with lung cancer.

Clinical practice guidelines have recently been developed for the medical and supportive care management of patients with non-small-cell and small-cell lung cancer. The paucity of research on exercise and nutrition interventions is reflected in the lack of related recommendations in the guidelines. The systematic review by Payne et al. raises awareness of this under-researched area and provides suggestions for future research.

CONFLICT OF INTEREST DISCLOSURES

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REFERENCES

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