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Background & PurposeOne of the 10 most frequent cancers is head and neck cancer (HNC). Many patients with HNC su ered from treatment-related side e ects during and a er concurrent chemotherapy (CCRT), including radiation-induce pulmonary problems that may impact their physical activity levels and causes of cardiac problems, which may impair cardiopulmonary tness and cause cardiac events. Exercises are potentially bene cial to these side e ects. e purpose of this randomized controlled trial was to prescribe a multi-modal exercise program during treatment and to investigate the e ects on cardiopulmonary responses in patients with HNC.

Methods: 12 patients with HNC were randomized to either an 8-week multi-modal exercise program or the control group. Outcomes were measurement on the baseline, 5th week and immediately a er the treatment session. e primary outcomes were 3-minute step test and the secondary outcomes were lung and respiratory function.

Results:A er 5-week training, there were signi cantly in uenced on exercise's group resting systolic blood pressure (SBP) (from 120±12 to 109.3±9.5) and SBP recovery (from 124.7±14 to 114±11.1). Moreover, the exercise group had signi can improvements on inspiratory pressure (from -45±24.9 to -53±23.8). However, the exercise's group FEV1/FVC, MEF 25 and 50% showed the deterioration and the control group showed the improvements in resting and peak SpO2.

Conclusion: e multi-modal exercise program signi cantly improved the cardiopulmonary exercise responses and respiratory function in patients with HNC receiving CCRT. Further researches should be done with larger sample size and long-term follow up are necessary to verify these ndings.

## Biography

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