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**Long-Term Risk of Heart Failure and Myocardial Dysfunction after Thoracic Radiotherapy: A
Systematic Review**

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Short title: Radiation and cardiac function

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Abstract – 184 words; Text ~5000 words;

Brief Summary ~ Thoracic irradiation is an effective and beneficial treatment for a range of malignancies, but its relationship with myocardial dysfunction remains unclear. A systematic review was performed to combine best available scientific evidence describing myocardial dysfunction in long-term cancer survivors. Thoracic radiation was found to be associated with heart failure, with hazard ratios for Hodgkin's disease ranging from 2.7 to 7.4. Included papers were heterogeneous, making it difficult to formulate definitive conclusions for the current era.

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