OBJECTIVES: The aim of this study was to assess the incidence of restenosis after coronary stenting in patients with lymphoma treated with thoracic radiation.

BACKGROUND: Patients with Hodgkin lymphoma treated with thoracic radiation have an increased incidence of coronary artery disease (CAD). The incidence of restenosis after percutaneous coronary interventions is completely unknown.

METHODS: This study included 12,626 consecutive patients with CAD treated with coronary stenting during a 10-year period. Within this cohort, three subgroups of patients were assessed: patients with lymphoma and previous thoracic radiation (15 patients), patients with lymphoma without thoracic radiation (7 patients) and patients without lymphoma or previous thoracic radiation (control group; 12,604 patients). Coronary stenting was performed after a median [25th; 75th percentiles] of 8 years [4; 17] after thoracic radiation. The primary end point of the study was restenosis at 6-month coronary angiography.

RESULTS: Six-month coronary angiography was performed in 14 patients (93%) in the group with lymphoma and radiation, 6 patients (86%) in the group with lymphoma without radiation and 10,032 patients (80%) in the control group (P = 0.38). Angiographic restenosis was found in 12 patients (85.7%) in the group with lymphoma and radiation, 1 patient (16.7%) in the group with lymphoma without radiation and 2,555 patients...
(25.5%) in the control group (P< 0.001). Multiple logistic regression identified thoracic radiation as an independent predictor of coronary restenosis (odds ratio 21.7, 95% confidence interval, 4.7-100.9, P< 0.001). CONCLUSIONS: Patients with lymphoma treated with thoracic radiation have an increased risk of restenosis after coronary artery stenting.

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