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# Intracoronary radiation for in-stent restenosis

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Mehrdad Malenkianpoor, Affl Corresponding Affiliation: Affl

Aff1 University Hospital of Wales, UK

### Keywords

In-stent restenosis, intracoronary radiation

#### Context

This paper describes the three-year angiographic and clinical outcome following treatment of restenotic coronary arteries with catheter based <sup>192</sup>Ir.

This double-blind randomised trial was undertaken to document the long-term efficacy and safety of radiation therapy.

The short-term results of radiation therapy have been promising but its long-term effect has been unknown.

## Significant findings

At three-year follow-up target lesion revascularisation was significantly less in the 192Ir group (15.4% vs 48.3%; P < 0.01). The dichotomous restenosis rate at 3 years was also significantly less in 192Ir patients (33% vs 64%; P < 0.05). No events occurred at either the 6 months or 3 year follow-up to suggest an adverse effect of vascular radiotherapy.

#### Comments

I found this article interesting as it demonstrates a persistence of observed early clinical benefits.

Possible implications of these findings are that vascular radiotherapy may play an important role in the treatment of in-stent restenosis. A limitation of this study is its small sample size. Other studies evaluating the long-term effects of coronary radiation are pending.

### Methods

A total of 55 patients were enrolled over a 9 month period; 26 were randomised to <sup>192</sup>Ir and 29 to placebo.

### Additional information

#### References

1. Teirstein PS, Massullo V, Schatz RA, Guarneri EM, Steuterman S, Sirkin K, Cloutier DA, Leon MB, Tripuraneni P: Three-year clinical and angiographic follow-up after intracoronary radiation: results of a randomized clinical trial. Circulation. 2000, 101: 360-365.

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