**Title:**

Comparison of treatment modalities in post irradiation carotid blowout syndrome: a multi-center retrospective review

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**Abstract:**

Post irradiation carotid blowout syndrome is not uncommon in our locality, where head and neck cancers, especially nasopharyngeal carcinoma, are prevalent. Traditionally it carries high morbidity and mortality rate. Treatment paradigm has evolved from open surgery to endovascular intervention across the years, with each treatment modality carrying its merits and drawbacks.

***Objective:***

To investigate the outcome of different treatment modalities in the management of post irradiation carotid blowout syndrome.

***Method:***

A 10-year multi-center retrospective review of outcome in endovascular trapping, flow diverters and bypass, in post irradiation carotid blowout syndrome during 2010-2019.

***Result:***

In patients treated with flow diverters, immediate hemostasis was achieved in 96% (24/25) of patients, rebleeding rate was 16% (4/25), stroke rate was 25% (5/25), flow diverter occlusion rate was 44% (11/25). Results in endovascular trapping and bypass are pending.

***Conclusion:***

Preliminary results for flow diverters showed good immediate hemostatic rate, but with relatively higher stroke and occlusion rate when compared to the literature. Further analysis of other treatment arms are pending.