Sclerotherapy

Percutaneous sclerotherapy is an alternative strategy for the treatment of vascular malformations of the orbit and periorbital region. The safety and efficacy of sclerotherapy in this setting have not been fully established. We present the results of a systematic review and meta-analysis examining the safety and efficacy of percutaneous sclerotherapy for the treatment of vascular malformations of the orbit. We searched PubMed, MEDLINE, and EMBASE from 2000 to 2018 for studies evaluating the safety and efficacy of percutaneous sclerotherapy for orbital and periorbital vascular malformations. Two independent reviewers selected studies and abstracted data. The primary outcome of this study is the efficacy of sclerotherapy which includes complete response, partial response, or no response to sclerotherapy. Data were analyzed using random-effects meta-analysis. 13 studies reporting on 154 patients were included. The rate of complete cure following percutaneous sclerotherapy was 54.9% (95%CI=34.2%-75.7%). The rate of emergent decompressive surgery was 3.4% (95%CI=0.5%-6.2%) and the rate of vision loss was 2.7% (95%CI=0.1%-5.3%). I2 values were above 50% for most outcomes indicating substantial heterogeneity. Our systematic review and meta-analysis of 13 studies and over 150 patients found that percutaneous sclerotherapy is a safe and effective treatment modality for the treatment of low-flow vascular malformations of the orbit [1)].

1)
De Maria L, De Sanctis P, Tollefson M, Mardini S, Garrity JA, Morris PP, Bendel E, Brinjikji W. Sclerotherapy for Low-Flow Vascular Malformations of the Orbital and Periocular Region: Systematic Review and Meta-Analysis. Surv Ophthalmol. 2019 Aug 16. pii: S0039-6257(19)30248-6. doi: 10.1016/j.survophthal.2019.08.003. [Epub ahead of print] Review. PubMed PMID: 31425703.

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