

## **Radiotherapy plus endoresection to treat malignant melanoma associated with exudative retinal detachment**

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### **Advantages:**

Exudative retinal detachment is the main cause of visual loss in choroidal malignant melanoma. If not treated, in addition to the loss of visual function of the eye, a high probability of neovascular glaucoma and a high risk of enucleation occur after radiotherapy. Combined radiotherapy and surgical endoresection can solve the exudative retinal detachment and allows preserving a useful visual function, while radiotherapy allows to inactivate all the cancer cells before endoresection.

### **Methods:**

We treated 12 patients affected by exudative retinal detachment associated to choroidal malignant melanoma. All the patients underwent the following therapeutic steps:

1. placement of tantalium clips
2. proton beam radiotherapy
3. vitrectomy, endoresection, silicone oil
4. silicone oil removal

### **Effectiveness / Safety:**

The combined treatment, excision plus radiotherapy, prevents the visual function loss due to the exudative retinal detachment and permits to eradicate the tumour from the eye. A strict selection of the patients undergoing these procedures is mandatory.

### **Take home message:**

Radiotherapy plus excision (endoresection) is the treatment of choice in selected patients affected by choroidal malignant melanoma associated with exudative retinal detachment.