Tumour of the Frontal Sinus with Double Vision

J.		Huysmans
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On October 31st, 1955, I was consulted by a lady aged 40, for double vision. The symptoms had then been present for about one year. The left orbital margin was thickened; the left eye was distinctly lower. Analysis of the double images revealed hypofunction of the superior oblique muscle and of the superior rectus muscle of the left eye. The other functions of both eyes were good: visual acuity 5/5, bilateral emmetropia. The X-ray picture showed veiling and marked enlargement of the left frontal sinus. The past history did not contain factors suggesting frontal sinusitis. On November 11th, 1955, radical operation of the left frontal sinus was carried out by H. Simon. At this operation, a markedly enlarged frontal sinus was found, the floor was distinctly displaced towards the orbit. The entire cavity was filled with a soft, pale red tumour. The bone was normal and not infiltrated. The tumour was removed in pieces and the frontal sinus curetted. Healing by first intention. Morbid-anatomical examination (Van Hinsbergh) revealed a monotonous picture: fibres arranged in bundles, mostly with spindle-shaped nuclei, no signs of inflammation. Fragments of bone—mostly dead—were found dispersed in the tumour. Diagnosis: Primary fibroma of the frontal sinus; very rare according to the literature. The sinus has remained well up to now. Postoperatively, the symptoms of double vision remained about the same: the hypofunction of the superior oblique muscle was no longer observed after a few months, but the hypofunction of the superior rectus muscle persisted.

In primary position there was hypophoria, ranging from 6 to 10°. On January 29th, 1957, the inferior rectus muscle of the left eye was, therefore, stretched and the eye fixed in a markedly upward direction for 12 days (for technique see: /. Huysmans: *Annales d'Oculistique* 189: 797–803 [1956]).

After removal of the fixation dressing the left eye was markedly hyperphoric but this was gradually reduced. After 2 weeks

there was orthophoria in the primary position with slight prismatic correction

and after another fortnight there was orthophoria without prisms in all directions of view. This has remained so up to now.