Periorbital abscess – a complication of an acute ethmoiditis (left side)

With the help of the software we could visualize the exact location of the pathological structures.

The eyeball was not involved.

The optical nerve was not infiltrated. The tumour entered into the orbita, but only the periorbital fat is involved medio-inferiorly.

As we can see, the eye muscles and the tissues in the orbita were not infiltrated, but they were somewhat displaced by the volume.

We could estimate, based on the reconstructed images, that the tumour itself is capsulated, and can be removed during surgery.

Approx. volume of the tumour is 34372 mm³.

Legend:
red: abscess; white: cranium; green: eyeball; blue: soft tissues inside the orbita and eye muscles; light blue: air

Maxilloethmoidal tumour (right side)

With the help of the software we could visualize the exact location of the pathological structures.

The eyeball was not involved.

The tumour was not infiltrated. The tumour entered into the orbita, but only the periorbital fat is involved medio-inferiorly.

As we can see, the eye muscles and the tissues in the orbita were not infiltrated, but they were displaced by the volume.

We could estimate, based on the reconstructed images, that the tumour itself is capsulated, and can be removed during surgery.

Approx. volume of the tumour is 5300 mm³.

Legend:
red: tumour; orange: cranium (and some other soft tissues); green: eyeball; blue: eye muscles; yellow: optical nerve

Acoustic neurinoma (left side) and two fronto-temporal arachnoidal cysts

The approximate volume of the neurinoma is about 5300 mm³.

Legend:
grey: cerebellum; light green: grey matter; light blue: cysts; dark blue: neurinoma; light yellow: air; yellow: n. VIII; pink: inner ear; orange: eye muscles; green: eyeball