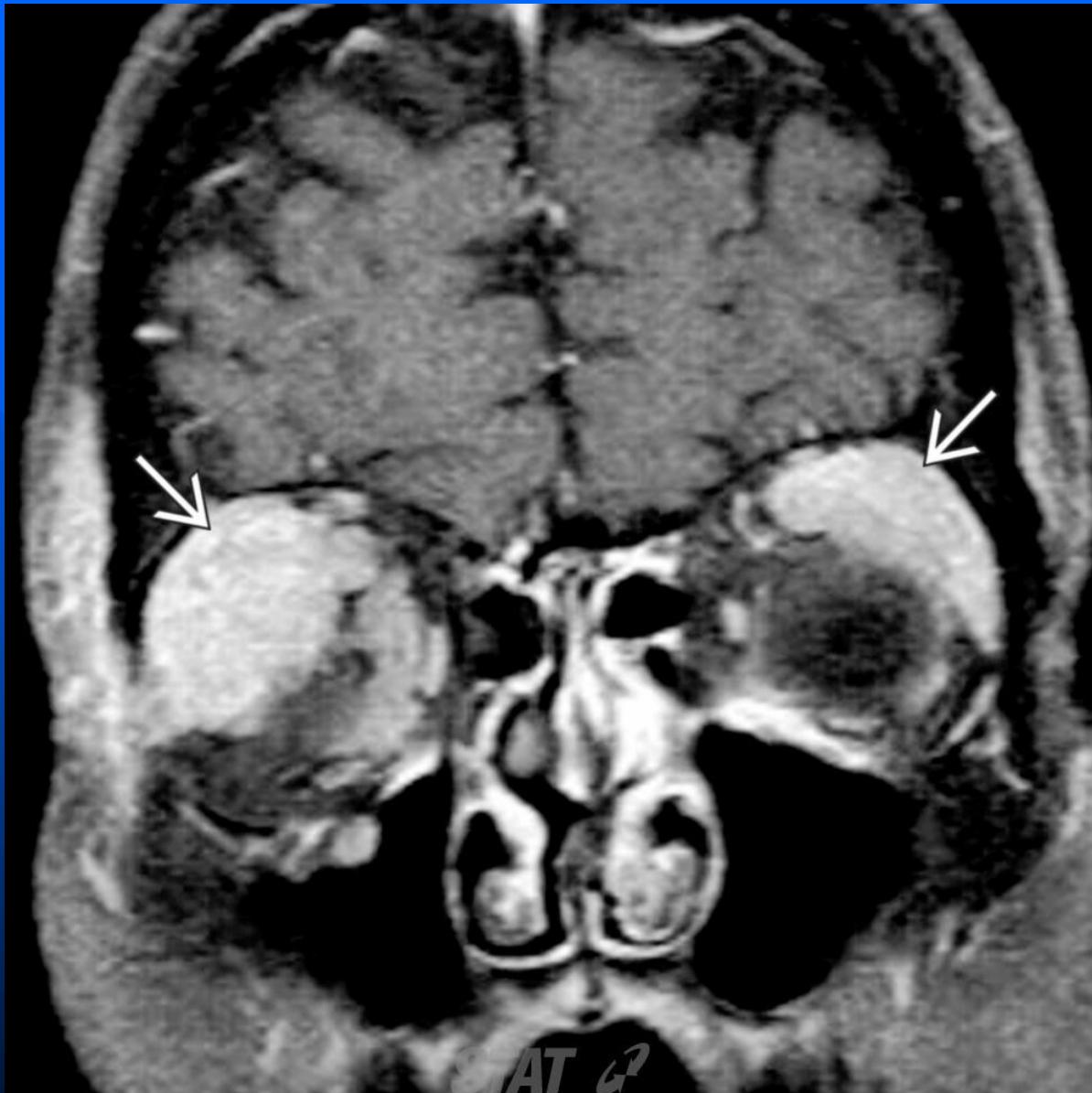


# Orbital Lymphoproliferative Lesions

- Spectrum of lesions ranging from benign lymphoid hyperplasia to malignant lymphoma.
- Presentation: Insidious anterior orbital/eyelid swelling
- Long-term risk of developing systemic lymphoma
  - Histology and orbital site affect risk of systemic disease
- Lymphoid hyperplasia responsive to steroids
- Lymphoma responsive to radiation therapy

# Imaging

- Solid, pliable, homogeneously enhancing tumor
  - Can involve any part of orbit; lacrimal predilection
- Mass with lobulated margins
  - Molds to adjacent structures in "plastic" fashion
- Mildly T2 hyperintense to muscle (high cellularity)
- Decrease ADC, particularly in true lymphoma
- Moderate to marked homogeneous enhancement

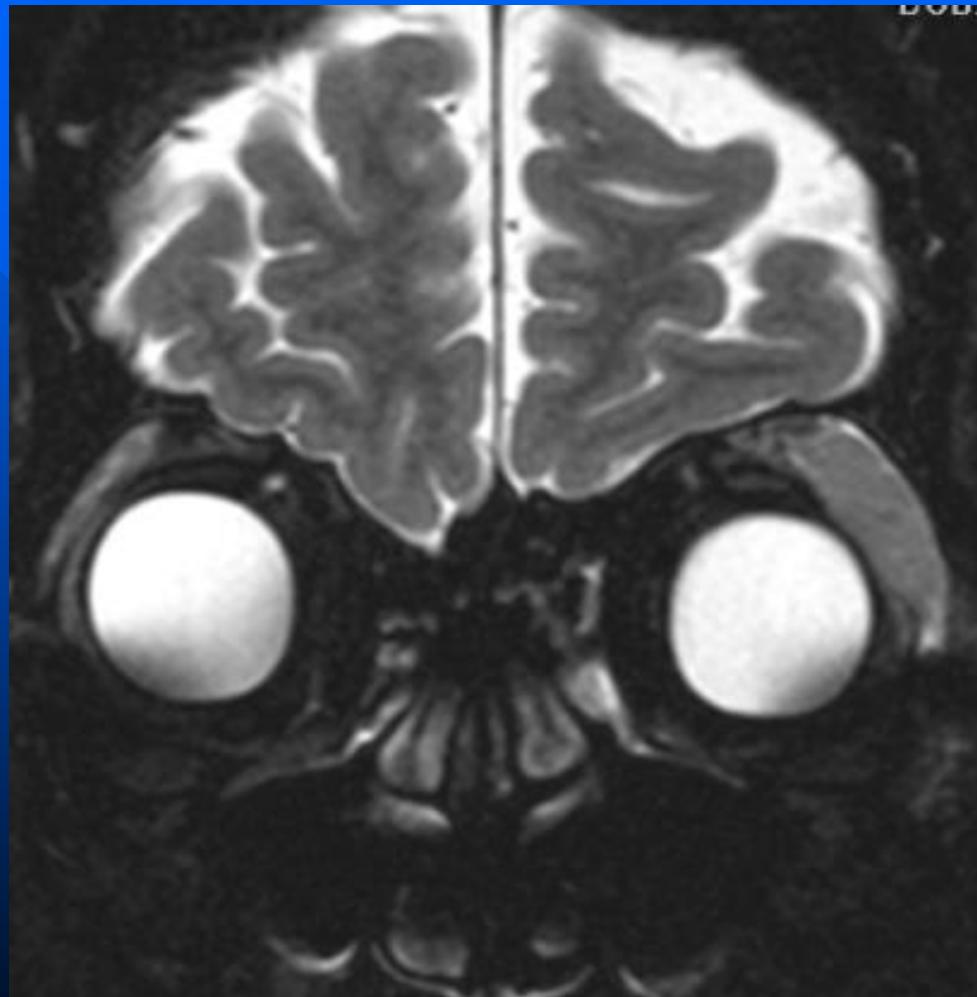


Coronal T1 C+ FS MR shows bilateral, lobular, homogeneously enhancing lacrimal masses (white solid arrow). This is a common presentation for OLPL. The differential for this appearance includes sarcoidosis, Sjögren syndrome, and idiopathic inflammation.



Coronal T1 C+ MR shows a homogeneously enhancing extraconal MALT lymphoma involving the lacrimal gland with posterior extension along the lateral rectus (white solid arrow). Note the presence of intracranial suprasellar tumor (white open arrow).

# Lacrimal lymphoma



# Checklist

## ■ Consider

- Whole-body **staging** and **surveillance** are indicated because of risk of development of systemic lymphoma
- Tumor location has significant impact on eventual risk of systemic lymphoma

## ■ Image Interpretation Pearls

- **Broad range** of imaging manifestations
  - » Carefully examine anterior compartment structures, including orbital septum, conjunctiva, and lids
  - » May involve any portion of orbit
- Consider OLPL in differential for any orbital mass
- Features that help distinguish benign hyperplasia from true lymphoma
  - » **Benign:** Well-defined, bilateral, flow void sign, higher enhancement ratio, sinusitis, less elderly
  - » **Lymphoma:** Irregular, unilateral, diffusion restriction, lower enhancement ratio, more elderly