

A Siemens MAGNETOM MRI scanner, showing the large circular gantry and the patient bed. The Siemens logo is visible on the top of the gantry.

# Androimaging in MAGI: A case report

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# Symptoms

- 55y old man
- Acute scrotal pain
- Fever
- Dysuria 2 weeks ago

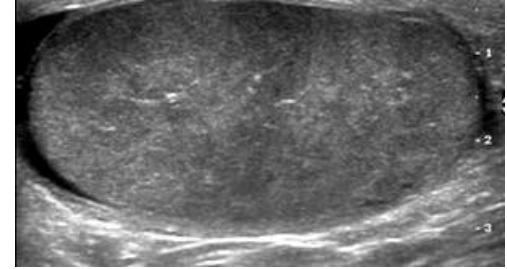


# Examination



- Left testis and epididymis enlarged, scrotal skin endured, painful (positive Prehn sign)
- Leucocytosis, thrombocytosis, CRP 150mg/l
- Leucocyturia (E. coli)

# Sonography



- Enlarged testis and epididymis
- Thickened covering
- Hydrocele
- Hyperperfusion testicular artery, low perfusion of tissue



# Protocol

## **morphological imaging**

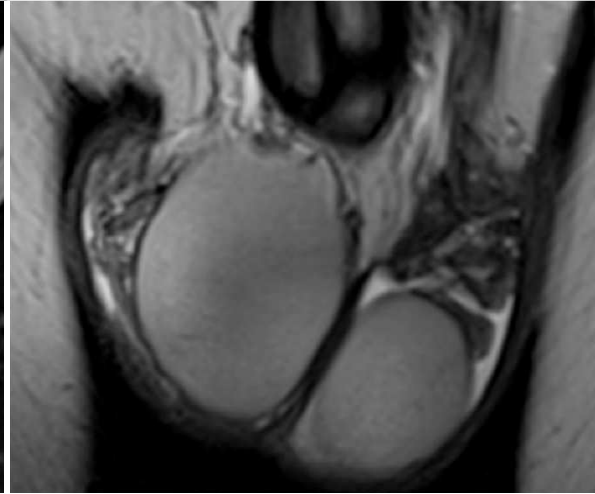
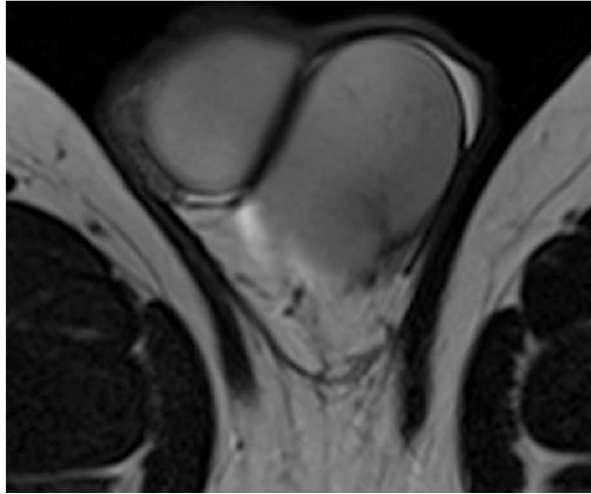
- T1 and T2 3d TSE
- T1 TSE post-contrast

## **functional imaging**

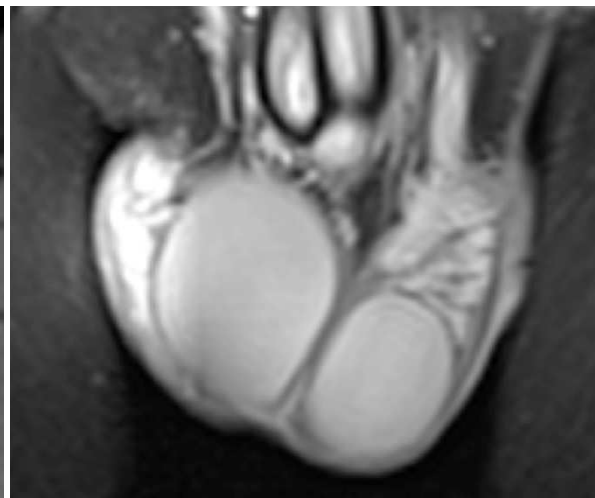
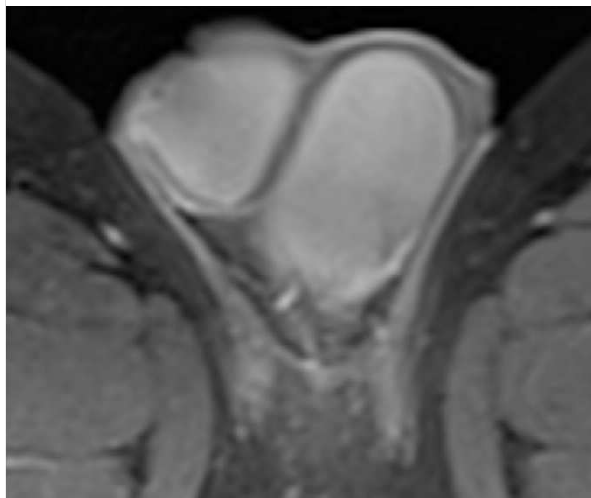
- diffusion weighted imaging  
( $b=0, 100, 800$ , ADC-Map)
- perfusion (T1 GRE)



# Morphology



T2 TSE



T1 TSE FS  
after Gd-  
DTPA

transversal

coronal

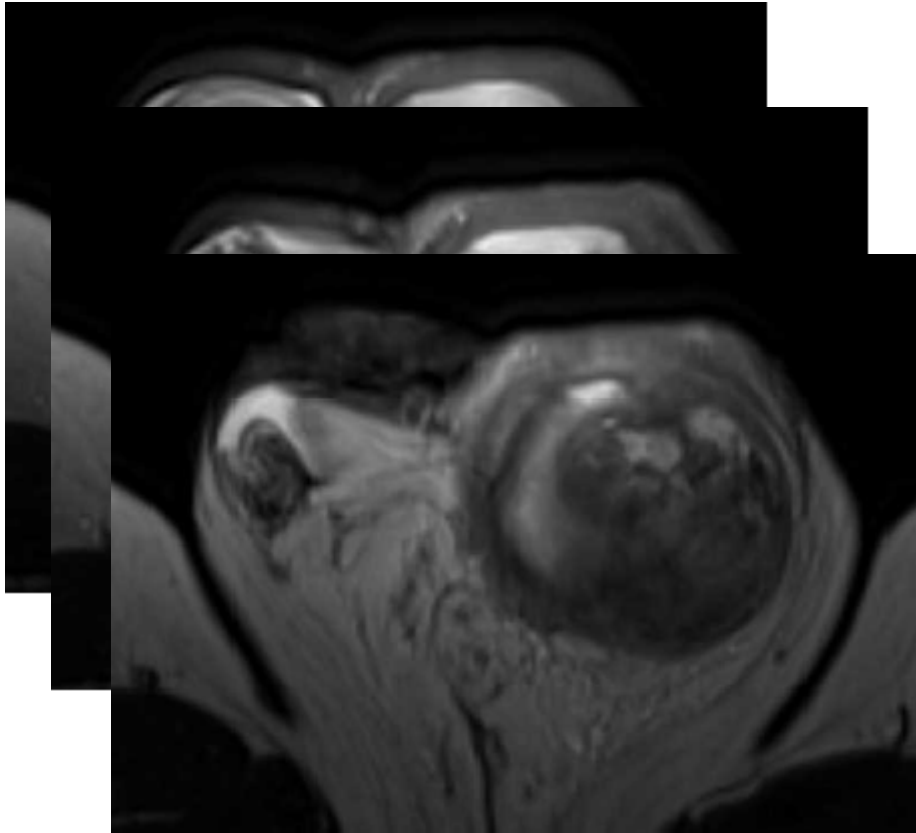


# MRI

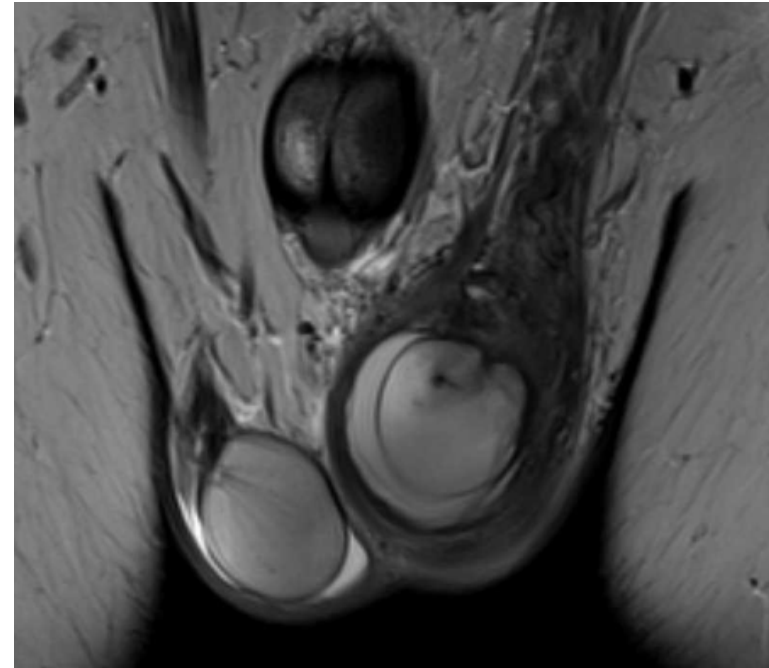
Case findings



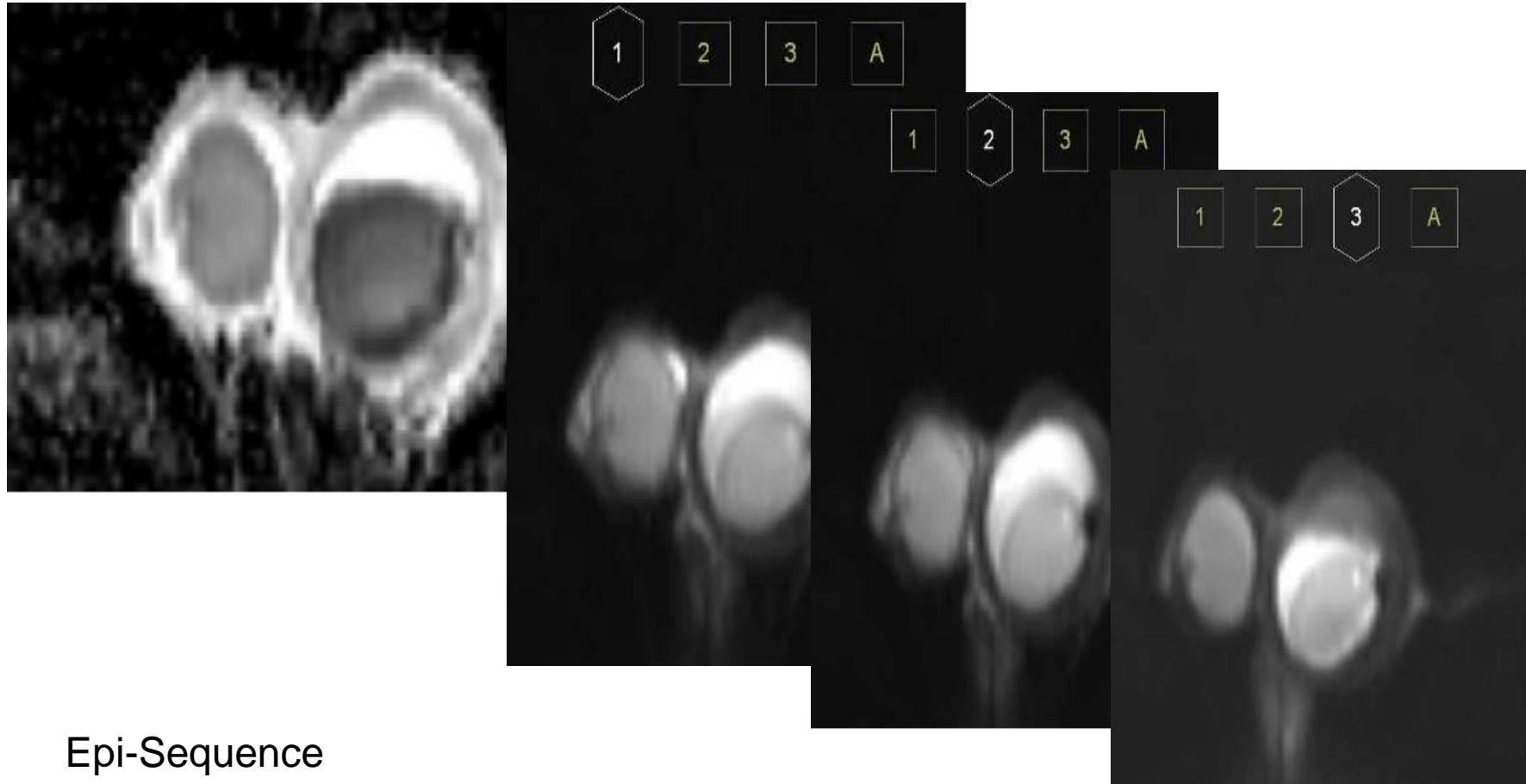
# Morphology



T2 TSE transversal and coronal

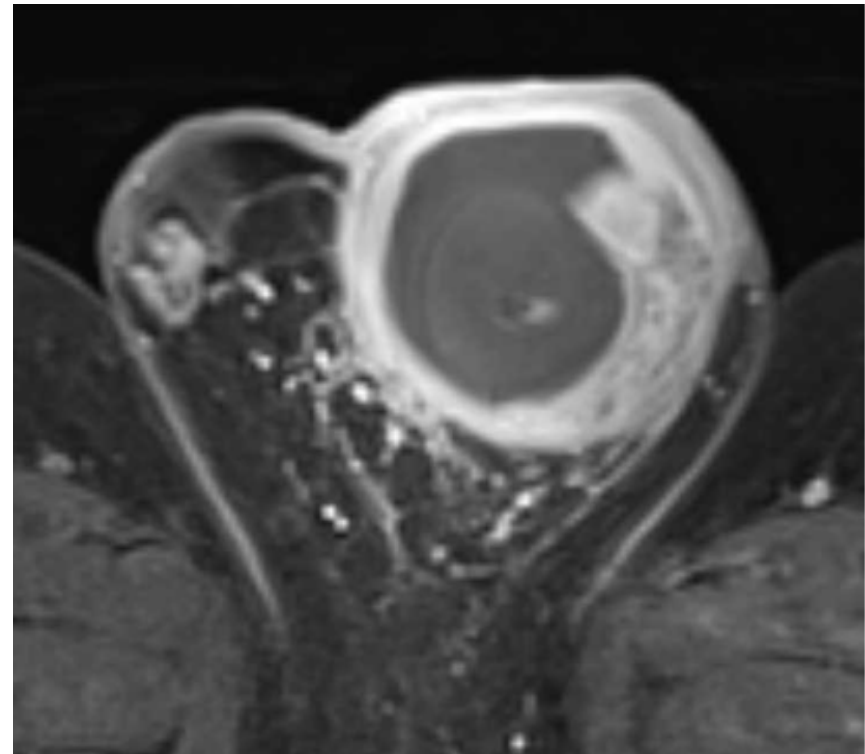
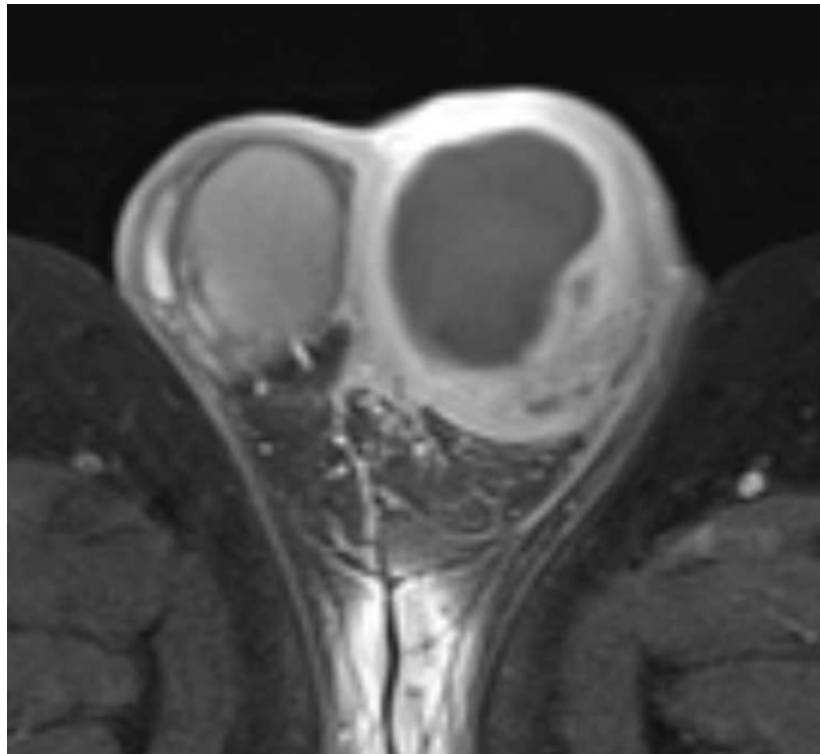


# DWI



Epi-Sequence

# Contrast enhancement

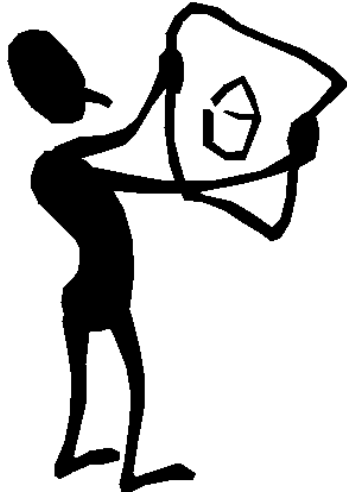


T1 TSE transversal after CA

# Results



- Enlargement 17 vs. 12ml (epididymis!)
- Hydrocele
- Restricted diffusion
- Hypoperfusion of left testis tissue;  
hyperperfusion of epididymis, coverage and  
ductus deferens

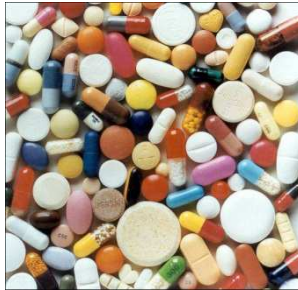


# Diagnosis

Acute Epididymitis with involvement of testis and subtotal infarction

# Therapy/Clinical outcome

- antibiotics



- Control 2 months later:  
Necrosis with abscess and fistula

→ ablatio

# Conclusion

- Anamnesis
  - Examination
    - Laboratory results/urinalysis
      - Sonography
        - MRI

# Literature

1. Takahashi et al: Segmental infarction of the testis diagnosed by MRI: a case report; Nihon Hinyokika Gakkai Zasshi, 2012
2. Onuki et al: Segmental infarction of the testis presenting as acute scrotum: a case report; Hinyokika Kiyo, 2009
3. Kato et al: Segmental testicular infarction- a case report; Hinyokika Kiyo, 2009
4. Ushida et al: Segmental infarction of testicle presenting as right acute scrotum: a case report; Nihon Hinyokika Gakkai Zasshi, 2000
5. Ishizu et al: two cases of testicular infarction: the usefulness of enhanced MRI for preoperative diagnosis; Hinyokika Kiyo, 1999
6. AWMF guidelines 2010



# Thank you for your attention!

