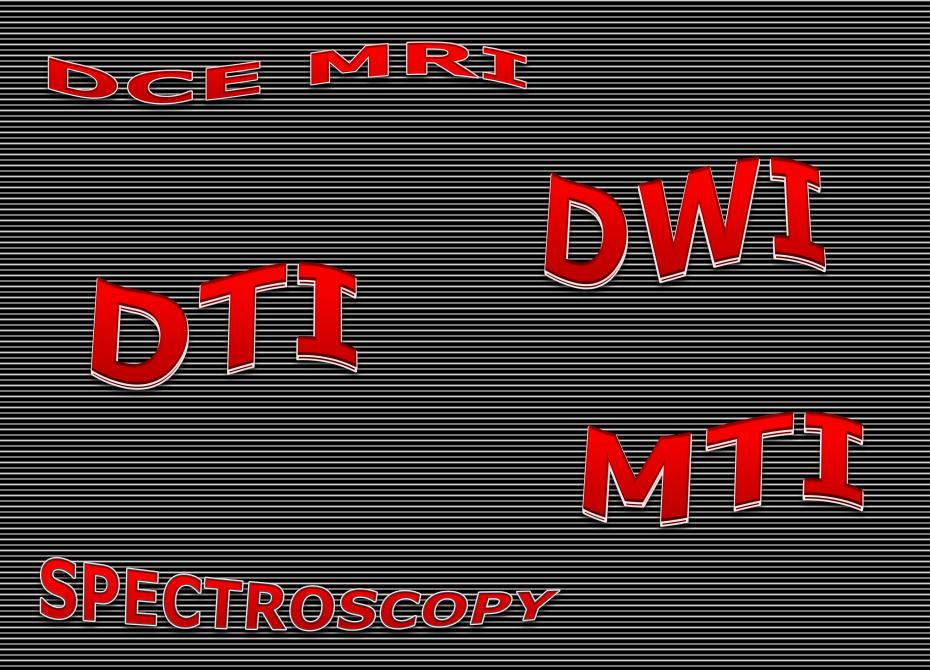




- a worthwhile second-line imaging diagnostic tool is
- - explorations
 - - spaces, and spermatic cords
 - Aightentrastand spatial resolution

 - functional information



Altical three second units mainly Hecommonded - characterization of testicular testons (primary) - local staging of TGCTs (primary) - characterization of the histological type of TGCTs (primary) - characterization of the histological type of TGCTs (primary)

ncopiasms (**evolving**)

Eur Radiol DOI 10.1007/s00330-017-4944-3



UROGENITAL

MRI of the scrotum: Recommendations of the ESUR Scrotal and Penile Imaging Working Group

Athina C. Tsili¹ • Michele Bertolotto² • Ahmet Tuncay Turgut³ • Vikram Dogra⁴ • Simon Freeman⁵ • Laurence Rocher⁶ • Jane Belfield⁷ • Michal Studniarek⁸ • Alexandra Ntorkou¹ • Lorenzo E. Derchi⁹ • Raymond Oyen¹⁰ • Parvati Ramchandani¹¹ • Mustafa Secil¹² • Jonathan Richenberg¹³

- its with equivocal US finding **in** patien
- recommended as a second-line technique for
- characterization=of=intratesticular=masses=(Grade=C)
- 1917 English Shing and Shing
 - preoperative=characterization=ol=the=histologicat

malignami

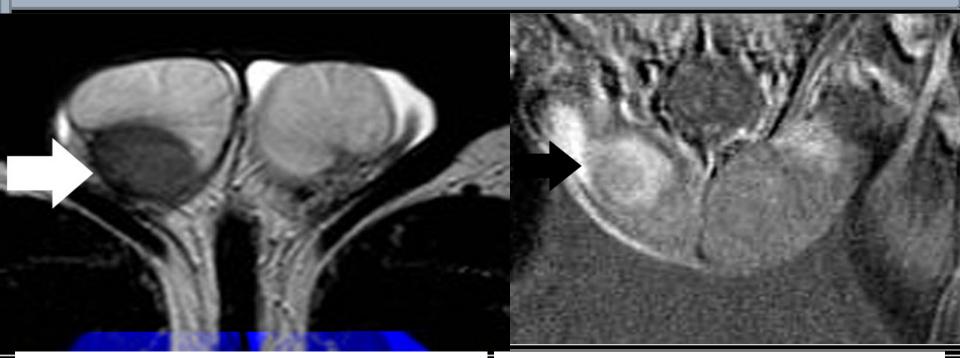
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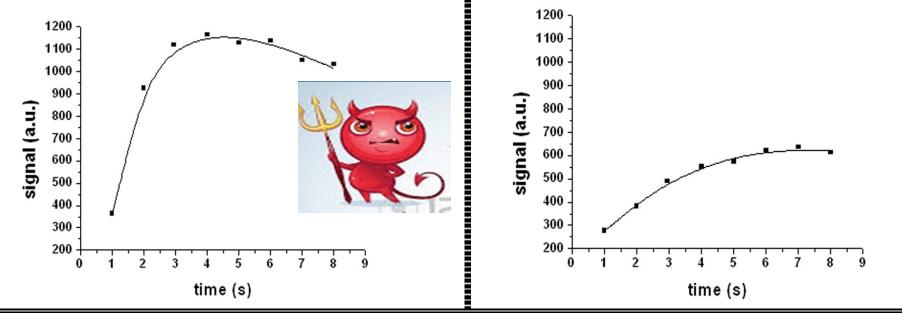


	Secondary
	areas of hemorrhage and/or necrosis
tow or hererogeneous T2 signal	
	paratestantar space and/or the spermatic cord

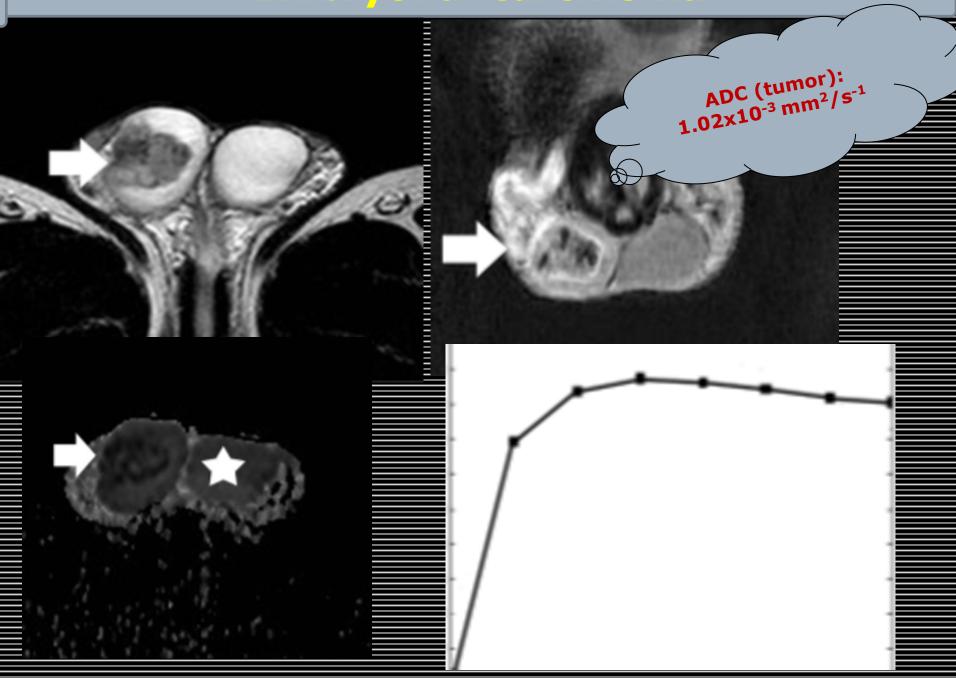
type

Testicular seminoma





Embryonal carcinoma



MRL is recommended for local staging of

TGCTs (Grade C)

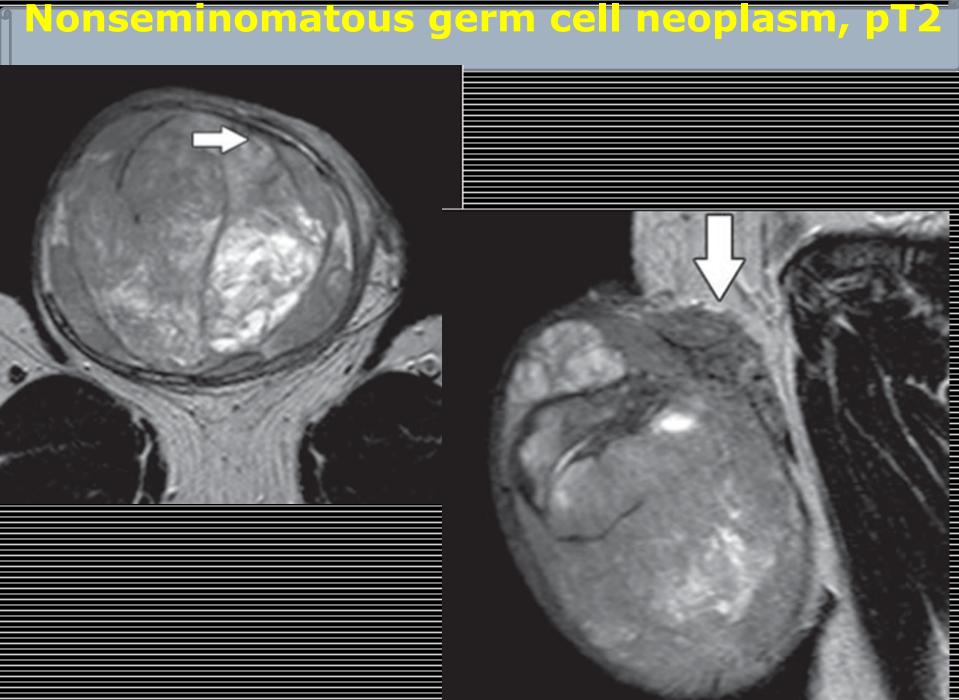
lanan katagi ng pa 2000 kapawi ren kap

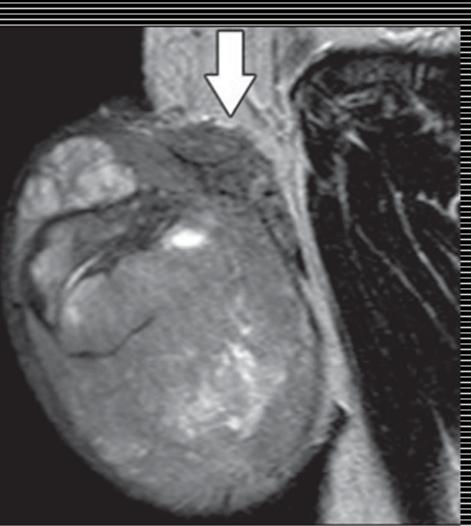
- - —Suitgely——
 - although organ-sparing surgery is not indicated in the presence

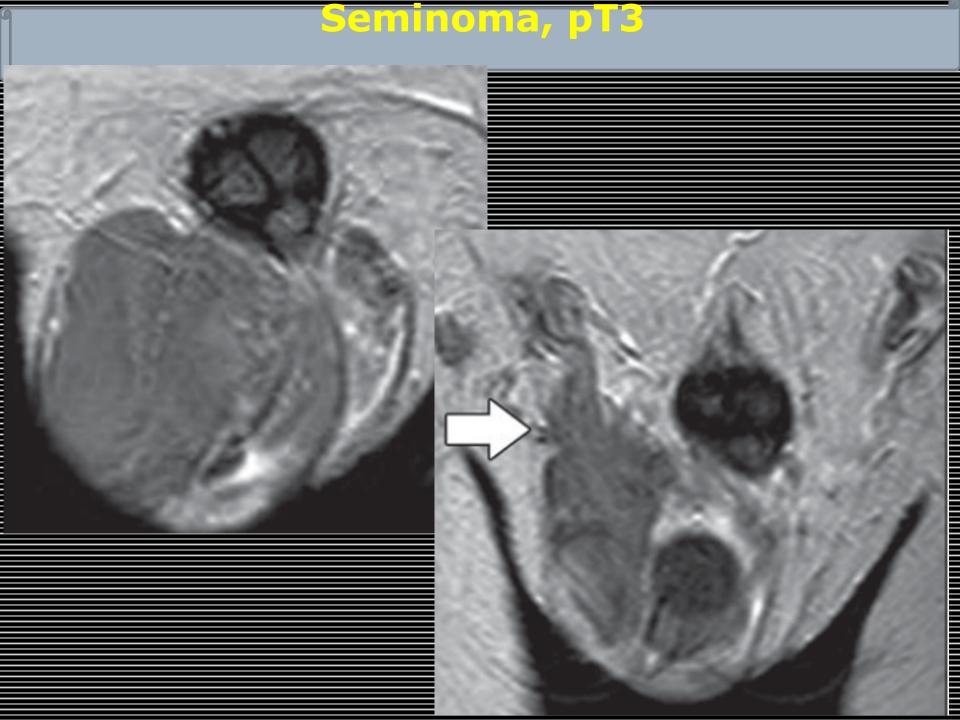
 - -special-cases-with-all-the-necessary-precautions-

 - 🖌 small us-detected, nonpalpable intratesticular lesion, **the**
 - <u>incidence of benign definitive histology is high: 80%</u>









Characterization of the histologic type



testicular neoplasms in selected cases

(Grade C)

<u> in cases of disseminated disease and/or life-threatening</u>

metastases chemotherapy is the first treatment

EAU guidelines 2016

Characterization = of the histologic type

- ABG additional tool (LE4)

Johnson et al. 1990, Cramer et al. 1991, Tsili et al. 2007, Kim et al

2007, Cassidy et al. 2014, Tsili et al. 2015

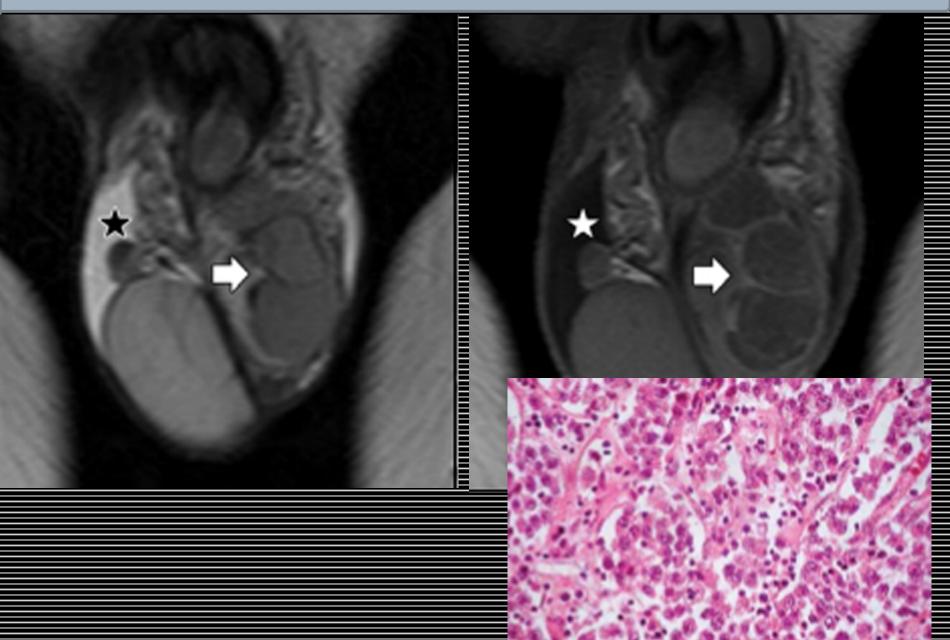
<u>A 14 E fez lu leises log els livies d'Ese minomz</u>i

- bandlike-structures of low T2-sig	

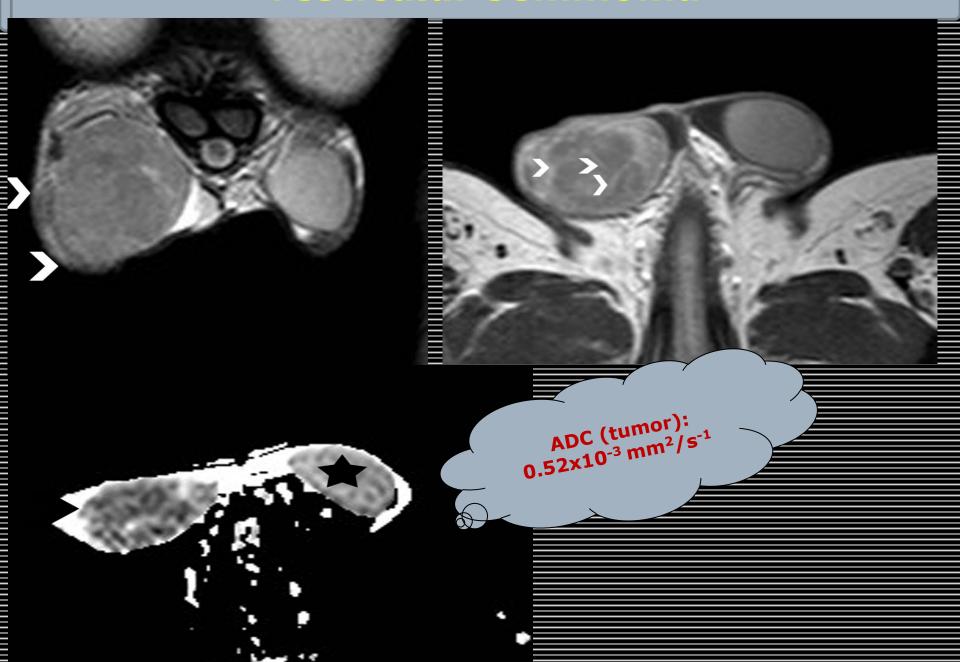
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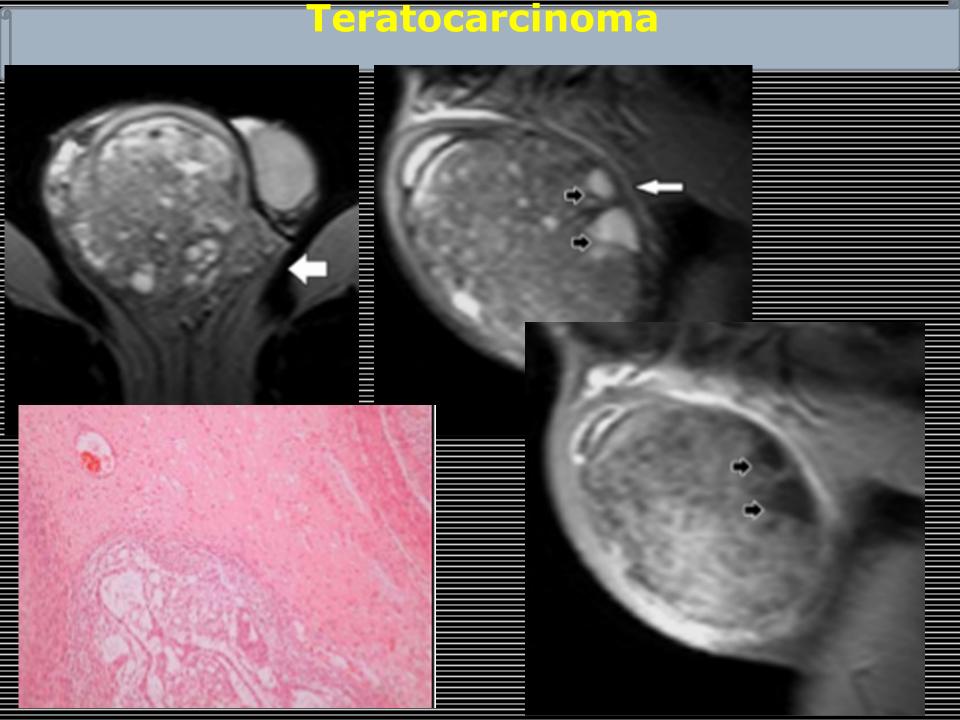
Testicular seminoma



Testicular seminoma



là 13 E fert (Hersennggrest (Meer) E



Differentating hetween Effetsand

- -----Leydig-cell-tumors (LCTs)==========

Differentatingsbeweenstfictands

<u>mmeqemeel menplasms</u>

MRI may help in the characterization of

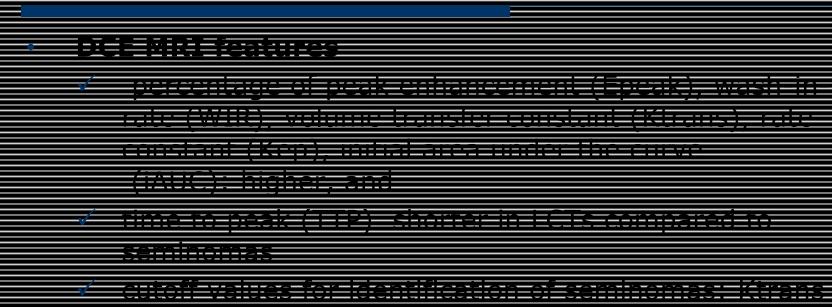
ECTs (Grade B)

Differentating between Effecteand

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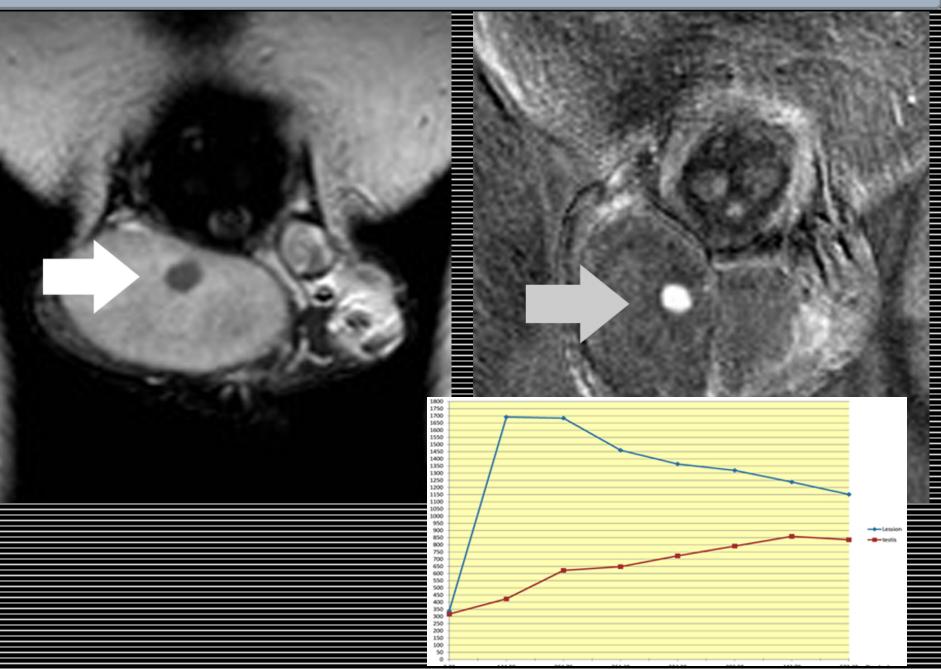
diferentaling between felt samt

nonegerneellneoplasns



Mangarano et al, Eur Radiol 2018

Leydig cell tumor



<u> Minsionzweighted Insgingz(9144)</u>

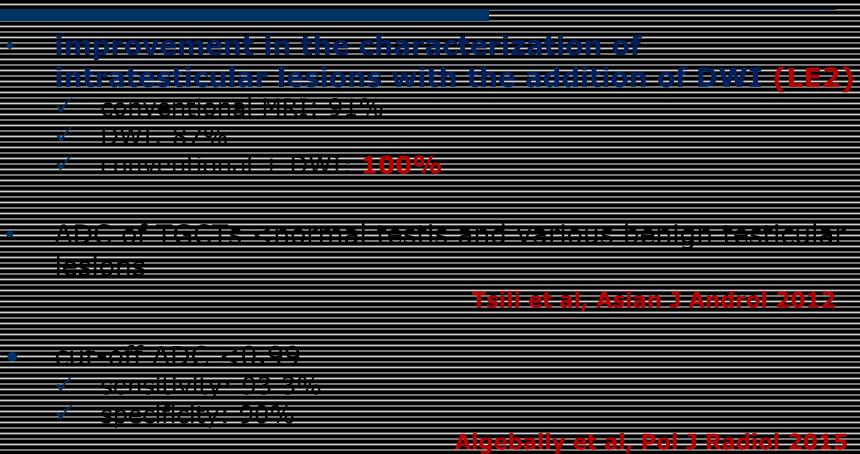








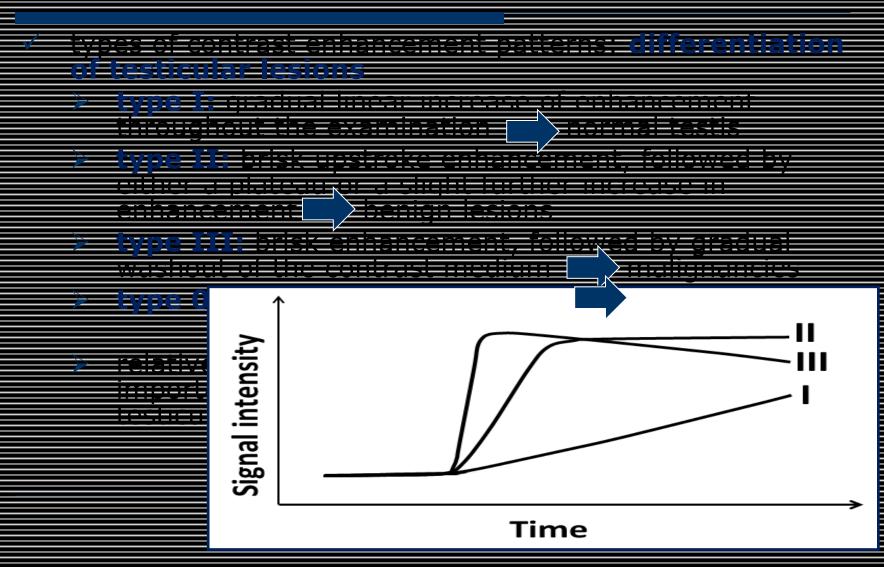




Tsili et al, Eur J Radiol 2015



nounna zaduliziesijs



<u>Dificionstana sinagings(Diff</u>

DEFENSION CONTRACTOR DESISTORE DE LA CONTRACTA DE LA CONT

- ABC, E4-(fractional-anisotropy)

1	

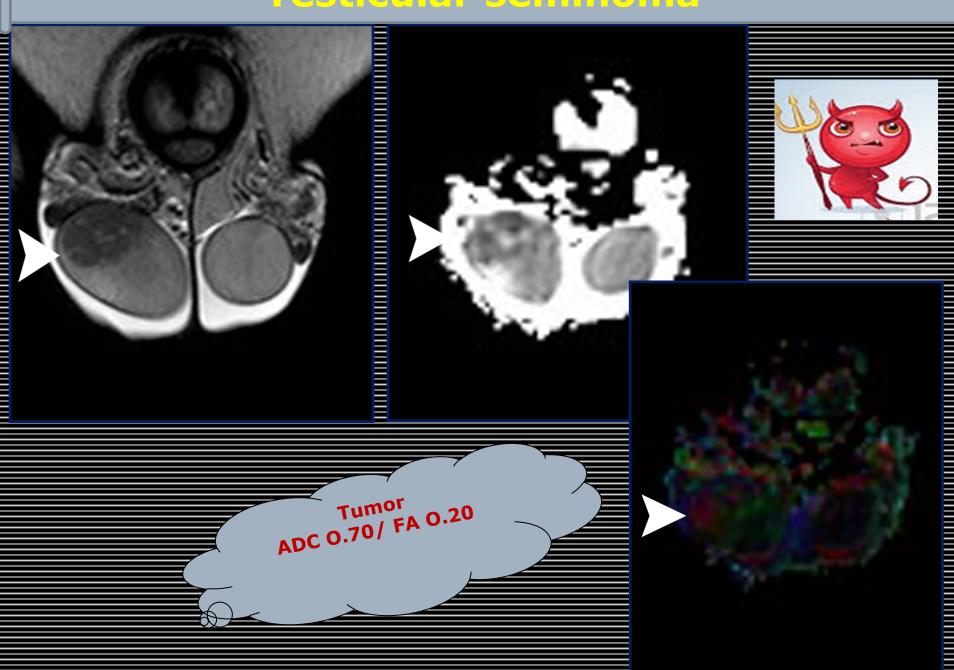
• <u>ABC: 1.15 + 0.16 × 10-3 mm/s</u>

Tsili et al, Eur J Radiol 2017

	<u>-</u>	

Tsili et al, Eur J Radiol 2017

Testicular seminoma



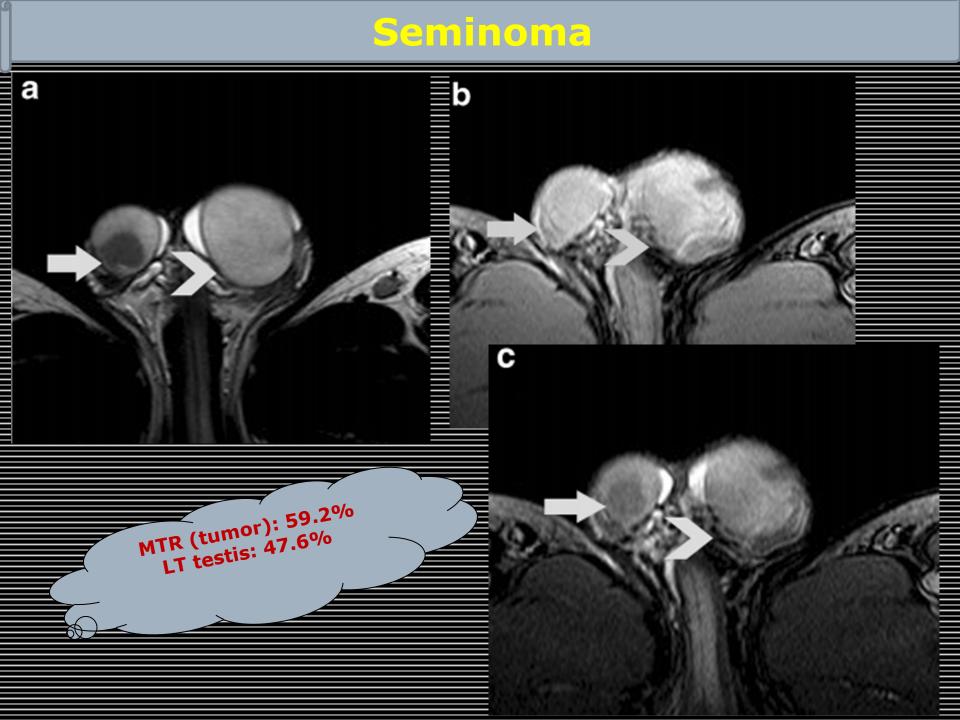
- many macromolecular structures implicated in the secretory
 - activity of the testis

Tsili et al, Eur Radiol 2016

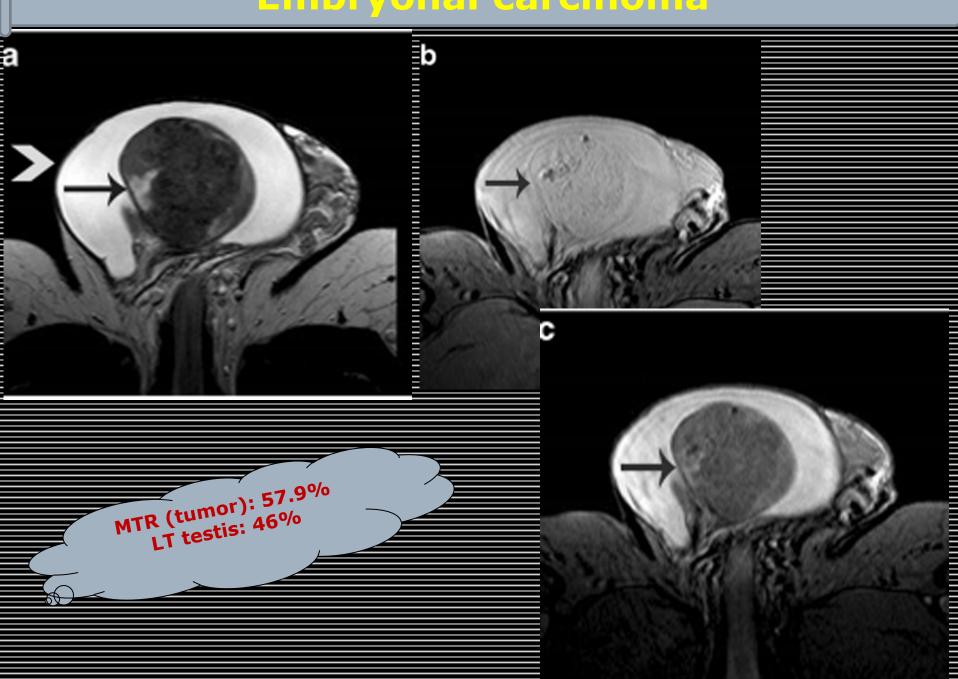
<u> Yaqınalızalını Etanış ise maging (Yitti</u>

- Marinay be useful in the diagnostic work up of testicular
- IGC is have high Millecompared to be much establish

Tsili et al, Eur Radiol 2016



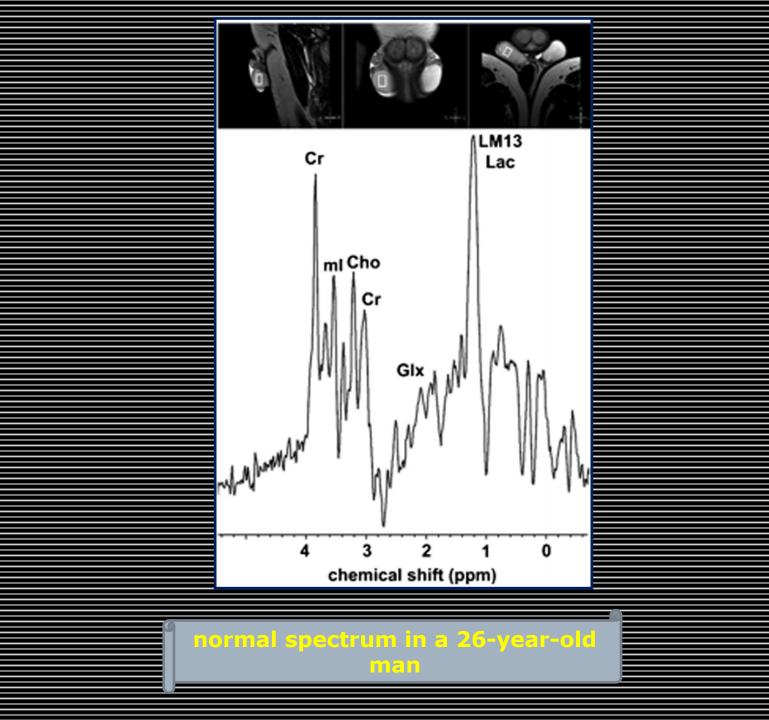
Embryonal carcinoma

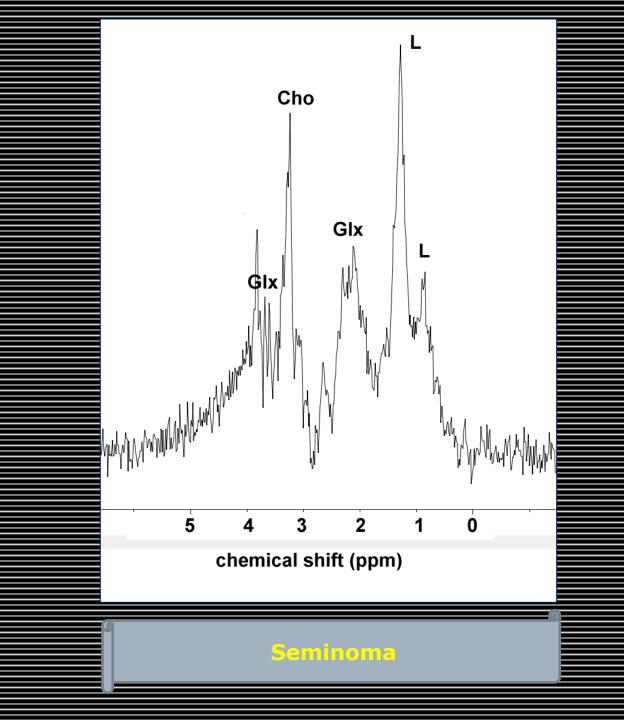


- abnormalies ??

Tsili-et-al, Eur-Radiol-2016

Baleato-Gonzalez-et-al, Clin-Radiol-2015





ESUR course 2018

ESUR Scrotal and Penile Imaging Working Group Multimodality Imaging Approach as Scrotal and Penile Pathologies

2nd ESUR teaching course

4-6 October 2018 Aegli Zappion, Athens, Greece





European Society of Urogenital Radiology





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