

62-Y OLD; RTSA 3 Y AGO



INFECTION ?



Patient History

- prior operation
- prior hematoma
- persistent pain after previous operation(s)
- elevated CRP and ESR

INFECTION OF TSA



Cut-off levels CRP, ESR (TKR!)

CRP 10 mg/L
ESR 30 mm/1h

(not sensitive)

Ghanem, JBJS 90-A: 1637, 2008
(TKR)

SUSPECTED INFECTION OF TSA

Cut-off levels synovial fluid:



- Cell count /mm³ 1100
- Neutrophils 64 %*
- α - Defensin?!**
- IL-6!***

*Ghanem, JBJS 90-A: 1637, 2008 (TKR)

**Frangiamore, JSES 24: 1021, 2015

***Frangiamore, JBJS 97:63, 2015

1st REVISION

CRP	8
ESR	12
Aspiration	dry!

Intraoperatively:
suspicion of infection
(scar, inelastic tissue, diffuse bleeding)

1st REVISION

Despite CRP 8

ESR 12

Aspiration dry

intraoperatively,
suspicion of infection

4 / 5 tissue cultures positive
for propioni acnes



INFECTION CONFIRMED: PROPIONI A.

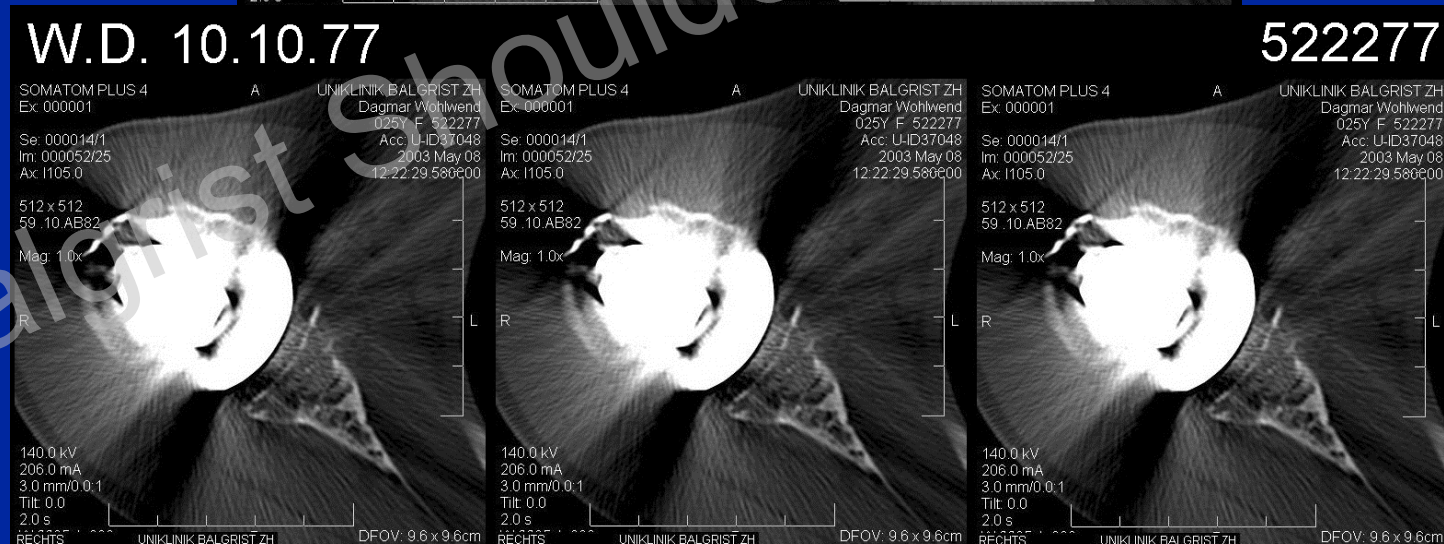
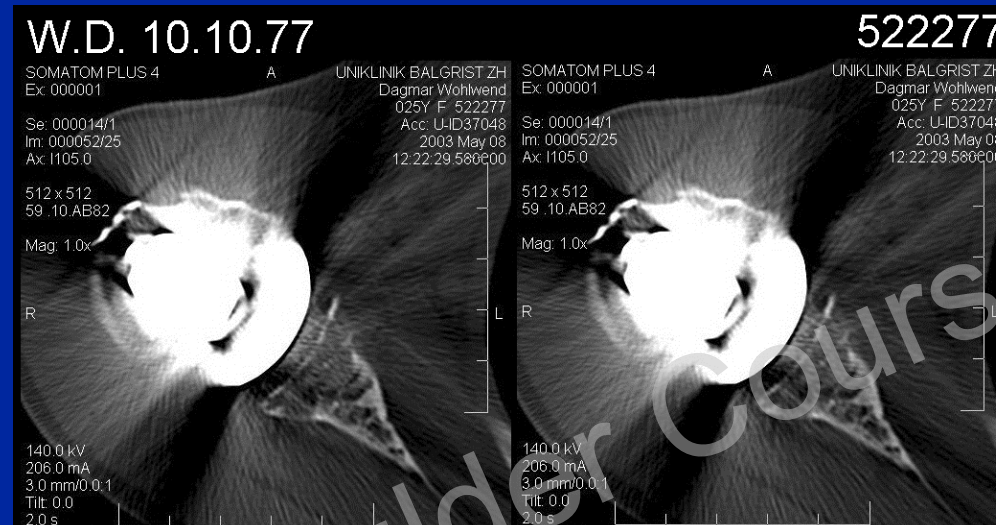


INCLINATION OF THE GLENOID



Mean β : 75°

CT FOR GLENOID LOOSENING



08.05.03

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CT FOR GLENOID DESTRUCTION

B.M.C. 21.01.75

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13.10.14

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ADDITIONAL VIEWS REDUCING METAL ARTEFACTS: GLENOID DESTRUCTION

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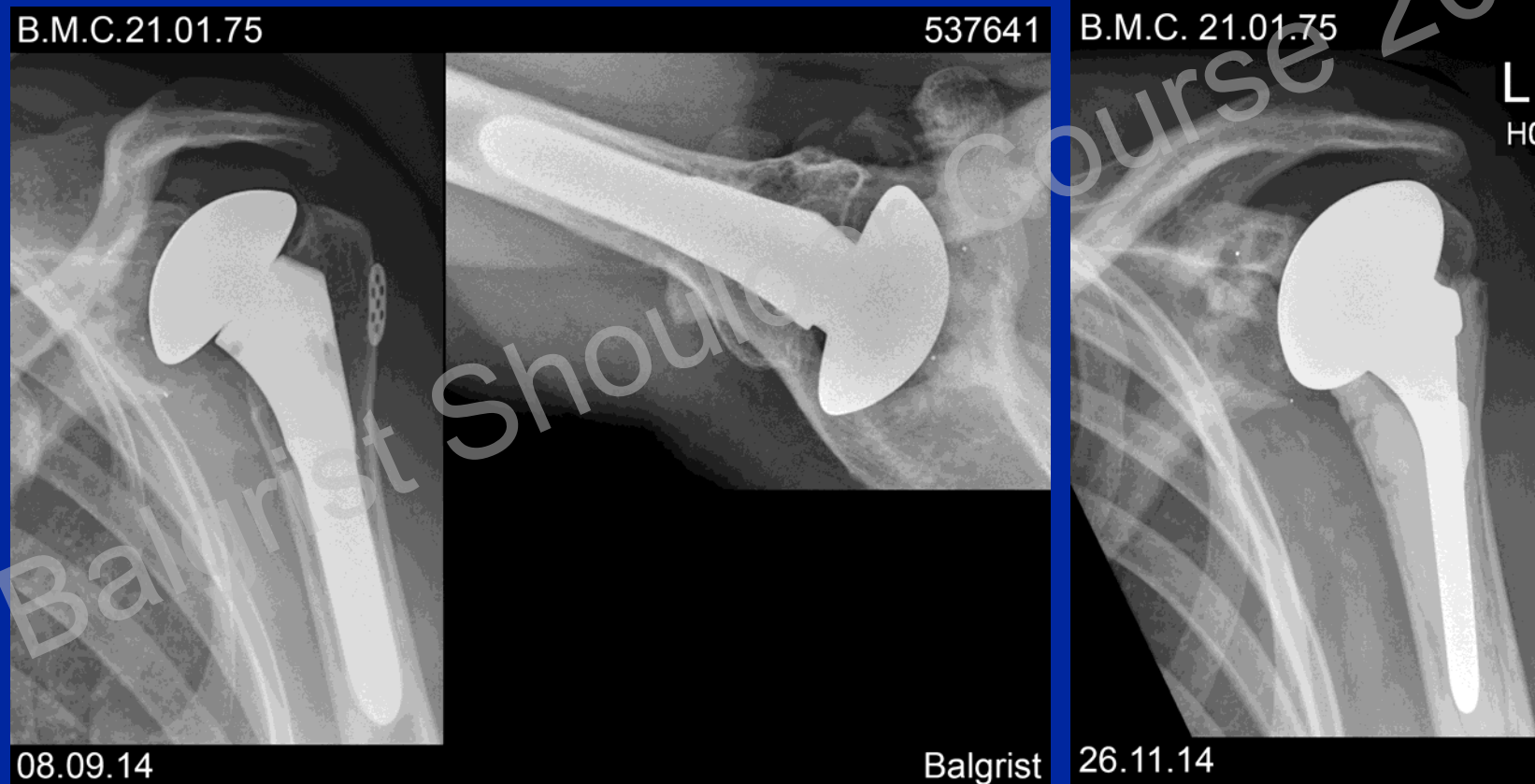
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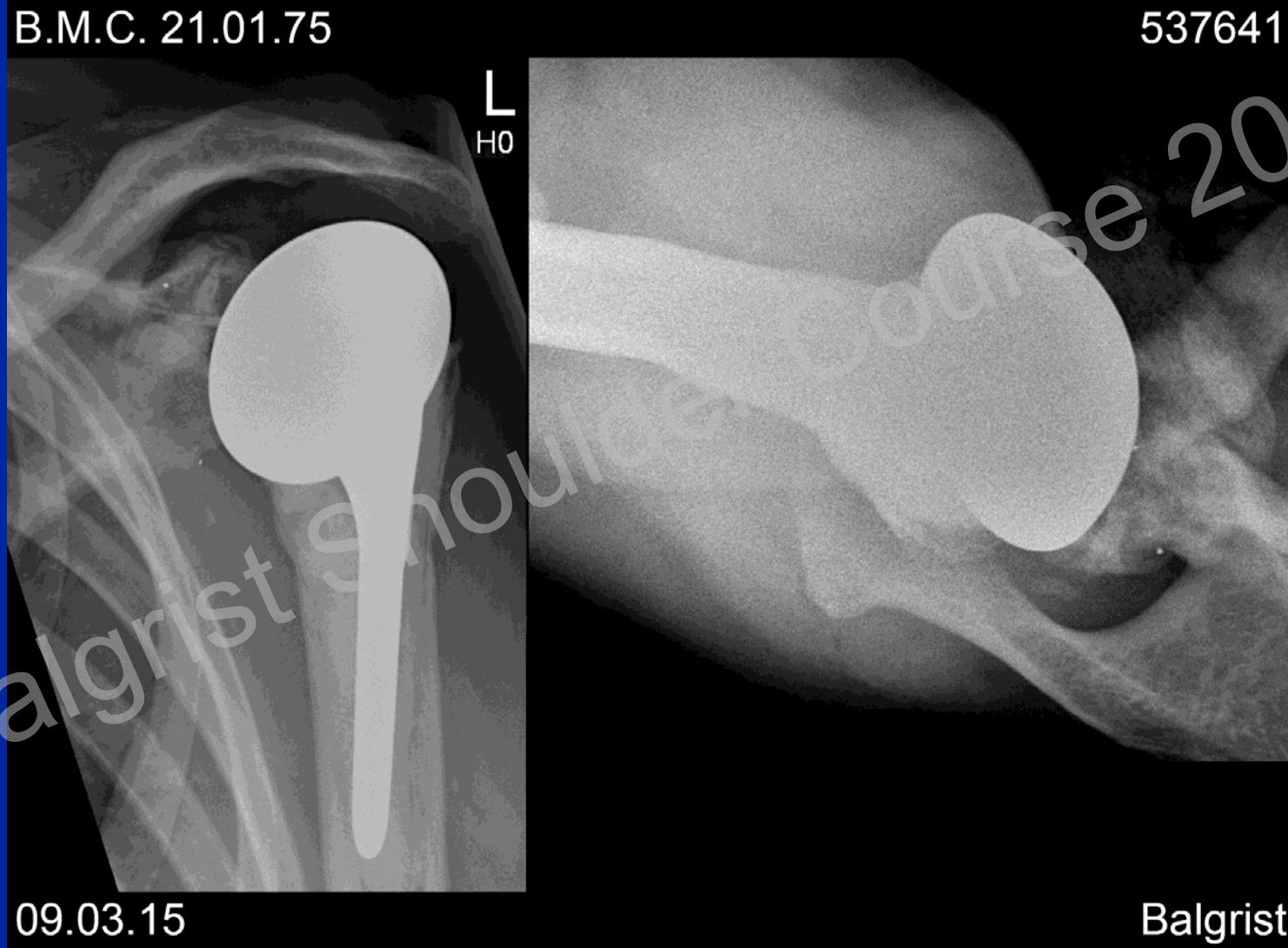
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REMOVAL OF GLENOID AND GRAFTING WITH AUTOGENOUS BONE GRAFT



4M HEMI WITH GLENOID AUTOGRAFT



FUNCTIONAL «RESULT» HEMI



2ND STAGE REIMPLANTATION OF RTSA

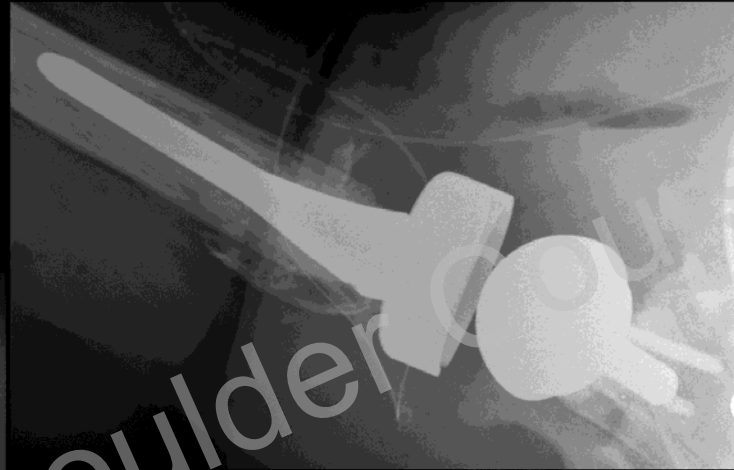
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07.04.15

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11.05.16

1 Y AFTER REIMPLANTATION



ROLE OF ARM LENGTHENING

Average arm lengthening 23 ± 12 mm
insufficient lengthening → instability

Lädermann, JSES 18: 588, 2009

Table I AAE according to arm lengthening

Arm lengthening	n (%)	AAE (°)
<0 cm	26 (14.2)	121
0 to 1 cm	30 (16.4)	140
>1 to 2.5 cm	75 (41.0)	144
>2.5 cm	52 (28.4)	147

Lädermann, JSES 21: 336, 2012

POSITION OF INSTABILITY



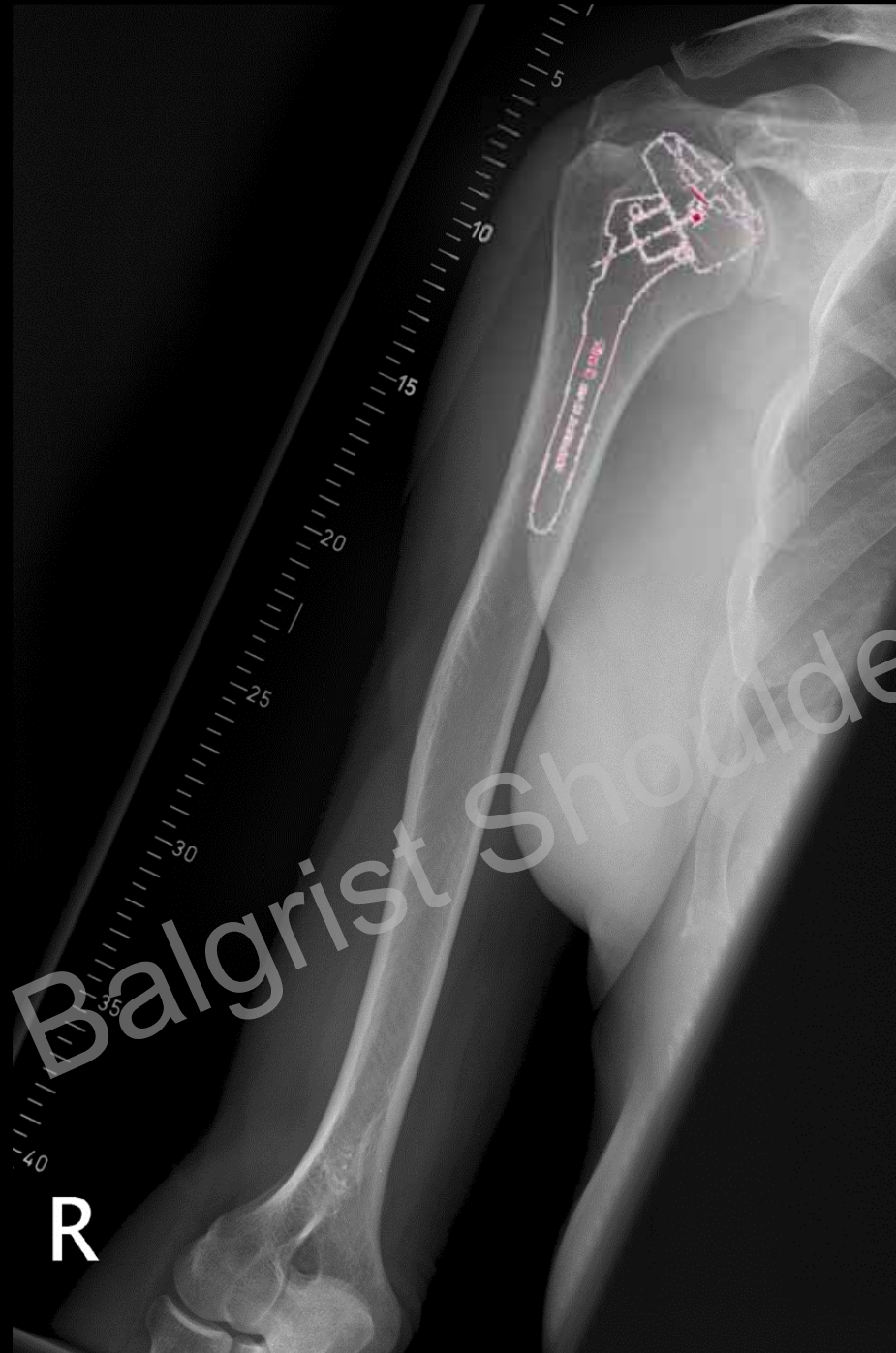
I.H. 21.02.44

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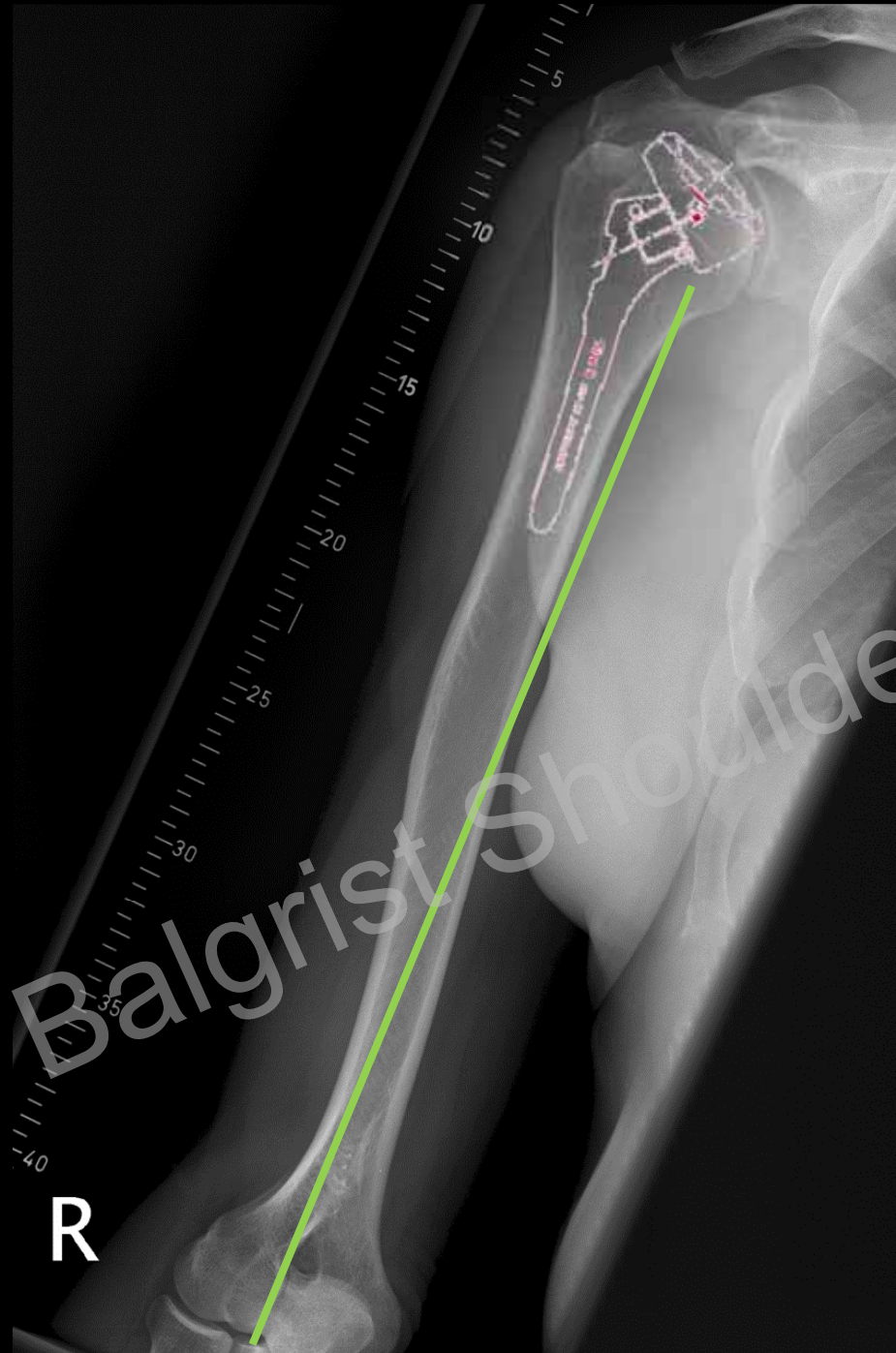
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Balgrist Shoulder Course 2017

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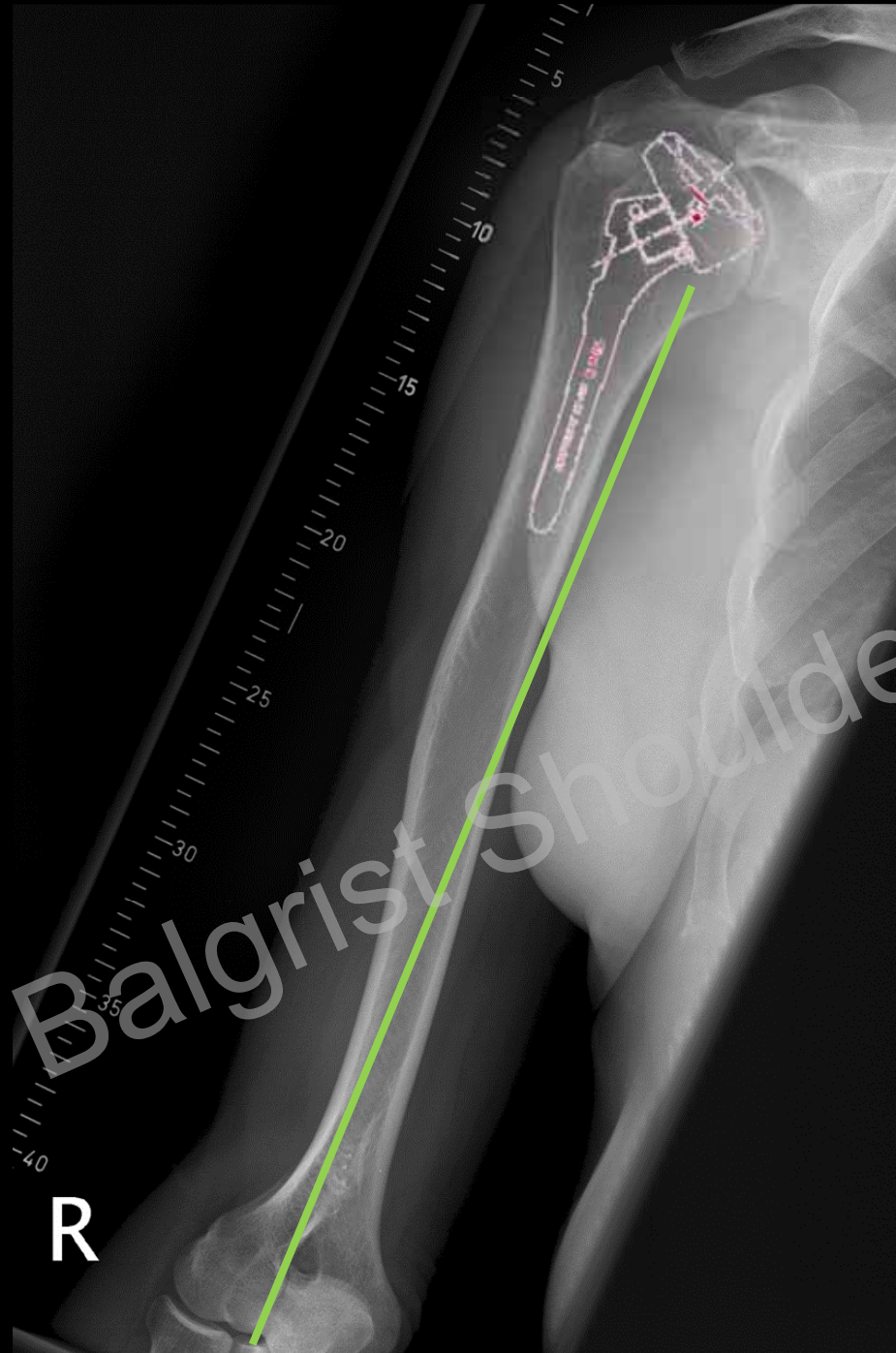
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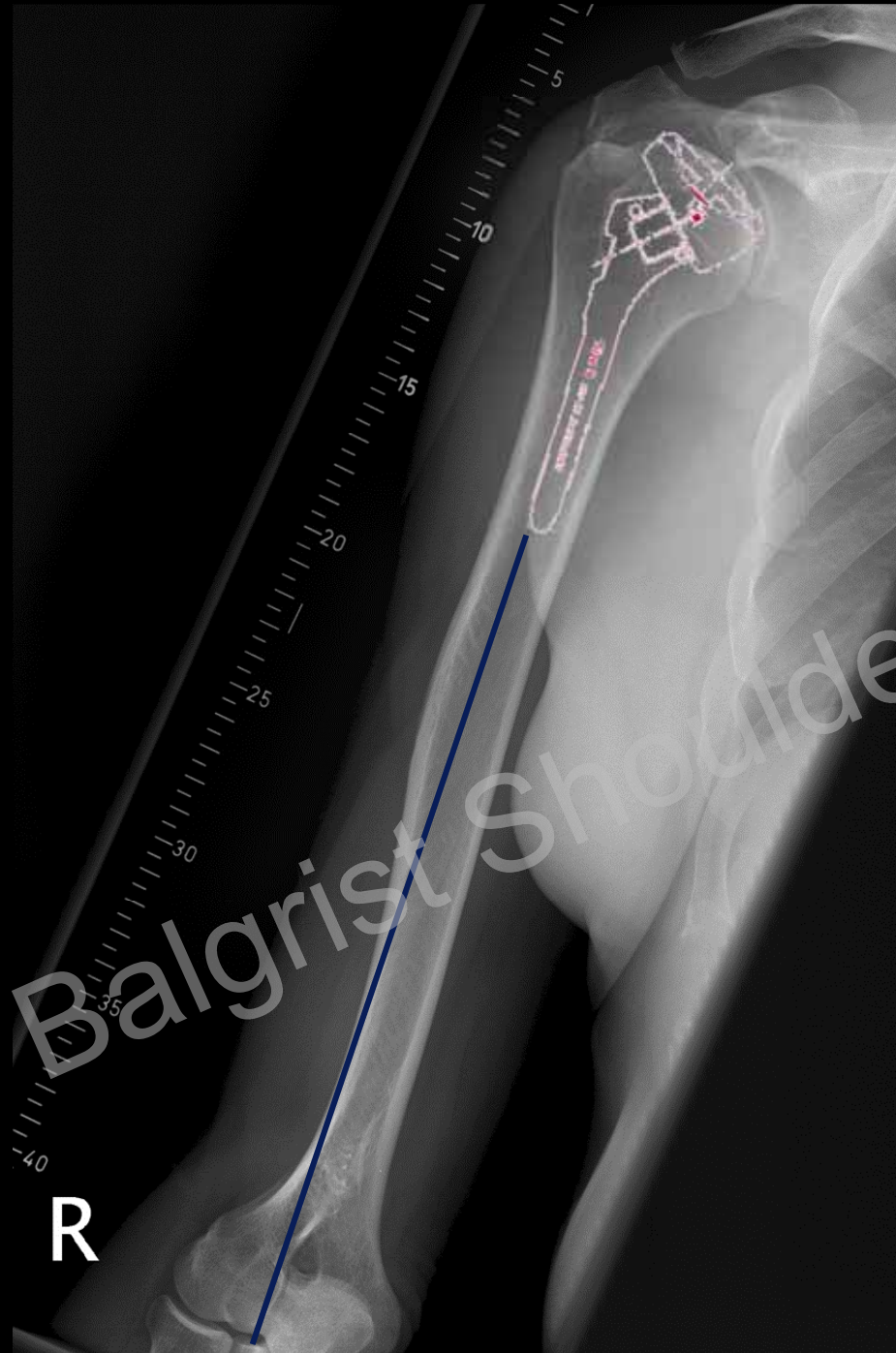
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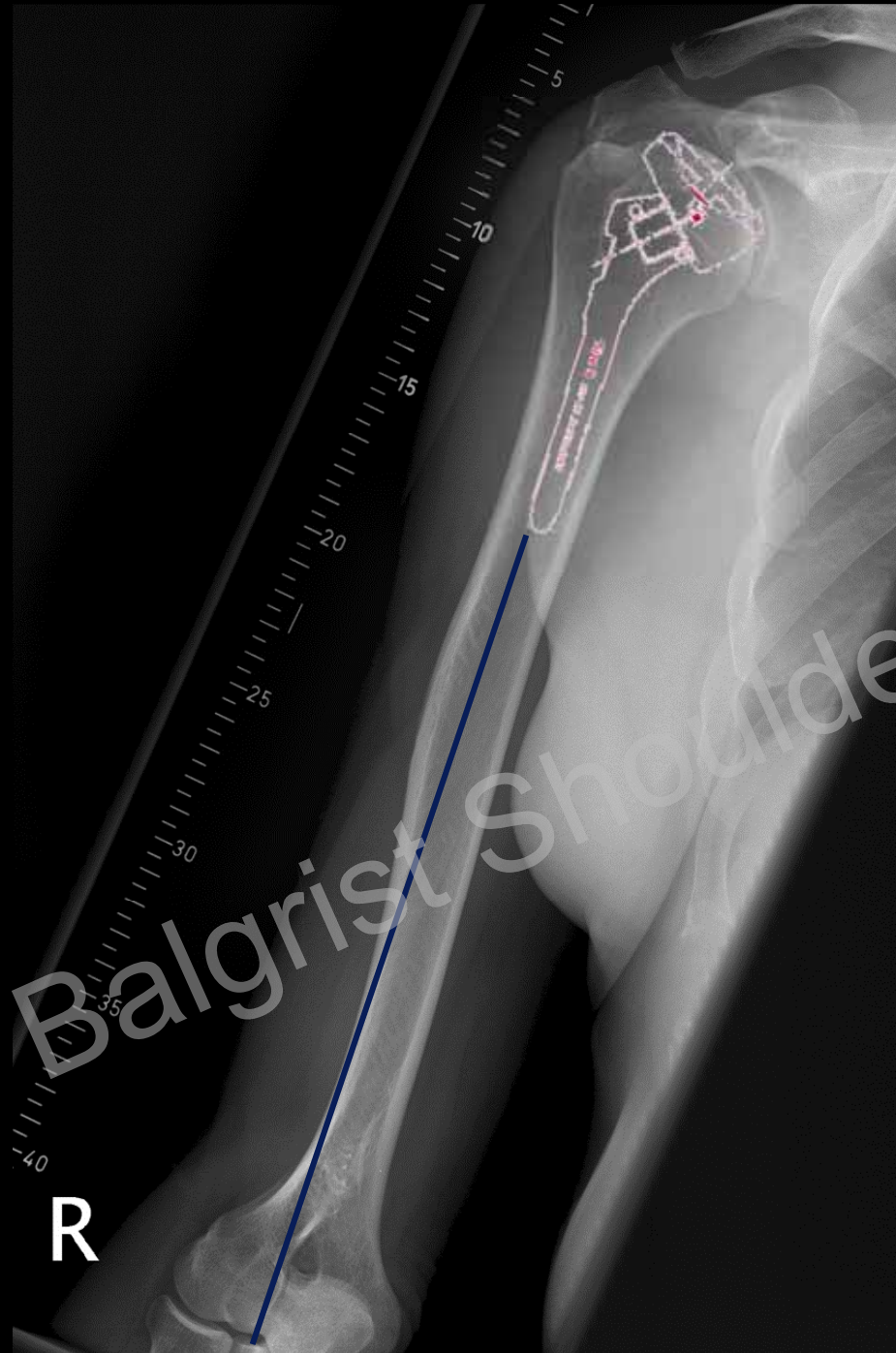
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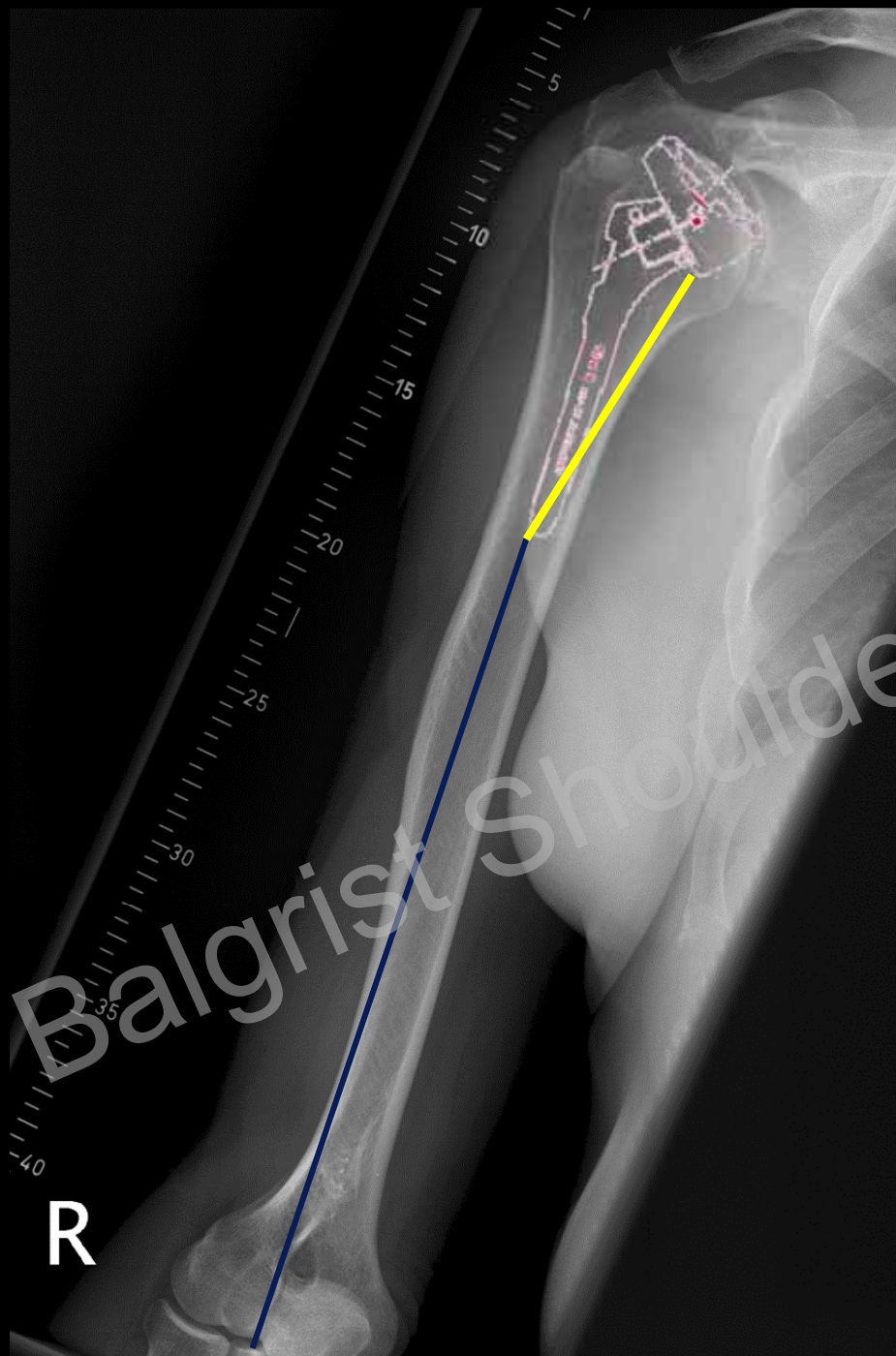
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ANTIBIOTIC PROPHYLAXIS?

Perioperative, systemic antibiotics?

YES (Ghanem, CORR 461:44, 2007)



ANTIBIOTIC PROPHYLAXIS



Perioperative, systemic antibiotics?

YES (Ghanem, CORR 461:44, 2007)

If cement with antibiotics?

YES (Gobezie, SECEC Madrid, 2009)

Engesaeter, Acta Scand 2003)

Chiu, JBJS 91-A: 628, 2009),

Vancomycin powder ?

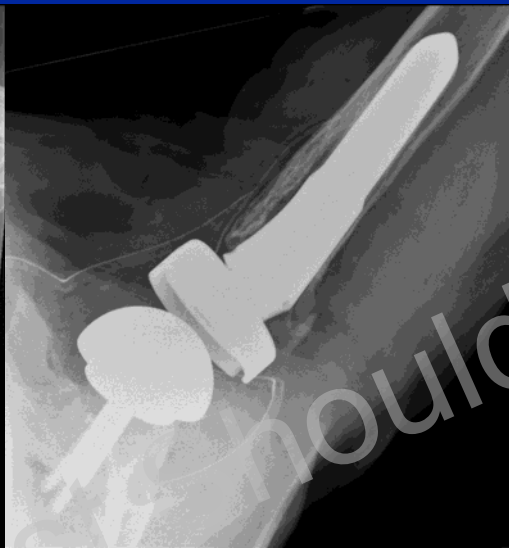
INFECTION CONFIRMED: PROPIONI A.



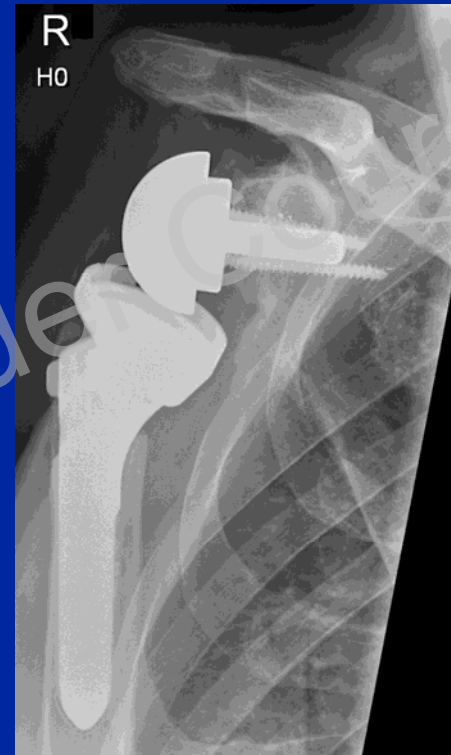
POSTOP & 1 Y AFTER ILIAC BONE GRAFT AND RTSA



07.03.16



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13.02.17



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1 y AFTER ILIAC BONE GRAFT AND RTSA



3 M F-UP REVISION RTSA LEFT SIDE



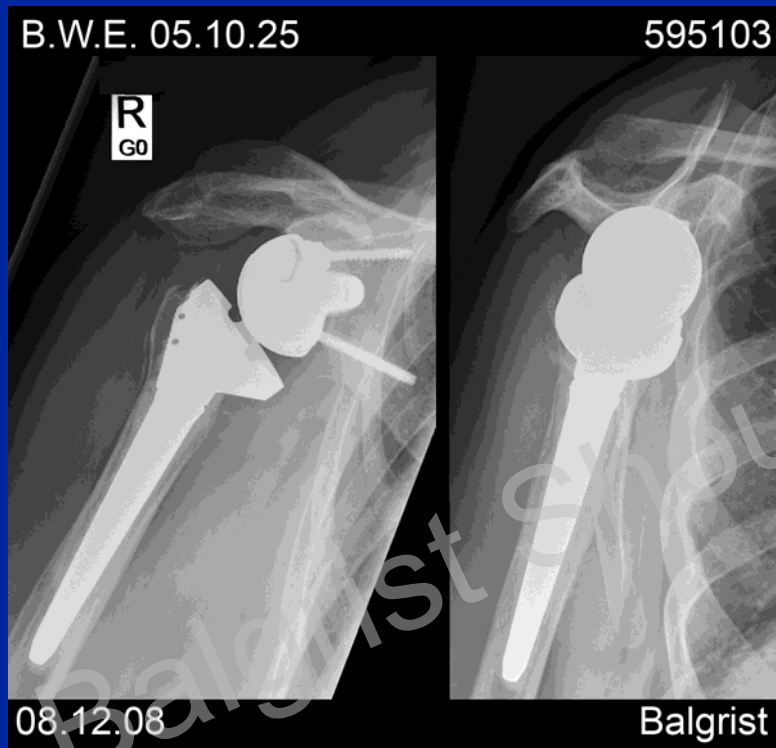
RTSA REVISION

**We always try
to go
back to RTSA
even
if the road is long...**





3-Y F-UP RIGHT SIDE (!)



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6 Y F-UP REVISION RTSA



6 Y F-UP REVISION RTSA RIGHT SIDE

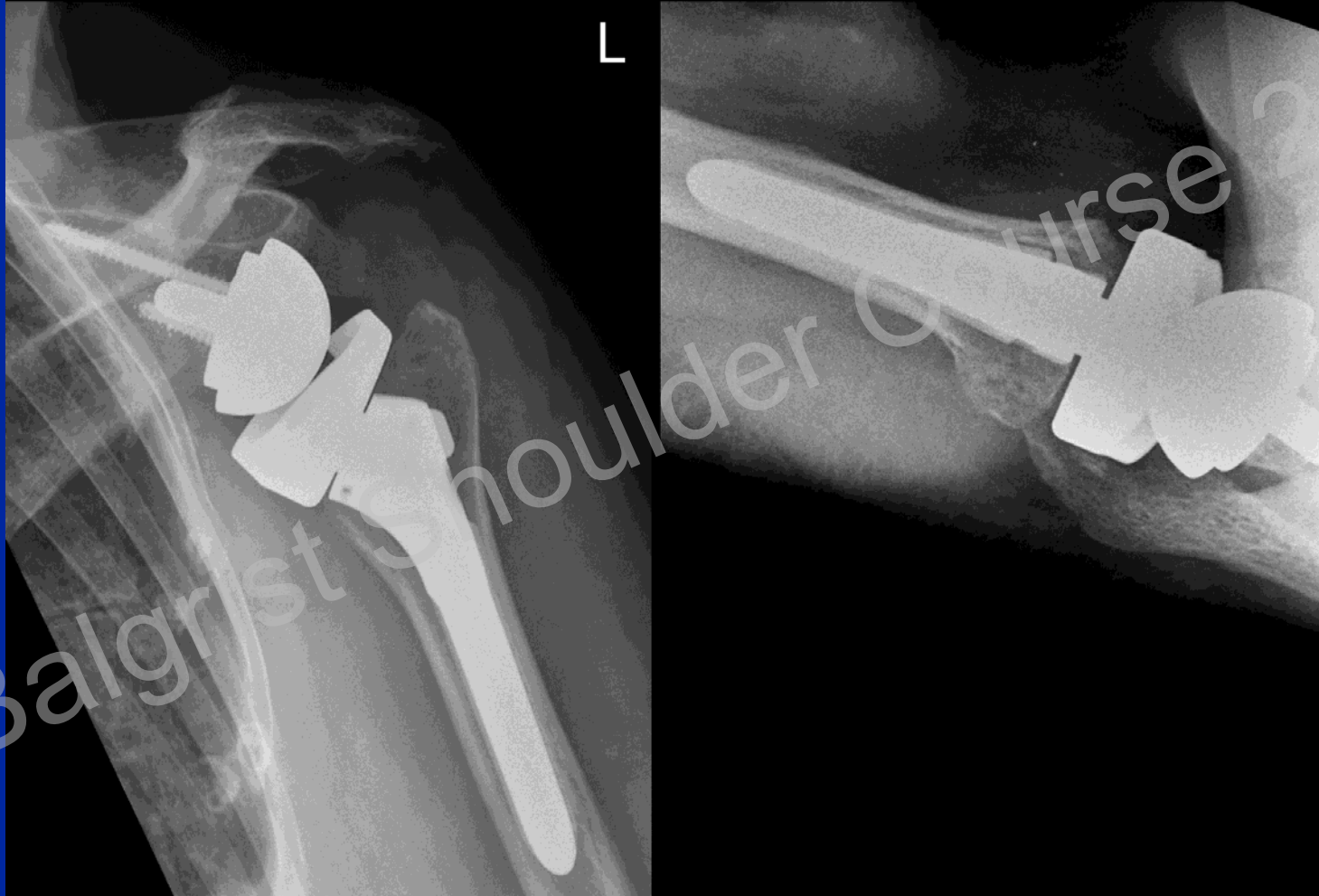




REVISION WITH TRABECULAR METAL GLENOID AND AUTOGENOUS BONE GRAFT

B.W.E. 05.10.25

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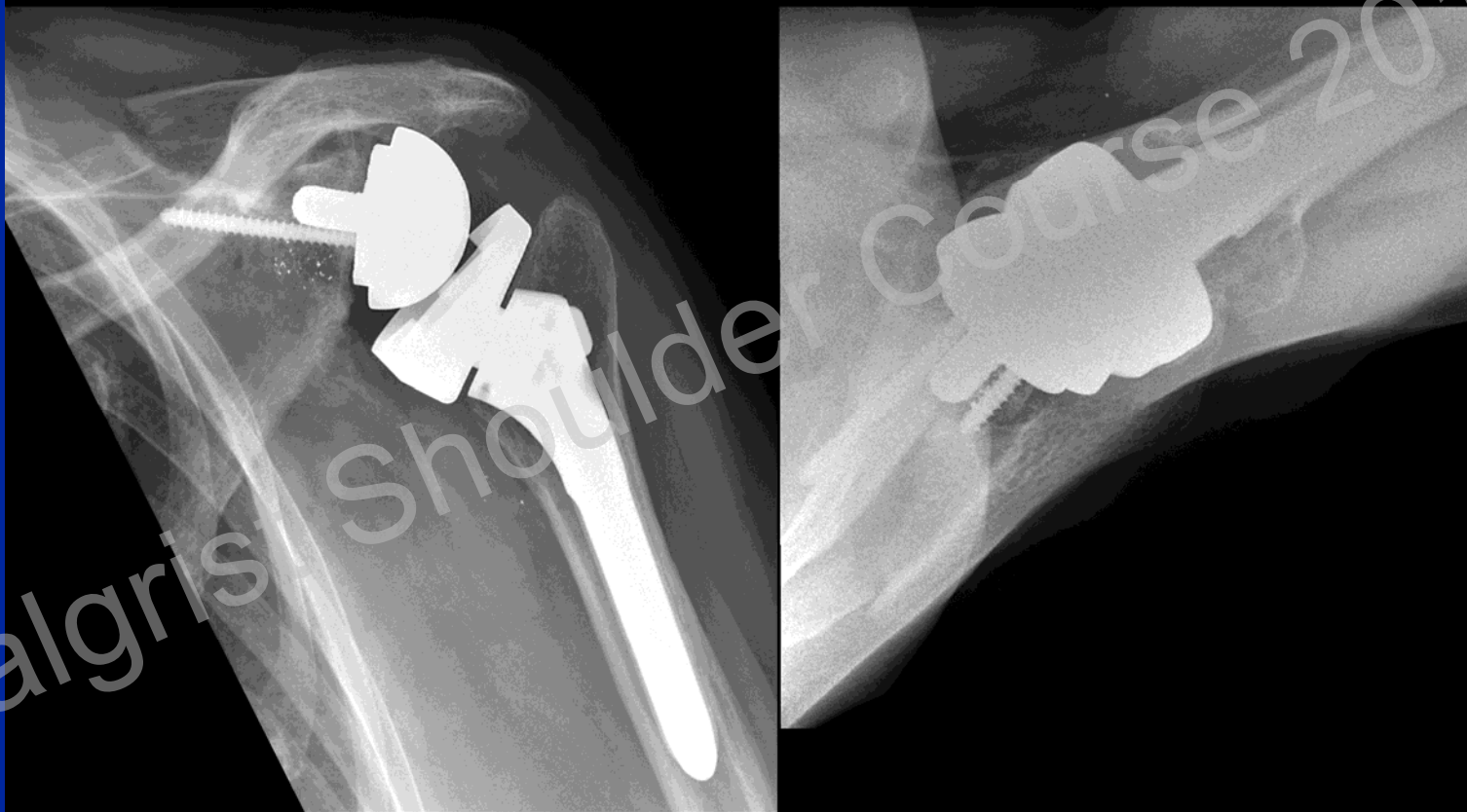
02.09.09

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SUDDEN PAIN 5 MONTHS POSTOP

B.W.E. 05.10.25

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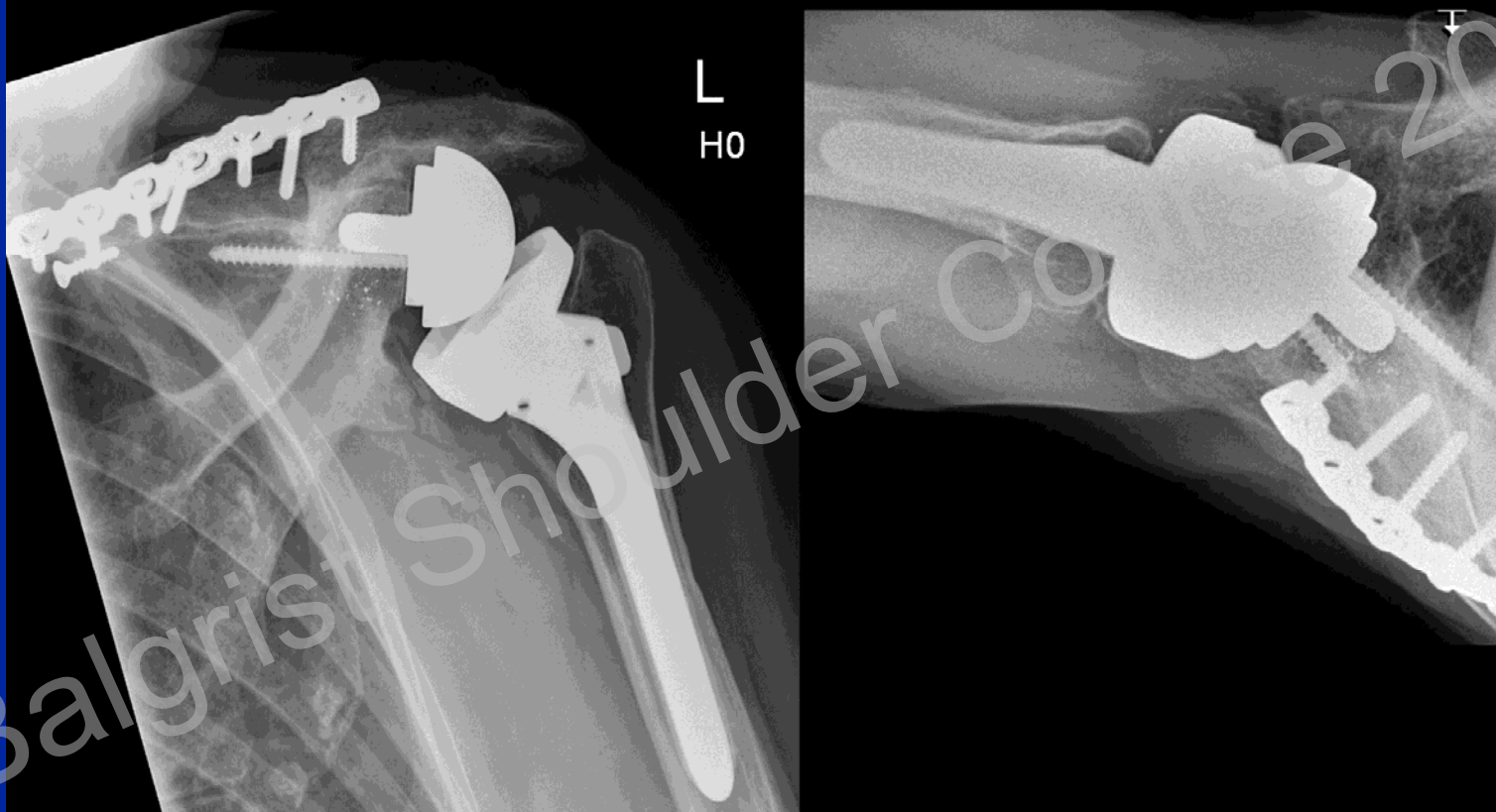
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23.11.11

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