

Specific of pediatric surgery



III. Year - volume

Anamnesis

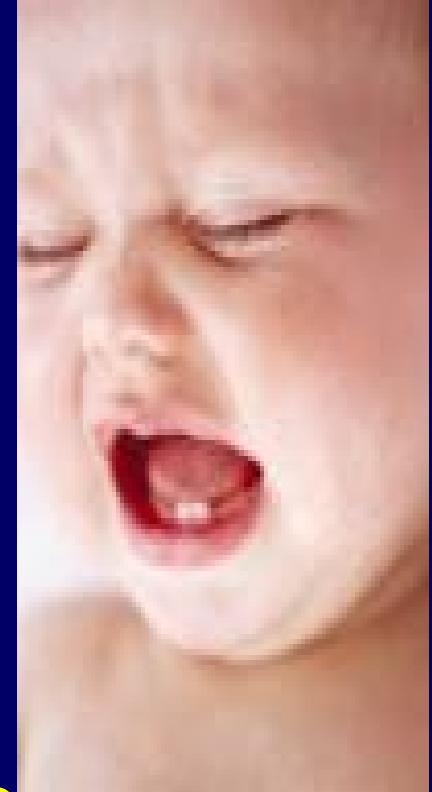
- Family anamnesis
- Personal anamnesis
- Epidemiological anamnesis
- Pharmacological anamnesis
- Allergic anamnesis
- Fyziological functions
- (*Gynecological anamnesis*)



Anamnesis



- About birth
- Contact with infection
- DMO, PMR, obesity
- Psychical and social status
- Undirect anamnesis
- With child only supplementary questions
- Child abuse and negleck (CAN) – be carefull

- Behaviour
 - spontaneous
 - Fear
 - Change reactions without parents
 - State of consciousness
 - We can wake up from the sleep
 - Infants don't respond to verbal irritation
 - We examine reflexes (mammilingus, defense,...)
- 



Aspectation

- Hematoma - CAN
- Head - shape, size – congenital deformities
- Chest - pectus excavatum x carinatum
- Abdomen – ventral hernias, umbilicus

Percussion

- Head – pain, impression
- Chest
 - Hypersonorous
 - pneumothorax
 - Hyposonorous
 - Hydrothorax, infiltration
 - Cardial shadow – change of index,location
 - Kardiomyopahia, big vessels transposition
- Abdomen
 - Hypersonorous
 - Pneumoperitoneum, ileus, enteral colic - tormina
 - Hyposonorous
 - Ascites, hemoperitoneum, infiltration

Auscultation

- Neck – a. carotis communis - stenosis
- Chest
 - Pneumothorax
 - Diminished breathing or nothing
 - Hydrothorax
 - Damped breathing
 - Inflammatory or spastic phenomena
- Abdomen
 - Normal peristalsis
 - Intensive peristalsis
 - Ileus obstructive
 - Deadly silence
 - Ileus - paralysis

Palpation

- Head
 - Big fontanella, impressions
- Chest
 - Ribs fracture, lymphatic nodes
- Abdomen
 - First we examine supposed painless region
 - Blumberg, Plenies, Murphy, Tapott
- Extremities

Specialities of children

- Injuries
- Congenital defects
- Infections
- Tumours

Head

- Hydrocephalus – head circumference
- Craniostenosis – premature closing of big fontanella, small head circumference
- Fissures – lip, palate, mandible, jaw bone

Neck

- Persistant branchial arcus (cysts, fistulas)
- Congenital torticollis

Chest

- Pectus excavatum x carinatum
- Peristalsis in chest cavity – diaphragmatic hernia
- Congenital heart defects
- CAN - multiple ribs fracture

Abdomen

- Ventral hernias
- Omphalocele – persistant yolk sac
- Gastroschisis

Limbs

- Luxatio perianularis (RU joint)
 - Willow stick fracture
 - Epiphyseolysis
-
- Good and fast healing
 - Great ability of remodeling

Gastrointestinal

- Atresia of oesophagus – salivation after the birth polyhydramnion, we can't establish NG tube
- Atresia of duodenum – double bubble on X ray vomiting, polyhydramnion
- Necrotic enterocolitis
- Meconium ileus – CF
- Atresia of anus
- Burn of GIT
- Foreign body of GIT

Respiratory system

- Cystic fibrosis
- Bronchopulmonary dysplasia (33. w.g.)
- Laryngitis
- Foreign bodies

Excretory system

- Hydronephrosis
- Wilms tumour
- VUR
- Hypospadias
- Stenosis of urethra
- Testicular retention

Nervous system

- Hydrocephalus
- Meningomyelocele
- Tumours – gliomas
- Craniostenosis
- Child cerebral palsy
- Light cerebral dysfunction

Musculoskeletal system

- Coxa vara
- Aseptic necrosis of femoral head
- Pes equinovarus
- Morbus Oosgod – Schlatter
- Spastic contractures
- Cysts and tumours (Ewing)

Diagnostic test

Case 1

- Bend over
- Subfebrilia
- Emesis
- Pain in right hypogastric region
- Anamnesis cca 3 hours
- Sonografic examination negative
- CRP 12
- WBC 6,4

- Appendicitis acuta

Case 2

- Age 3 years
 - Diarrhoea with blood
 - Abdominal bloating
 - Emesis
 - Intensive peristalsis
 - Sonographic examination positive
-
- Intussusception

Case 3

- Header
- 4 s unconsciousnessd
- Somnolence
- Emesis
- Headache
- X ray negative
- CT positive

- Epidural hematoma

Case 4

- Fall from a tree
 - Left side of body impact
 - Urine without erythrocytes
 - Pallor
 - Pain of left shoulder
 - Ultrasonography positive
 - CT positive
 - RBC decline
 - Lienal rupture
-

Radiodiagnostic test

ID:078500

Kvas Michal

Narozen:1989-03-24

Datum:2005-01-02

Cas:18:39:17

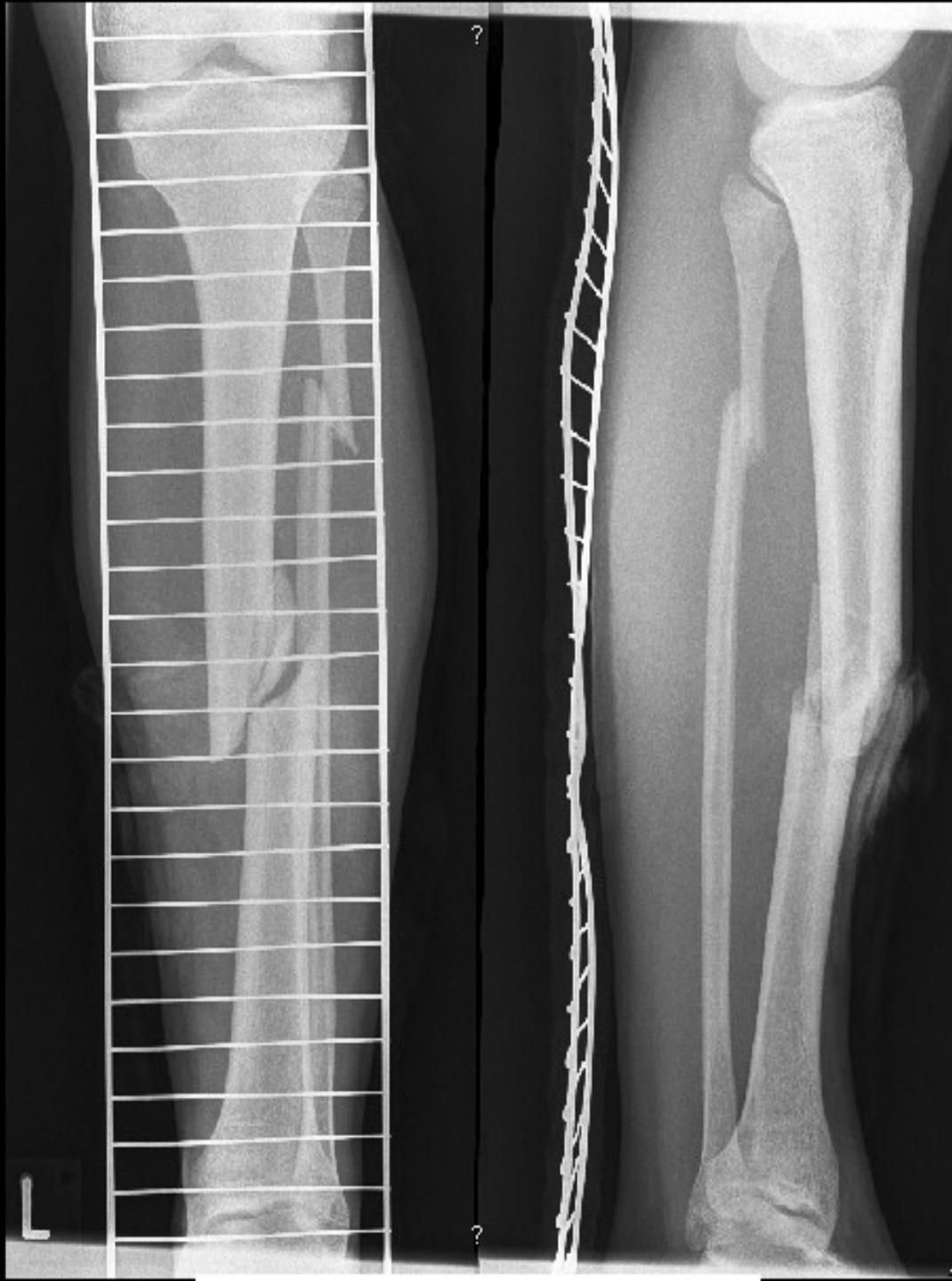
No.1

Q: 80% 

FN Brno -Detska nemocnice

ADC_5146

1



C: 2583

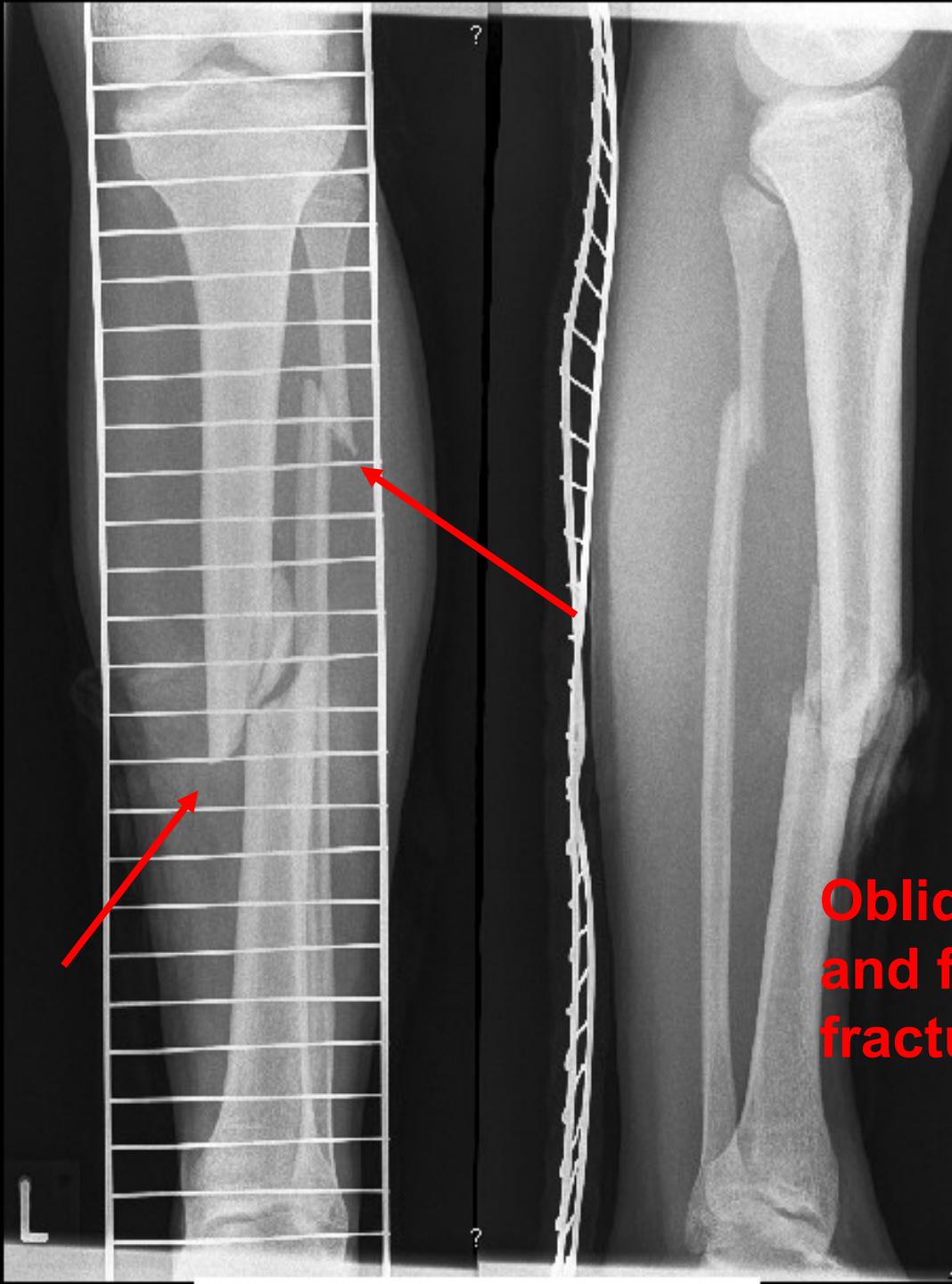
W: 2635

ID:078500
Kvas Michal
Narozen:1989-03-24
Datum:2005-01-02
Cas:18:39:17
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

1



**Oblique tibial
and fibular
fracture**

C: 2583
W: 2635

ID:078500
Kvas Michal
Narozen:1989-03-24
Datum:2005-01-04
Cas:08:51:47
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146



C: 2660
W: 2061

ID:078500

Kvas Michal

Narozen:1989-03-24

Datum:2005-01-04

Cas:08:52:11

No.1

Q: 80% 

FN Brno -Detska nemocnice

ADC_5146



**Elastic stable
intramedullary
nailing (ESIN)
Prevot nails**

C: 2745

W: 1684

ID:880310/4464
Lechner Jan
Narozen:1988-03-10
Datum:2005-09-12
Cas:08:48:22
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

2



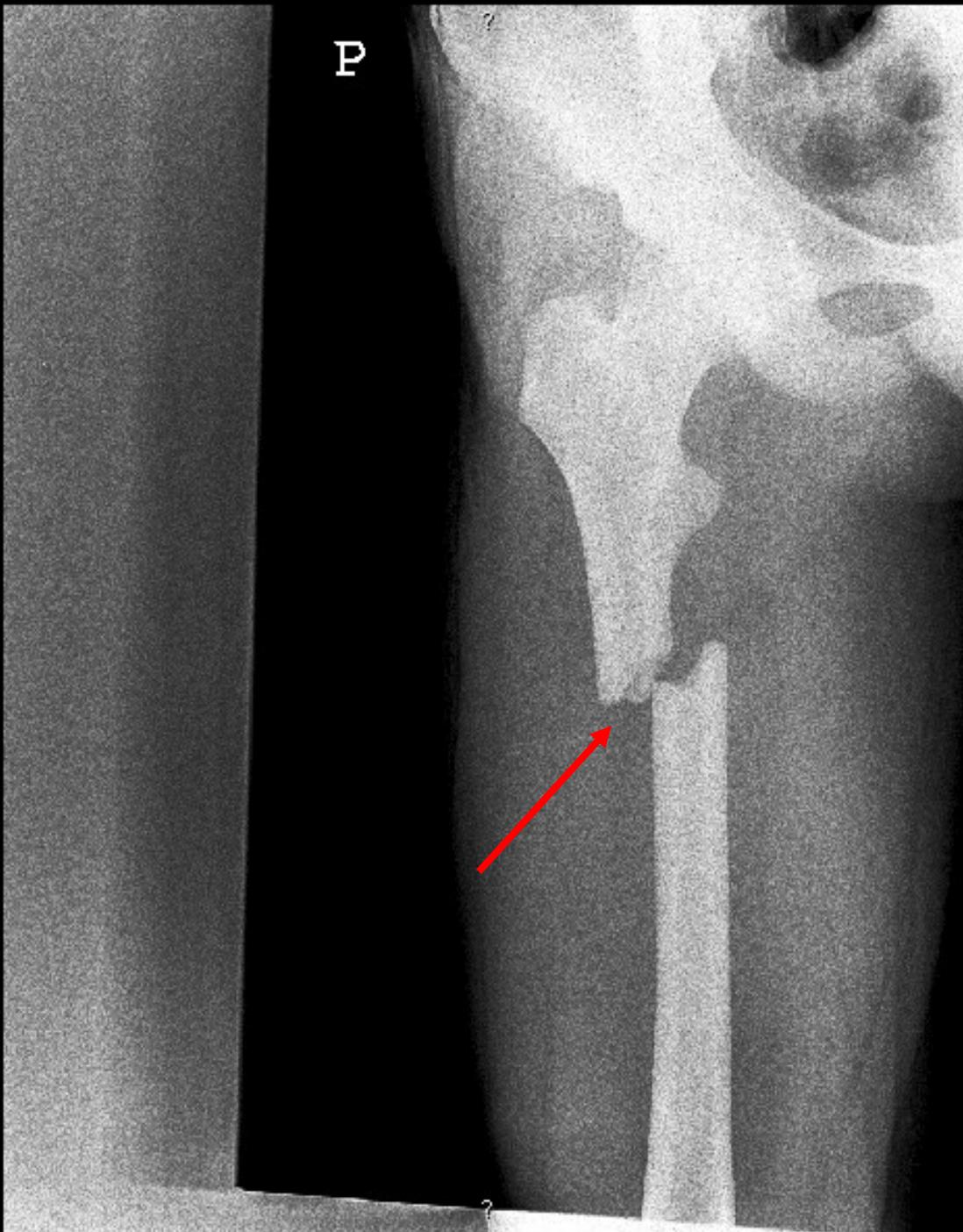
C: 1952
W: 1206

ID:880310/4464
Lechner Jan
Narozen:1988-03-10
Datum:2005-09-12
Cas:08:48:22
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

2



**Femoral
fracture –
proximal
diaphysis**

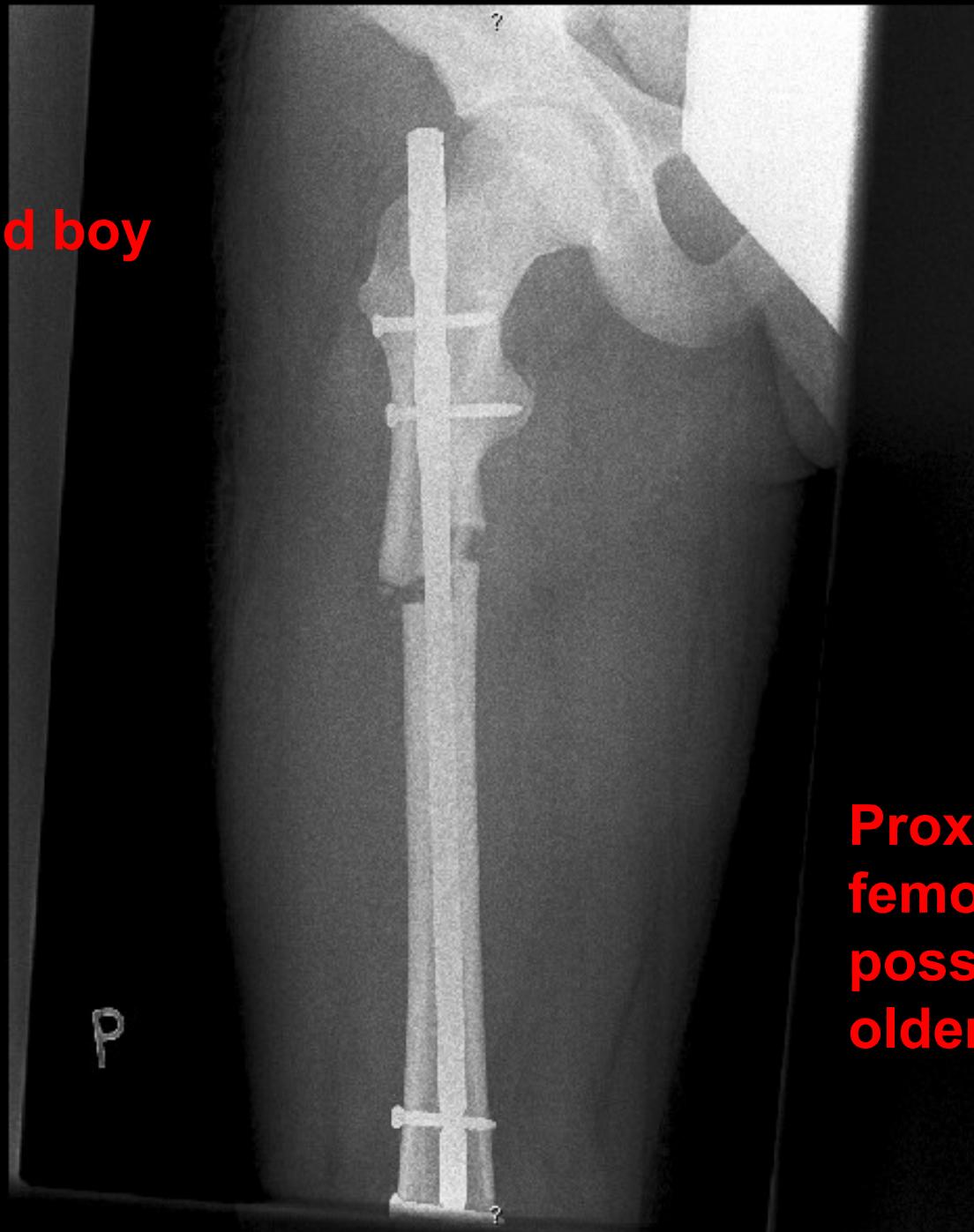
C: 1952
W: 1206

ID:880310/4464
Lechner Jan
Narozen:1988-03-10
Datum:2005-09-14
Cas:08:11:16
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

17 years old boy



**Proximal
femoral nail –
possible by
older children**

C: 2450
W: 1830

ID:880310/4464
Lechner Jan
Narozen:1988-03-10
Datum:2005-09-14
Cas:08:15:30
No.1

?

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146



?

C: 2375
W: 1252

ID:007939

Tenora Karel

Narozen:1998-04-17

Datum:2005-05-14

Cas:17:25:20

No.1

?

Q: 60%



FN Brno -Detska nemocnice

ADC_5146

3

?

?

?

C: 3572

W: 1198

ID:007939

Tenora Karel

Narozen:1998-04-17

Datum:2005-05-14

Cas:17:25:20

No.1

?

Q: 60%



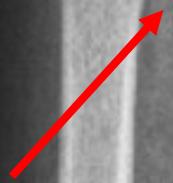
FN Brno -Detska nemocnice

ADC_5146

3

?

?



?

C: 3572

W: 1198

ID:007939

Tenora Karel

Narozen:1998-04-17

Datum:2005-05-14

Cas:17:25:20

No.1

Q: 60% !

FN Brno -Detska nemocnice

ADC_5146

Green stick fracture



C: 3572

W: 1198

ID:920504/4222
Vodicka Jiri
Narozen:1992-05-04
Datum:2005-09-02
Cas:19:01:11
No.1

Q: 80% 
?

FN Brno -Detska nemocnice
ADC_5146

4



P

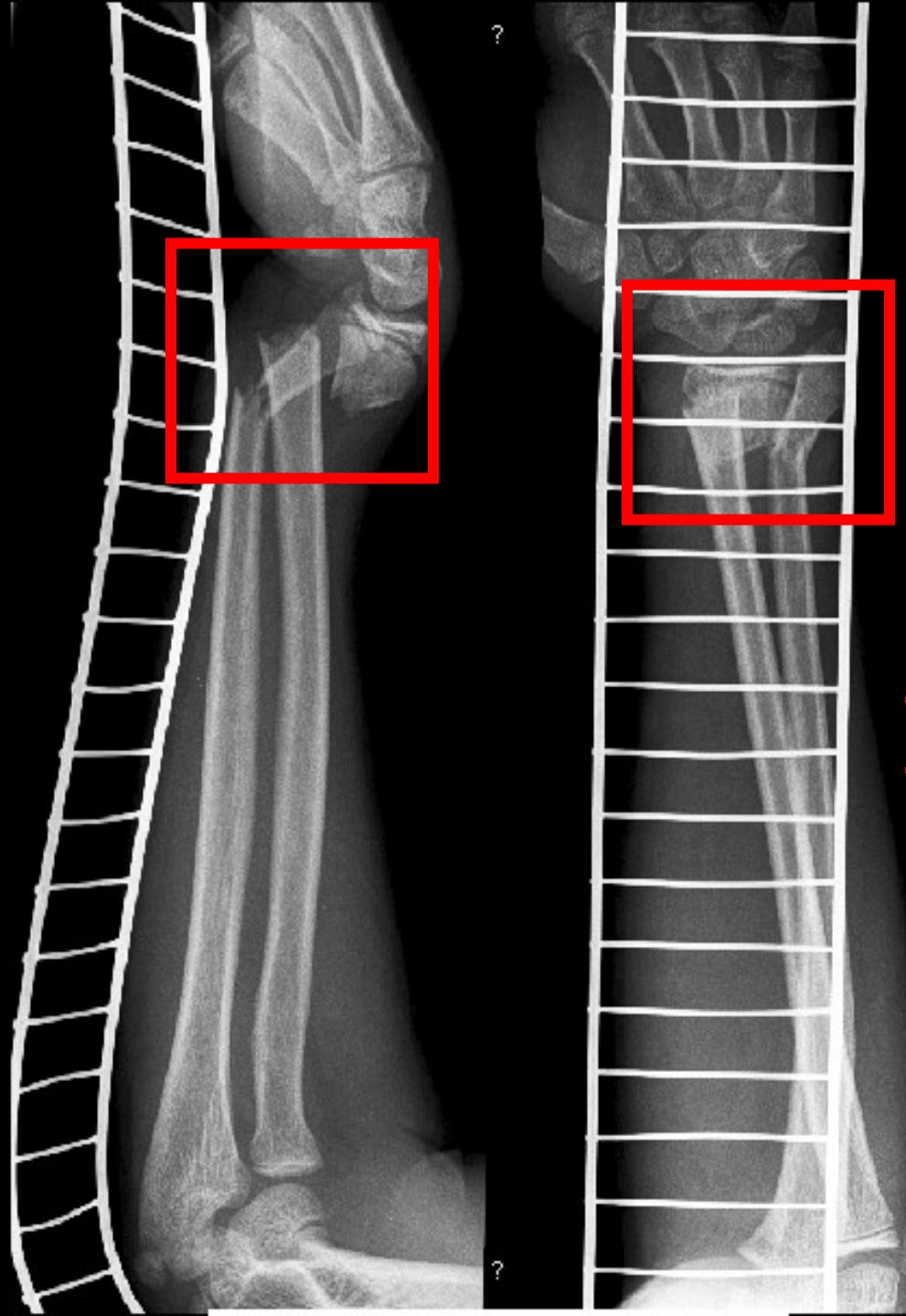
C: 3405
W: 1047

ID:920504/4222
Vodicka Jiri
Narozen:1992-05-04
Datum:2005-09-02
Cas:19:01:11
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

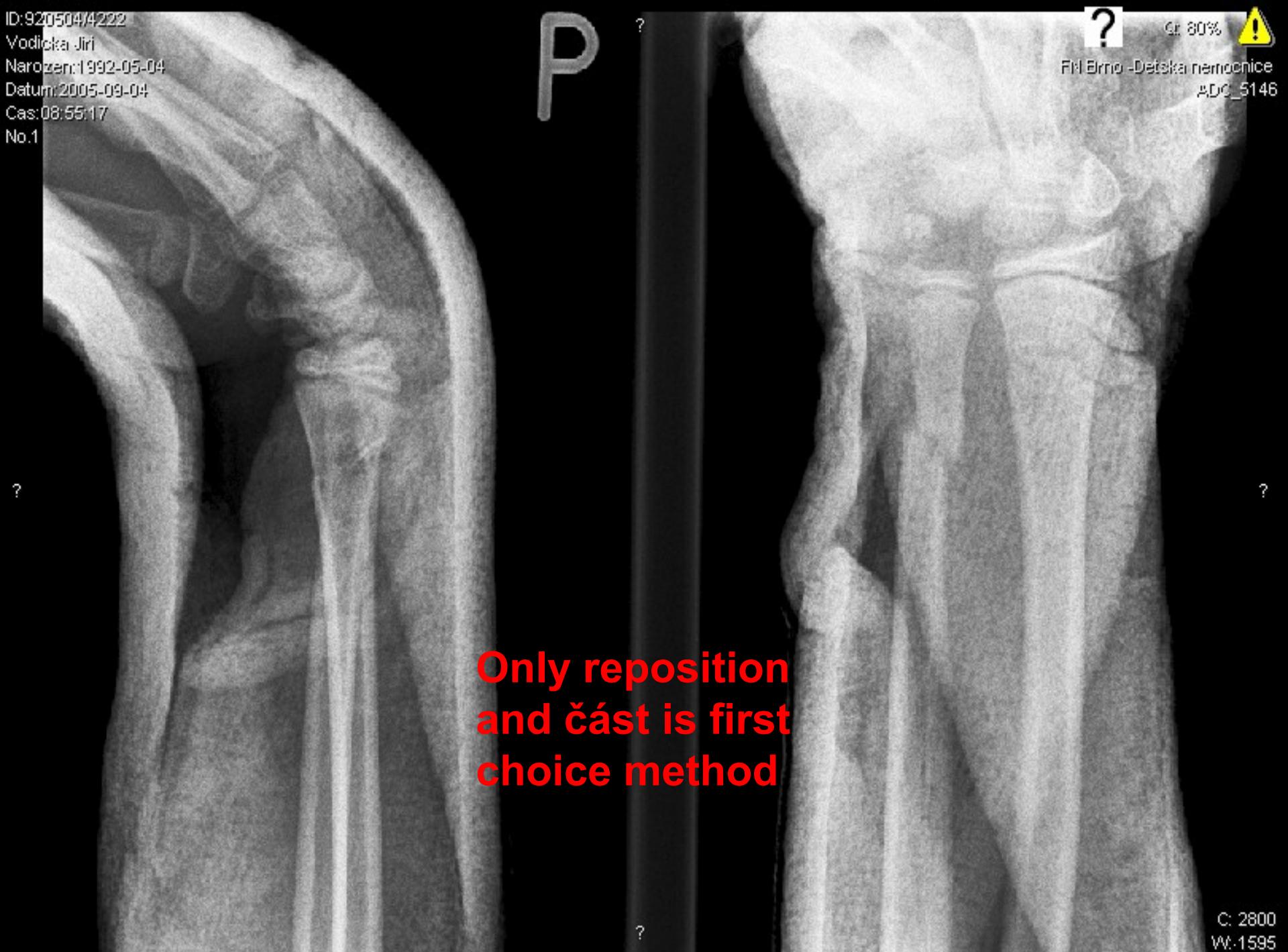
4



Distal
metaphyseal
fracture of
forearm

P

C: 3405
W: 1047



ID:920504/4222
Vodicka Jiri
Narozen:1992-05-04
Datum:2005-09-04
Cas:08:55:17
No.1

P

?

at 60%



RH Brno -Detska nemocnice
ADC_5146

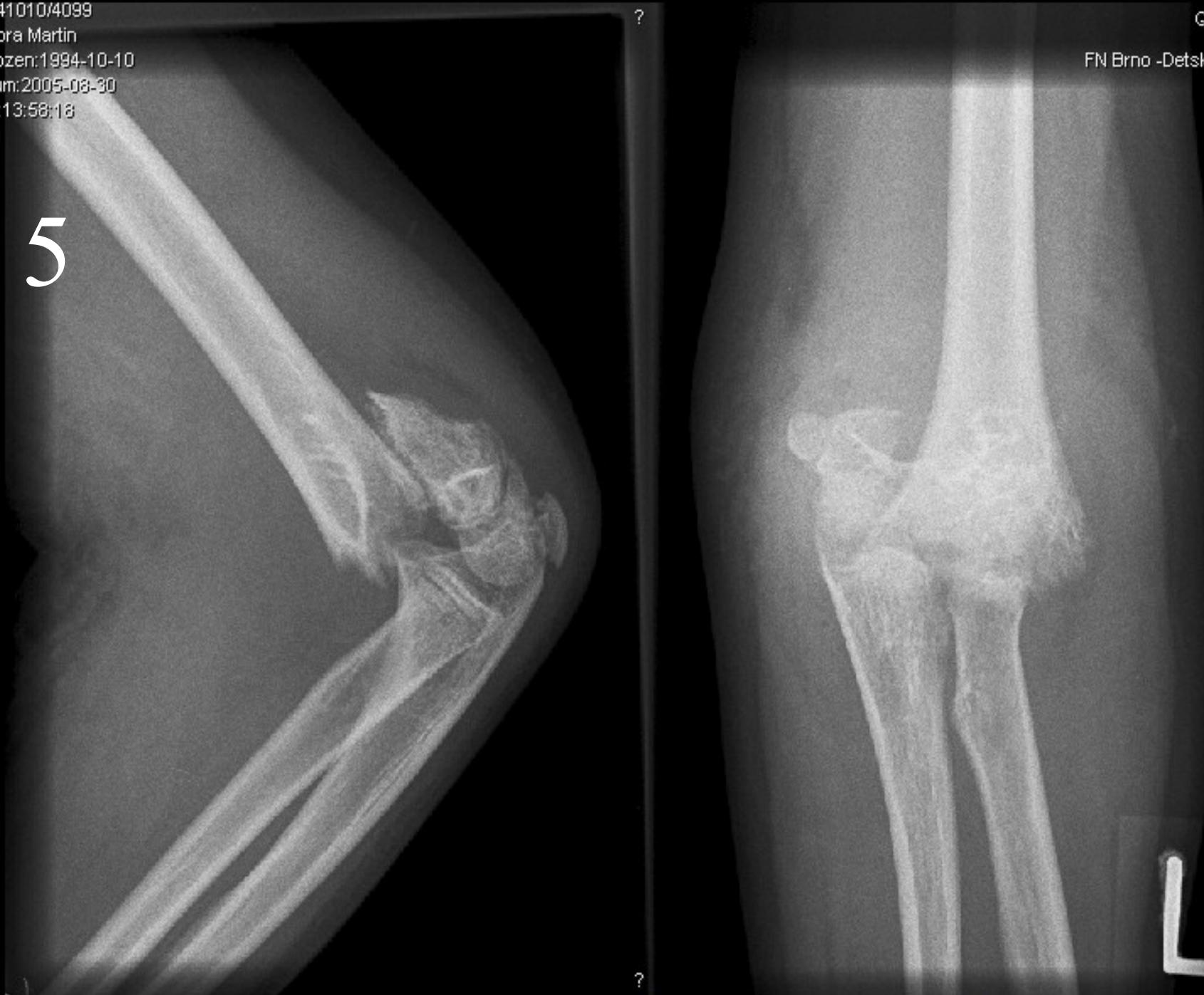
C: 2800
W: 1595

ID:941010/4099
Fasora Martin
Narozen:1994-10-10
Datum:2005-08-30
Cas:13:58:18
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

5



C: 2887
W: 1769

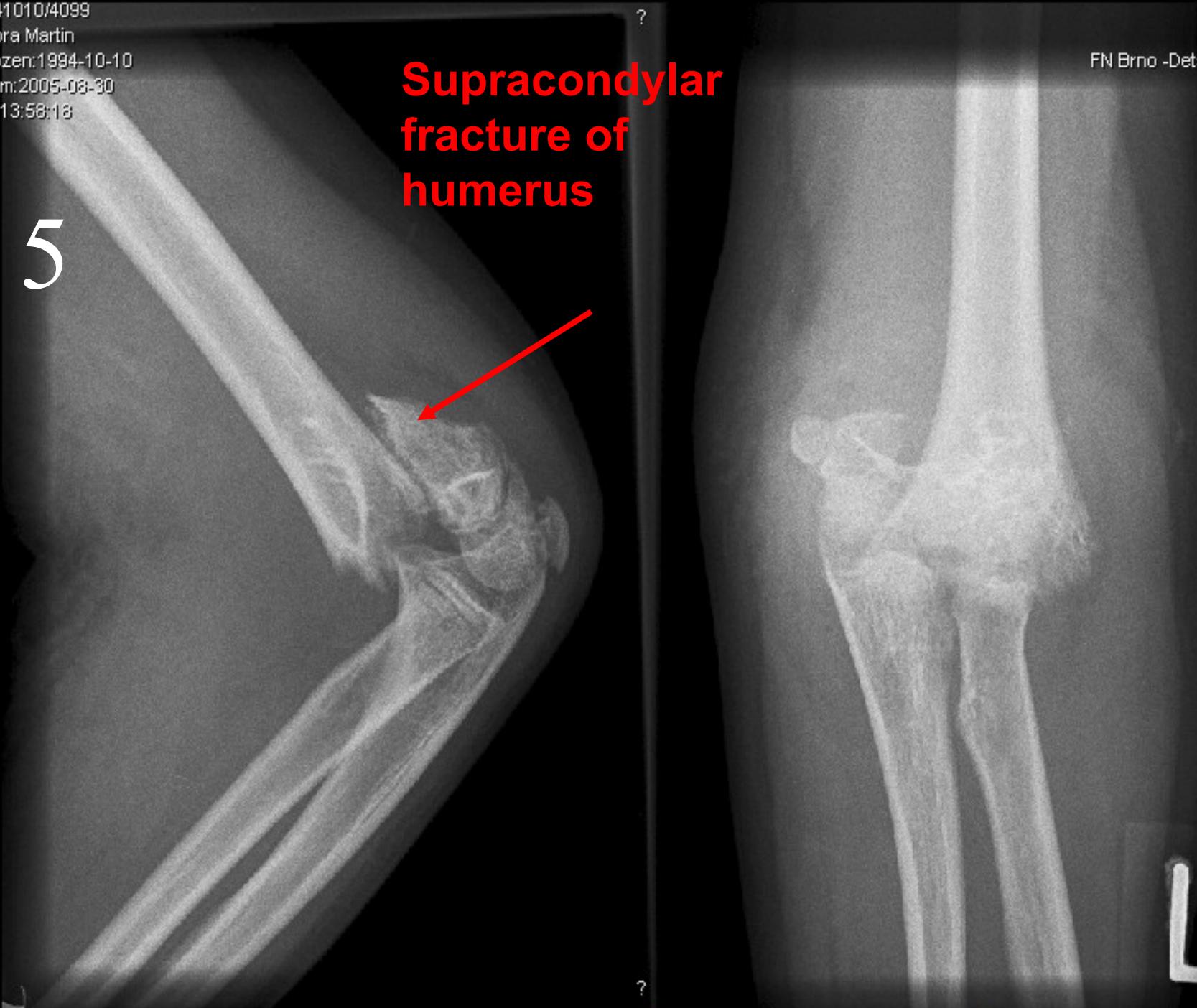
ID:941010/4099
Fasora Martin
Narozen:1994-10-10
Datum:2005-08-30
Cas:13:58:18
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

Supracondylar fracture of humerus

5



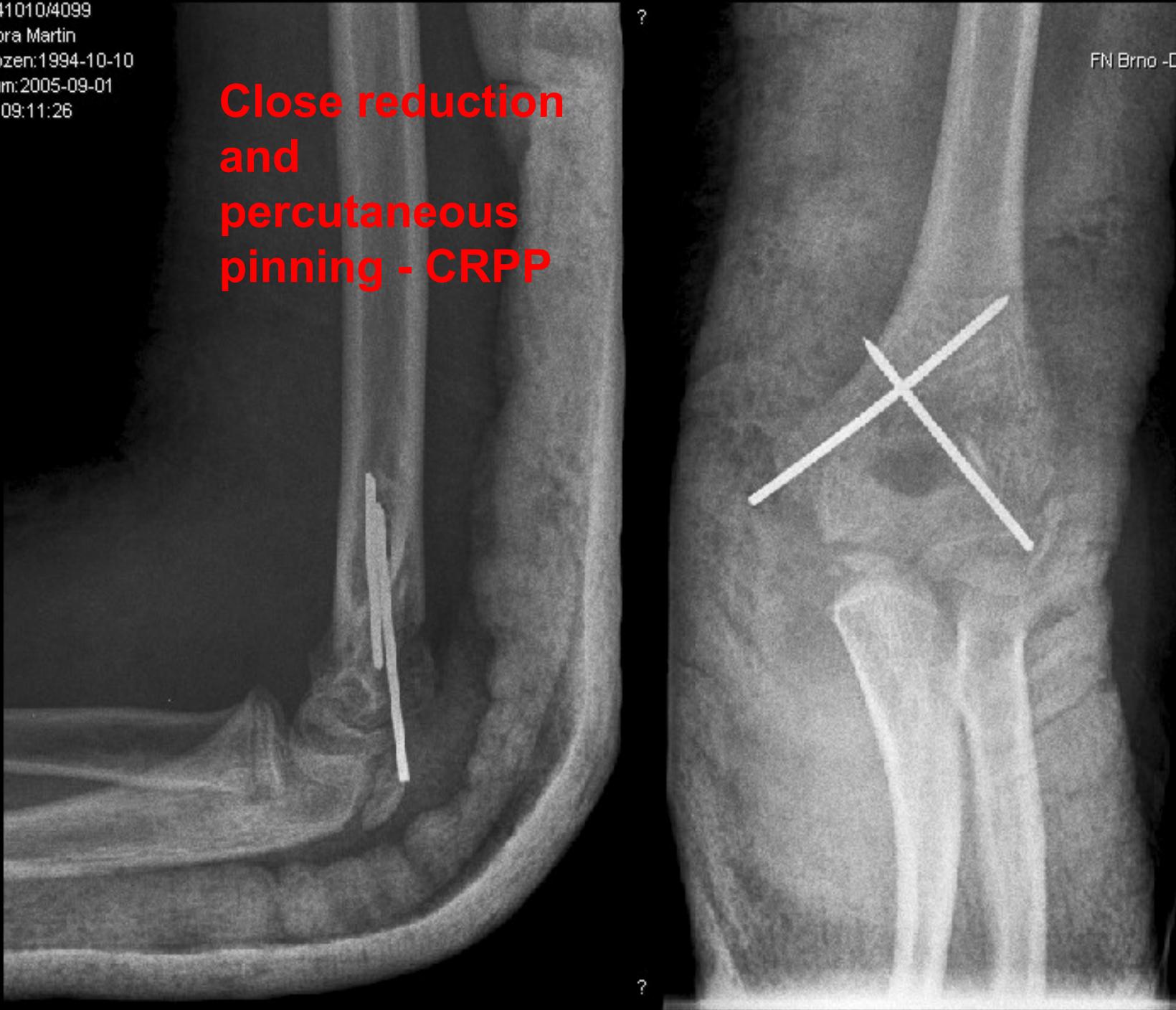
C: 2887
W: 1769

ID:941010/4099
Fasora Martin
Narozen:1994-10-10
Datum:2005-09-01
Cas:09:11:26
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

Close reduction and percutaneous pinning - CRPP



C: 2728
W:1856

ID:083849

Zarychtova Simona

Narozen:1999-12-23

Datum:2005-03-07

Cas:12:26:17

No.1

?

Q: 80%



FH Brno -Detska nemocnice

ADC_51xx

6

L

?

C: 2780

W:1895

ID:083849

Zarychtova Simona

Narozen:1999-12-23

Datum:2005-03-07

Cas:12:26:17

No.1

?

Q: 80%



FH Brno -Detska nemocnice

ADC_51xx

6

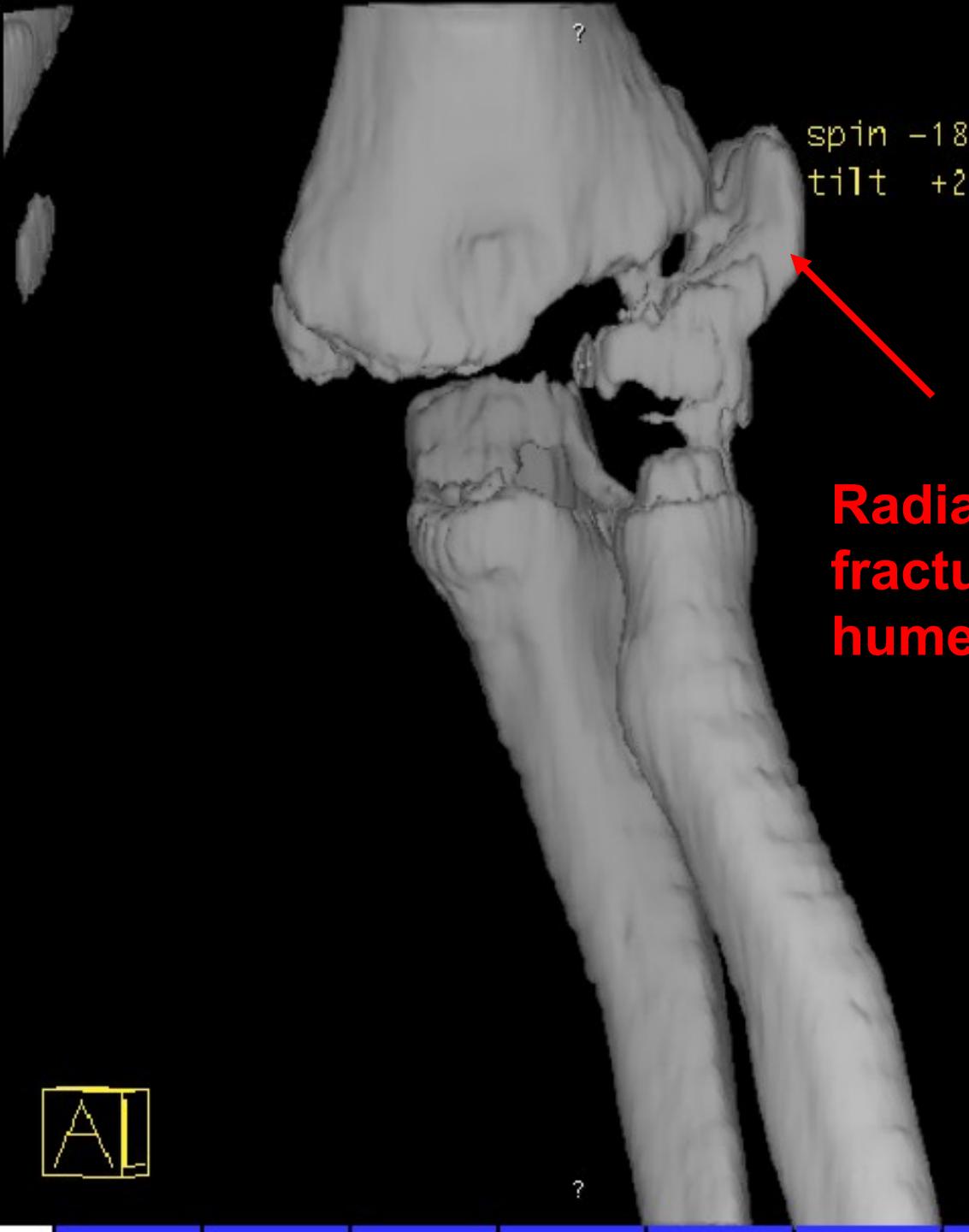
L

?

C: 2780

W:1895

Zarychtova Simona
ID:083849
DoB:1999-12-23
2005-03-23
09:25:28
No. 66
2005-03-23



**Radial condyle
fracture of
humerus**

[AI]

C: 1100
W: 3000

Q: 95%

Fak. detska nemocnice
SOMATOM PLUS 4

ID:094973

Zemanova Veronika

Narozen:1990-09-24

Datum:2005-07-20

Cas:21:56:01

No.1

?



Q: 80%



FN Brno -Detska nemocnice

ADC_5146



7



C: 2890

W: 1088

ID:094973

Zemanova Veronika

Narozen:1990-09-24

Datum:2005-07-20

Cas:21:56:01

No.1

7

?

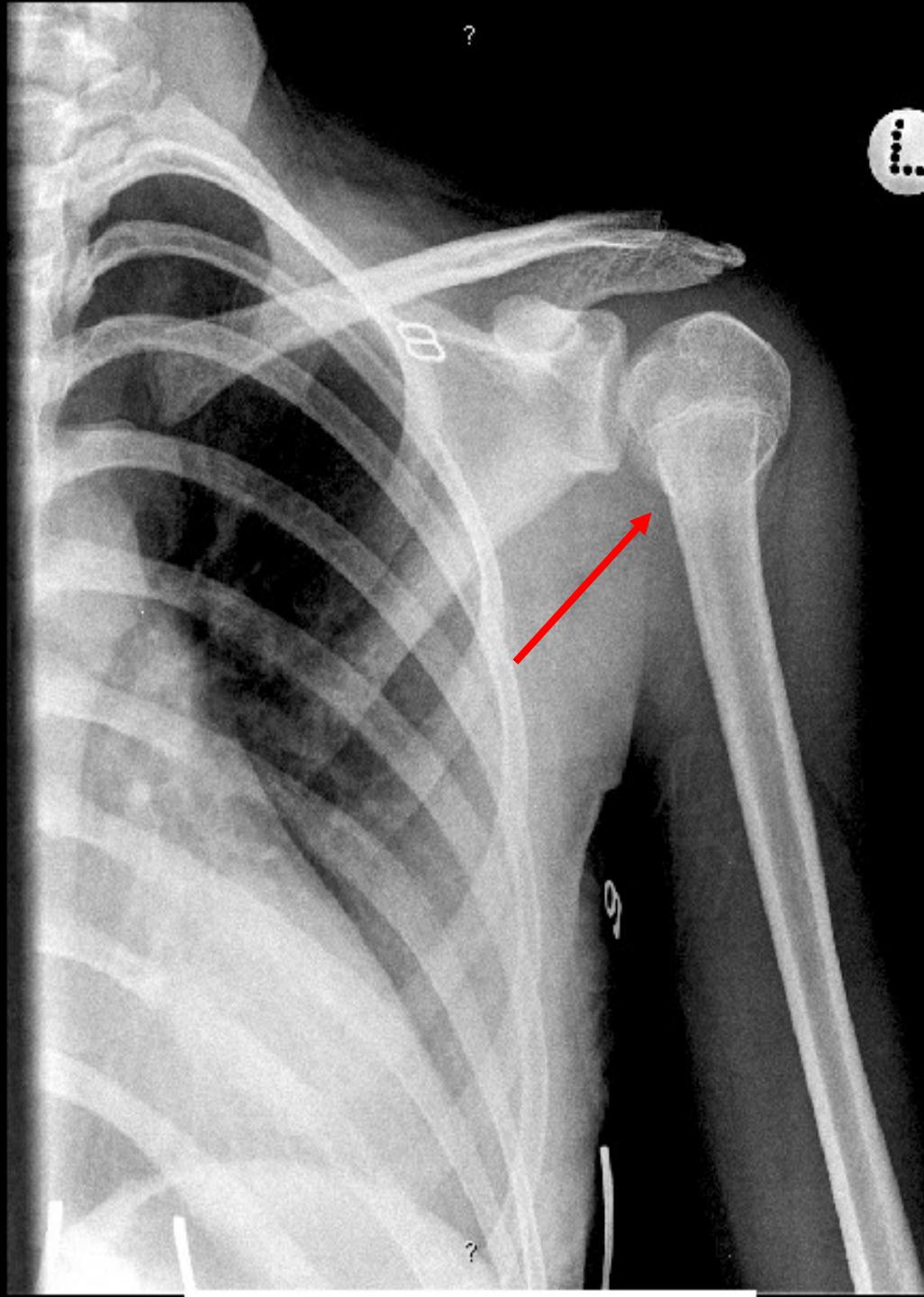


Q: 80%



FN Brno -Detska nemocnice

ADC_5146



?

C: 2890

W: 1088

ID:094973

Zemanova Veronika

Narozen:1990-09-24

Datum:2005-07-20

Cas:22:09:59

No.1



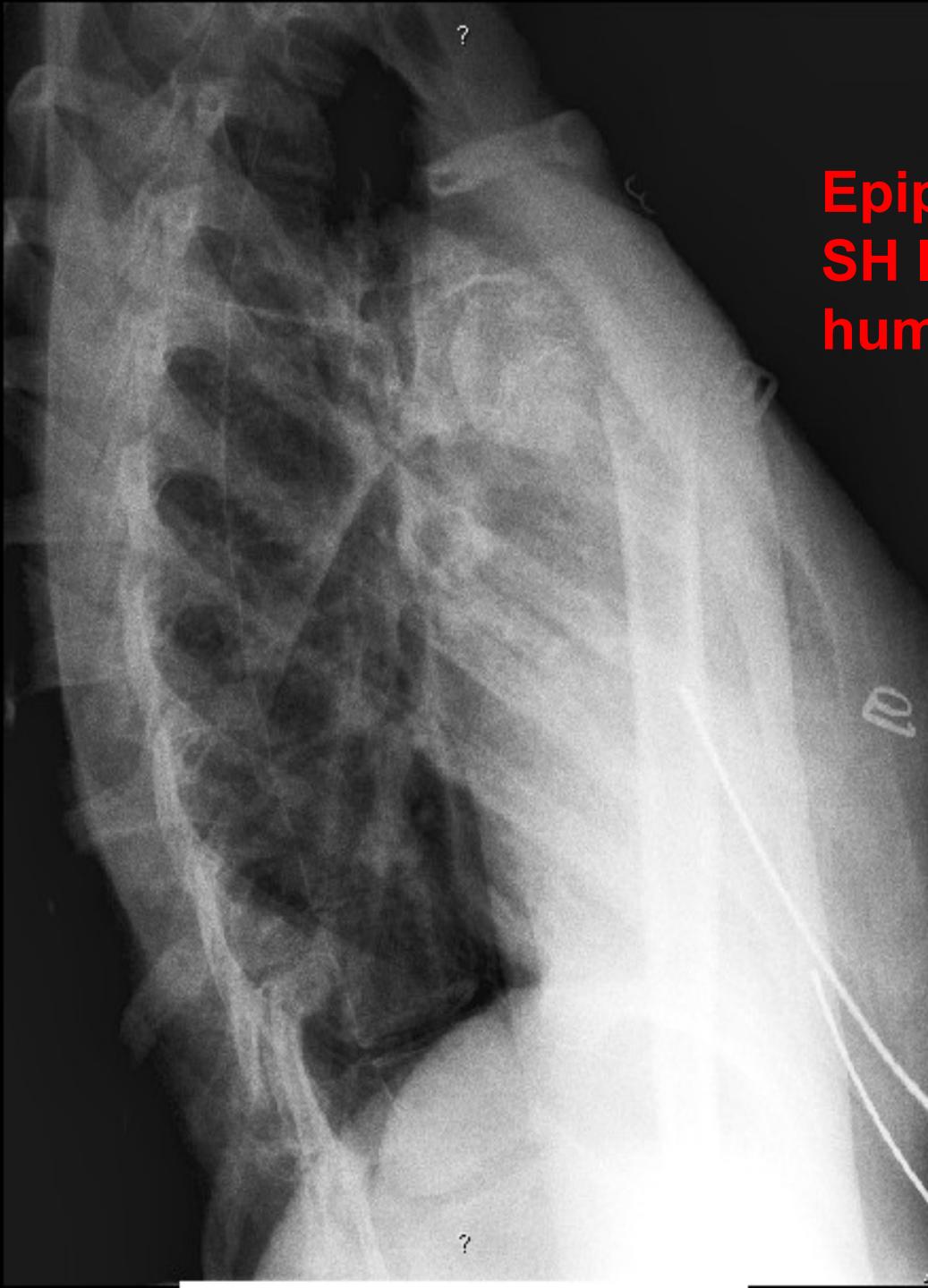
Q: 80%



FN Brno -Detska nemocnice

ADC_5146

Epiphyseolysis SH II of proximal humerus



C: 3723

W: 807

ID:094973

Zemanova Veronika

Narozen:1990-09-24

Datum:2005-07-27

Cas:08:22:13

No.1

?



Q: 80%



FN Brno -Detska nemocnice

ADC_5146



?

C: 3241

W: 1475



ID:094973

Zemanova Veronika

Narozen:1990-09-24

Datum:2005-07-27

Cas:08:23:15

No.1



Q: 80%

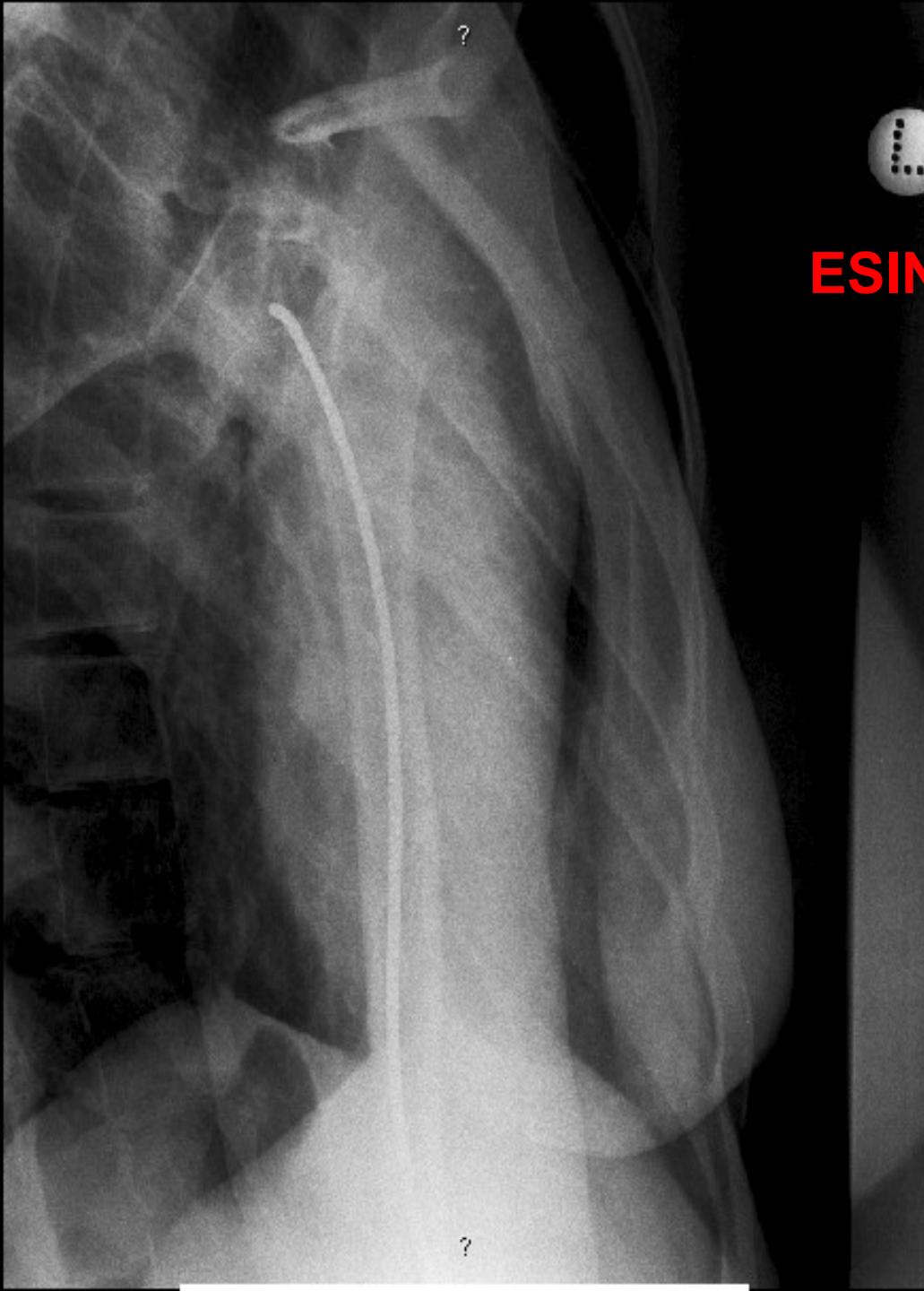


FN Brno -Detska nemocnice

ADC_5146



ESIN



C: 3138

W: 1529

Thaisz Merlin
ID:082185
DoB:2004-04-01
2005-02-14
23:41:45
No.15

AH

Q: 90%



Fak. detska nemocnice
SOMATOM PLUS 4

8

R

L



RM
GT:-2
SP:350
SL:5
CM:

PF

C: 35
W: 80

Thaisz Merlin
ID:082185
DoB:2004-04-01
2005-02-14
23:41:45
No.15

AH

Q: 90% 

Fak. detska nemocnice
SOMATOM PLUS 4

8

Epidural
hematoma
typical
lenticular shape



RM
GT:-2
SP:350
SL:5
CM:

C: 35
W: 80

ID:081582
Huser Tomas
Narozen:2003-06-03
Datum:2005-02-11
Cas:09:31:18
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

9

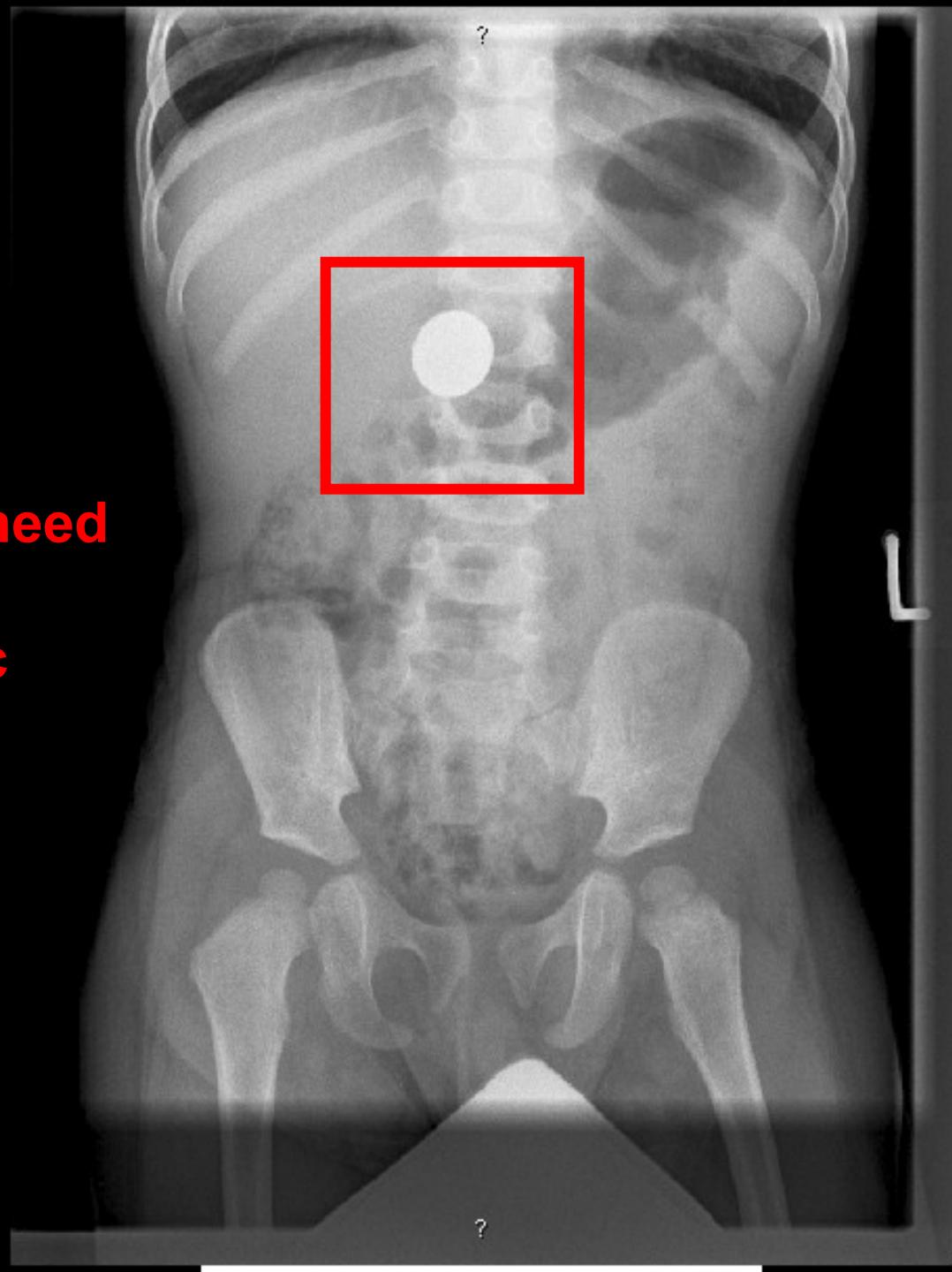


C: 2968
W: 1625

ID:081582
Huser Tomas
Narozen:2003-06-03
Datum:2005-02-11
Cas:09:31:18
No.1

9

Battery in
stomach - need
to early
endoscopic
extraction



Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

C: 2968
W: 1625

ID:002433

Vojta Jiri

Narozen:1999-11-30

Datum:2005-04-17

Cas:08:59:46

No.1

Q: 80% 

FN Brno -Detska nemocnice

ADC_5146

10



C: 2426

W: 1865

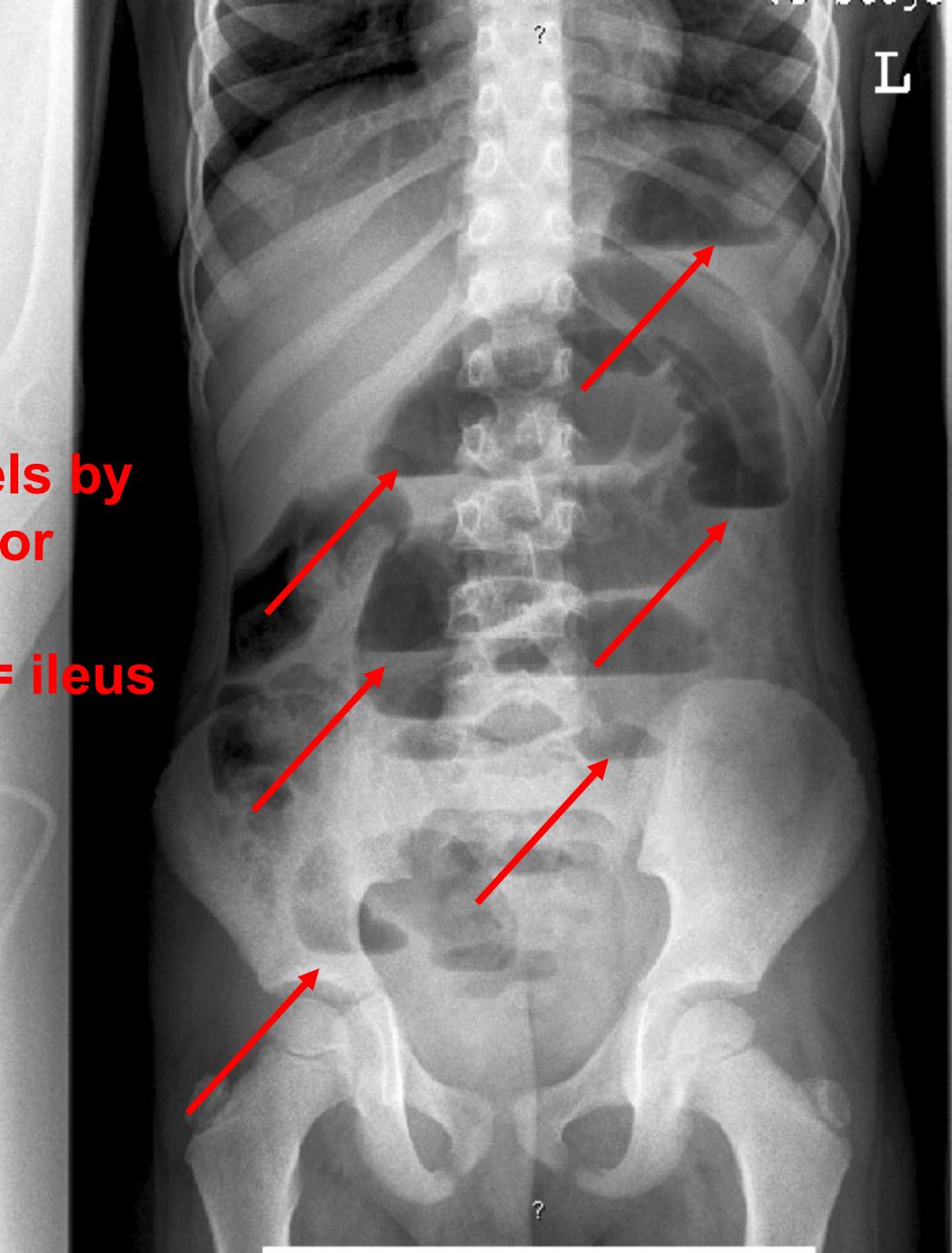
ID:002433
Vojta Jiri
Narozen:1999-11-30
Datum:2005-04-17
Cas:08:59:46
No.1

Q: 80% 

FN Brno -Detska nemocnice
ADC_5146

10

Fluid levels by
standing or
hanging
position = ileus



C: 2426
W: 1865

ID:002433

Vojta Jiri

Narozen:1999-11-30

Datum:2005-04-17

Cas:08:55:08

No.1

Q: 80% 

FN Brno -Detska nemocnice

ADC_5146

Pneumatosis without levels



C: 2546

W: 2075

Thank you for your attention