Trauma Academy

ENABLING EXCELLENCE

www.trauma-academy.com

International Wrist Specialist Course

Prof. Dr. M. Schädel-Höpfner

November **1st – 2nd**, 2019 at CADLAB Cologne

TRAUMA ACADEMY CONCEPT
Lifelike simulation meets surgical training 4.0

TRAUMA ACADEMY course concept builds upon four unique principles

1

Independence

- Unbiased learning environment
- Courses follow multi-vendor principle
- Highest compliance conformity

2

Innovation

- Courses utilize most innovative technologies
- Mix of lifelike fractured specimens with 3DX-ray & 3D prints, VR, etc.
- Fast track for novel tech

3

Standardization

- Clear course structure along learning pathway
- Highest quality required from trainer, facility, etc.
- Courses follow protocol for consistent quality

4

Certification

- Objective skill assessment & certification of participants
- Evaluation along standardized criteria
- Integrated practical exams to demonstrate proficiency

Principles are the basis for the course curriculum

Seven course levels supporting the surgeons' ascent towards excellence

TRAUMA ACADEMY Faculty / Board Member
accreditation & being appointed — PLATINUM

Experienced consultants & experts

L7 — **Certificate TRAUMA ACADEMY Master**
practical exam on specialist fracture & interpersonal competences — GOLD

L6 — **Interpersonal Competences**
leadership skills, teambuilding, stress management

Level of this course

L5 — **TRAUMA ACADEMY Specialist**
course on complex fractures of one joint: prox. Hum, Elbow, Wrist, Acetabulum, Knee, Ankle — SILVER

Residents & young consultants

L4 — **Certificate TRAUMA ACADEMY Generalist**
practical exam on frequent and moderate fractures across multiple anatomic regions — BRONZE

L3 — **TRAUMA ACADEMY Advanced**
course with frequent and moderate fractures across multiple anatomic regions — COPPER

L2 — **Intermediate**
anatomy & approaches - wet lab

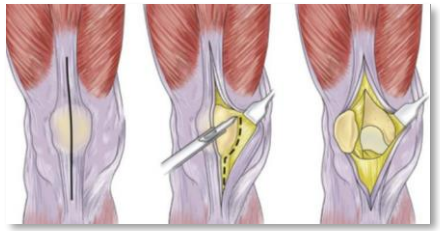
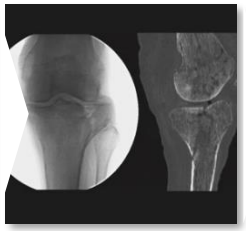
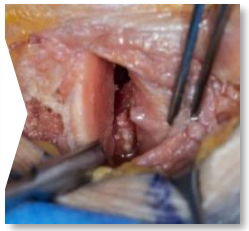
L1 — **Basic**
instrument handling & dry osteosynthesis – artificial bone

Course agenda with lifelike fractures is blended with digital innovations

hands-on wet lab

Organize your plan | **Know your implant** | **Define your plan** | **Operate your plan** | **Challenge your plan**

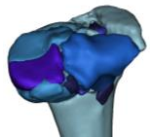
Process

Recap steps of fracture management	*Get to know different implant systems*	*Diagnosis along X-Ray & CT*	*Plan in groups & present to plenum*	*Approach planning*	*Fracture treatment*	*Reduction and osteosynthesis*	*Treatment result*
							

Tools

Case-based presentation & discussion

Powerpitch "5-Slides-in-5-Minutes" & demo kits

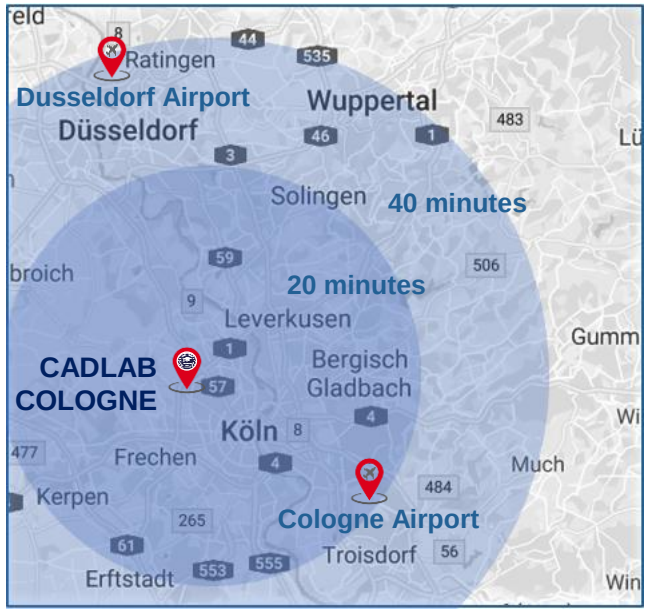




Planning supported by tablets, VR-segmentation, 3D prints, + "patient" report *(age, weight, height)*

Intraoperative 3D fluoroscopy for success control

Case discussion in plenum

“CADLAB COLOGNE“ – The surgical education center in the heart of Europe!

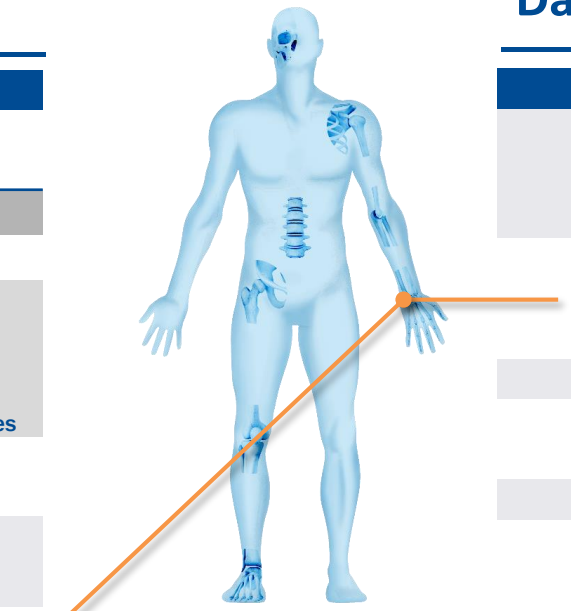


CADLAB COLOGNE
SURGICAL EDUCATION CENTER, Cologne, Germany

Agenda enables end-to-end Trauma Management

Day 1: 01.11. – Distal Radius

Time	Agenda
10:00	Briefing of Instructors
10:30	Briefing of Industry
11:00	Registration & Lunch
11:45	**Opening**
11:55	Organise your plan Distal radius fractures - analysis and classification Palmar plating – the easy way? ORIF from dorsal – how and when? How do deal with complex fractures and associated injuries
12:45	Know your implants **Industry Presentation**
13:15	Define your Plan **Planning with X-ray, CT, 3D-prints**
14:15	Coffee-Break
14:30	Operate your Plan **Hands-on CADLAB** Distal Radius
17:30	Break
18:00	Challenge your Plan **Presentation & discussion of results**
19:00	**Abfahrt zum gemeinsamen Abendessen**



Day 2: 02.11. – Distal Radius & Carpus

Time	Agenda
08:30	Good-Morning Coffee
09:00	Define your Plan **Planning with X-ray, CT, 3D-prints**
10:00	Operate your Plan **Hands-on CADLAB** Distal Radius & Carpus
13:00	Lunch
13:30	Challenge your Plan **Presentation & discussion of results**
14:30	**Evaluation & Closing**

Strong team of involved parties to create excellence

Industry Partner

acumed
Arthrex
Königsee Implantate
stryker
ZIMMER BIOMET
RIMASYS
SIEMENS Healthineers
mRay
axial3D Patient data made real

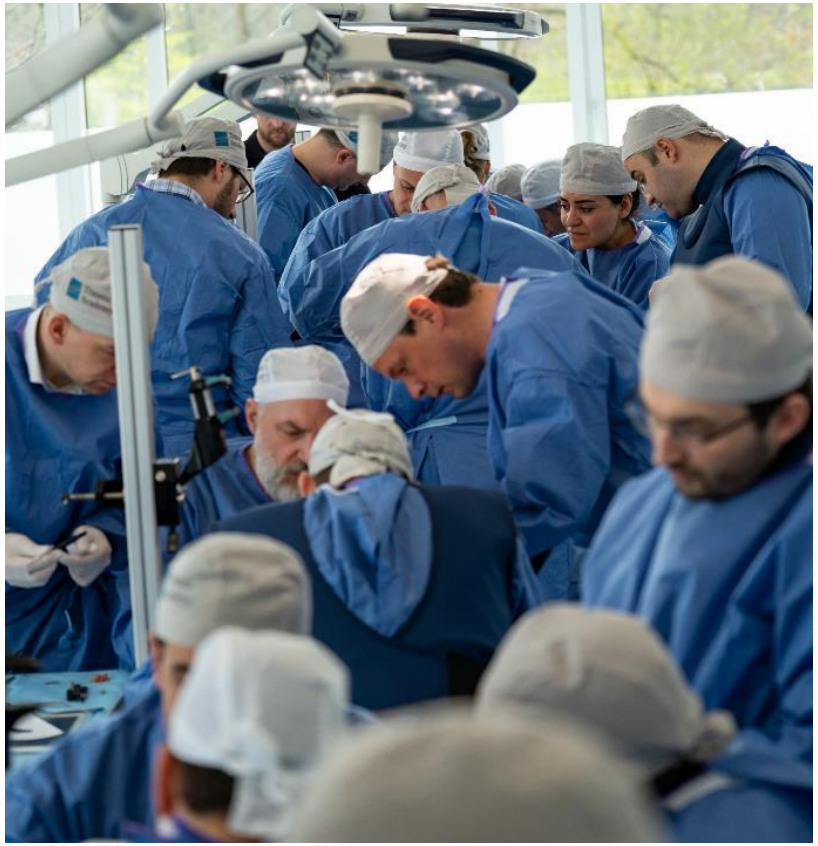
International Faculty

Name	Prename	Country
Grieve	Phil	Ireland
Maier	Klaus-Jürgen	Germany
Obert	Laurent	France
Stockmans	Filip	Belgium

Host

Schädel-Höpfner	Michael	Germany

Course-Event with high-potential participants



Name	Hospital
TBD	

Organize your Plan

Organize your plan | Know your implant | Define your plan | Operate your plan | Challenge your plan

1.Distal radius fractures - analysis and classification

2.Palmar plating – the easy way?

3.ORIF from dorsal – how and when?

4.How to deal with complex fractures and associated injuries

Speed-Dating Rotation

Organize your plan | Know your implant | Define your plan | Operate your plan | Challenge your plan

SPEED-DATING

SURGEON **MEETS** **IMPLANT PARTNER**

Strategy of the group as part of „Define your plan“

Organize your plan | Know your implant | **Define your plan** | Operate your plan | Challenge your plan

Different tools for planning

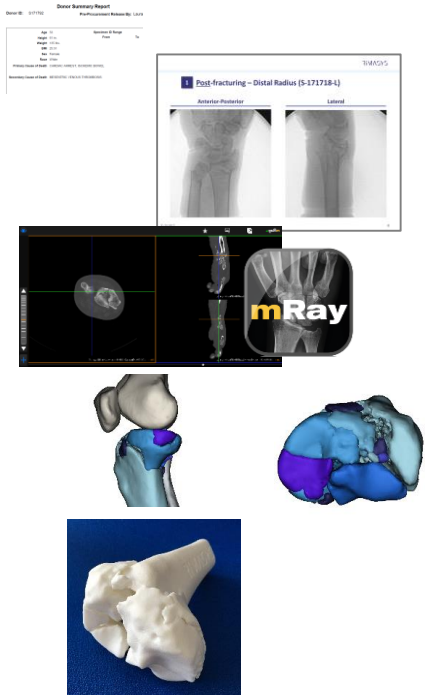
“Patient” report
(age, weight, height, gender)

X-ray scans

CT scans

VR model

3D prints



25 min Planning in groups and 5 min presentation

1. **Classification**
   - Displacement
   - Articular/Non-Articular
   - Fragments
   - Soft-Tissue-injuriy
2. **Approaches**
   - Which and how many?
   - Risks
3. **Reposition**
   - Tools
   - Temporary fixation
4. **Plan of fixation**
5. **Risks and Alternatives, Patient needs**

„Operate your plan“ Hands-on Workshop with pre-fractured specimen

Organize your plan | Know your implant | Define your plan | **Operate your plan** | Challenge your plan

Fracture-Simulator in the wet lab

Imaging supports the fracture treatment

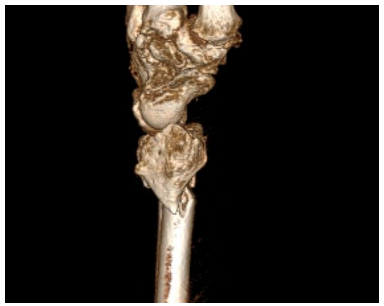
Fractured specimen

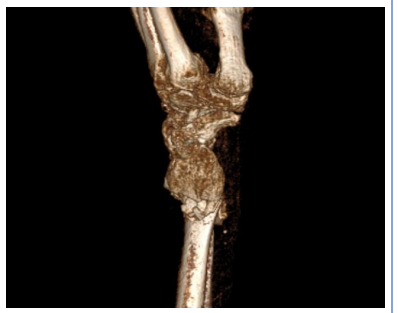
&

Intraoperative 3D fluoroscopy

Day1: The „Wrist“- challenges: Distal Radius

Station 1	Station 2	Station 3	Station 4	Station 5
acumed	ArthreX	Königsee Implantate	stryker	ZIMMER BIOMET
1 Phil Grieve	2 Michael Schädel-Höpfner	3 Klaus-Jürgen Maier	4 Filip Stockmanns	5 Laurent Obert







Day2: The „Wrist“- challenges: Distal Radius & Carpus

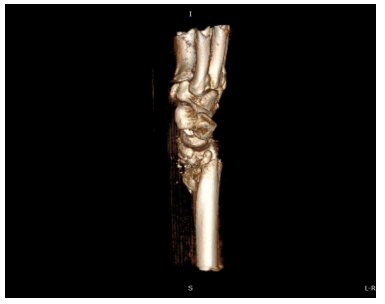
Station 1	Station 2	Station 3	Station 4	Station 5
acumed	Arthrex	Königsee Implantate	stryker	ZIMMER BIOMET
1 Phil Grieve	2 Michael Schädel-Höpfner	3 Klaus-Jürgen Maier	4 Filip Stockmanns	5 Laurent Obert












Working Stations – Day 1

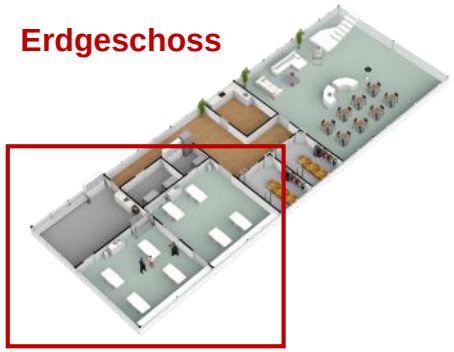
	Station 1	Station 2	Station 3	Station 4	Station 5
Industry partner	acumed	Arthrex	Königsee Implantate	stryker	ZIMMER BIOMET
Instructor	Phil Grieve	Schädel-Höpfner	Klaus-Jürgen Maier	Filip Stockmanns	Laurent Obert
Participant 1	tbd	tbd	tbd	tbd	tbd
Participant 2	tbd	tbd	tbd	tbd	tbd
Participant 3	tbd	tbd	tbd	tbd	tbd

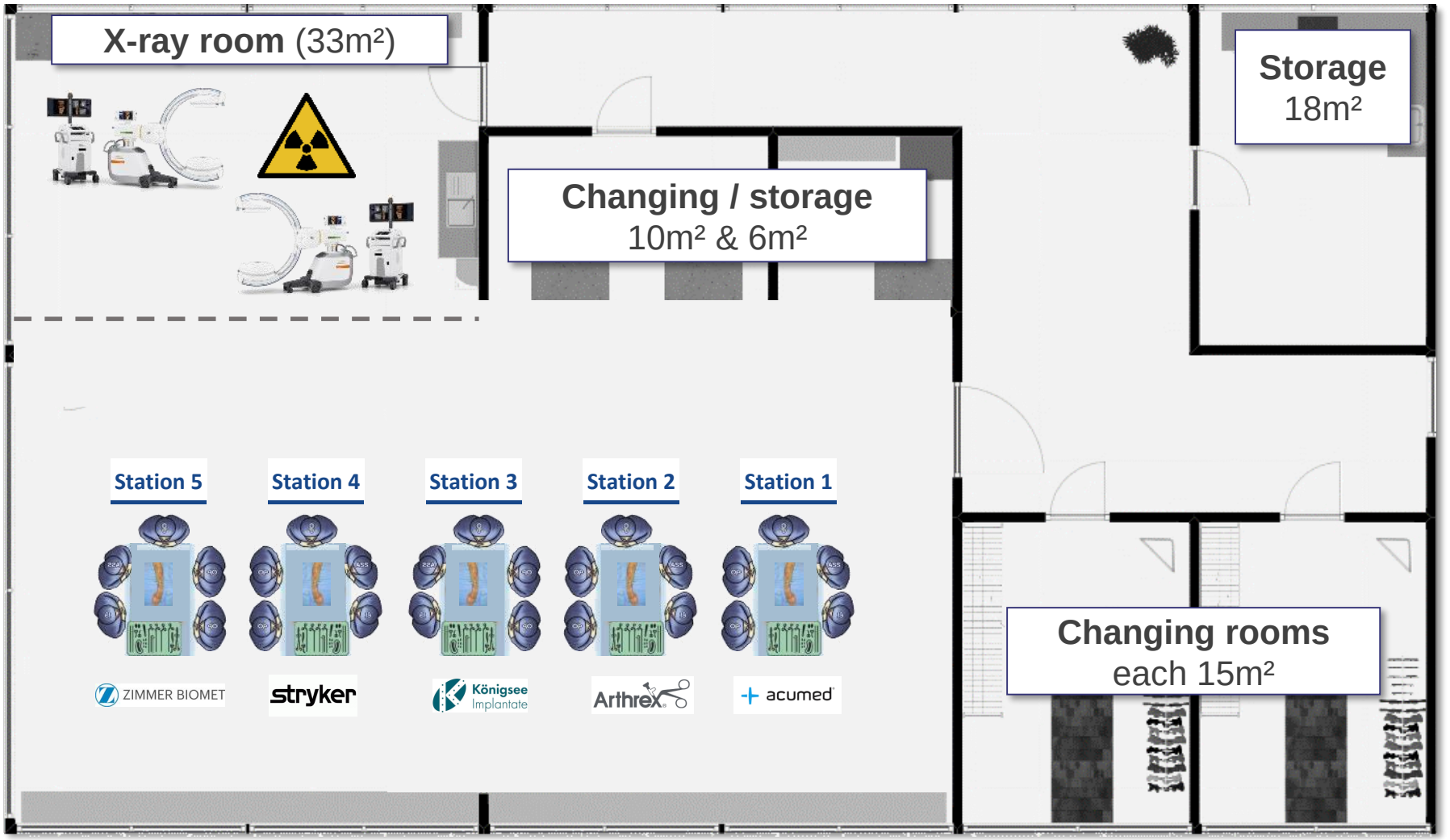
Working Stations – Day 2

	Station 1	Station 2	Station 3	Station 4	Station 5
Industry partner	acumed	Arthrex	Königsee Implantate	stryker	ZIMMER BIOMET
Instructor	Phil Grieve	Schädel-Höpfner	Klaus-Jürgen Maier	Filip Stockmanns	Laurent Obert
Participant 1	tbd	tbd	tbd	tbd	tbd
Participant 2	tbd	tbd	tbd	tbd	tbd
Participant 3	tbd	tbd	tbd	tbd	tbd

Workshop with five stations – Day 1 & 2

Erdgeschoss





Presentation and learnings from the lab in „Defend your plan“

Organize your plan | Know your implant | Define your plan | Operate your plan | Challenge your plan

Use of plan & intra-/post OP X-ray

&

5min recapitulation of the treatment

- How does the actual treatment differs from the planned strategy?
- What was the challenge, what was the surprise?
- How did you solve it?
- What would you do different the next time?
- What‘s the learning of the case treatment?

Basic Instrument Set will be provided by CADLAB Cologne (10 Sets)

Zugangsset
CHIR.PINZETTE STD.1X2Z.200MM
CHIR.PINZETTE STD.1X2Z.145MM
SKALPELLGRIFF NR.3 124MM
SKALPELLGRIFF NR.4 133MM
SKALPELLGRIFF NR.4L 213MM
ARTERIENKLEMME CRILE GEB.140MM
DUROGRIP NADELHALTER HEGAR-MAYO 185MM
WUNDHAKEN KOCHER LANGENBECK 41X11MM
WUNDHAKEN KOCHER 60X20MM
WUNDHAKEN VOLKMANN 6-ZAHN.SCHARF 9X29MM
WUNDSPREIZER WEITLANER 3X4Z.HALBSCHARF
WUNDHAK.SENN-MILLER SCHARF 8X7/18X5,5MM
PRAEP.SCHERE METZENBAUM FEIN GEB.145MM
PRAEP.SCHERE MAYO GEB.210MM
PRAEP.SCHERE MAYO GEB.165MM
KNOCHENHEBEL 8,0MM BR.160MM
KNOCHENHEBEL 17,0MM BR.240MM
RASPATORIUM GEB.ARB.ENDE RUND 6,0MM
RASPATORIUM GER.ARB.ENDE RUND 14,0MM
REPOSITIONSZANGE F.KLEINFRAGMENTE 135MM
ARTERIENKLEMME GEBOGEN LANG

Further tools available after request

Organisational times for setup and dismounting

Setup

Freitag 01.11.2019

- Industry Partner: **08:00 am – 10:30 am**
- Briefing Industry Partner with instructors: **10:30 am – 11:00 am**

Dismounting

Saturday 02.11.2019

- Industry Partner: **02:30pm – 4:30pm**

Cleaning of Sets and instruments possible at CADLAB Cologne on request, pick-up must be scheduled 2 to 3 days after the course

Hotel recommendations

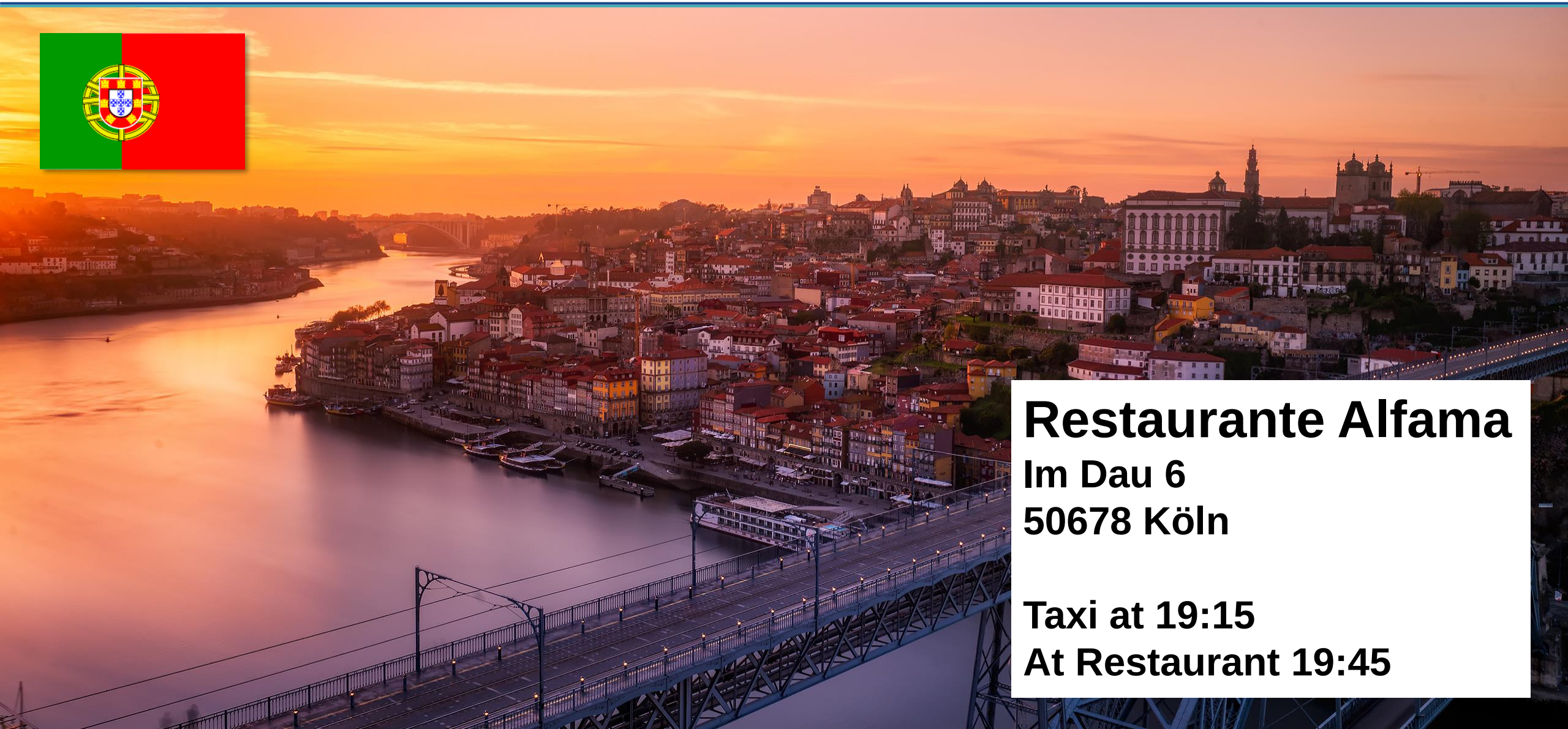
Recommendation (Dinner Location in the city)

Altstadt: Rhine boulevard, brewery and Kölsch Culture (~ 20 to the Event location by taxi):

- Holiday Inn Express, Perlengraben 2, 50676 Köln

https://www.ihg.com/holidayinnexpress/hotels/de/de/cologne/cgncc/hoteldetail

Dinner Location of Day 1 – to continue the discussions



Restaurante Alfama
Im Dau 6
50678 Köln

Taxi at 19:15
At Restaurant 19:45

Further event information and FAQ (1/2)

All

- **Target group**: Recommended for experienced trauma & orthopedic surgeons
- CME credits are requested
- Language of the event is english
- Organisation and cost of travel and accomodation of participants is not included with the participation of the coure
- Disclaimer have to be signed
- Presentations should be sent at least two days in advance to enable a perfect flow of the event
- Video recording during the event will be available for publishing thorugh
- Alle specimen are tested regarding pathogen (HIV, etc.)
- Donor reports will be handed out after request

Further event information and FAQ (2/2)

Industry Partner

Trauma Academy
ENABLING EXCELLENCE

- Material can be sent in advance of the course to the following contact:

(Watch out: Address of shipment differs from address of company address of CADLAB Cologne)

CADLAB COLOGNE GmbH
Building E04
Nattermannallee 1
50829 Köln
info@cadlab-academy.com
Tel: +49 221 5005 7671

Please inform Paul Norris (paul.norris@cadlab-cologne.com) about the shipment details

- Exhibition table, chairs and electricity will be provided (Exhibition space 10sm).
- The CADLAB COLOGNE provides the service of cleaning your instruments. The service fee is 46€ (net) per tray. Please inform the lab manager about your needs.

Let's elevate surgical education to the next level.

Trauma Academy
ENABLING EXCELLENCE

Appendix

RIMASYS REINVENT SURGICAL EDUCATION

Distal Radius Trauma Academy 2019

V2

Cologne, 02.10.2019

Disclaimer:
Fractures generated by RIMASYS for surgical education

RIMASYS vision

Enhancing surgical education and patient outcomes by deploying realistic fractures for practical skill training

RIMASYS is the worldwide sole manufacturer of realistic fractures in human specimen:

✓ closed soft tissue

✓ reproducible fracture patterns

✓ according to common classifications

Usage of this document

- Traumata are established in **closed fresh-frozen human specimen** and **evaluated as realistic** by independent experts
- This document is intended to facilitate **end-to-end trauma management** for **fracture course participants**
- In order to **respect the body donors** you are asked to use this document for **educational and course related purposes only**

Specifications of specimen & fractures in this document

	Specimen ID	Fracture	Side	Sex	Age	Height [m]	Weight [kg]
1	L-190738-L	Distal Radius	Left	Male	84	1,68	59
2	L-190657-L	Distal Radius	Left	Female	87	1,68	47
3	I-190273-L	Distal Radius	Left	Male	72	1,73	97
4	L-190079-L	Distal Radius	Left	Female	92	1,65	31
5	L-190623-R	Distal Radius	Right	Female	67	1,70	51

Specifications of specimen & fractures in this document

	Specimen ID	Fracture	Side	Sex	Age	Height [m]	Weight [kg]
6	L-190206-R	Distal Radius + Skaphoid	Right	Male	86	1,83	54
7	L-190223-R	Distal Radius + Skaphoid	Right	Male	56	1,83	74
8	I-190547-L	Distal Radius + Skaphoid	Left	Female	81	1,68	49
9	L-190627-R	Distal Radius + Skaphoid	Right	Male	67	1,85	77
10	L-190620-L	Distal Radius + Skaphoid	Left	Male	68	1,80	85

1 Post-fracturing – Distal Radius (L-190738-L)

Extended specifications	
Age	84
Height [m]	1,68
Weight [kg]	54
BMI	21
Sex	Male
Side	Left

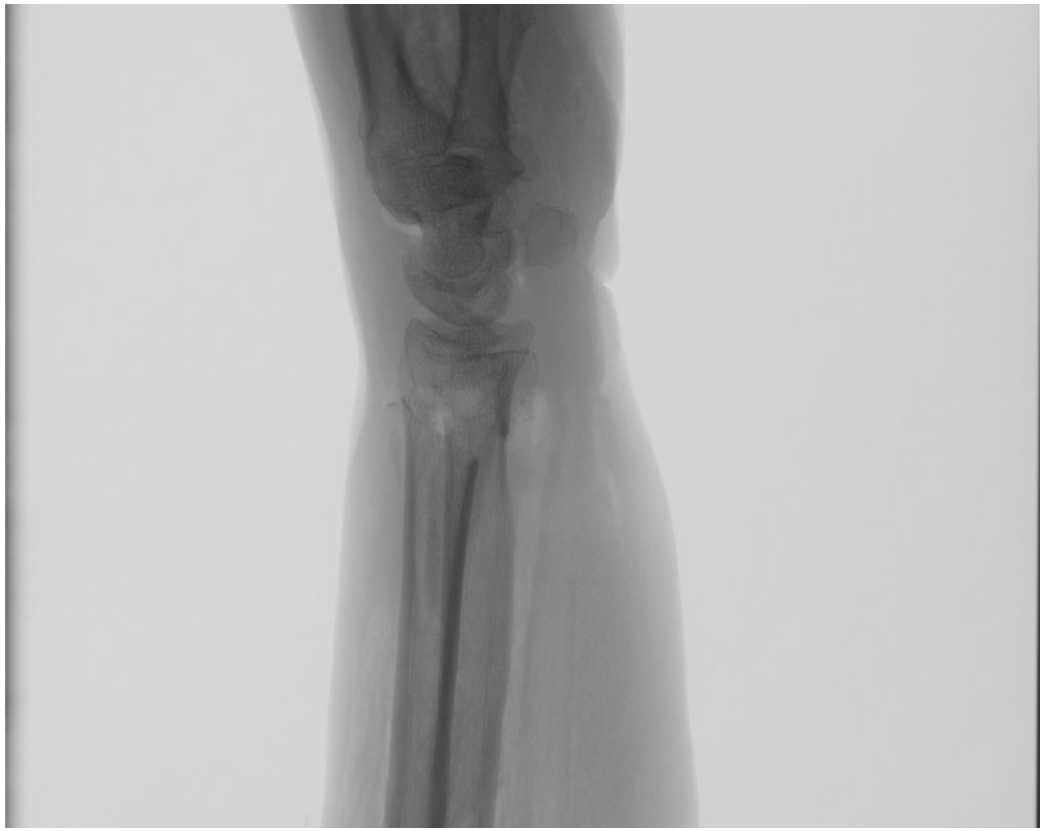
Post-fracturing

1

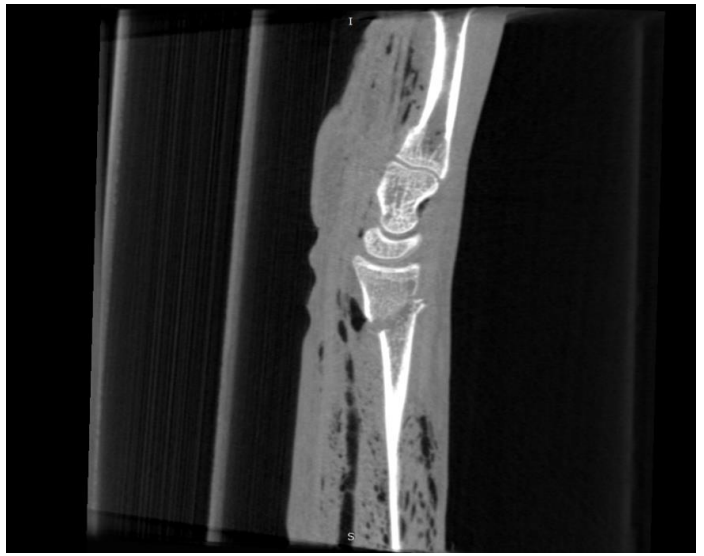
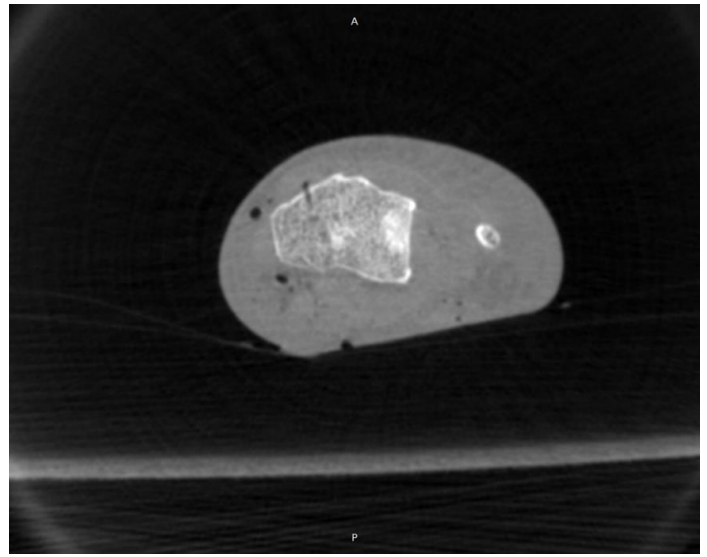
Post-fracturing – Distal Radius (L-190738-L)

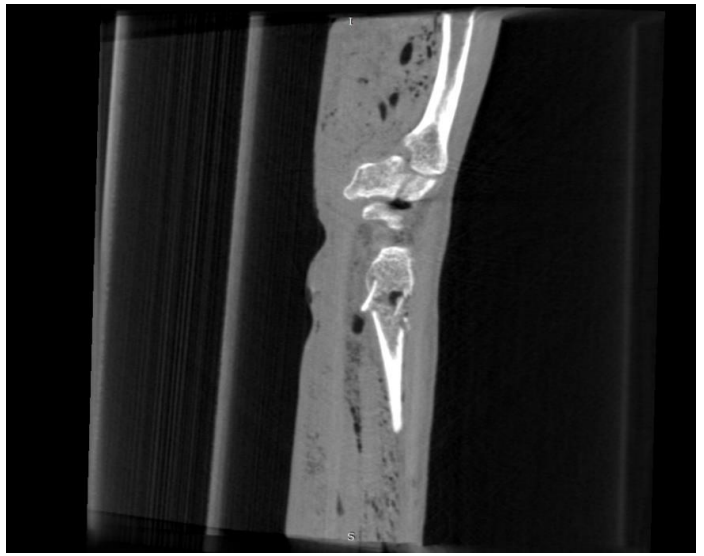
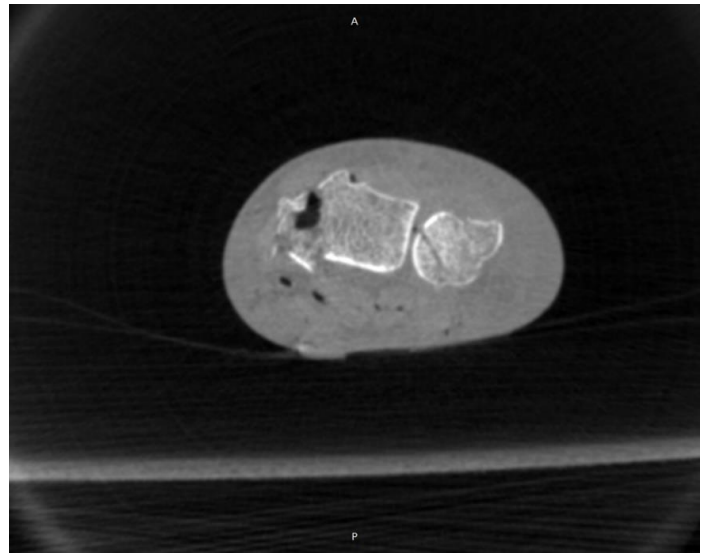
Anterior-Posterior

Lateral



1 Post-fracturing – Distal Radius (L-190738-L)

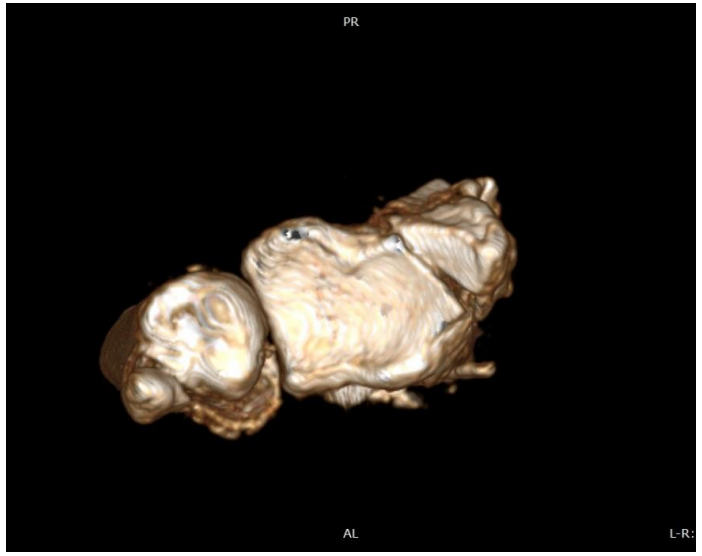




1 Post-fracturing – Distal Radius (L-190738-L)







Post-fracturing – Distal Radius (L-190738-L)

Segmentierung zum 3D Druck folgt noch

2

Post-fracturing – Distal Radius (L-190657-L)

Extended specifications	
Age	87
Height [m]	1,68
Weight [kg]	47
BMI	17
Sex	Female
Side	Left

Post-fracturing

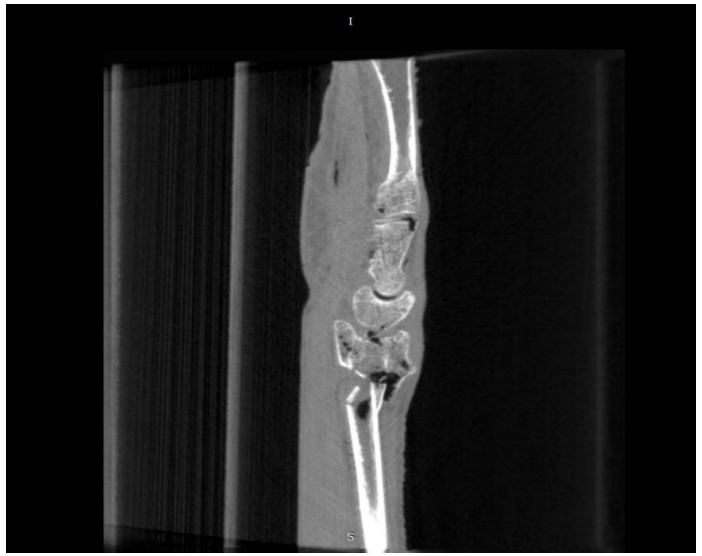
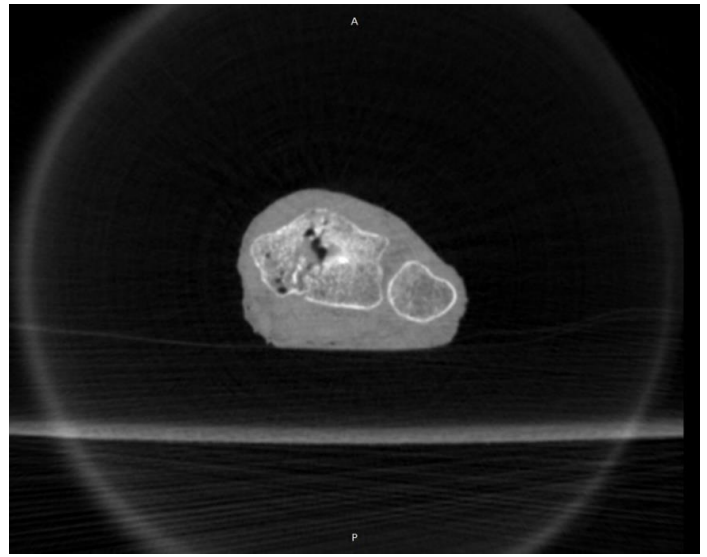
2

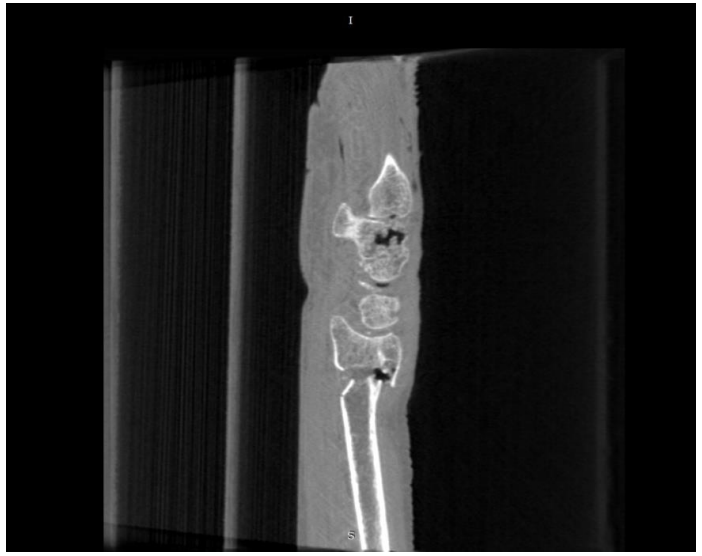
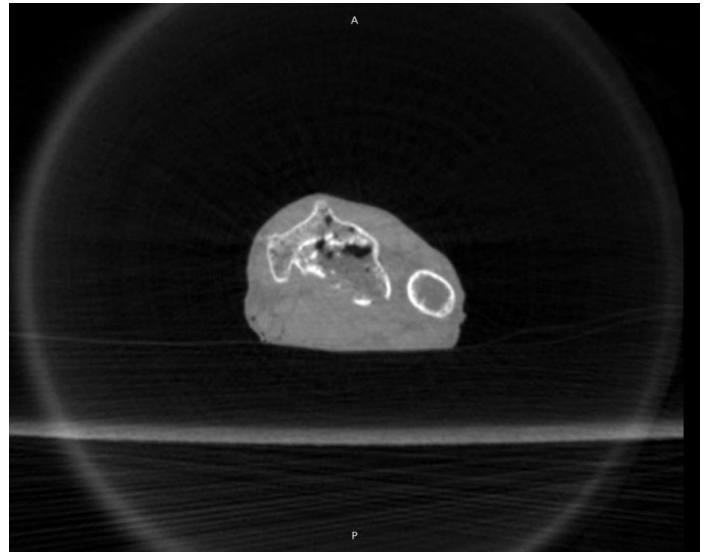
Post-fracturing – Distal Radius (L-190657-L)

Anterior-Posterior

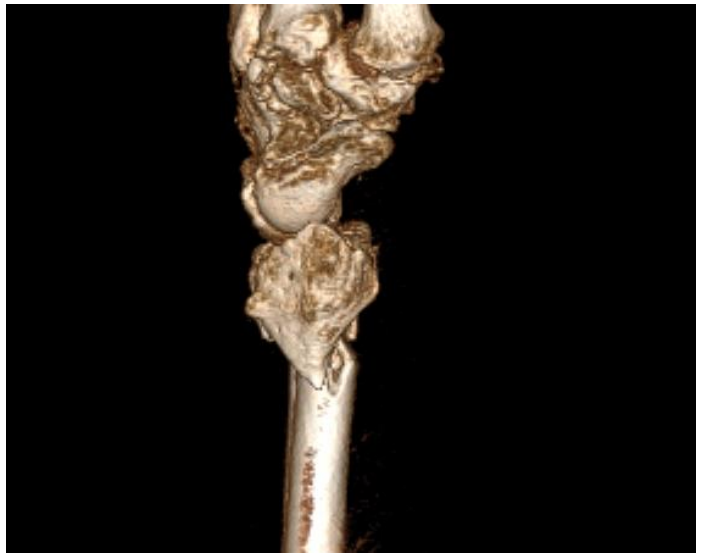
Lateral

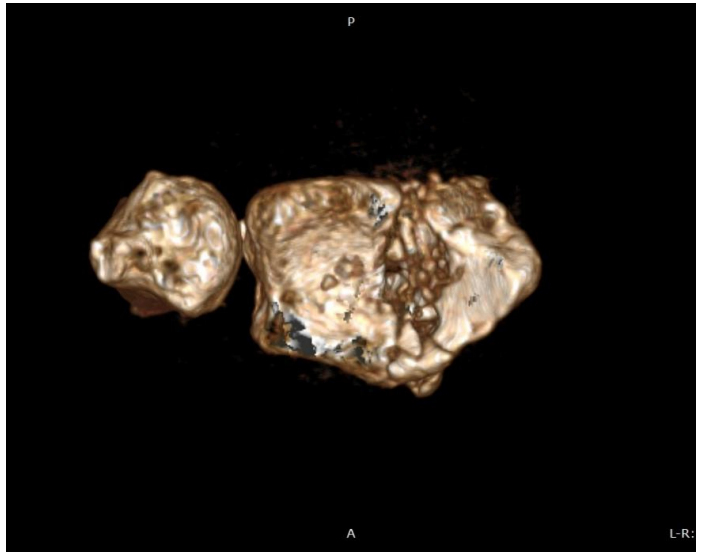
2 Post-fracturing – Distal Radius (L-190657-L)

2 Post-fracturing – Distal Radius (L-190657-L)

Post-fracturing – Distal Radius (L-190657-L)

Segmentierung zum 3D Druck folgt noch

3 Post-fracturing – Distal Radius (I-190273-L)

Extended specifications	
Age	72
Height [m]	1,73
Weight [kg]	97
BMI	32
Sex	Male
Side	Left

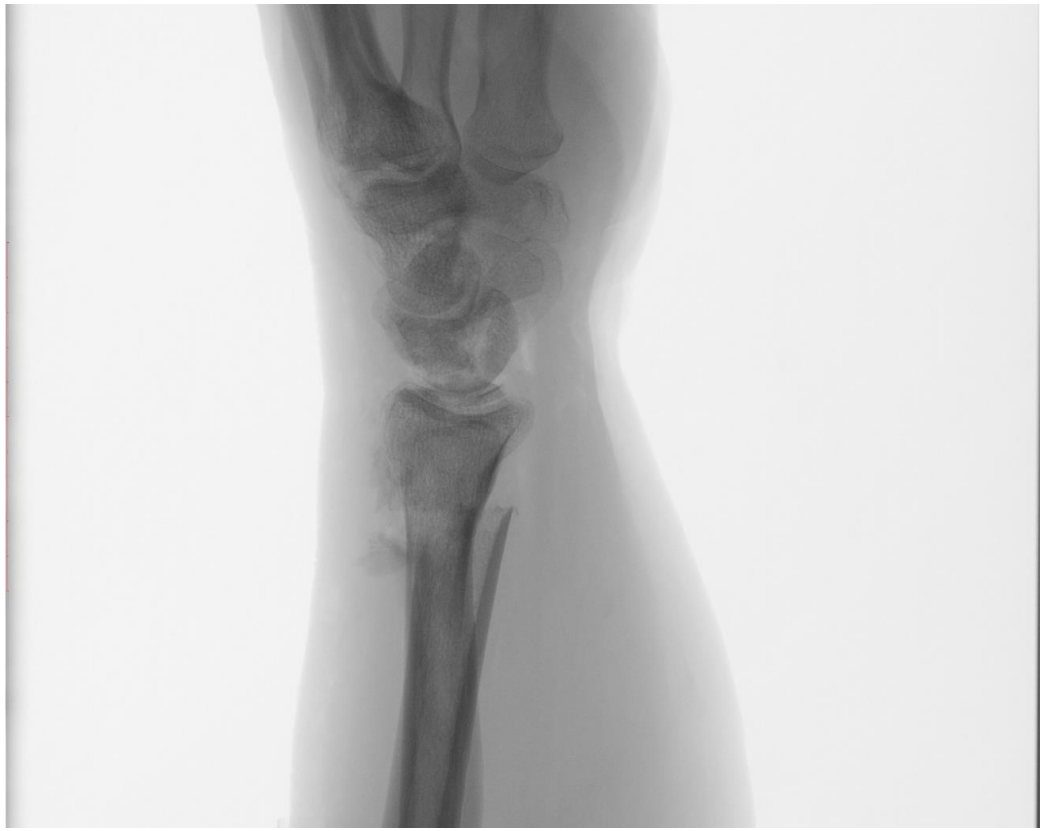
Post-fracturing

3

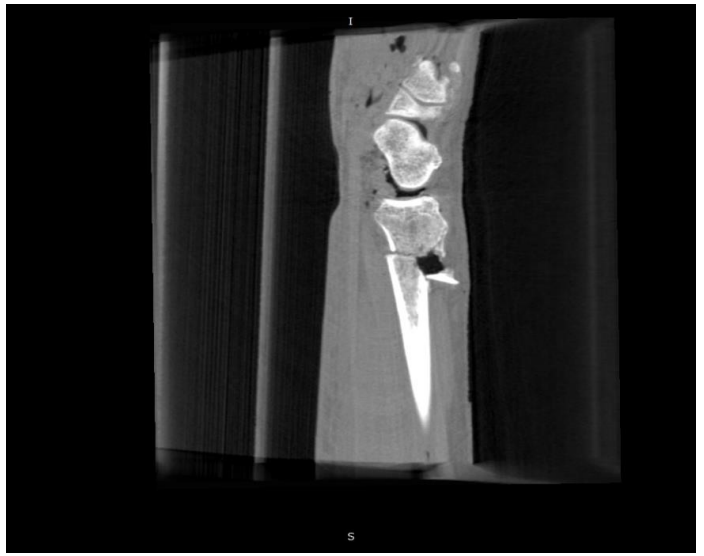
Post-fracturing – Distal Radius (L-190273-L)

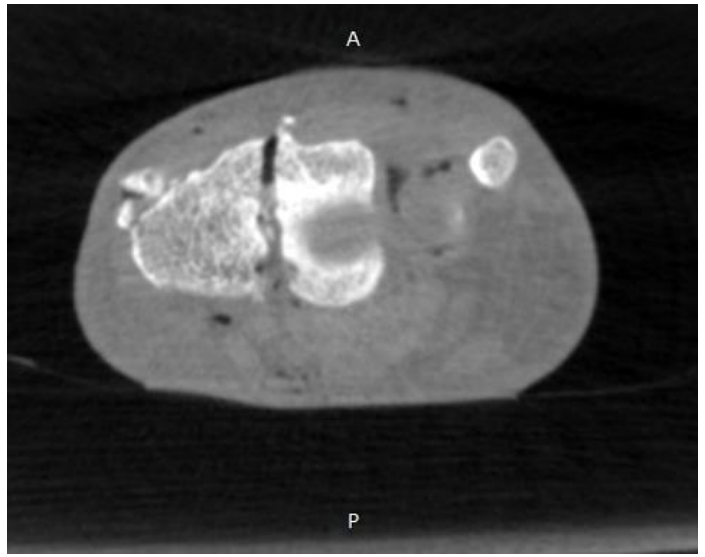
Anterior-Posterior

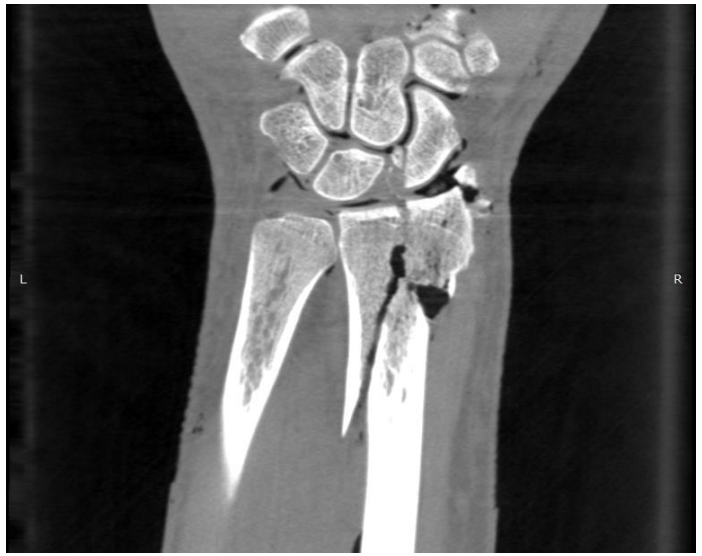
Lateral

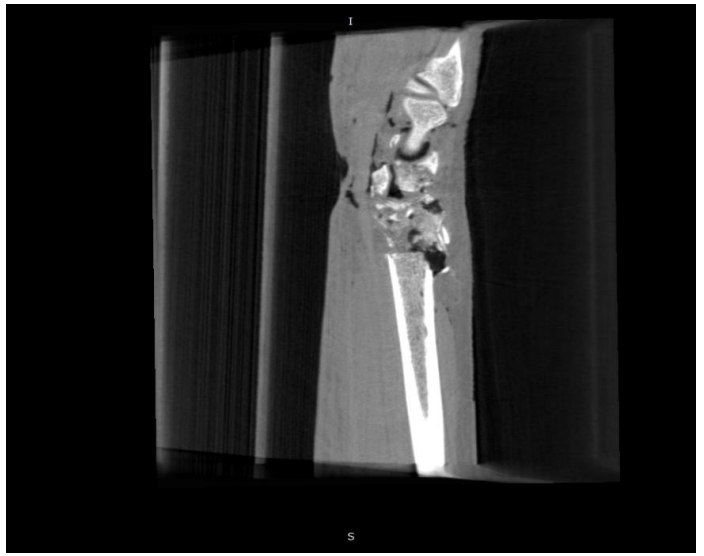


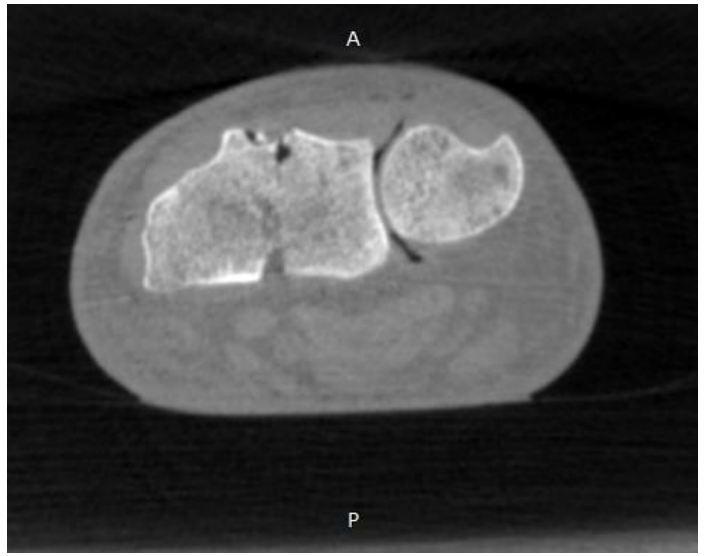
Post-fracturing – Distal Radius (L-190273-L)



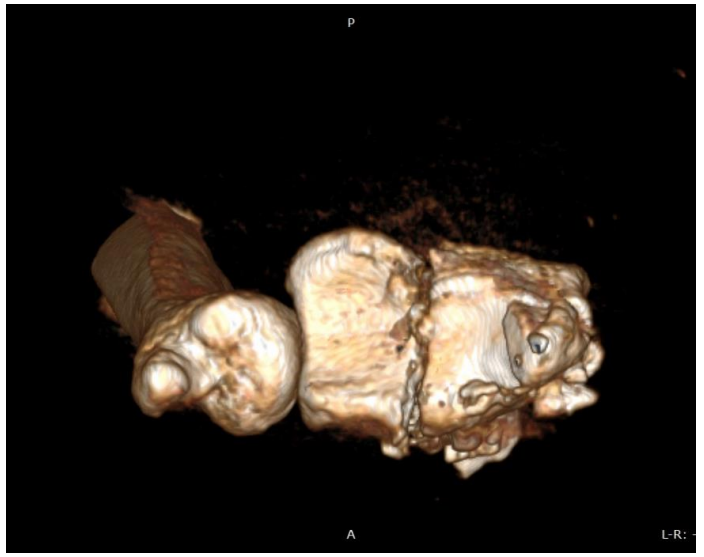








Post-fracturing – Distal Radius (L-190273-L)



Post-fracturing – Distal Radius (L-190273-L)

Segmentierung zum 3D Druck folgt noch

4

Post-fracturing – Distal Radius (L-190079-L)

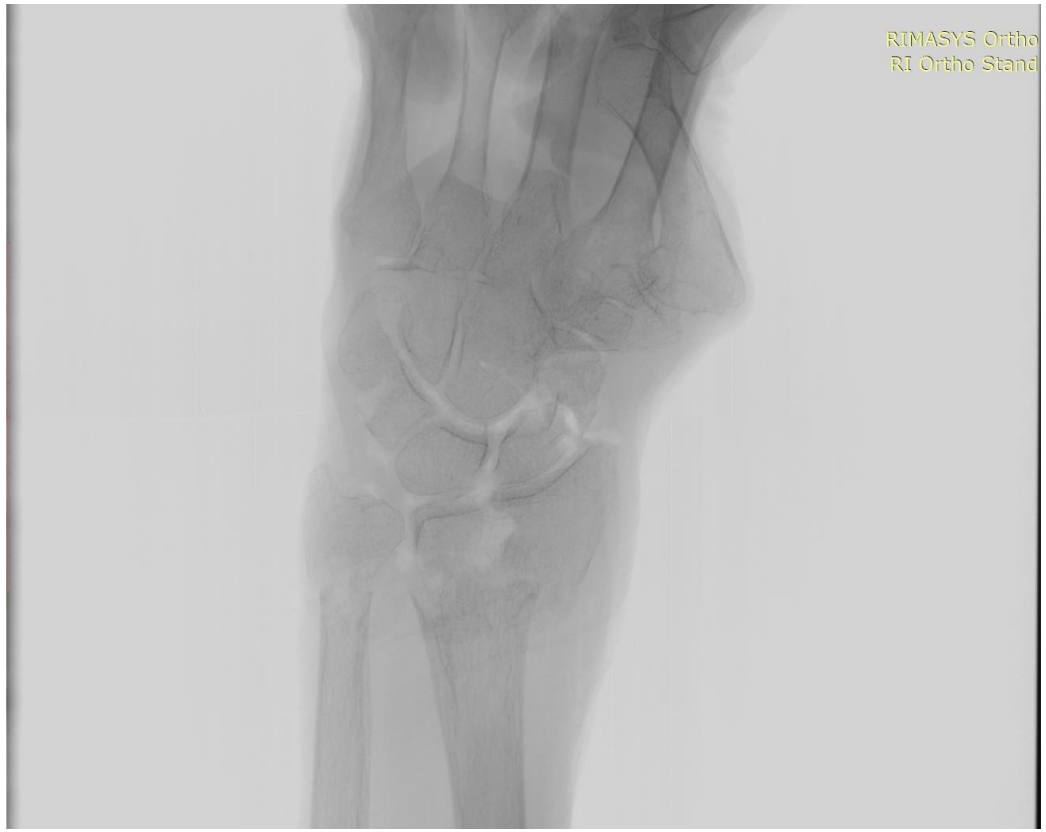
Extended specifications	
Age	92
Height [m]	1,65
Weight [kg]	31
BMI	12
Sex	Female
Side	Left

Post-fracturing

4

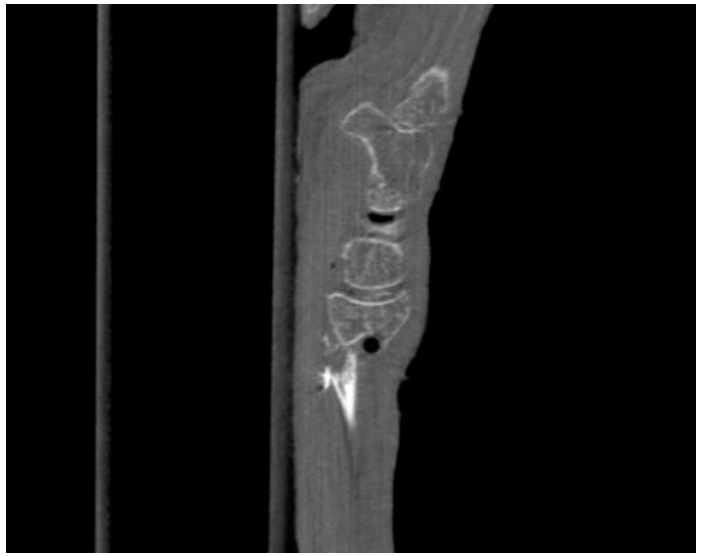
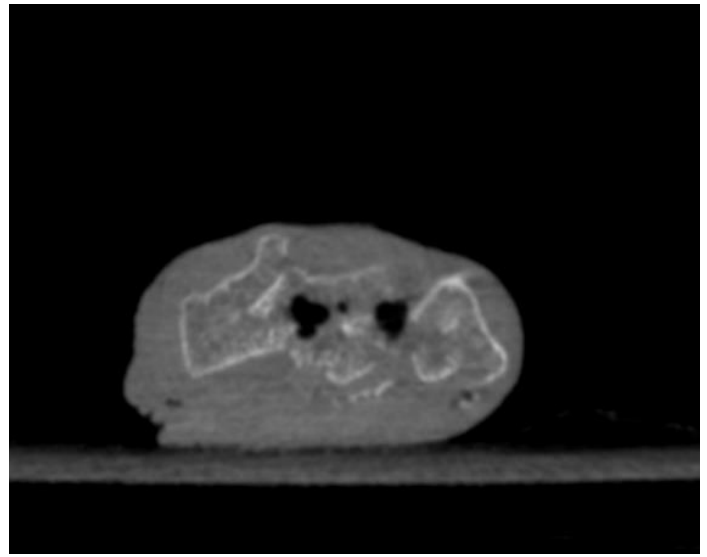
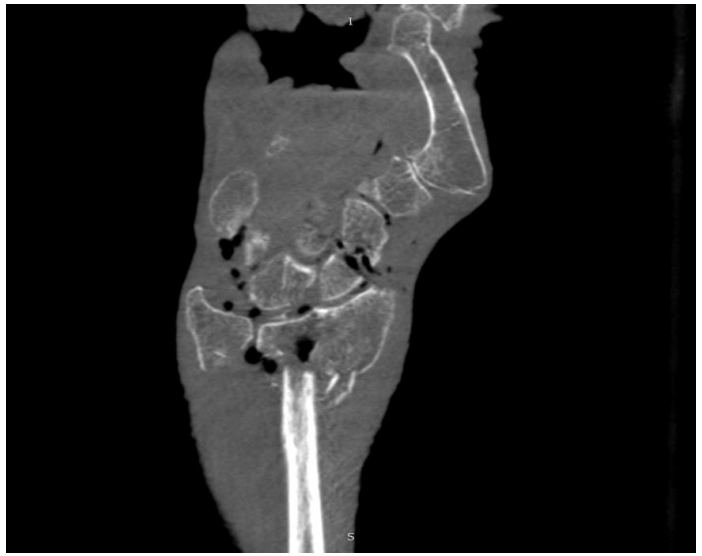
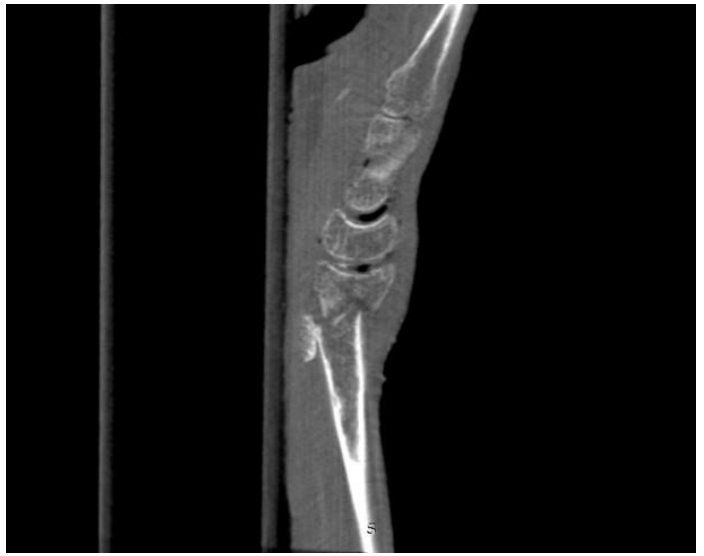
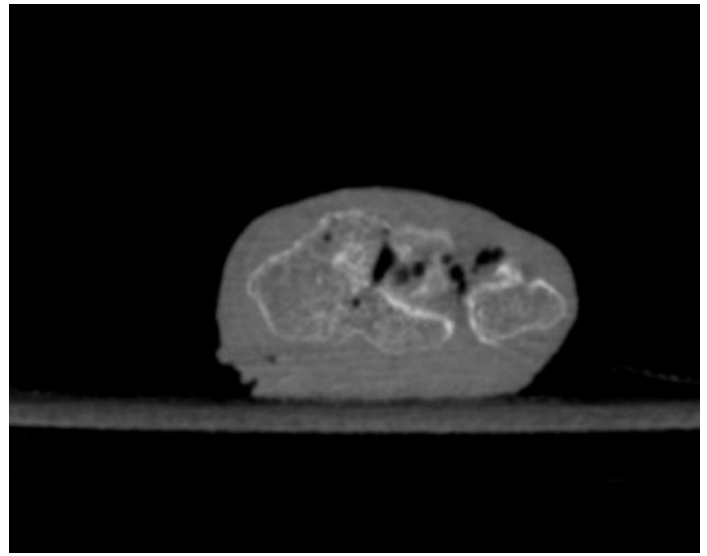
Post-fracturing – Distal Radius (L-190079-L)

Anterior-Posterior



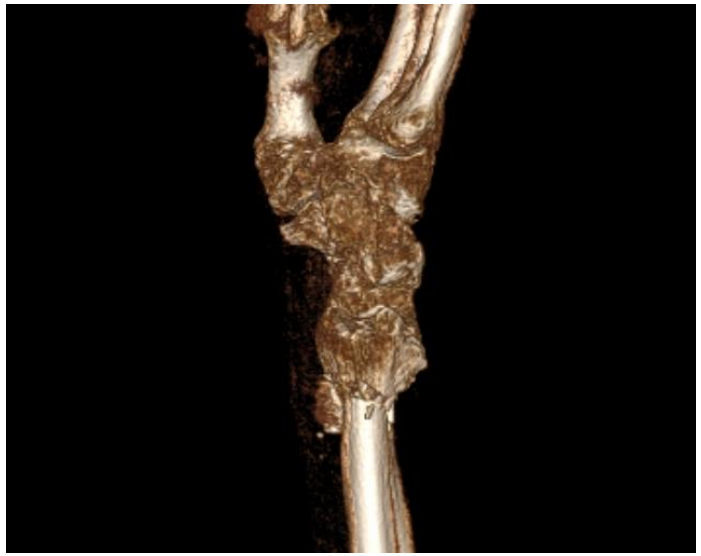
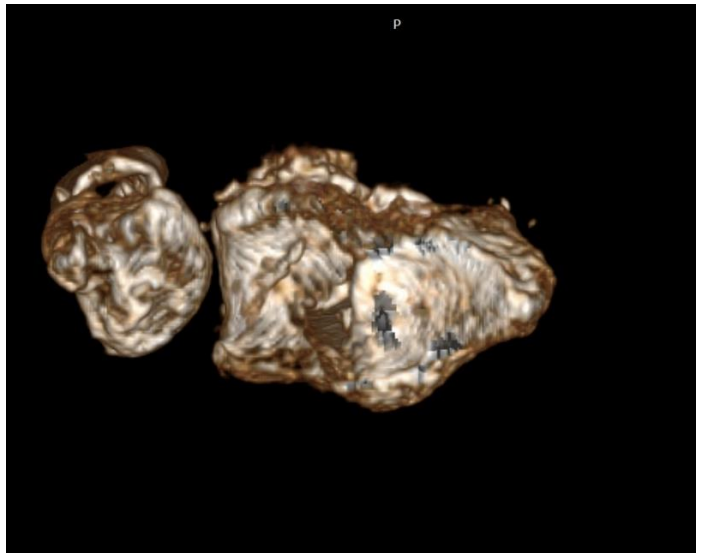
Lateral

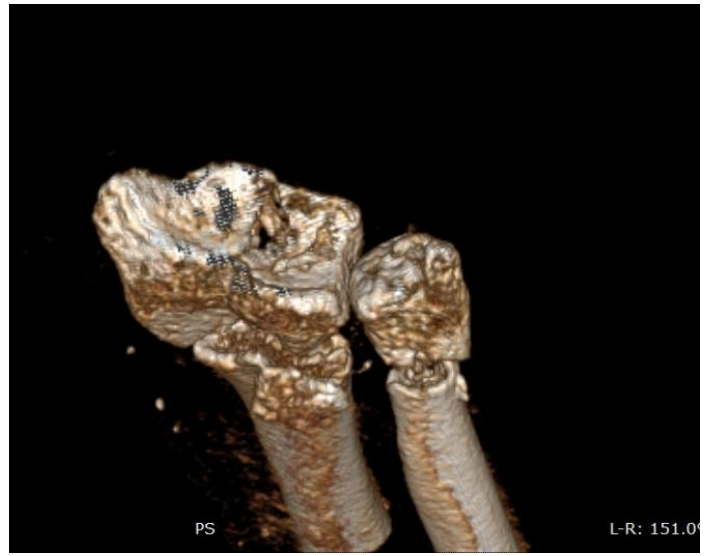
Post-fracturing – Distal Radius (L-190079-L)

4 Post-fracturing – Distal Radius (L-190079-L)





Post-fracturing – Distal Radius (L-190079-L)

Segmentierung zum 3D Druck folgt noch

5

Post-fracturing – Distal Radius (L-190623-R)

Extended specifications	
Age	67
Height [m]	1,70
Weight [kg]	51
BMI	18
Sex	Female
Side	Right

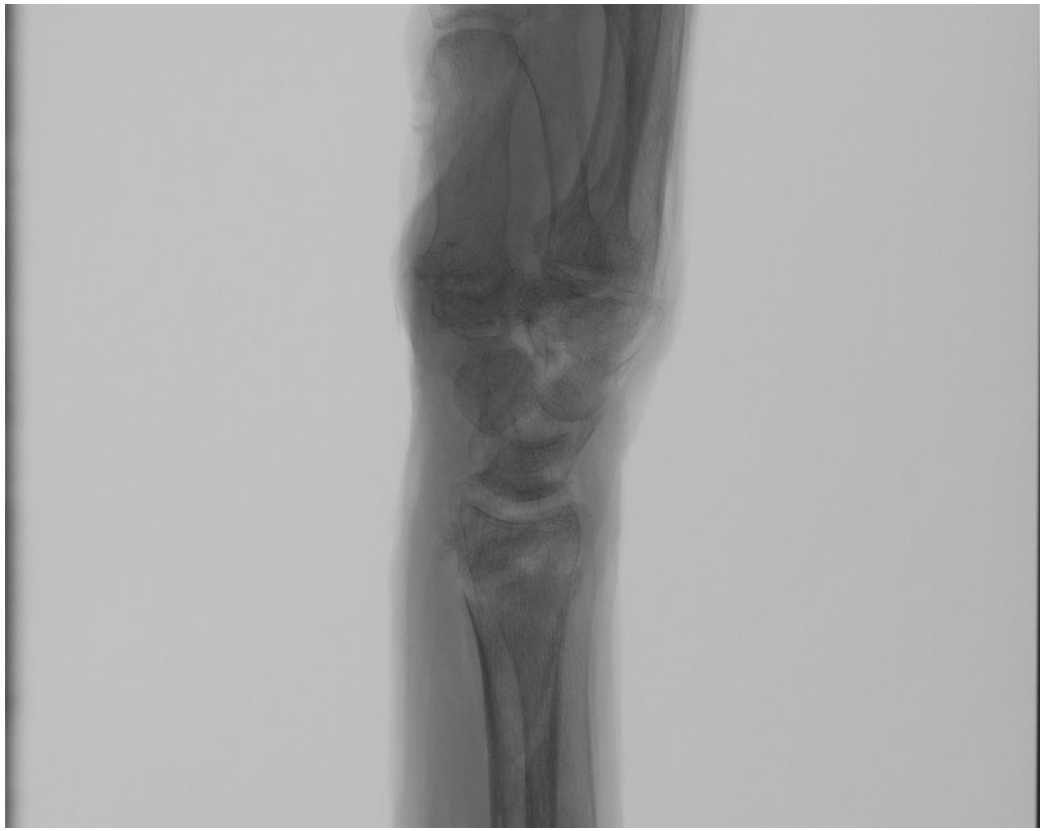
Post-fracturing

5

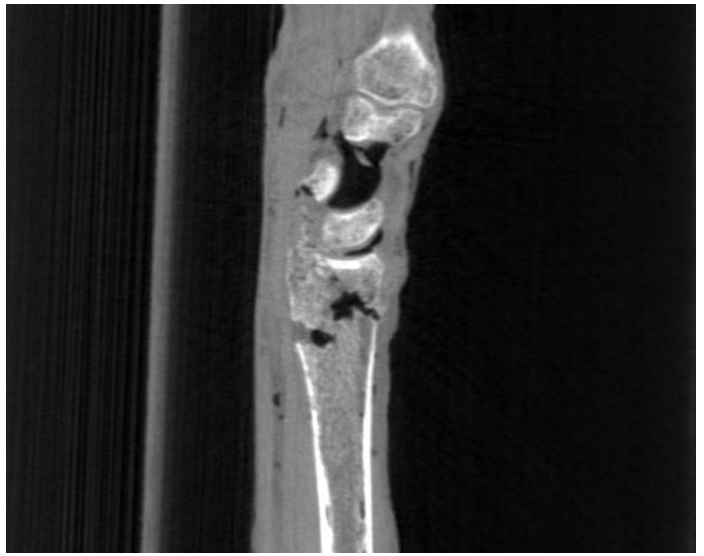
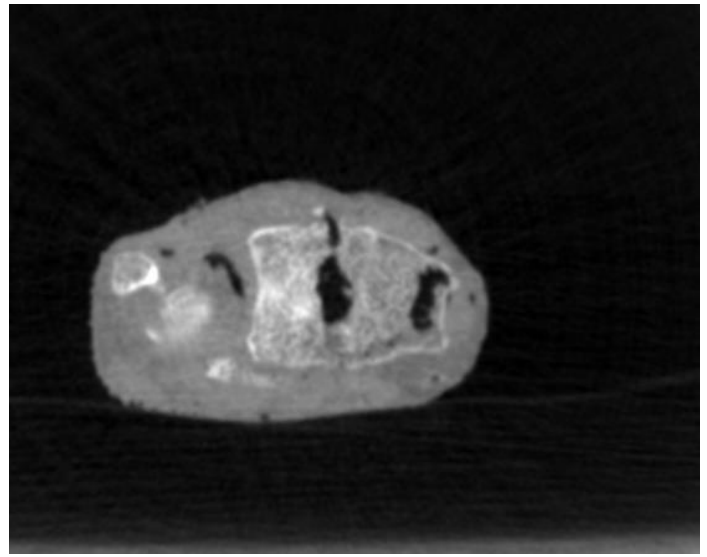
Post-fracturing – Distal Radius (L-190623-R)

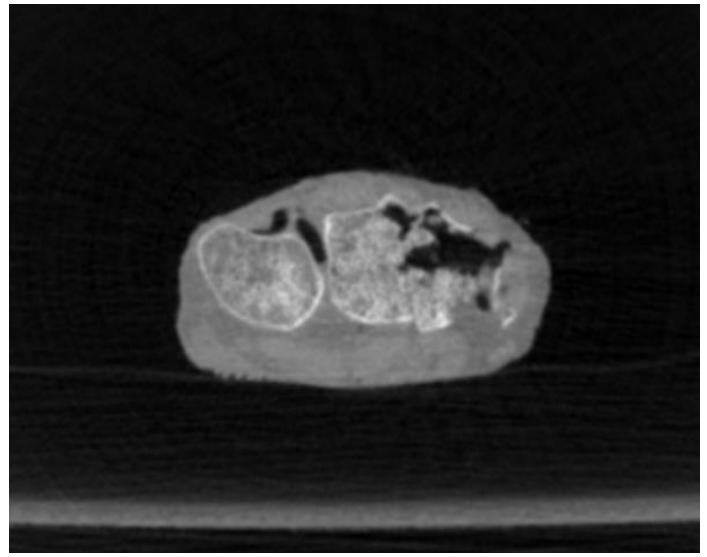
Anterior-Posterior

Lateral

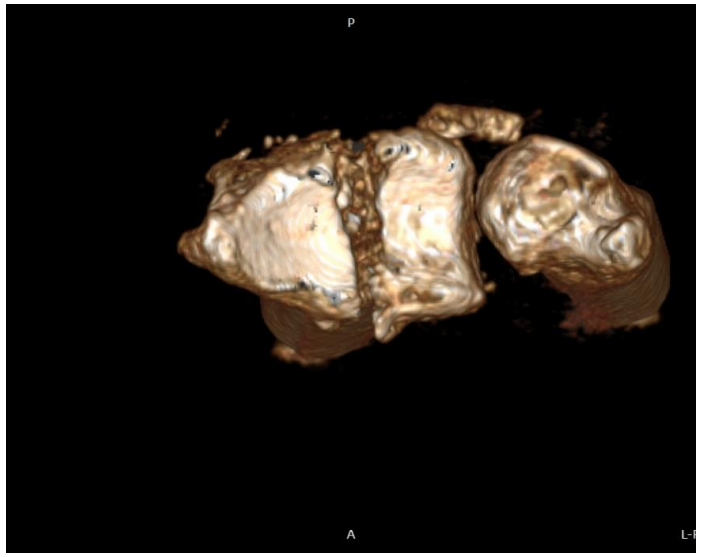


Post-fracturing – Distal Radius (L-190623-R)

Post-fracturing – Distal Radius (L-190623-R)



Post-fracturing – Distal Radius (L-190623-R)

Segmentierung zum 3D Druck folgt noch

6 Post-fracturing – Distal Radius + Skaphoid (L-190206-R)

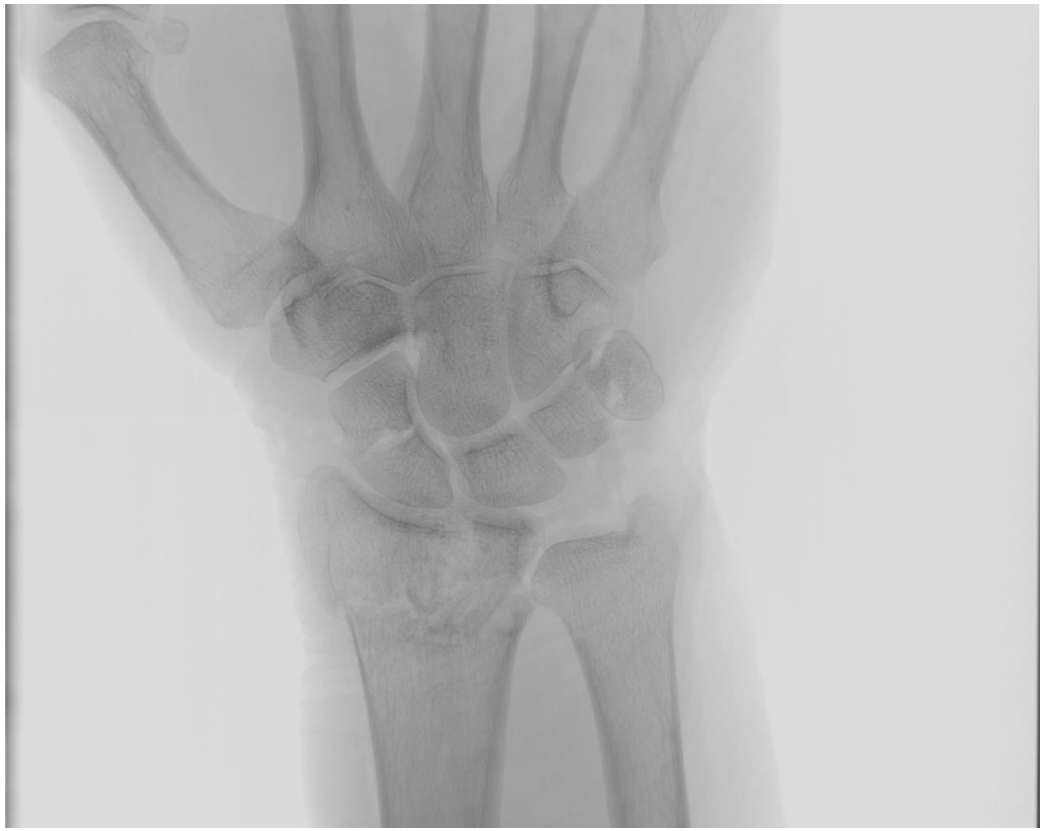
Extended specifications	
Age	60
Height [m]	1,83
Weight [kg]	54
BMI	19,08
Sex	Male
Side	Right

Post-fracturing

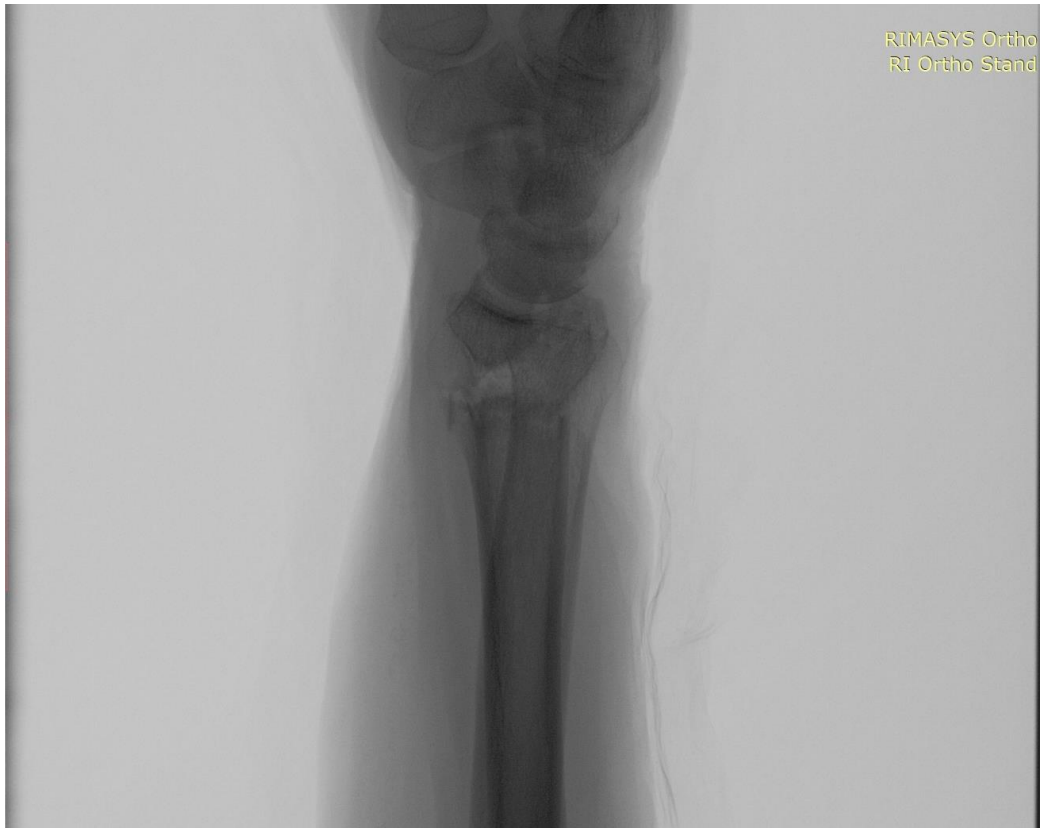
6

Post-fracturing – Distal Radius + Skaphoid (L-190206-R)

Anterior-Posterior



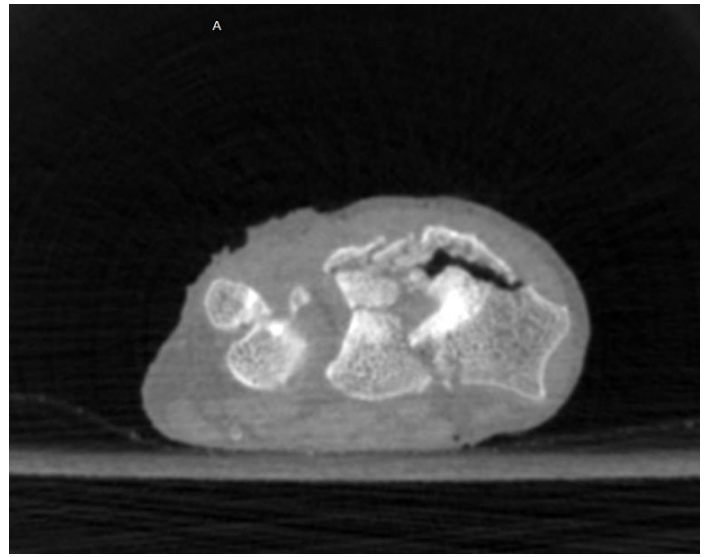
Lateral

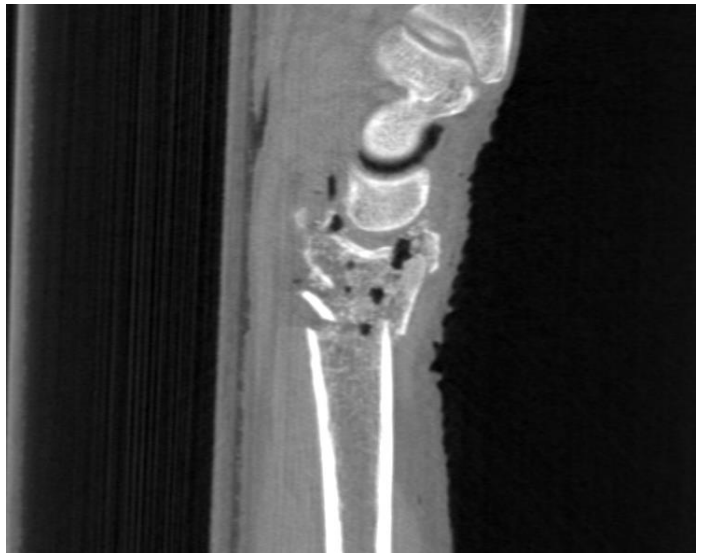
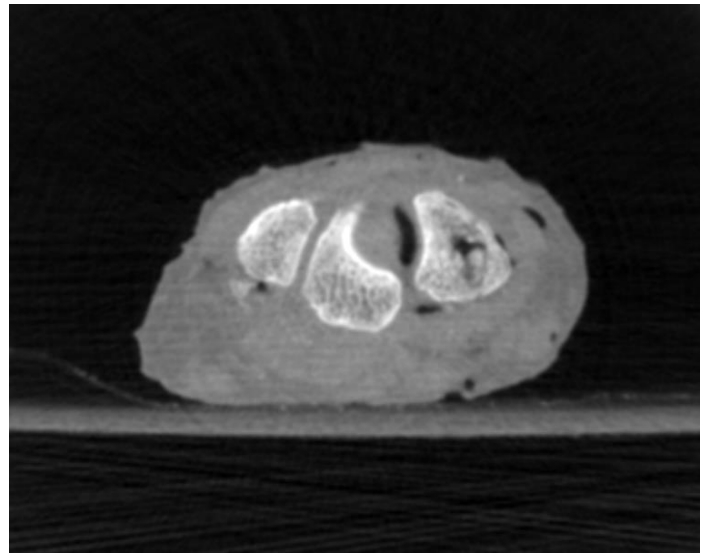


Post-fracturing – Distal Radius + Skaphoid (L-190206-R)

RIMASYS



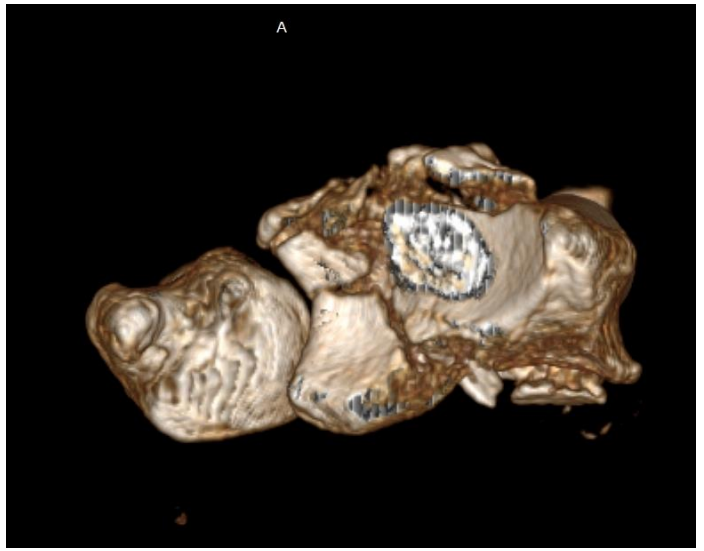


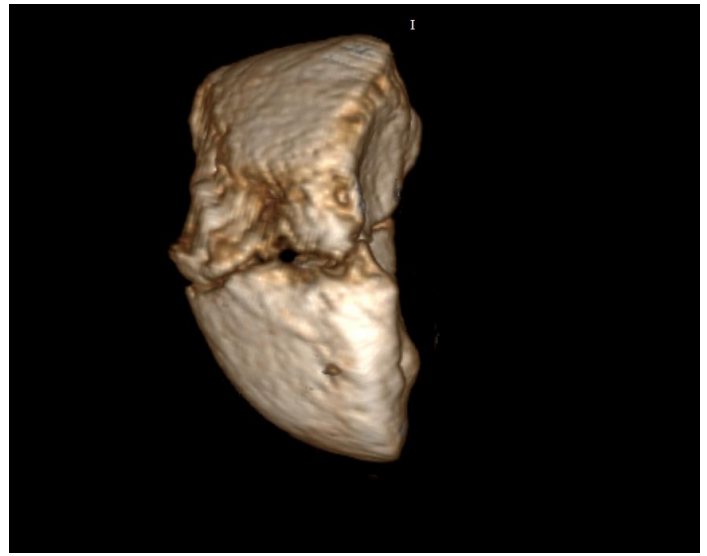



Post-fracturing – Distal Radius + Skaphoid (L-190206-R)









Post-fracturing – Distal Radius + Skaphoid (L-190206-R)

RIMASYS

Segmentierung zum 3D Druck folgt noch

7 Post-fracturing – Distal Radius + Skaphoid (L-190223-R)

Extended specifications	
Age	56
Height [m]	1,83
Weight [kg]	74
BMI	22
Sex	Male
Side	Right

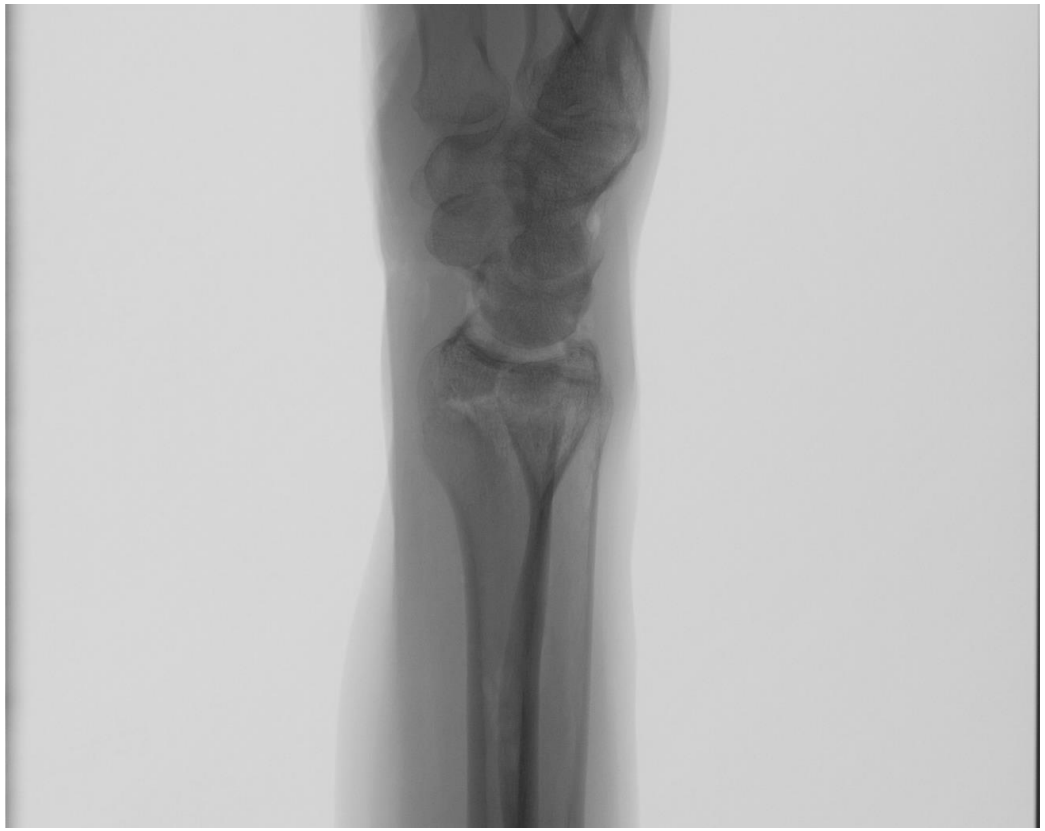
Post-fracturing

7

Post-fracturing – Distal Radius + Skaphoid (L-190223-R)

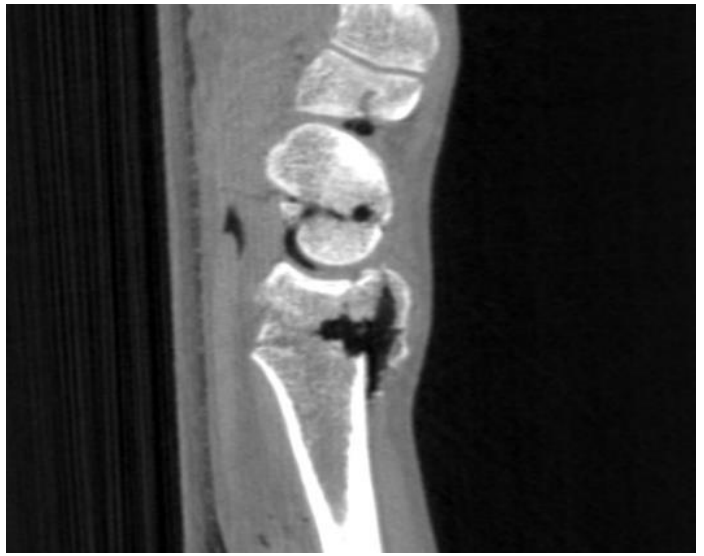
Anterior-Posterior

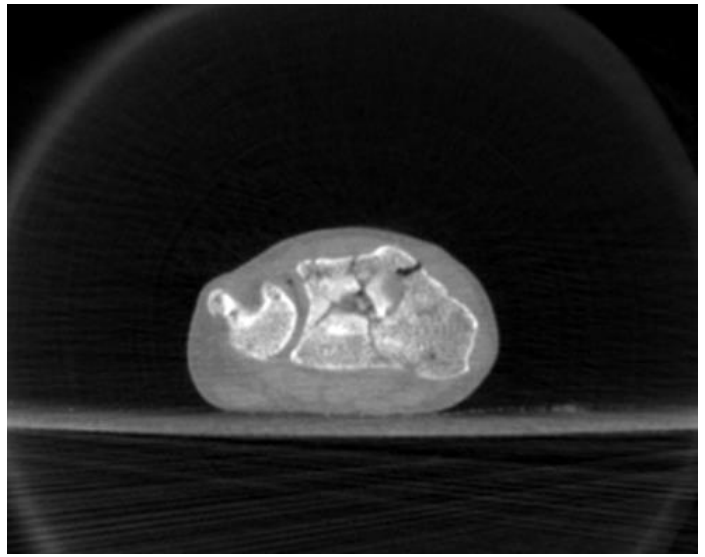
Lateral

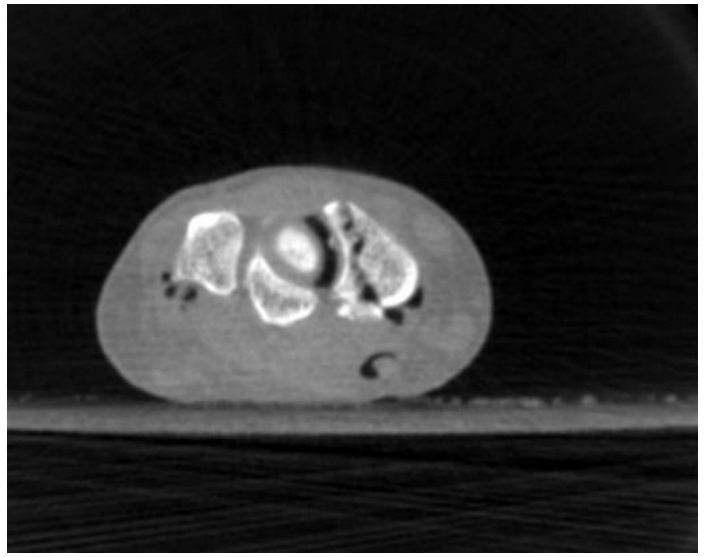


Post-fracturing – Distal Radius + Skaphoid (L-190223-R)

RIMASYS



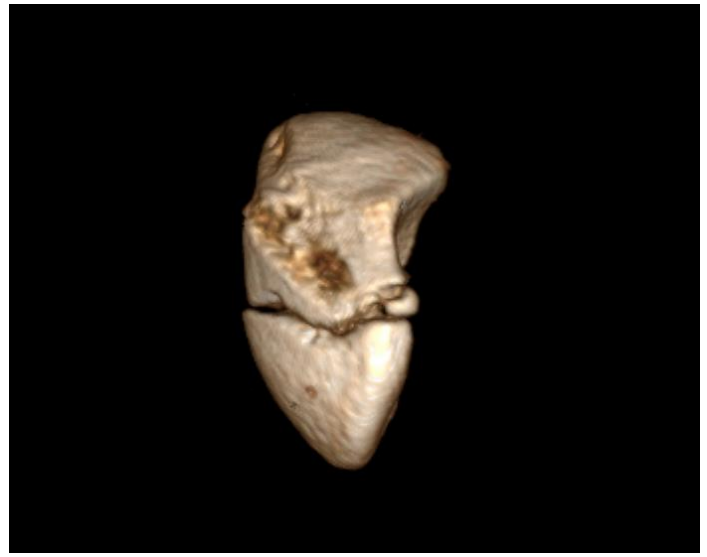




2 Post-fracturing – Distal Radius + Skaphoid (L-190223-R)





Post-fracturing – Distal Radius + Skaphoid (L-190223-R)

RIMASYS

Segmentierung zum 3D Druck folgt noch

8 Post-fracturing – Distal Radius + Skaphoid (L-190547-L)

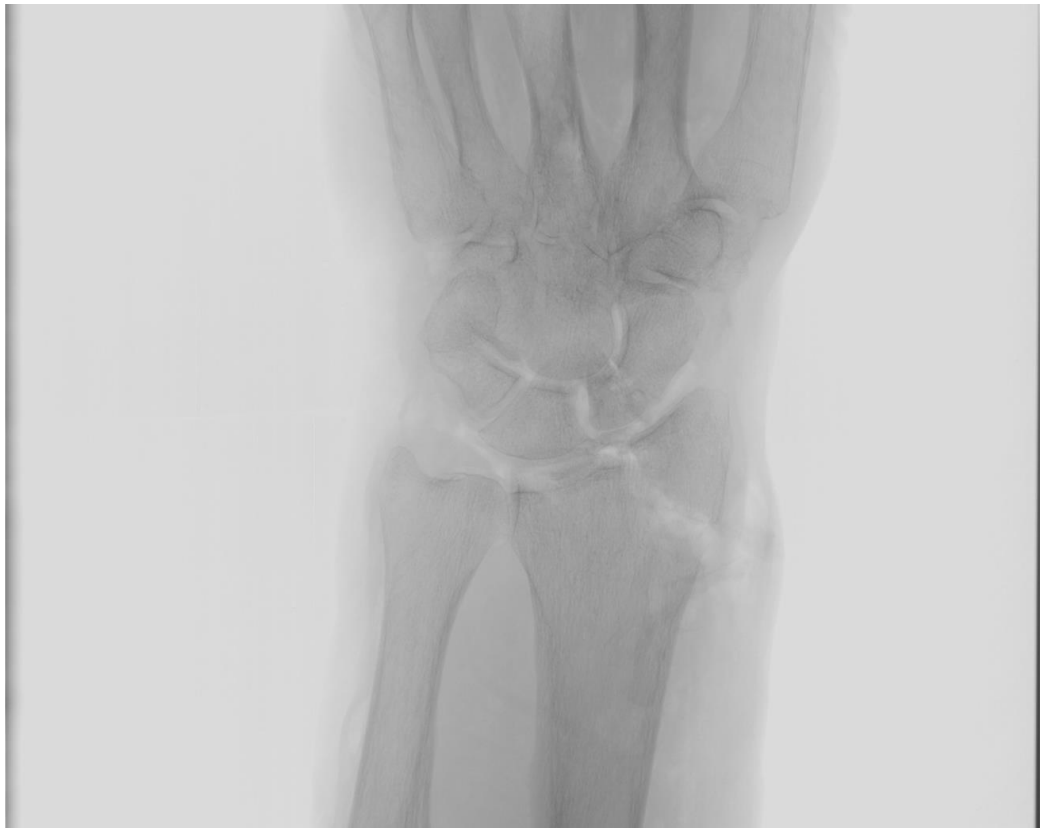
Extended specifications	
Age	81
Height [m]	1,68
Weight [kg]	49
BMI	18
Sex	Female
Side	Left

Post-fracturing

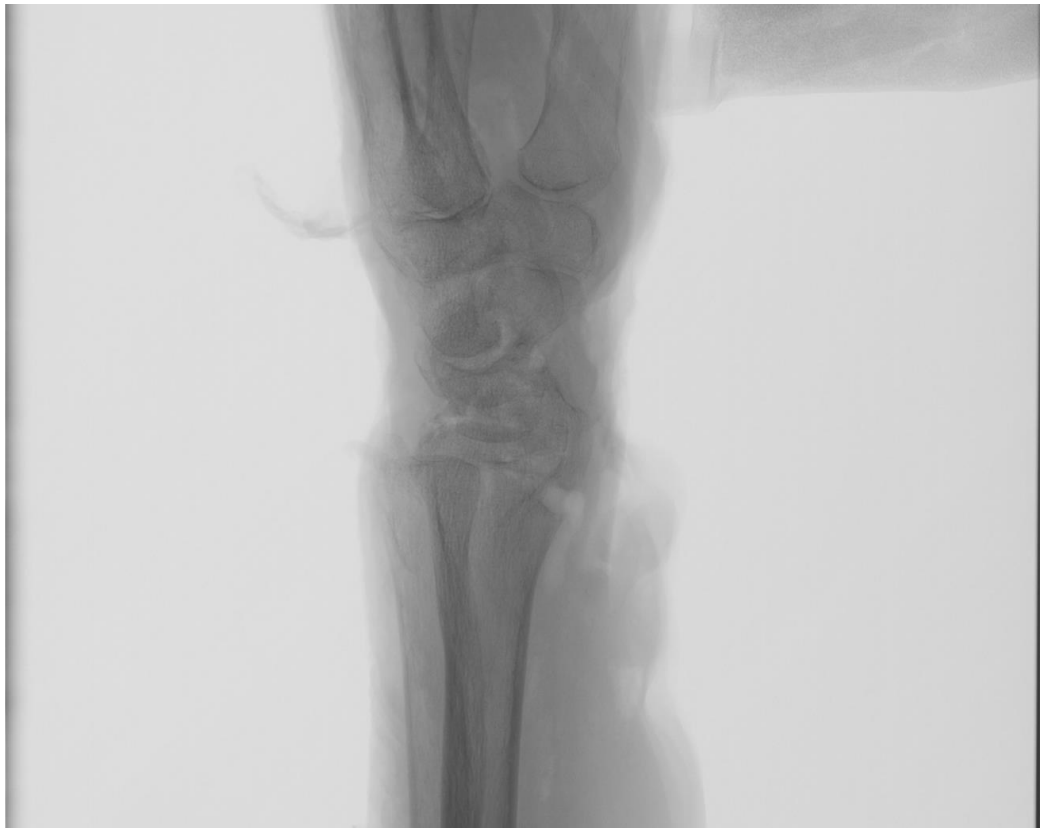
8

Post-fracturing – Distal Radius + Skaphoid (L-190547-L)

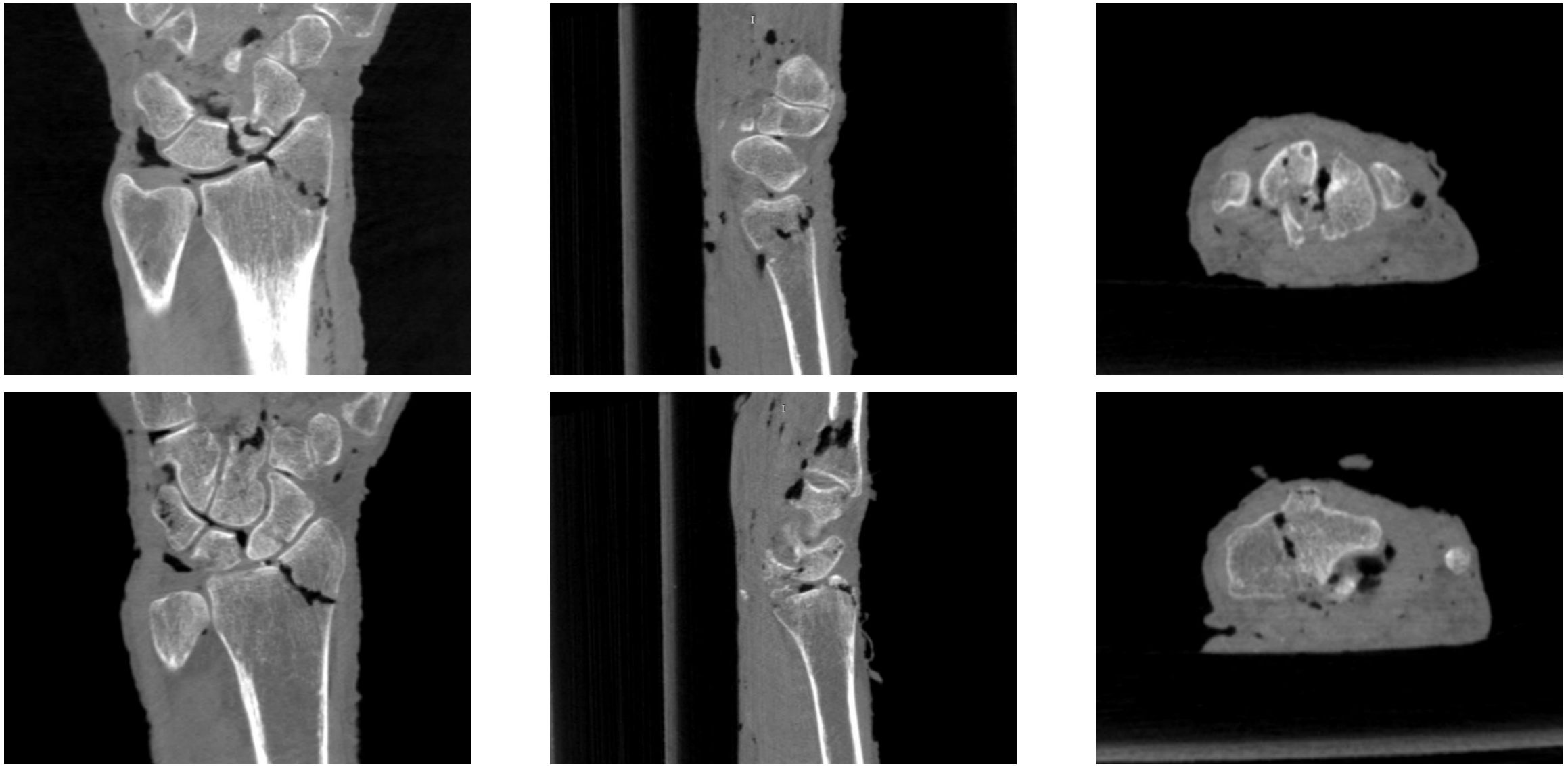
Anterior-Posterior



Lateral

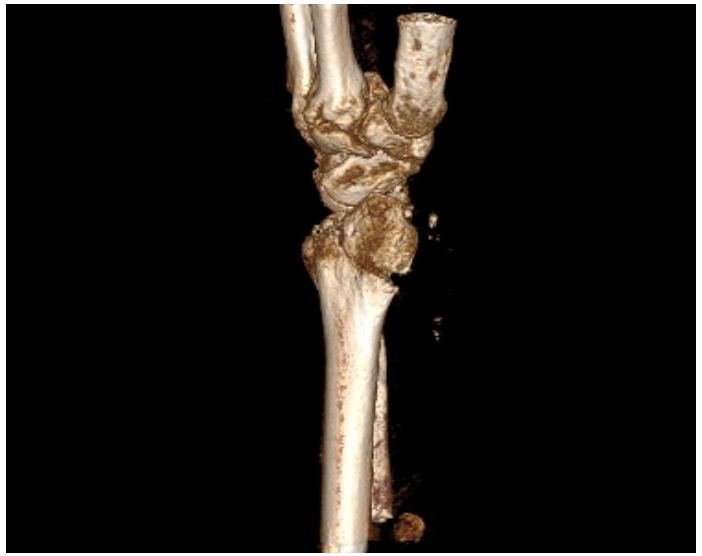
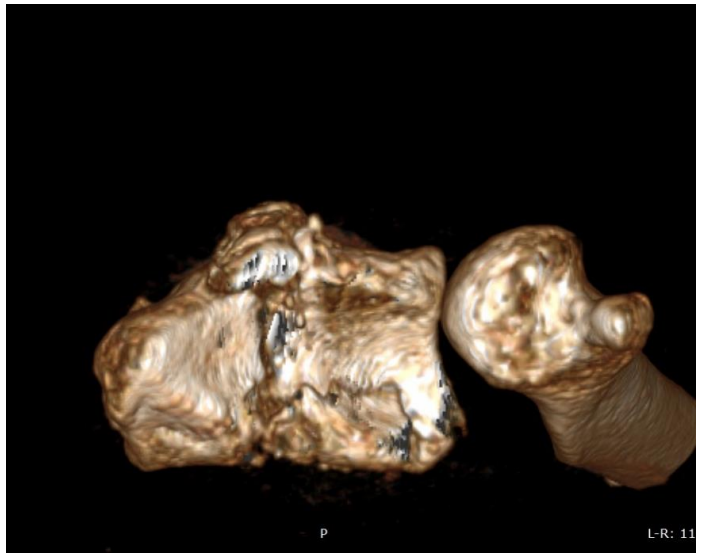


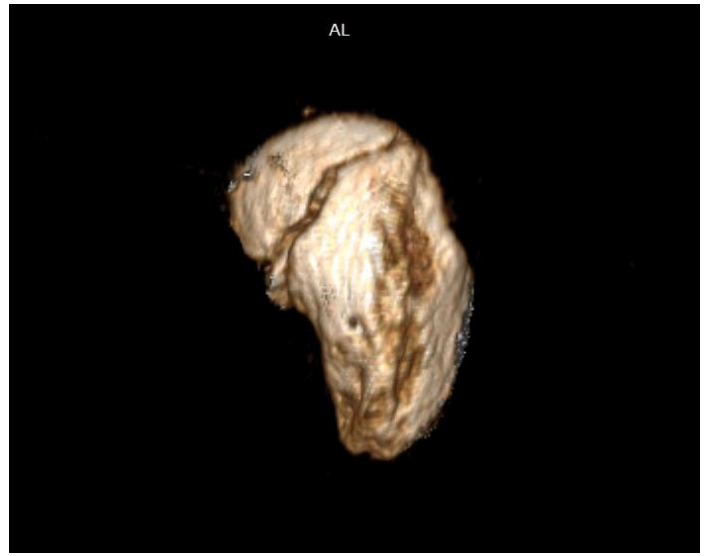
Post-fracturing – Distal Radius + Skaphoid (L-190547-L)



Post-fracturing – Distal Radius + Skaphoid (L-190547-L)





Post-fracturing – Distal Radius + Skaphoid (L-190547-L)

RIMASYS

Segmentierung zum 3D Druck folgt noch

9

Post-fracturing – Distal Radius + Skaphoid (L-190627-L)

Extended specifications	
Age	67
Height [m]	1,85
Weight [kg]	77
BMI	22
Sex	Male
Side	Left

Post-fracturing

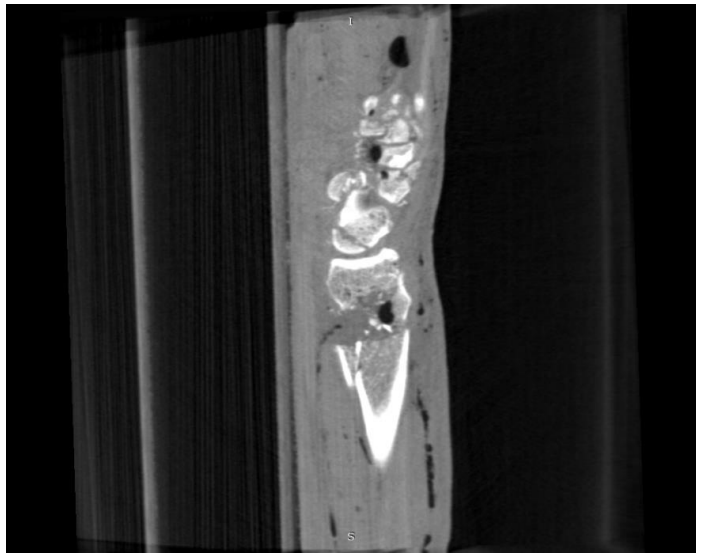
9

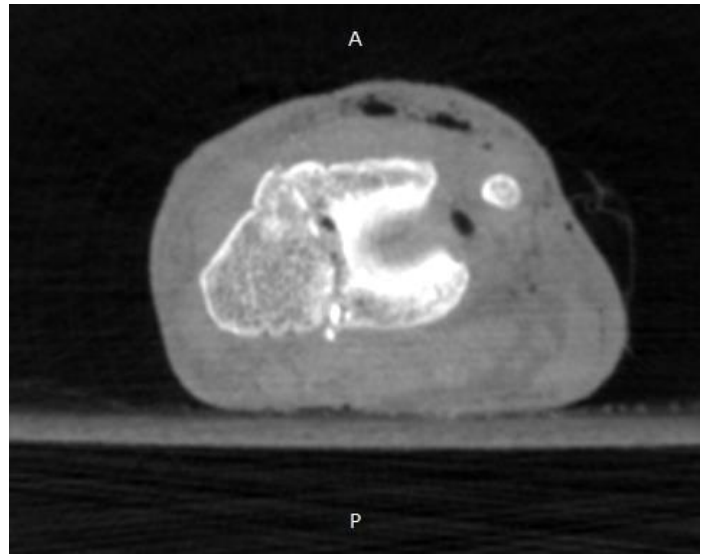
Post-fracturing – Distal Radius + Skaphoid (L-190627-L)

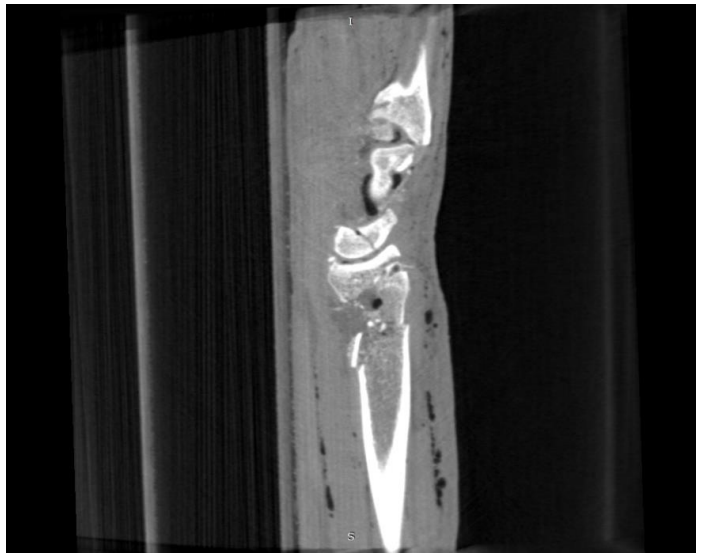
Anterior-Posterior

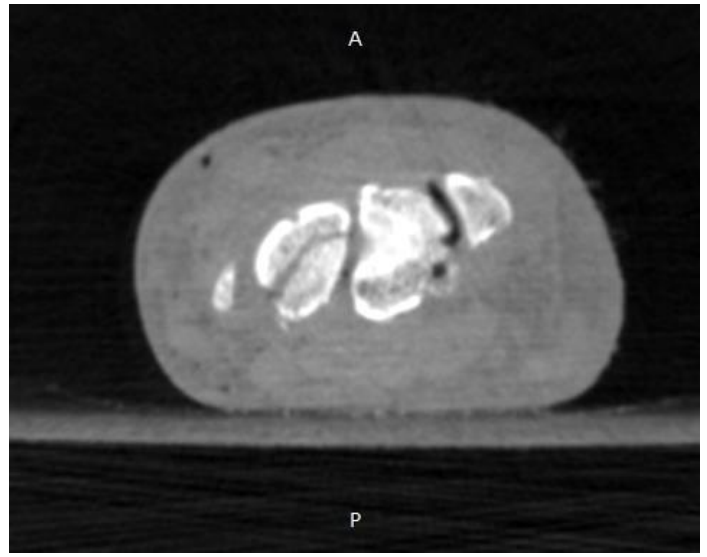
Lateral

Post-fracturing – Distal Radius + Skaphoid (L-190627-L)

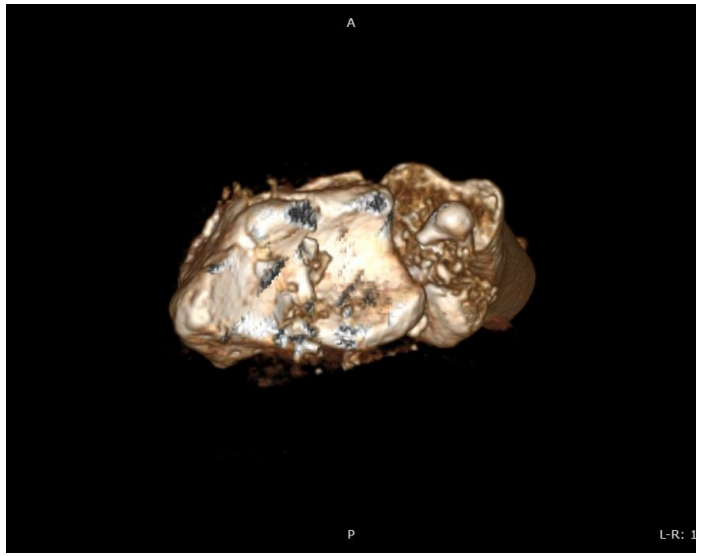


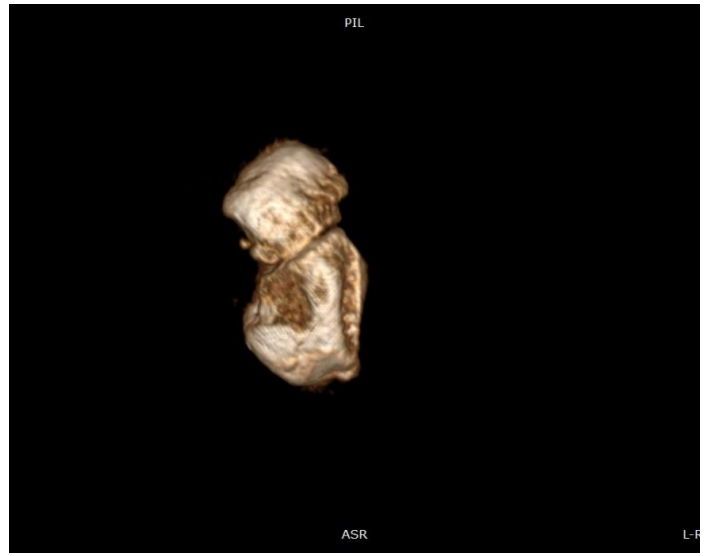






Post-fracturing – Distal Radius + Skaphoid (L-190627-L)





Post-fracturing – Distal Radius + Skaphoid (L-190627-L)

RIMASYS

Segmentierung zum 3D Druck folgt noch

10

Post-fracturing – Distal Radius + Skaphoid (L-190620-L)

Extended specifications	
Age	68
Height [m]	1,80
Weight [kg]	85
BMI	26
Sex	Male
Side	Left

Post-fracturing

10

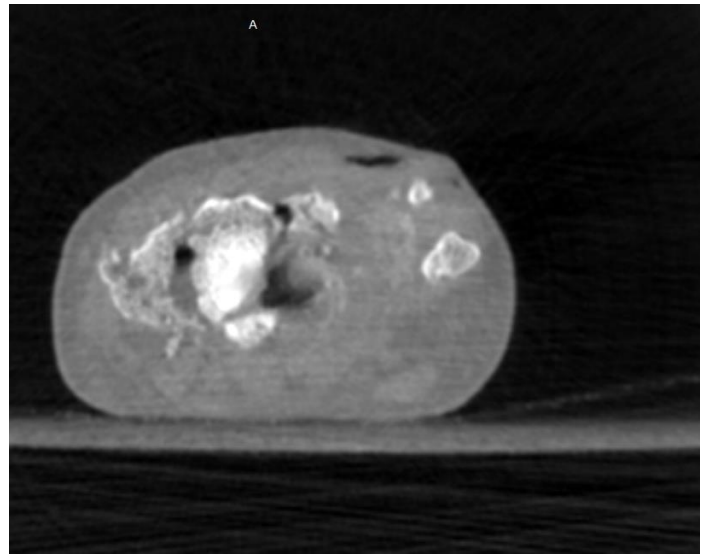
Post-fracturing – Distal Radius + Skaphoid (L-190620-L)

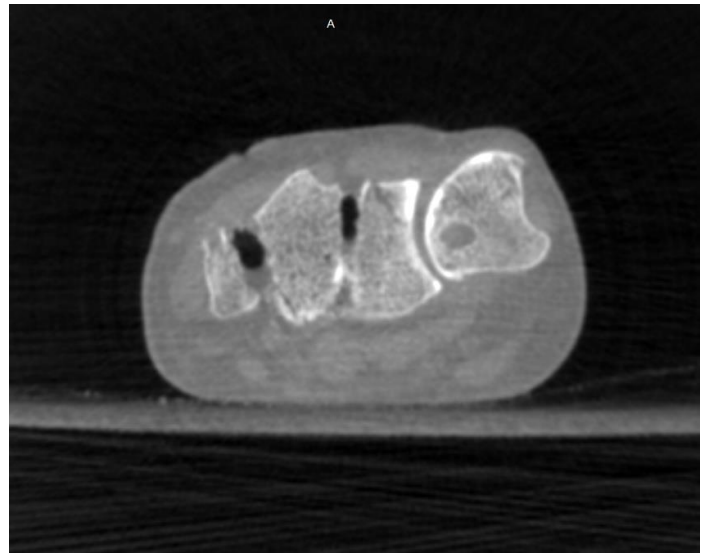
Anterior-Posterior

Lateral

Post-fracturing – Distal Radius + Skaphoid (L-190620-L)

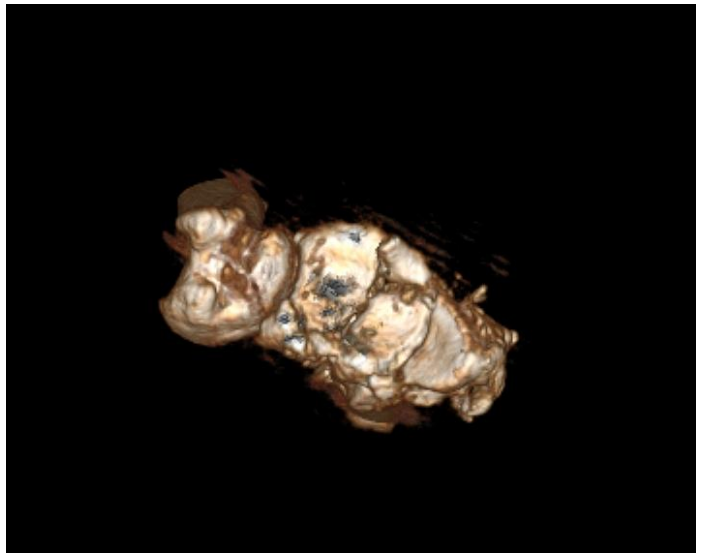
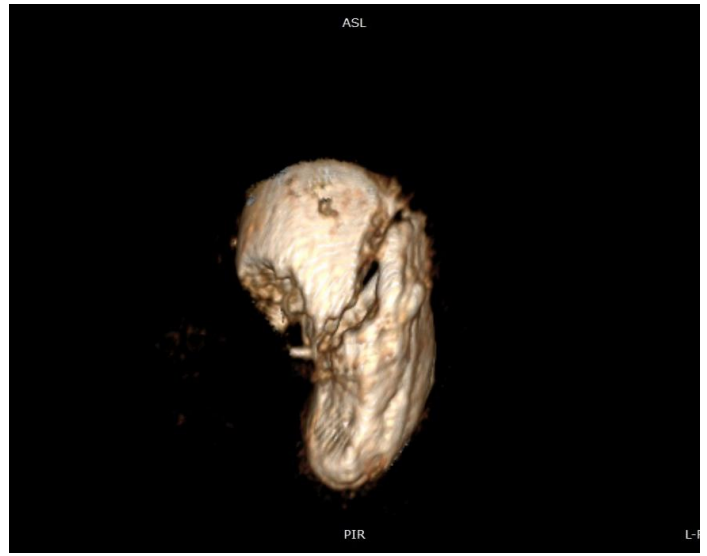




Post-fracturing – Distal Radius + Skaphoid (L-190620-L)



Post-fracturing – Distal Radius + Skaphoid (L-190620-L)

RIMASYS

Segmentierung zum 3D Druck folgt noch

TRAUMA ACADEMY
c/o RIMASYS GmbH
Nattermannallee 1
50829 Cologne
GERMANY

Mail: admin@trauma-academy.com

Managing director: Marc Ebinger, Robert Holz

Explore more via www.trauma-academy.com