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Academy

ENABLING EXCELLENCE

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# Elbow Masterclass Course at DKOU Berlin

Instructor: Oliver Trapp

For surgeons

October 24<sup>th</sup> 2019 in the Wetlab at DKOU2019 in Hall 4.2

# TRAUMA ACADEMY CONCEPT

Lifelike simulation meets surgical training 4.0



# Course agenda with lifelike fractures is blended with digital innovations

hands-on wet lab

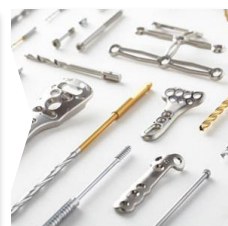


Process

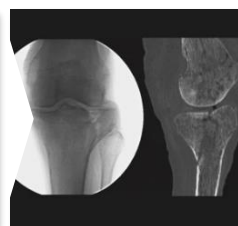
*Recap steps of fracture management*



*Get to know different implant systems*



*Diagnosis along X-Ray & CT*



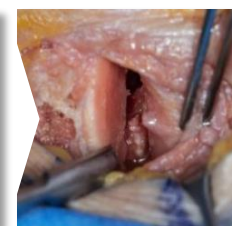
*Plan in groups & present to plenum*



*Approach planning*



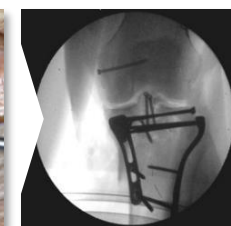
*Fracture treatment*



*Reduction and osteosynthesis*



*Treatment result*



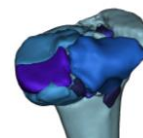
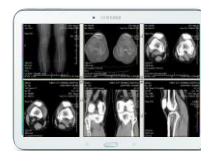
Tools



*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*



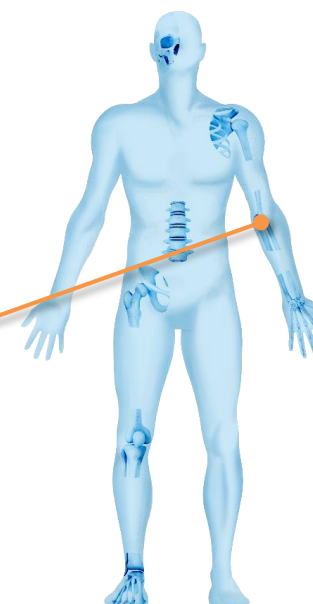
*Case discussion in plenum*

# Agenda enables end-to-end Trauma Management

October 24<sup>th</sup>

## Workshop with specimen & „live operation“ Elbow

Time	Agenda	Dauer
14:00	<b>Organise your plan</b> Introduction & Welcome	20 min
14:20	<b>Know your implants</b> Industry Speed-Dating	25 min
14:45	<b>Define your Plan</b> Planning with X-ray, CT, 3D-prints	40 min
15:25	<b>Operate your Plan</b> Hands-on Wetlab Dist Humerus	120 min
17:25	<b>Defend your Plan</b> Presentation & discussion of results	30 min
17:55	Closing	5 min



# Strong team of involved parties to create excellence

## Industry Partner



## Faculty

Name	Prenome	Country	Status
Katthagen	Christoph	Germany	Confirmed
Mader	Konrad	Germany	Confirmed
Maier	Klaus-Jürgen	Germany	Confirmed
Meffert	Rainer	Germany	Confirmed
Siebenlist	Sebastian	Germany	Confirmed

## Moderator

Trapp	Oliver	Germany	Confirmed
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# Course with High-Potential participants



Vorname

Name

Klinik

TBD

# Content of industry presentation – „Know your Implants“

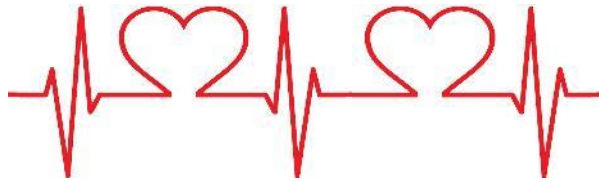
Organize your **plan**

**Know your implant**

Define your **plan**

Operate your **plan**

Defend your **plan**



**SURGEON**



**SPEED-DATING**

**MEETS**



**IMPLANT PARTNER**



# Strategy development as a group – „Define your plan“

Organize your **plan** → Know your **implant** → **Define your plan** → Operate your **plan** → Defend your **plan**

## Tools to define the plan

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

*X-ray scans*

*CT scans*

*VR model*

*3D prints*



## 15min strategy development & 5min presentation



1. **Classification**
  - Displacement
  - Articular/Non-Articular
  - Fragmente
  - Soft tissue injuries
2. **Access**
  - Which and how many?
  - Minimal or extended access
  - Risks
3. **Reposition**
  - Tools
  - Temporary Fixation
4. **Fixation plan**
5. **Risks, alternatives and patient needs**



# Hands-on workshop with prefabricated specimen – „Operate your plan“

Organize your **plan**

Know your **implant**

Define your **plan**

Operate your **plan**

Defend your **plan**

## Lifelike fractures at Wetlab



## Medical treatment supported by imaging



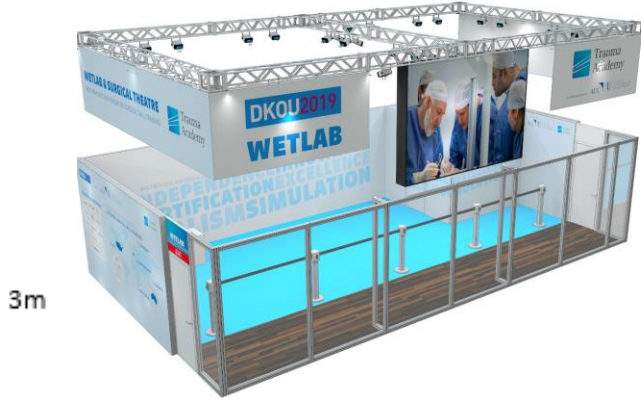
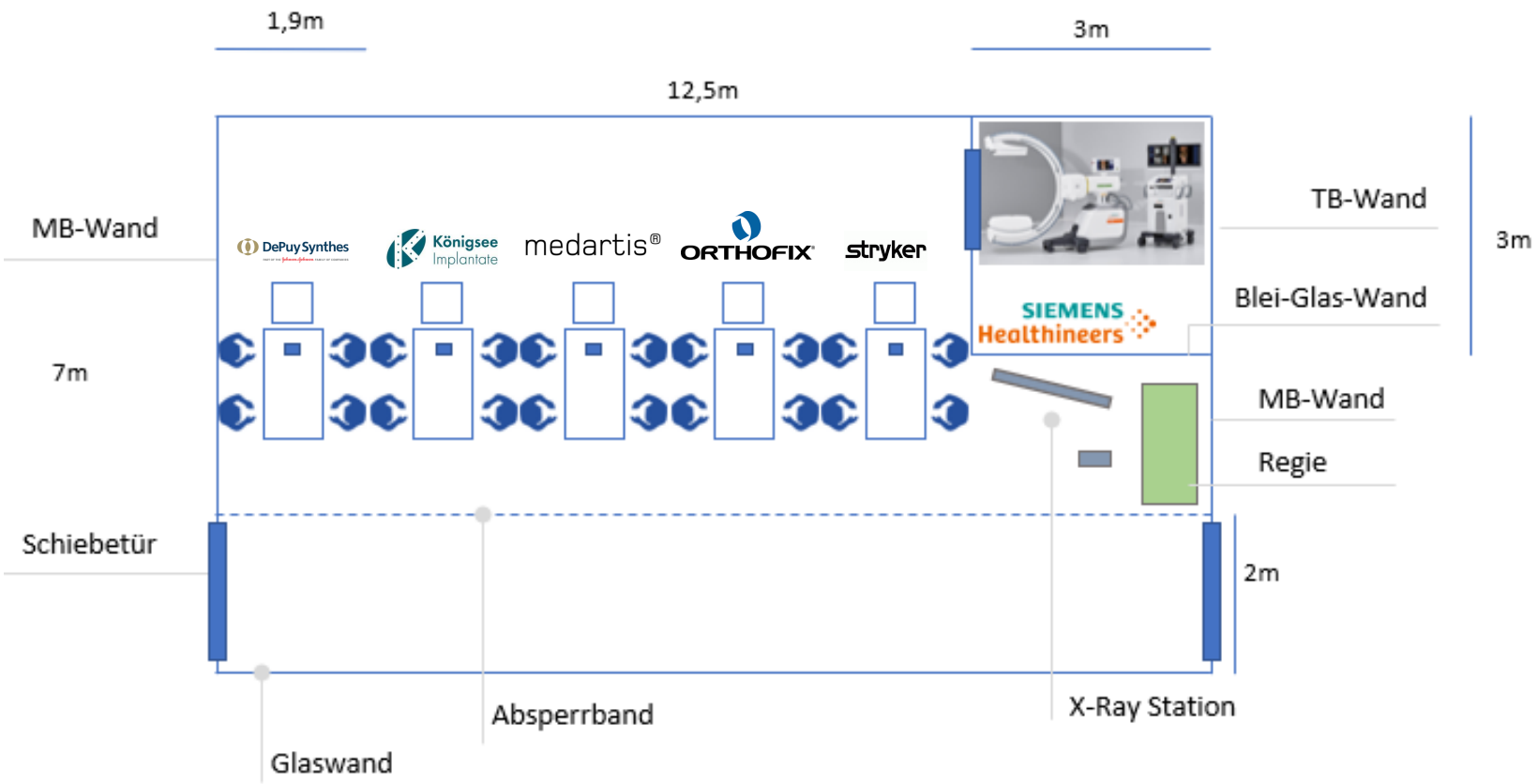
*Fractured specimen*

&








*Intraoperative 3D fluoroscopy*

# DKOU 2019 WETLAB AT EXHIBITION HALL 4.2

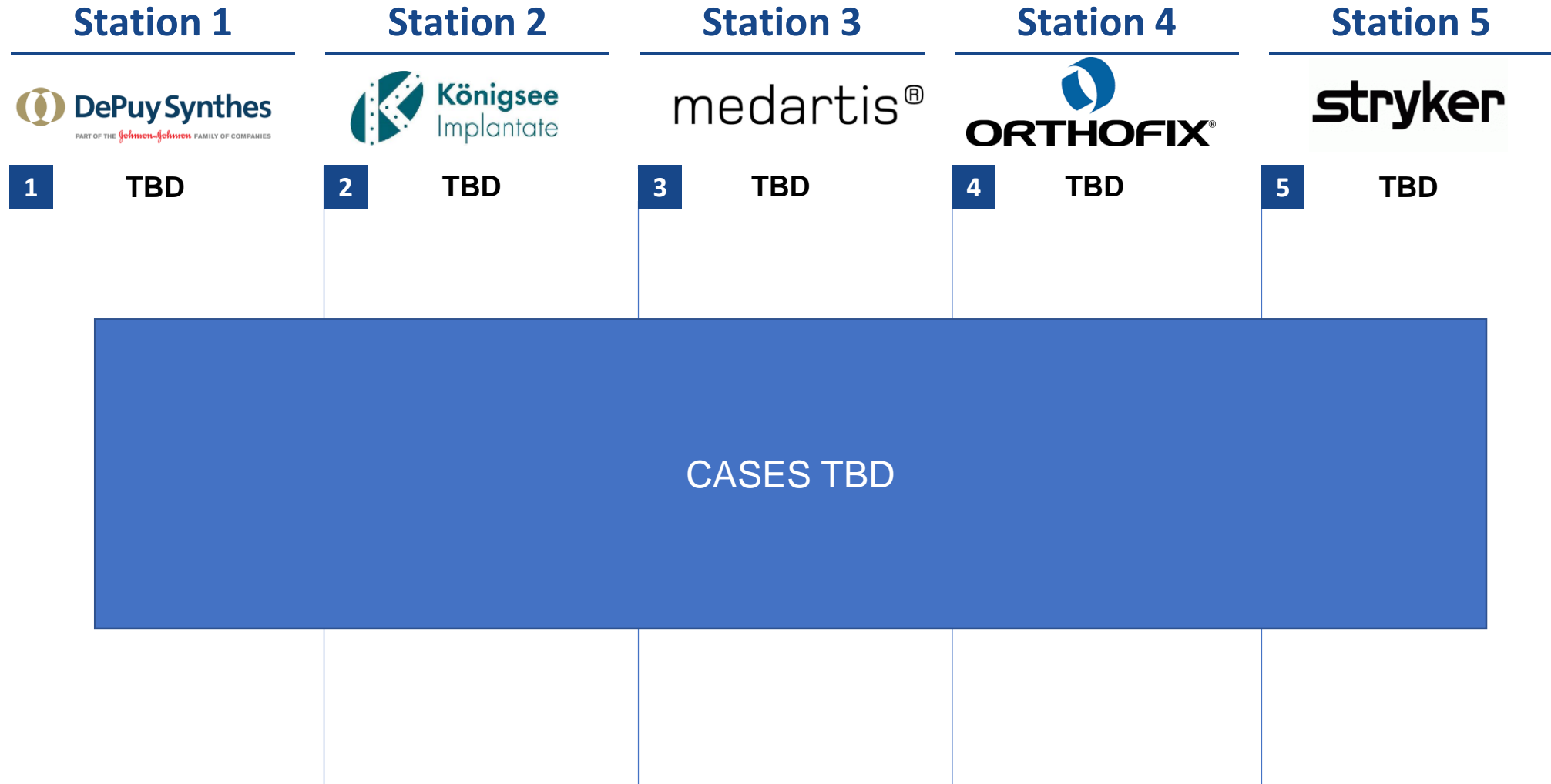


# Working places– Elbow

	Station 1	Station 2	Station 3	Station 4	Station 5
Industriepartner	 DePuy Synthes <small>PART OF THE JOHNSON-JOHNSON FAMILY OF COMPANIES</small>	 Königsee Implantate	 medartis®	 ORTHOFIX®	 stryker
Instruktor	Katthagen	Maier	Meffert	Mader	Siebenlist
Teilnehmer 1	TBD	TBD	TBD	TBD	TBD
Teilnehmer 2	TBD	TBD	TBD	TBD	TBD
Teilnehmer 3	TBD	TBD	TBD	TBD	TBD

# The „Elbow“– challenges at DKOU

Details im Appendix



# Presentations and learnings from the Wetlab – „Defend your plan“

Organize your **plan** → Know your im**plant** → Define your **plan** → Operate your **plan** → Defend your **plan**

## Benefits from pre-operative planning & intra-/post OP X-ray



&



## 5min presentation of treatment

- Description & explanation of differences between planned and actual treatment?
- Challenges or surprises?
- How did you solve it?
- What would you do differently next time?
- What are your new findings? What is your greatest learning?

## International Elbow Master Course

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***Let's elevate surgical  
education to the next level.***



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