

Workflow innovation in the hybrid OR space

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Disclosure

Speaker name:

Heiko Wendorff

I have the following potential conflicts of interest to report:

- Consulting for philips
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

- I do not have any potential conflict of interest

Workflow innovations

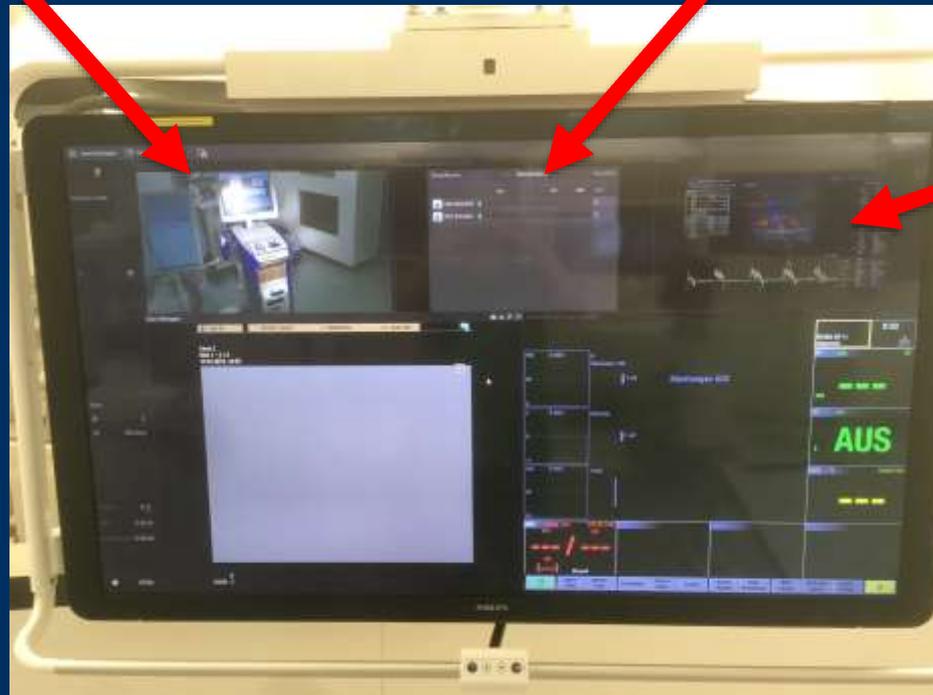
1. Procedure cards (Screenlayout, Checklists)
2. Complete Systemcontrol inside OR
3. Intraoperative measurement (length, stenosis)
4. Preoperative CT/MRT-Visualisation by Brainlab BUZZ-System
5. New system geometry with unlimited positioning flexibility



Procedure cards



-Individual settings of the monitor in the OR
(ECG, IVUS, Ultrasound, X-Ray, analysis,..)

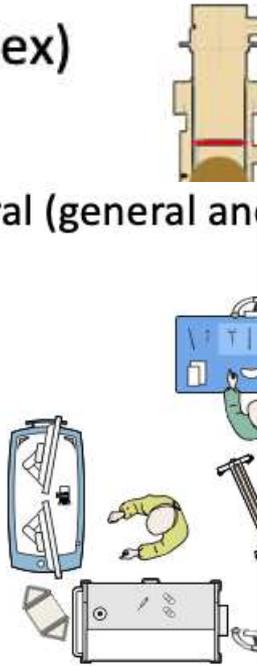


Procedure cards

-individual institution specific documents
(Safety checklist, clinical setups)

EVAR (complex)

Peripheral (general an)



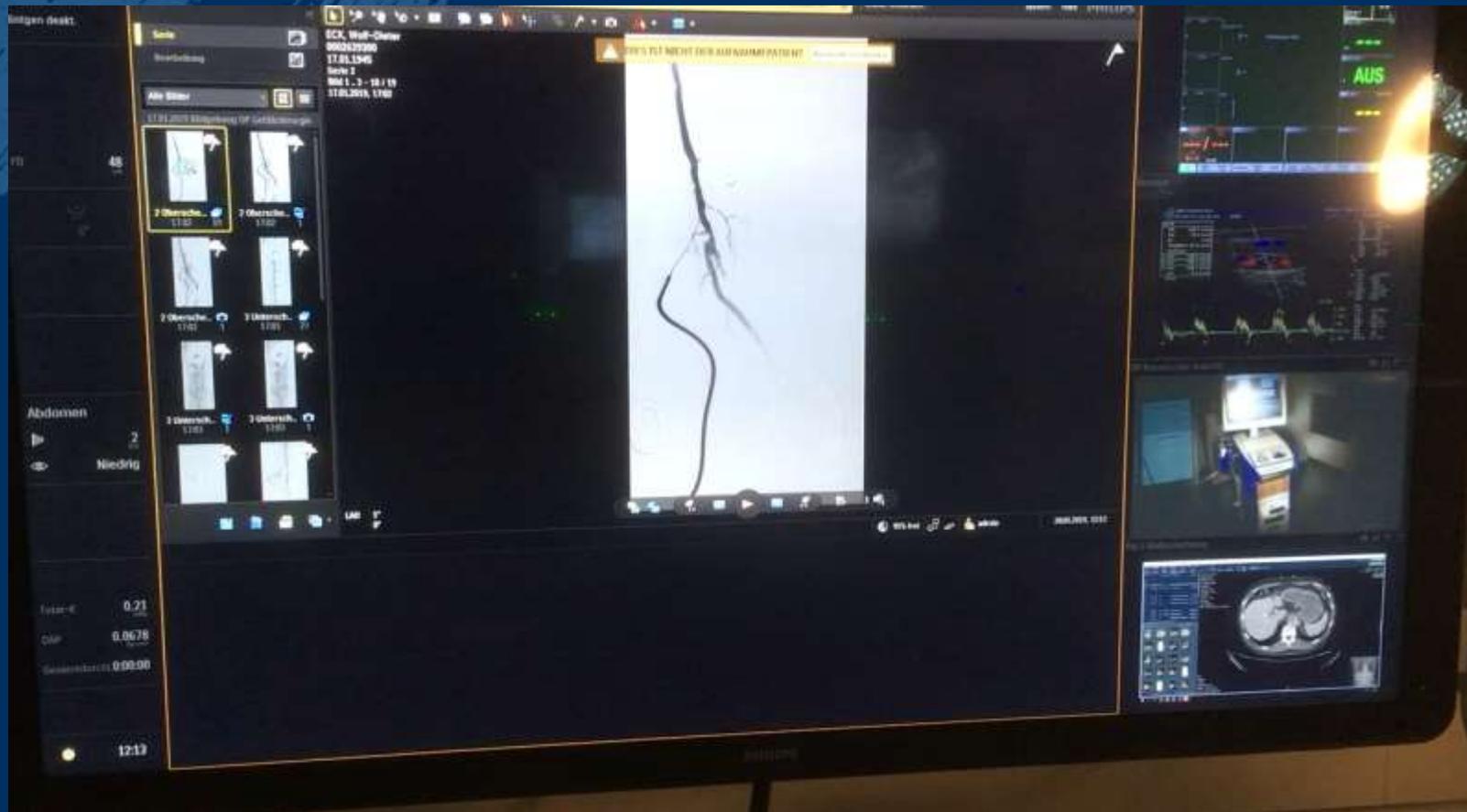
Gefäßchirurgische Sicherheits-Checkliste V11 Patientenaufkleber

Sign In	Time Out	Sign Out
<p>VOR der Narkose</p> <input type="checkbox"/> Patient bestätigt: -Identität -Körperseite (markiert?) -Eingriff -Einverständnis <input type="checkbox"/> Anästh. Check (Labor,...) Bekannte Allergien <input type="checkbox"/> Ja: _____ <input type="checkbox"/> Nein <input type="checkbox"/> Antibiotikaprophylaxe notwendig? <small>Gesamt- + lokal- + für die Stelle vor Schnitt</small> Blutkonserven vorhanden? <input type="checkbox"/> Ja, Anzahl <input type="checkbox"/> <input type="checkbox"/> Nein <input type="checkbox"/> Nur Blutgruppe	<p>VOR der Hautinzision</p> <input type="checkbox"/> Identität+Lagerung überprüft <input type="checkbox"/> Bilder aufgerufen <input type="checkbox"/> Pulse getastet, <input type="checkbox"/> n.n. <input type="checkbox"/> Aufklärung gültig/vorhanden <input type="checkbox"/> Vorstellung aller Teammit- glieder (Name/Aufgabe) <input type="checkbox"/> Dosimeter/Strahlenschutz <input checked="" type="checkbox"/> Name eines OR <input type="checkbox"/> einmal rechte Seite <input type="checkbox"/> ASS/Plavix/OAK Körperseite re. <input type="checkbox"/> li. <input type="checkbox"/> bds. <input type="checkbox"/> Hb <input type="checkbox"/> <input type="checkbox"/> Krea <input type="checkbox"/> <input type="checkbox"/> INR <input type="checkbox"/> <input type="checkbox"/> Antibiotikum infundiert <input type="checkbox"/> Besprechung: -Blutverlust, krit. OP-Momente - Pat.spz. Probleme (Allergien) -Richtiges Sieb/Warmwasser?	<p>VOR Verlassen OP/Vor AWR</p> Verbale Besprechung: <input type="checkbox"/> Eingriff <input type="checkbox"/> Vollständige Materialien <input type="checkbox"/> Implantate Pass in Akte? <input type="checkbox"/> Präparatbezeichnung <input type="checkbox"/> Redons offen <input type="checkbox"/> Pulse getastet, <input type="checkbox"/> n.n. <input type="checkbox"/> Besprechung des post- operativen Managements ggf. OP-Skizze <input type="checkbox"/> AWR <input type="checkbox"/> ITS <input type="checkbox"/> Normalstation <input type="checkbox"/> Neurolog. Kontrolle (nachdem Pat. wach)

München (Datum) Name+Unterschrift Anästhesist Name+Unterschrift Operateur

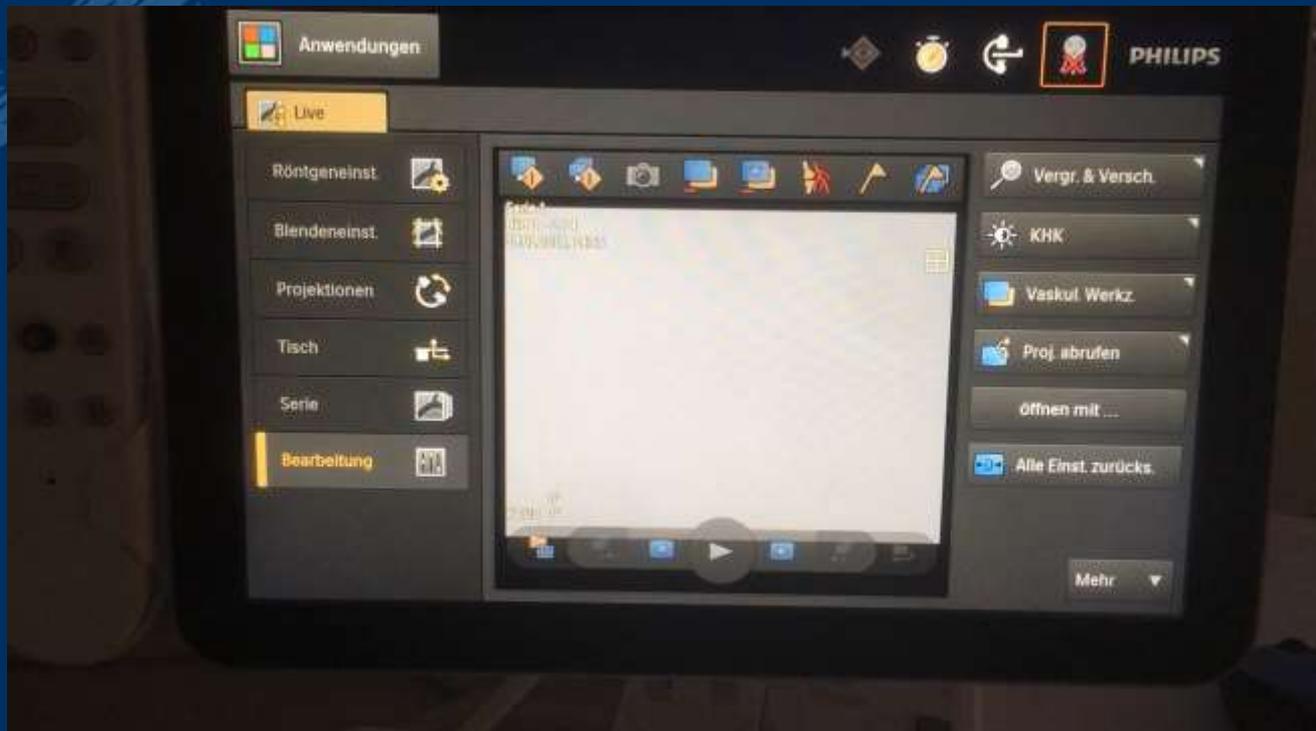
Complete system control from OR

- Scrolling the preoperative PACS-DICOM-PICs



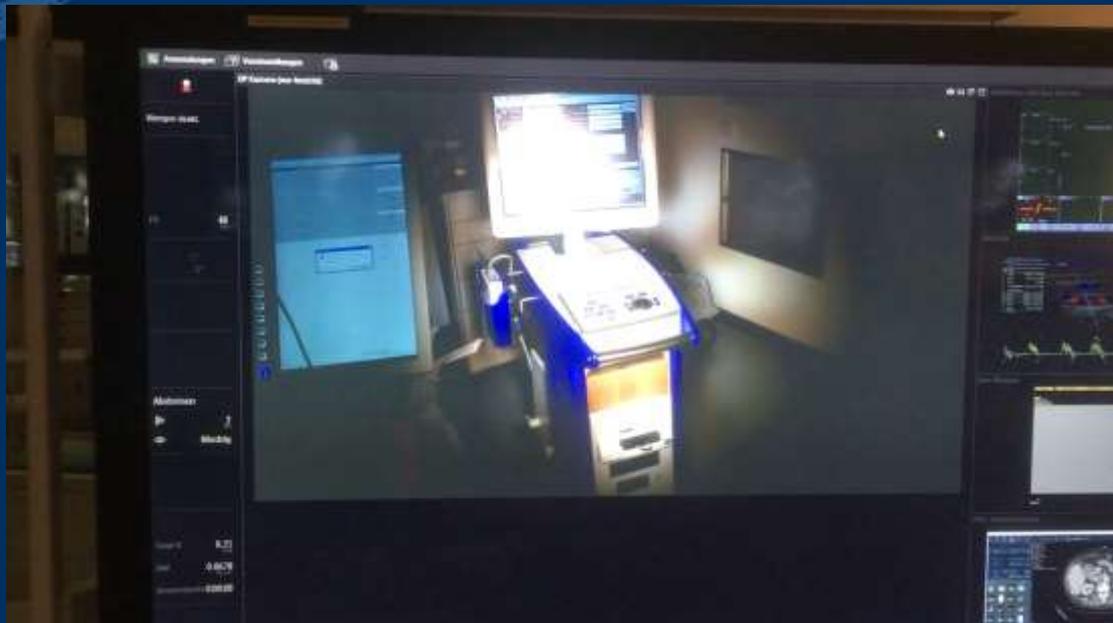
Complete system control from OR

- *Scrolling the preoperative PACS-DICOM-PICs*
- Changing the big screen layout



Complete system control from OR

- *Scrolling the preoperative PACS-DICOM-PICs*
- *Changing the big screen layout*
- *Screencapture for PACS-storage (eg. OR-cam)*



Complete system control from OR



Intraoperative measurement

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ld 1..3 - 6 / 11
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tomatisch Kallbrlerungsfaktor: 0,120 mm/px



Brainlab BUZZ System



New system geometry



1. Staff & equipment positioning freedom



2. Improved workflow for radial access

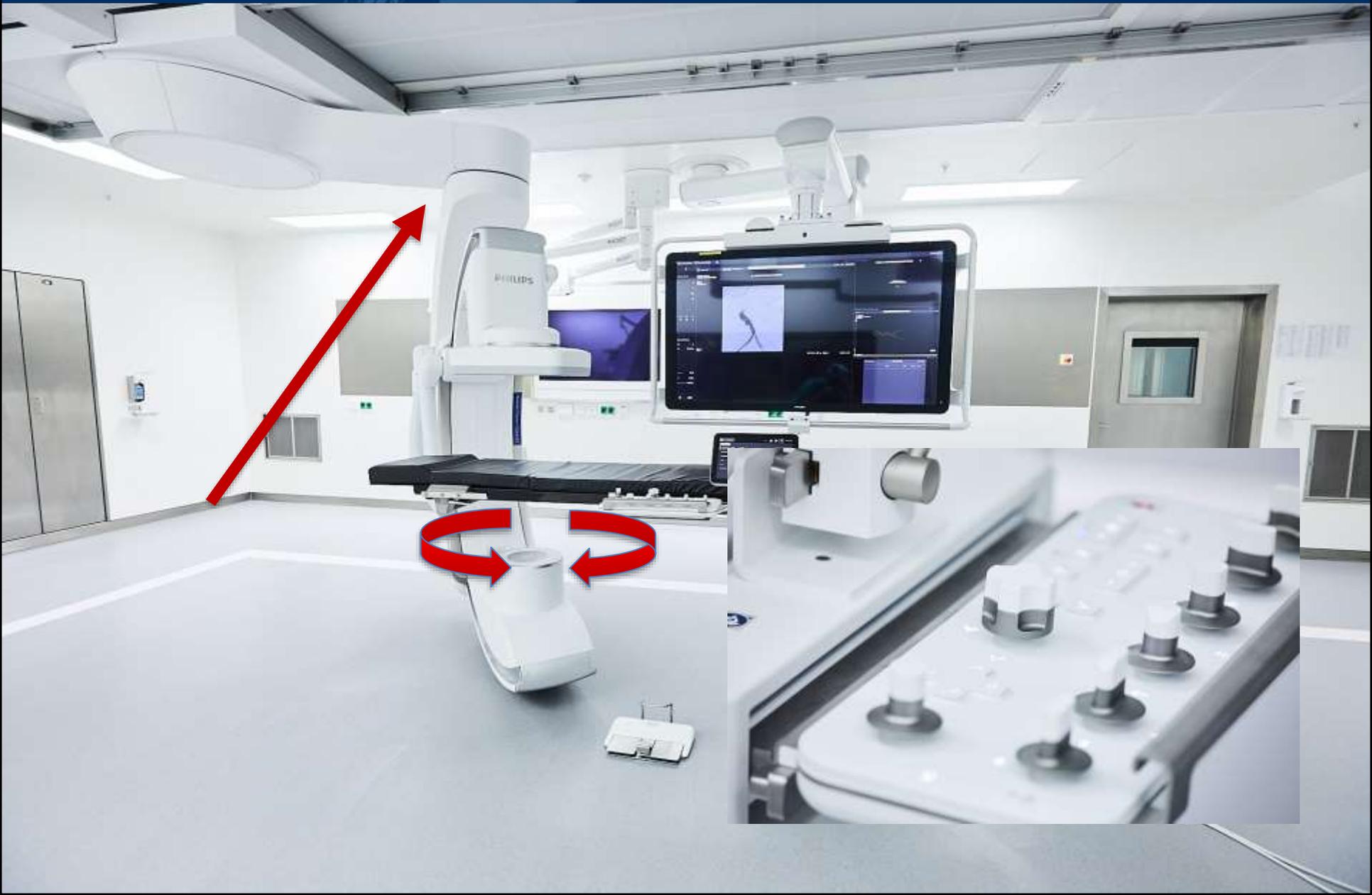


3. Reduced table & patient movement



Efficient use of lab / OR space

New system geometry



First Philips Azurion FlexArm in the world



Last week - Jan 16. 2019 – 1. Case



Conclusions

- Procedure cards can improve the security and precision
- Procedure cards help to individualise settings for the standard-procedures
- Intraoperative system-control could improve the quickness
- Intraoperative measurement can reduce unnecessary PTAs / wrong stents/balloons
- BrainlabBUZZ can help to better visualize complicated anatomy and store/stream data

THANK YOU FOR YOUR ATTENTION

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