

IOP KCC

neurologie
neurochirurgie
neuroradiologie
JIP
rehabilitace

Iktový program (KCC – IC)

Kraje České republiky



Cévní mozková příhoda

Ischemická – 80%

Hemorhagická – 20%

a) intracerebrální hematom - hypertense

b) SAH – aneurysma, AVM, kavernom

Ischémie mozku

1. Primární prevence

2. Léčba iktu

3. Sekundární prevence

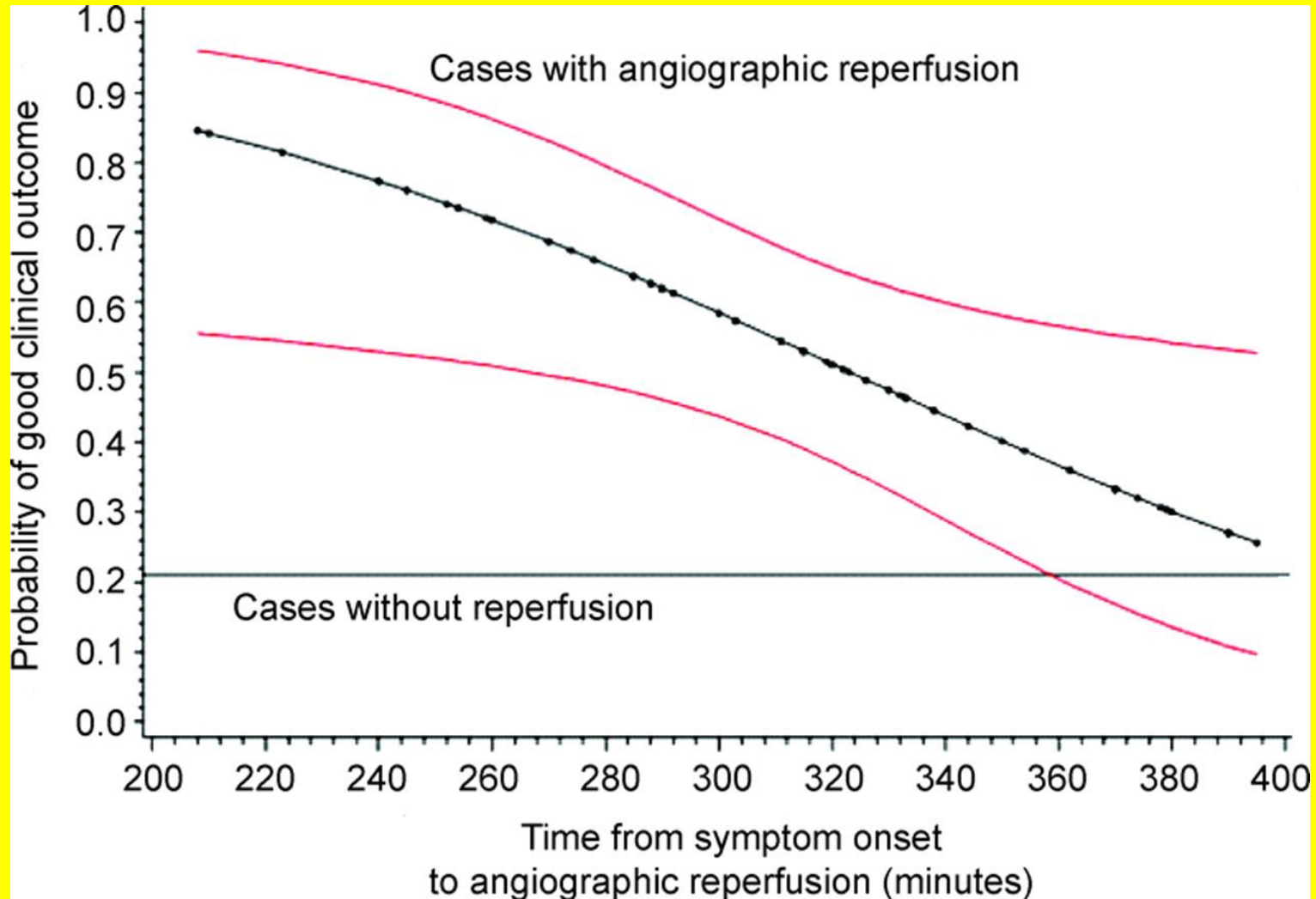
035 140 530

- 0 - 0 kouření
- 3 - denně chůze 3 km, nebo 30 min přiměřené fyzické aktivity
- 5 - 5 porcí ovoce nebo zeleniny denně
- 140 - maximum systolického tlaku
- 5 - celkový cholesterol méně než 5 mmol/l
- 3 - LDL méně než 3 mmol/l
- 0 - 0 pro obezitu a DM

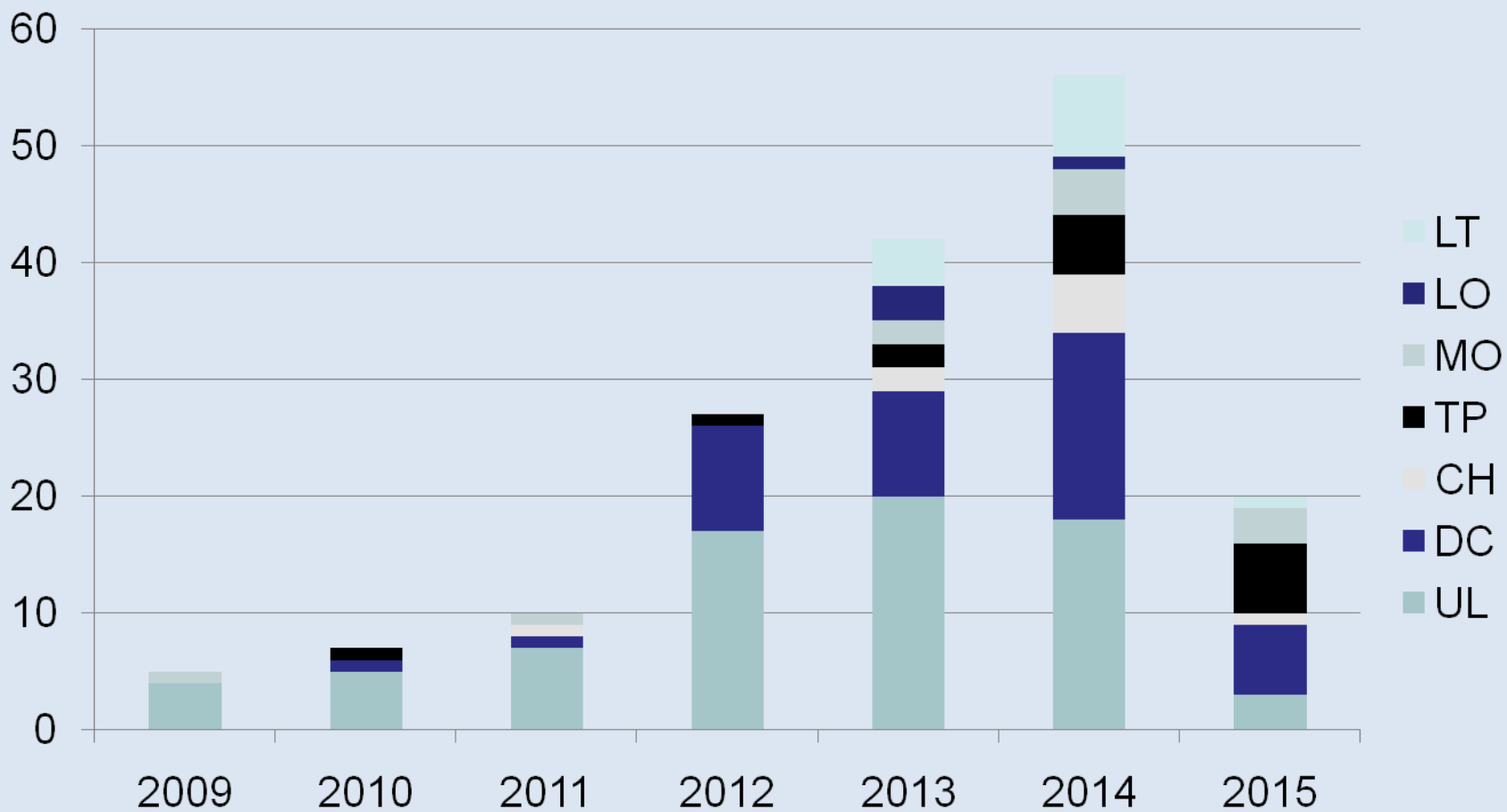
Kombinovaná extrakce embolu



Výsledky embolektomií



Endovaskulární výkony



3a) Stenóza karotidy

Symptomatická: NASCET 91 ▶ 70%, NASCET 98 ▶ 50%

Asymptomatická: ACAS ▶ 60%

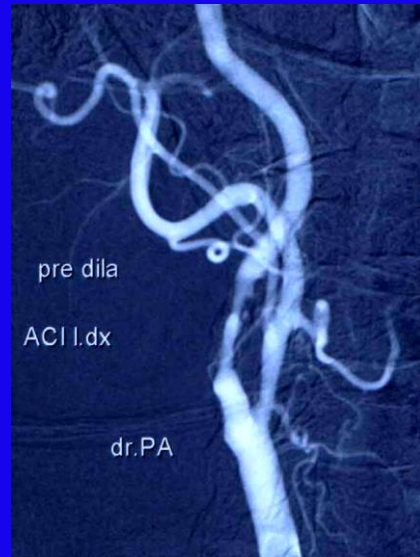
Stent

- Vyšší věk, riziko ASA
- Hladký plát

Restenosa

Chirurgie

- Mladší věk, ASA(awake!)
- Vřed, filiformní stenóza



mární stenosa

AVATAS 2001

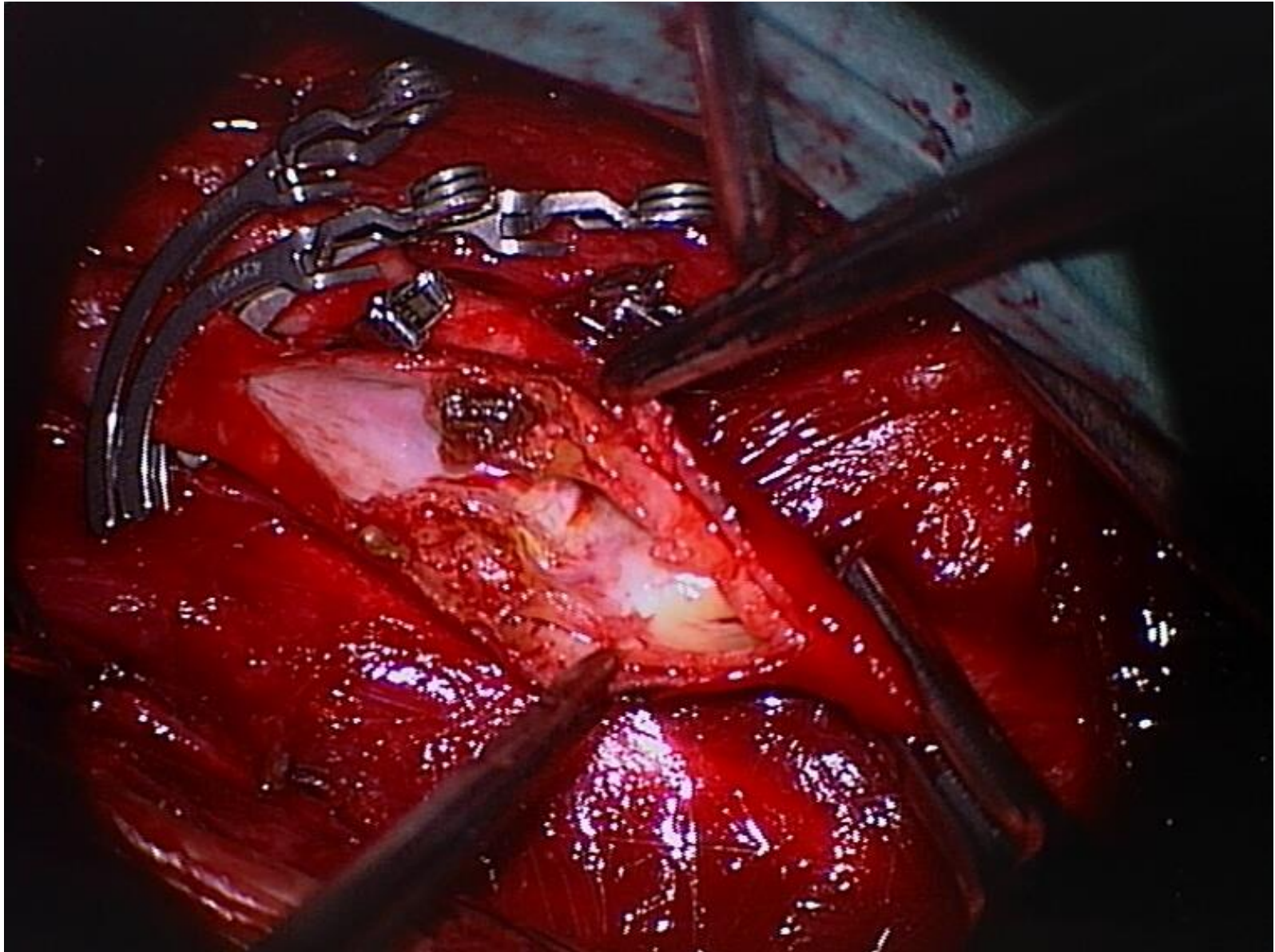
ALLSTENT 2001

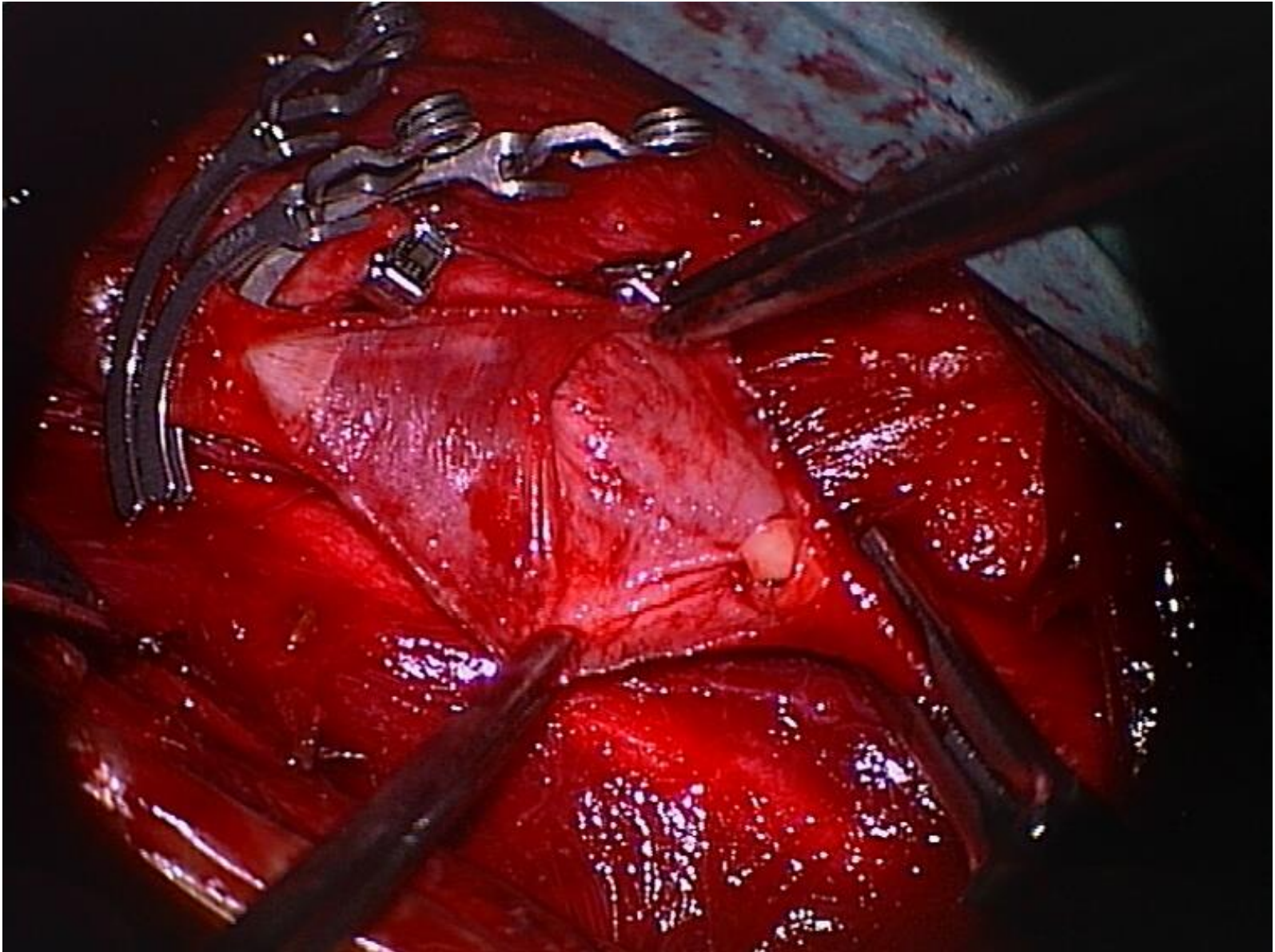
APHIRE 2004

VA-S3 2006

AVATAS-2 2010

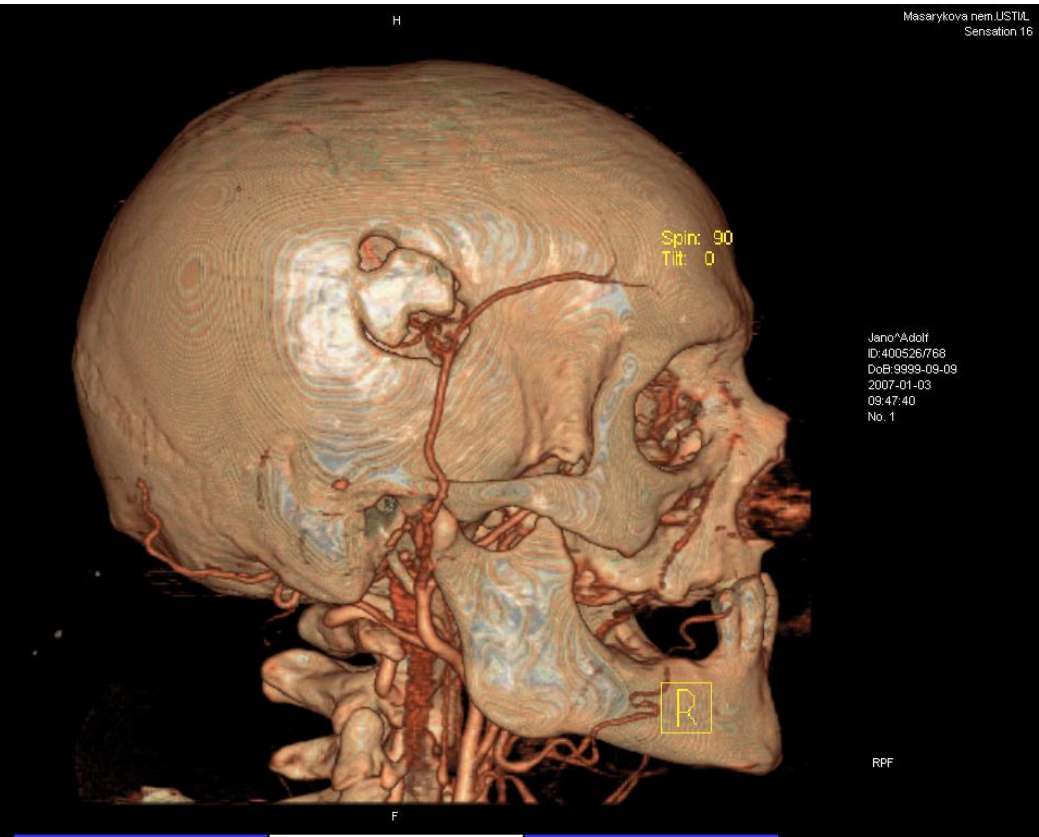
REST (CAS<69 let)



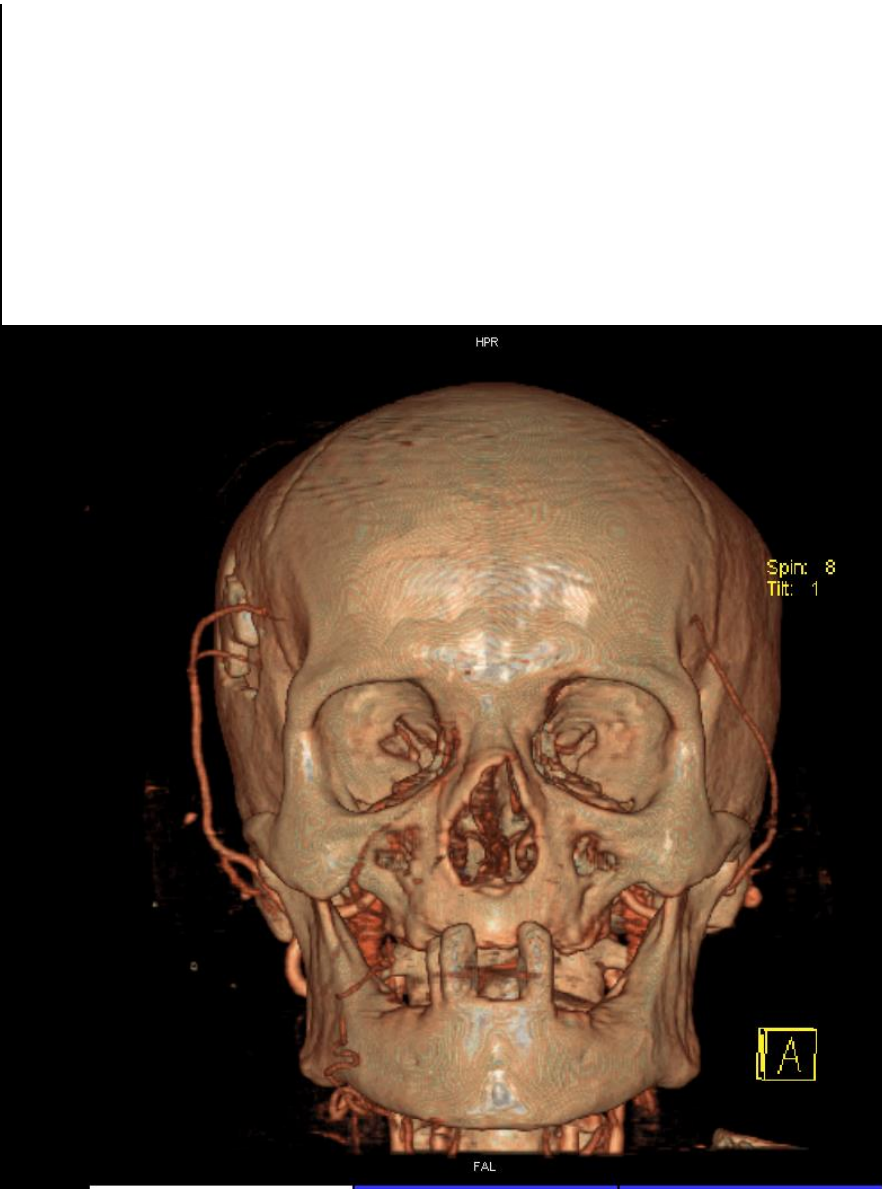




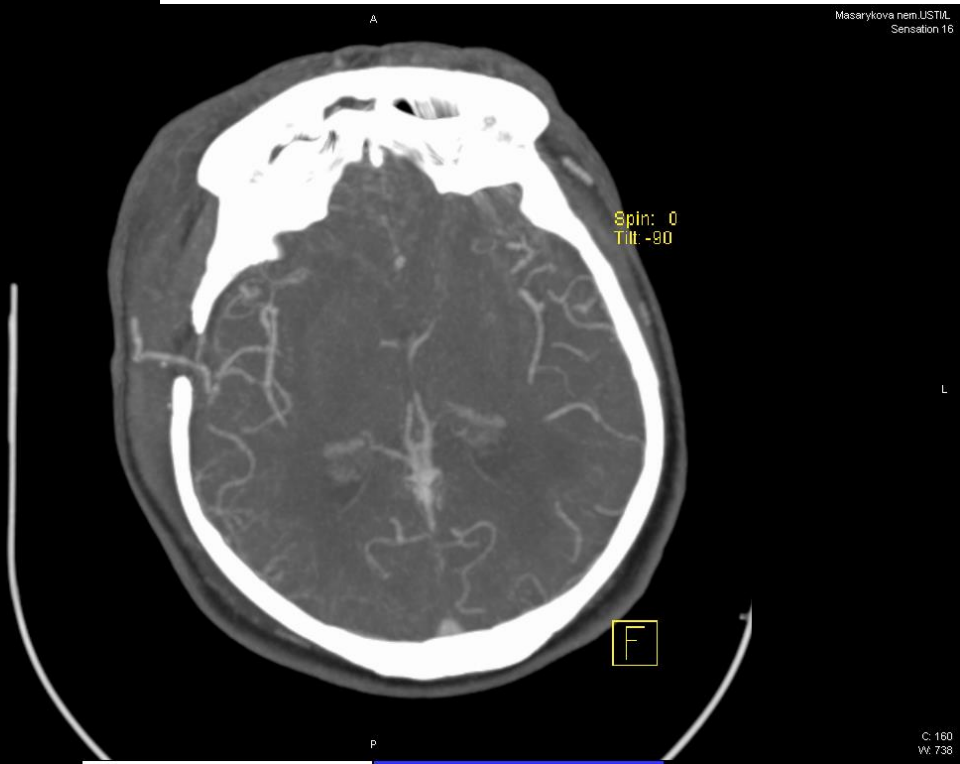
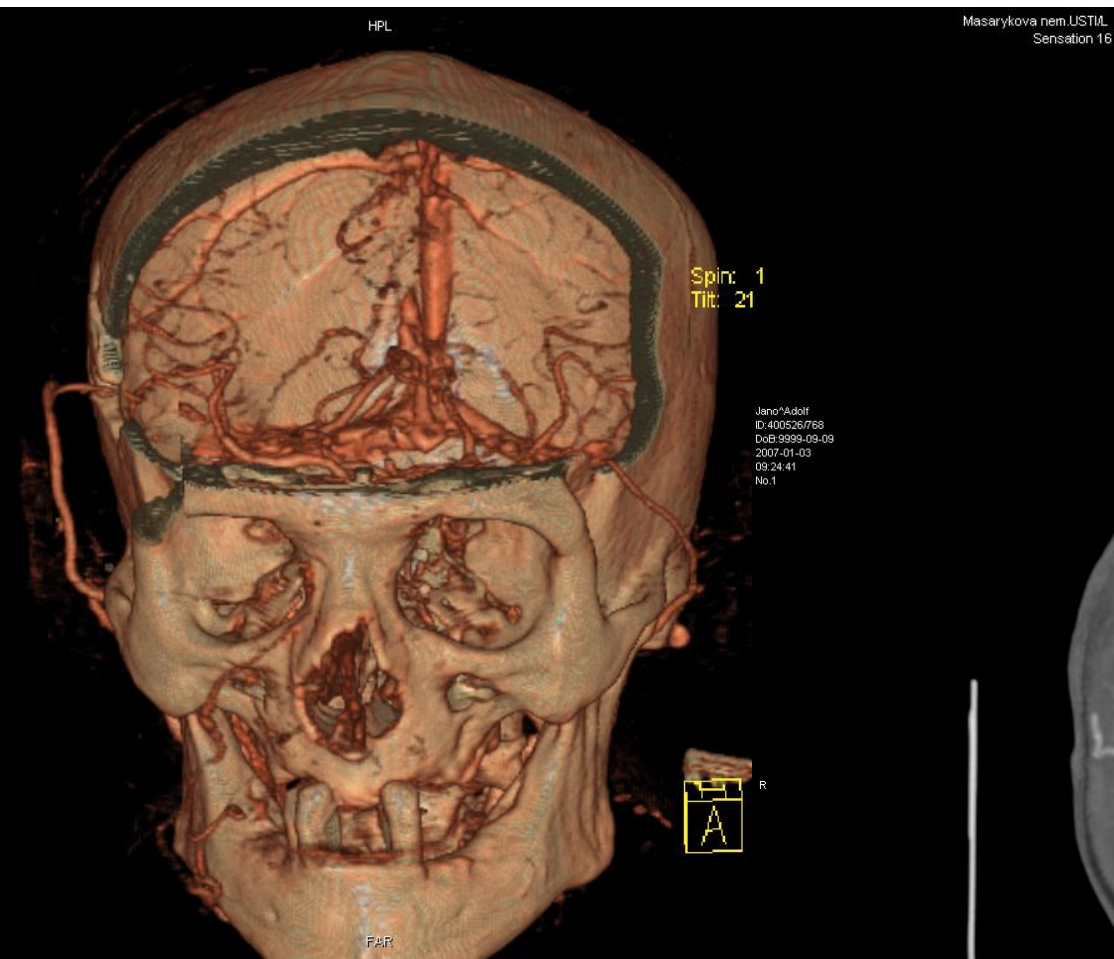
EC-IC bypass (rekonstrukce CTA)



Jano*Adolf
ID:400526768
DoB:9999-09-09
2007-01-03
09:47:40
No. 1



EC-IC bypass



**Live surgery
Cerebrovascular and Skull Base**



prof. Takanori Fukushima
Carolina Neuroscience Institute, USA
prof. Rokuya Tanikawa
Teishinkai Hospital Stroke Center, Japan



June 12, 2015, Usti nad Labem

Dpt. of Neurosurgery, J. E. Purkinje University
Masaryk Hospital, Usti nad Labem, Czech Republic

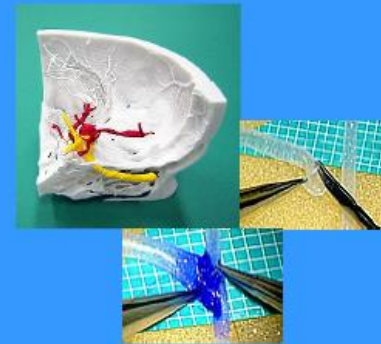
www.neuro-surgery.cz

EANS Vascular Section & WFNS Skull Base Surgery
Committee
Hands-On Dissection Course 2015



**Transtemporal Approaches and
Intensive EC-IC Bypass Course**

June 12 - 13, 2015, Usti nad Labem, Czech Republic



www.neuro-surgery.cz



Cévní mozková příhoda

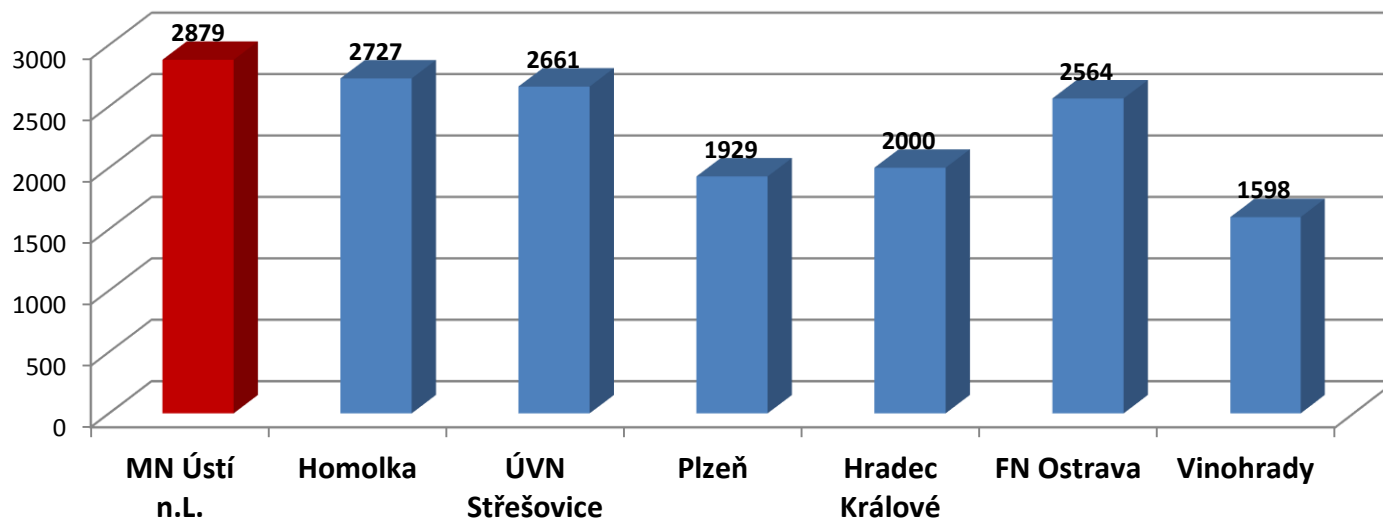
Ischemická – 80%

Hemorhagická – 20%

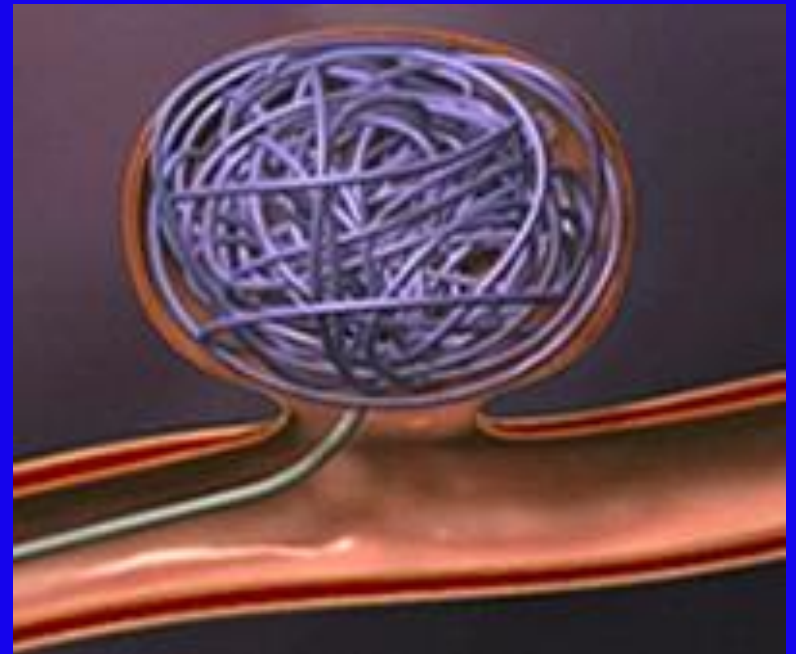
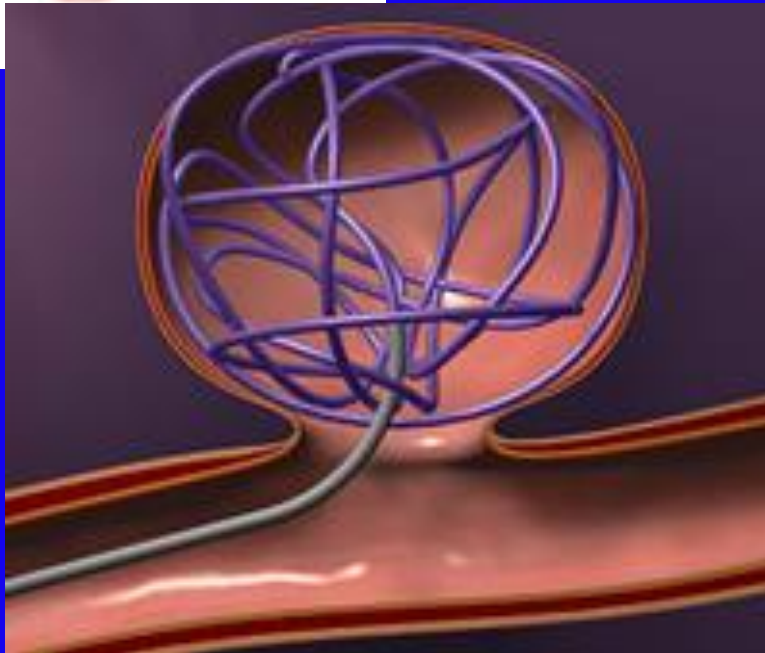
a) intracerebrální hematom - hypertense

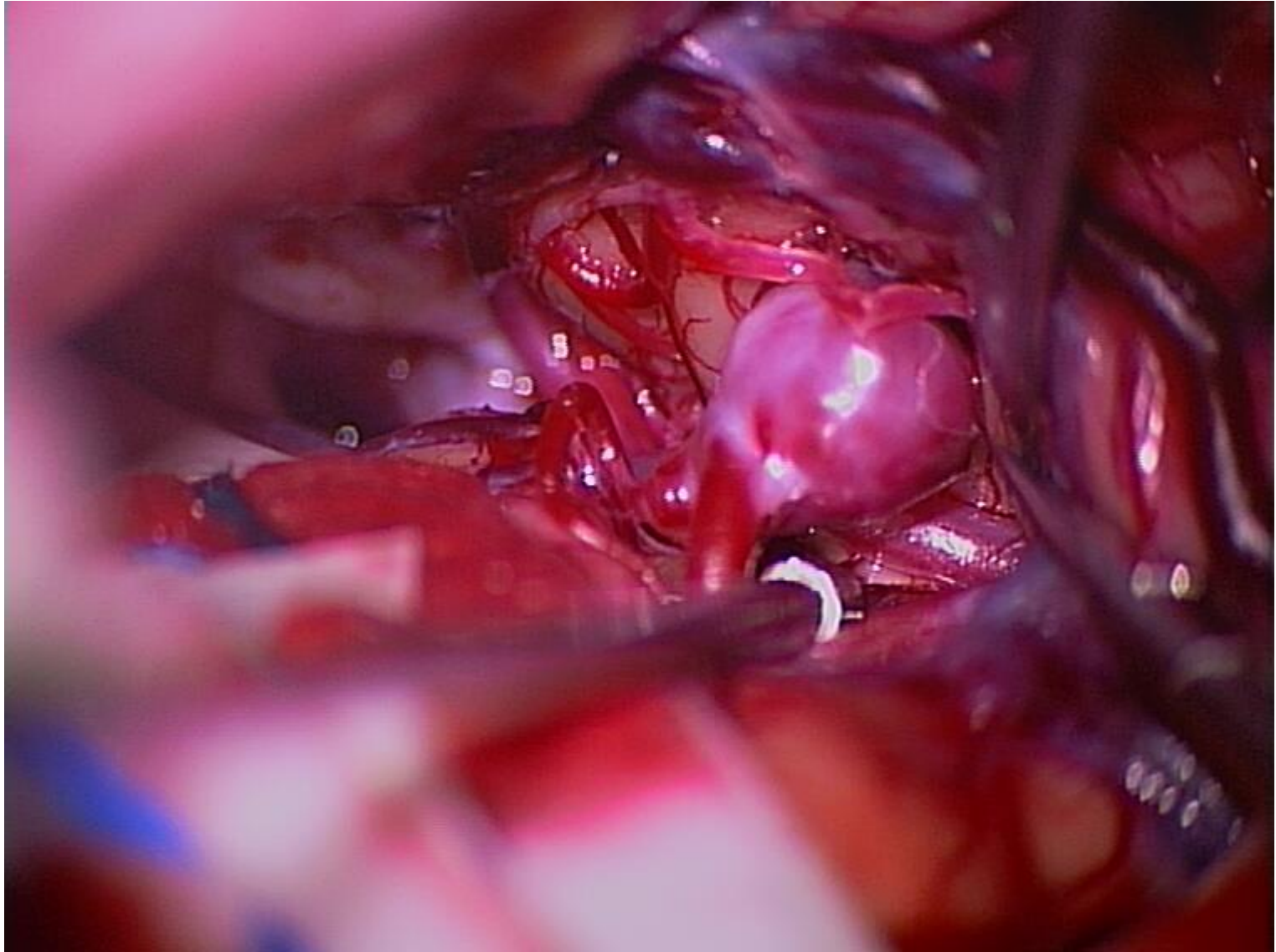
b) SAH – aneurysma, AVM, kavernom

Přehled operačních výkonů neurochirurgických pracovišť v ČR za rok 2013



Clip, Coil





Coiling aneurysmat



Management léčby mozkových aneurysmat

Coil

Vyšší věk, riziko ASA
Edem mozku, HH 4-5

Lokal-post circ(post inf BA)
Velikost (do 7 mm)
Krček (5/2 = fundus/krček)

Chirurg

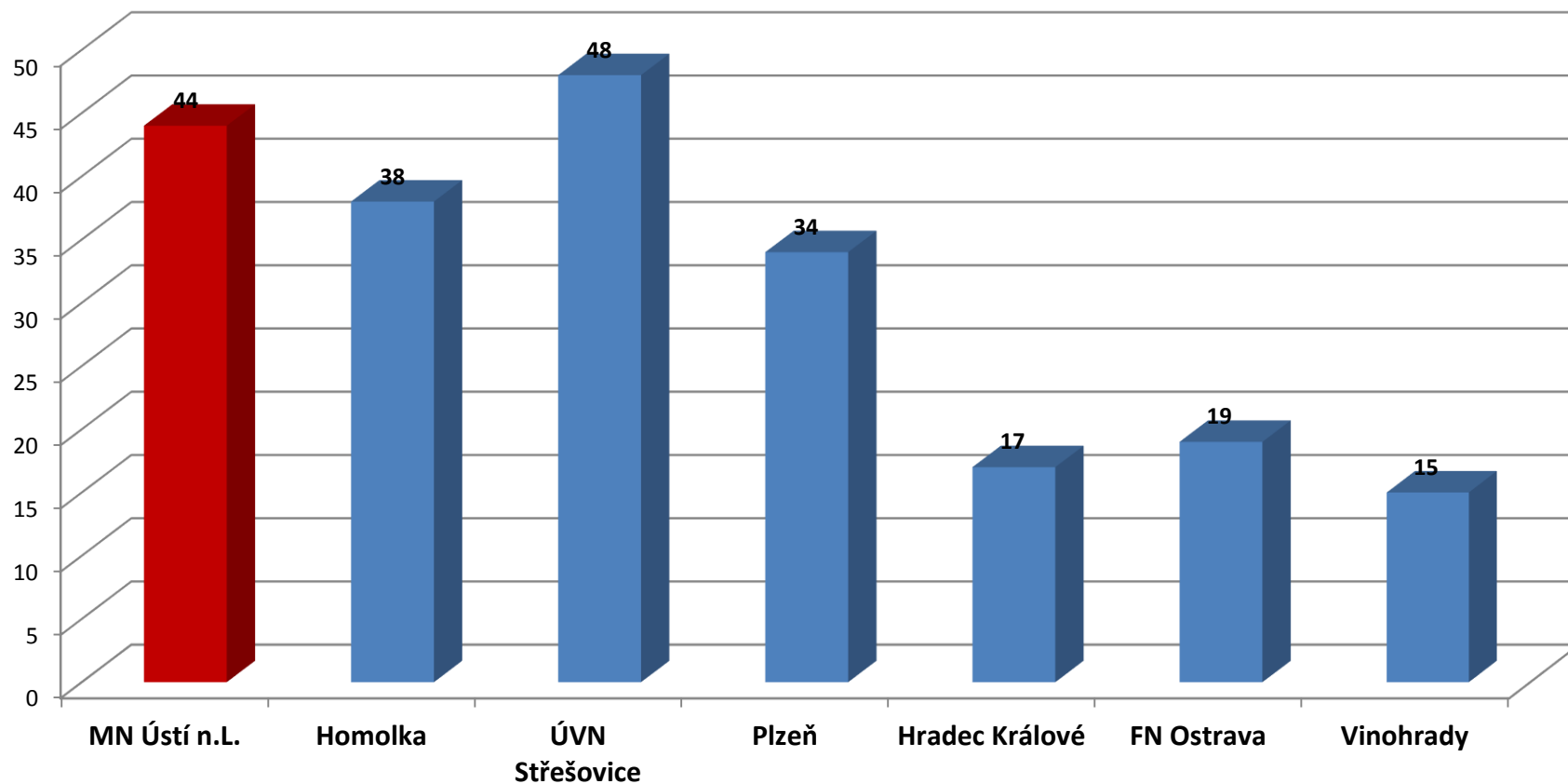
Mladší věk

Lokal-ant circ (MCA)
Velikost nad 7 mm
Širší krček
Fisher, ICH, hydrocef
Kink, atherosklerosa

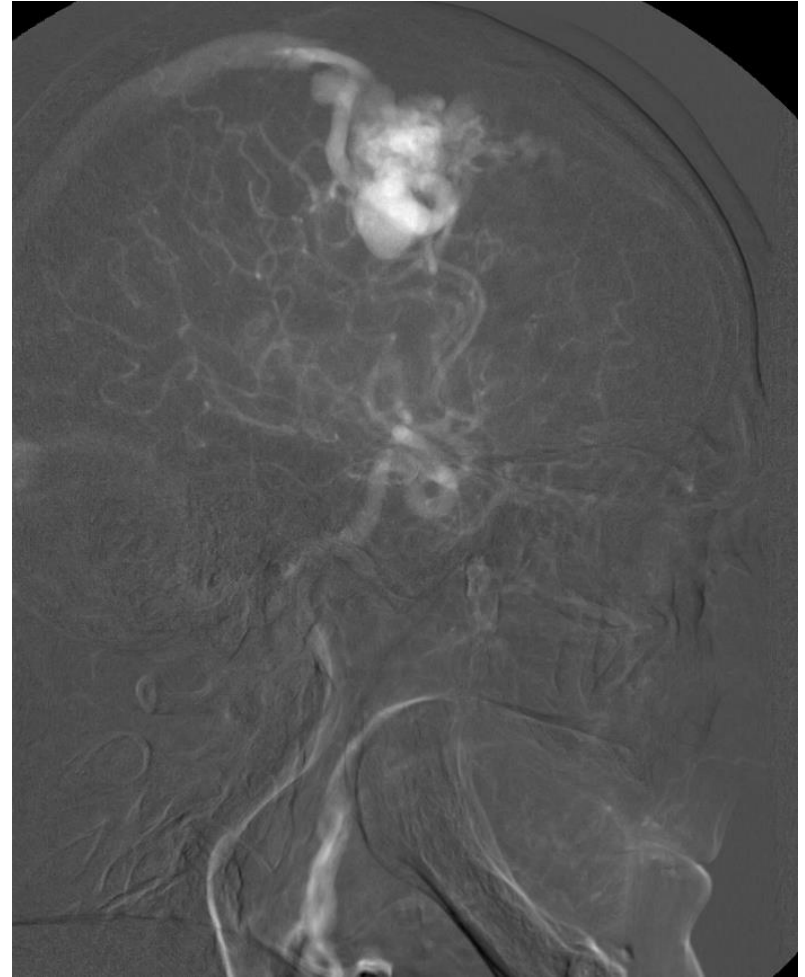
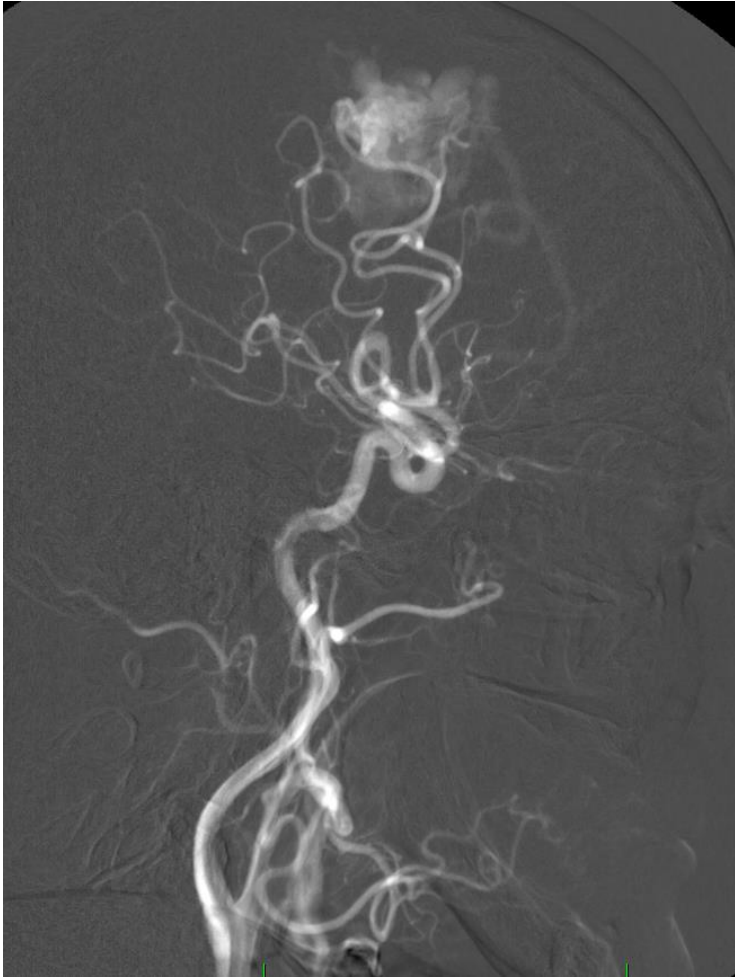
SymptomatoI (CN III)

**zkušenost chir x endovasc
názor pacienta**

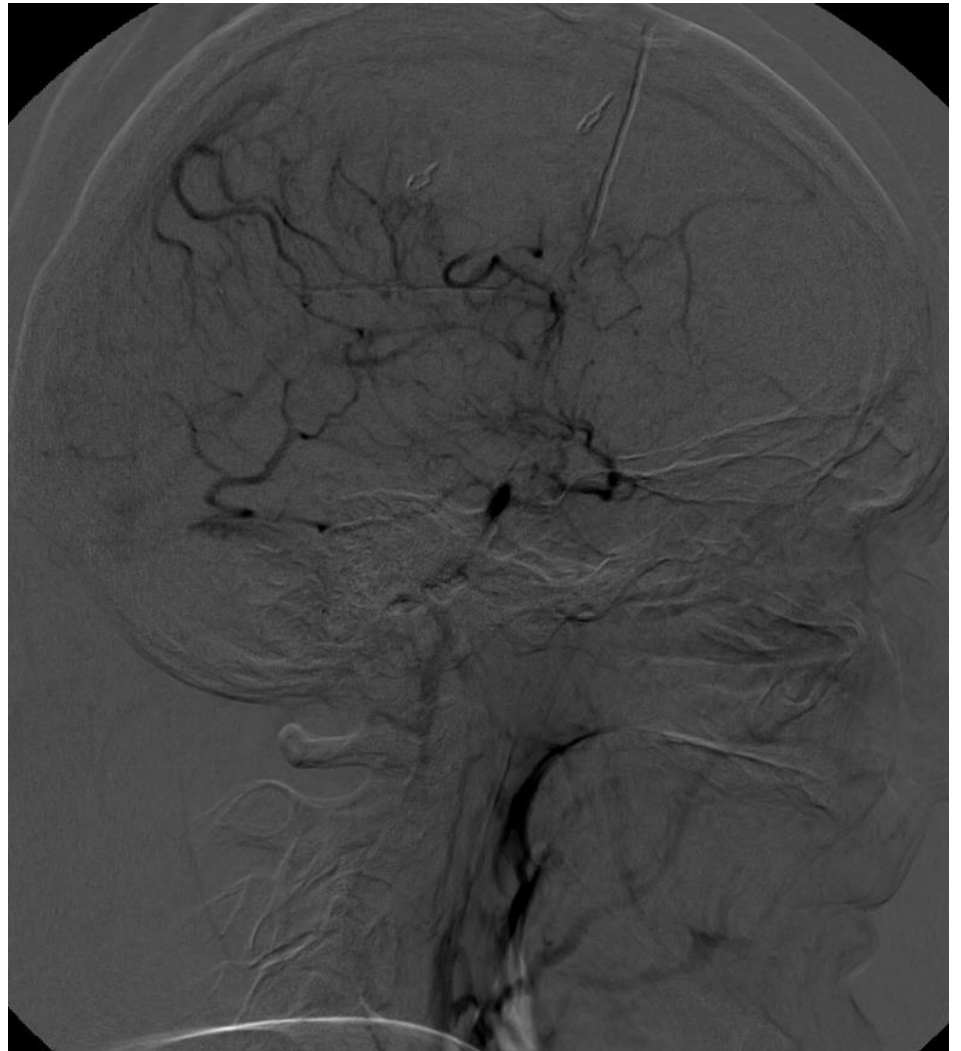
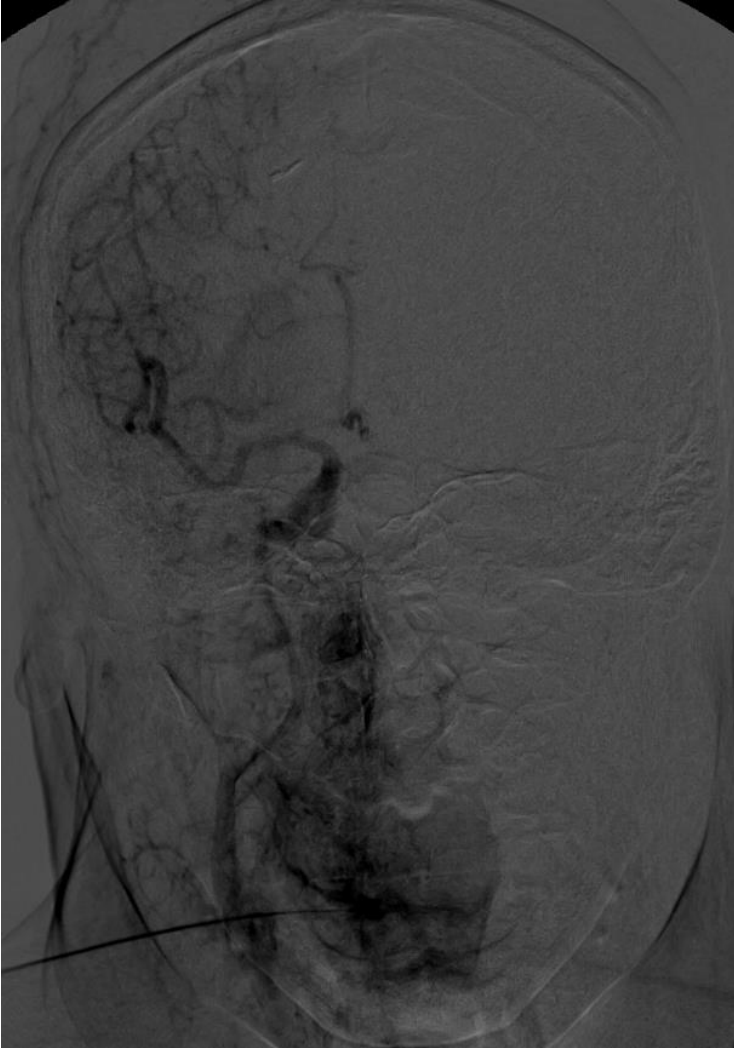
Počet operovaných aneurysmat v ČR v roce 2013



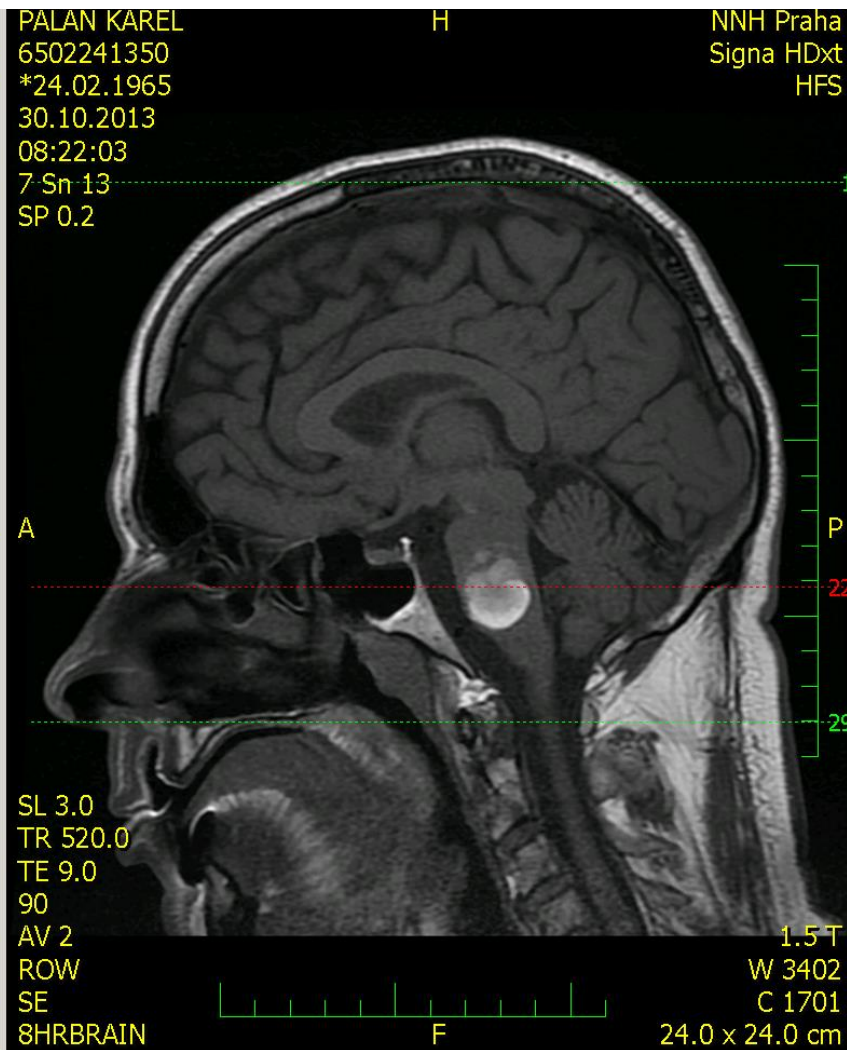
AVM – precentrální gyrus



radikální resekce AVM

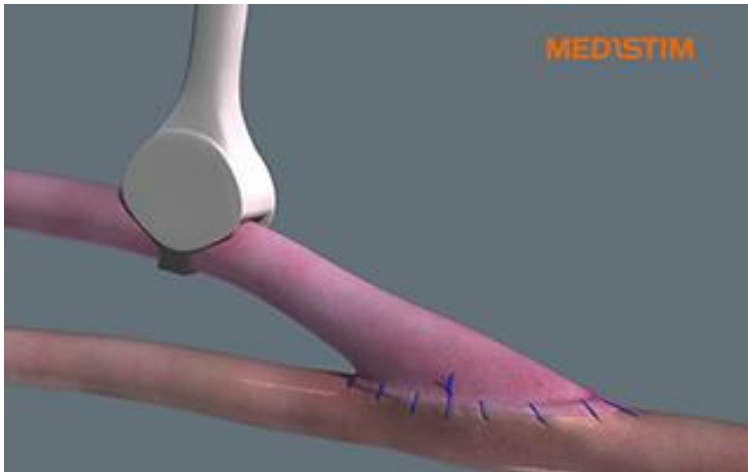


Kavernózní angiom



Flowmetr intraoperační	1	580 363,64
Peroperační navigace	1	5 378 727,27
Modul pro operační mikroskop s ICG (indocyanine green) angiografií	1	259 090,91
Peroperační CT nebo isofluoroskopie	1	9 327 272,73
Sdružený EMG přístroj v kombinaci s modulem evokovaných potenciálů	1	1 761 818,18
EEG přístroj	2	414 545,45
Intraoperační nervový monitor	1	621 818,18
Motorový systém pro neurochirurgickou operativu	1	839 454,55
Ultrazvukový kostní skalpel	1	2 072 727,27
Radiolucentní operační stůl	1	704 727,27
Transkraniální ultrazvuk typ A	1	2 280 000,00

flowmetr

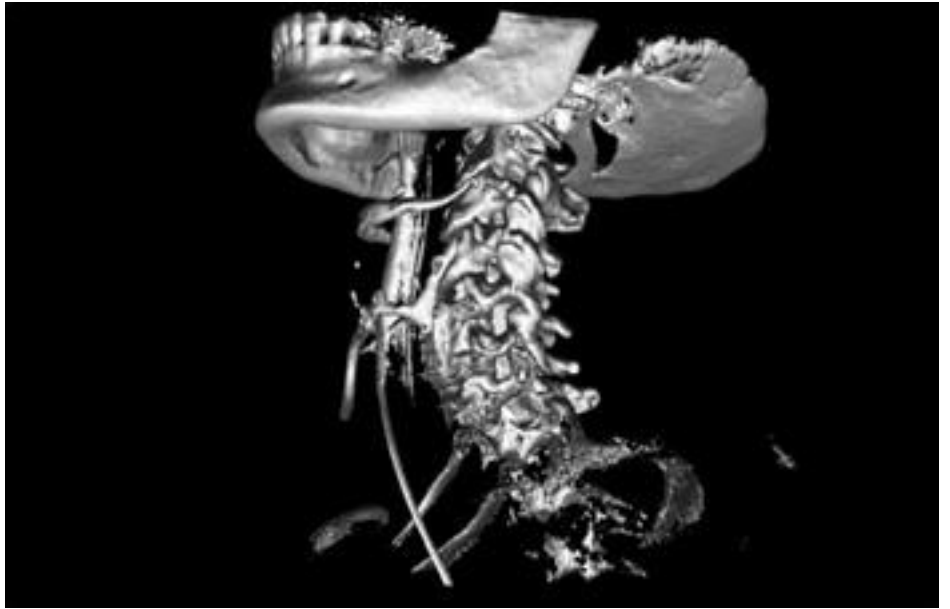
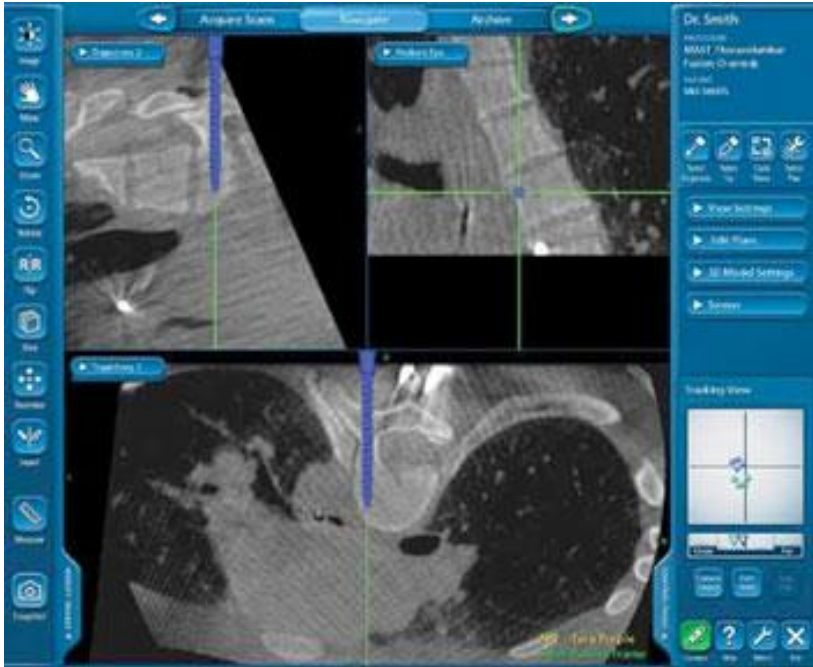


HT300 Series

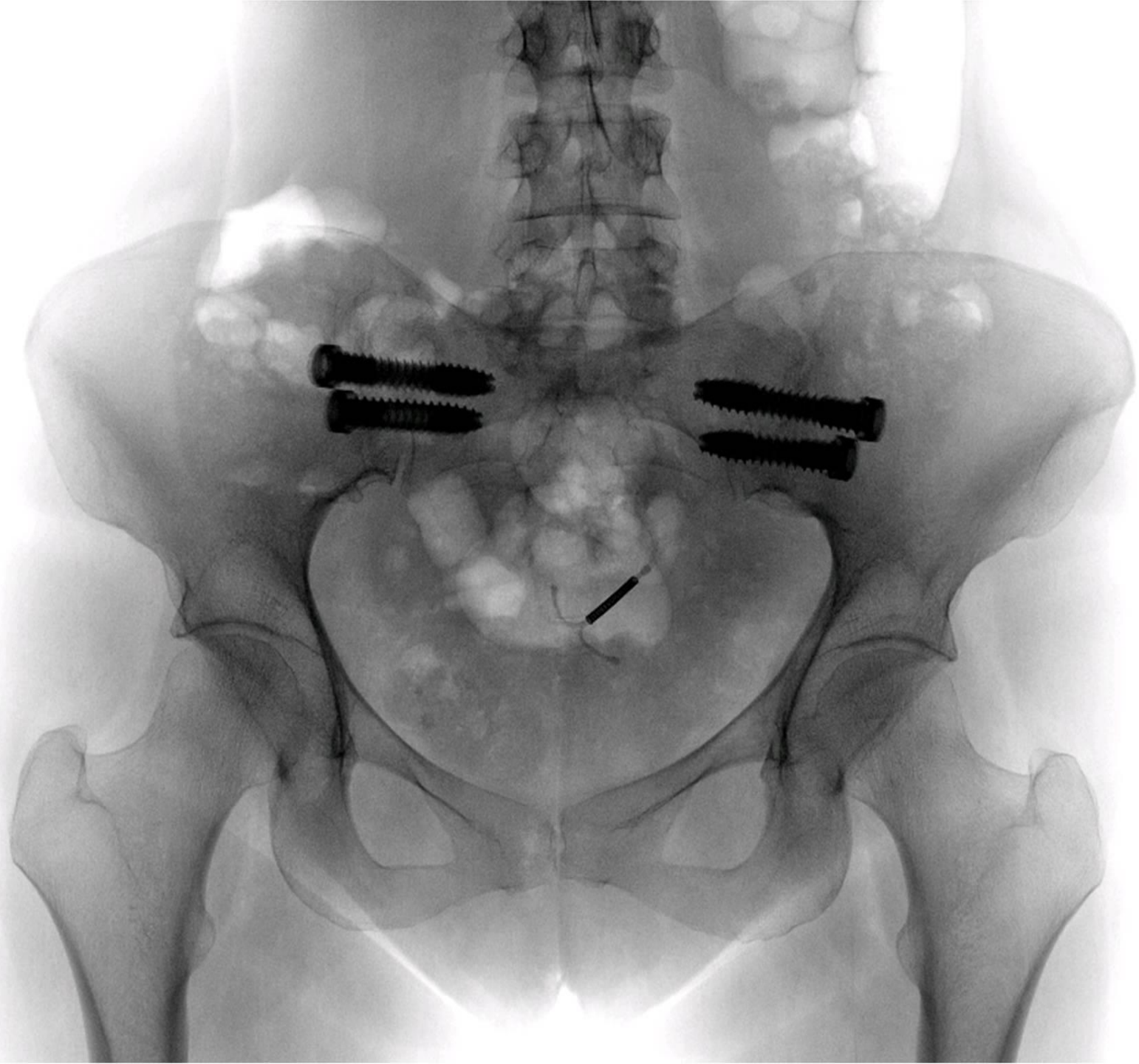


Navigace a peroperační isofluoroskopie, radiolucentní operační stůl





R





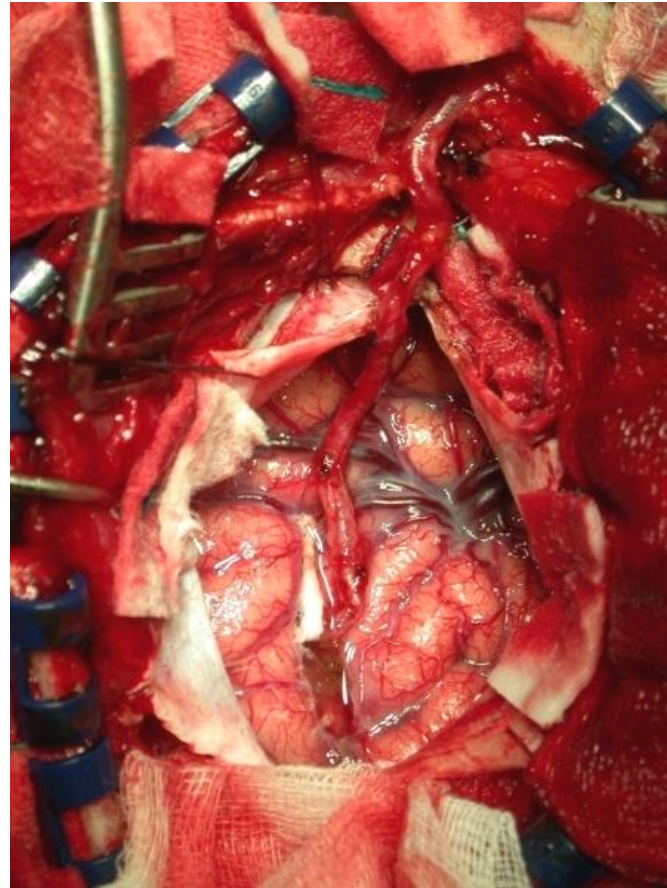
Modul ICG



EC-IC bypass (STA-MCA)



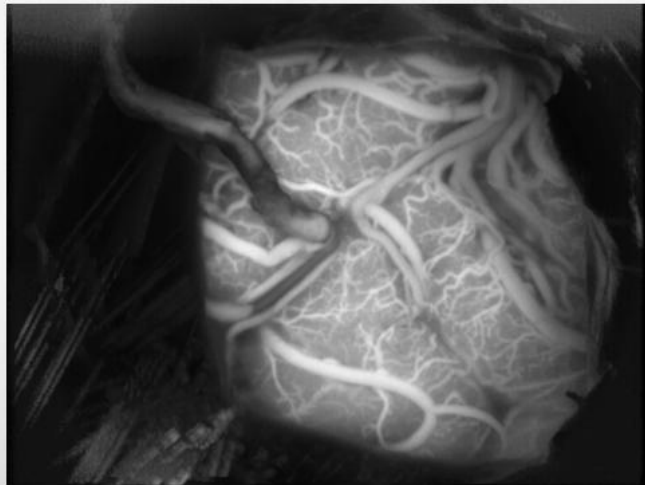
- 3 surgeons
- mean time 30 min
(21-35 min)
- T lobe – antidromic
- Lab - training



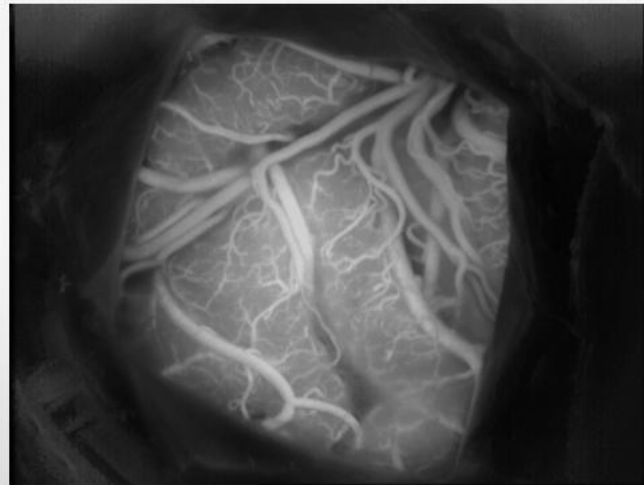
ICG - ECIC bypass

After bypass

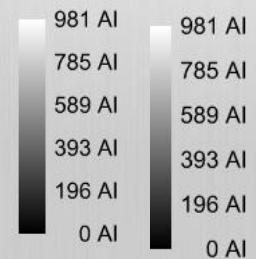
Before bypass



2011-10-19_10-40-14



2011-10-19_09-12-21

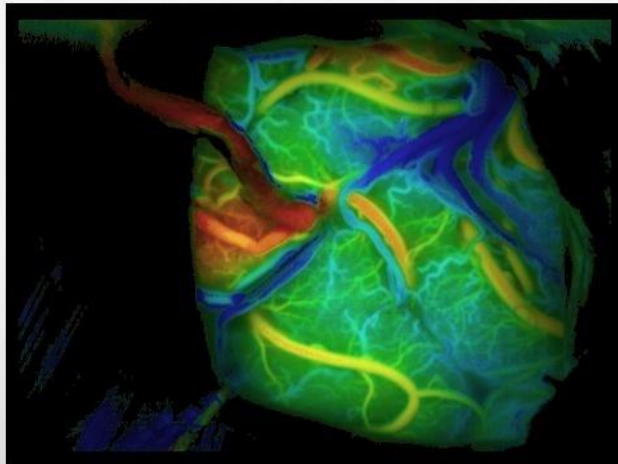


FLOW 800

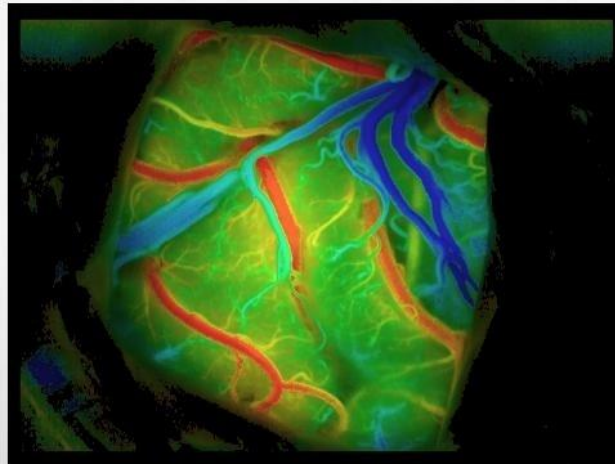
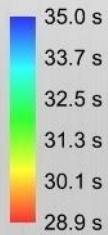
OPMI Pentero – blood flow dynamics color gradient

After bypass

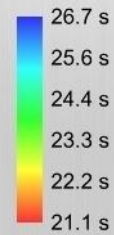
Before bypass



2011-10-19_10-40-14



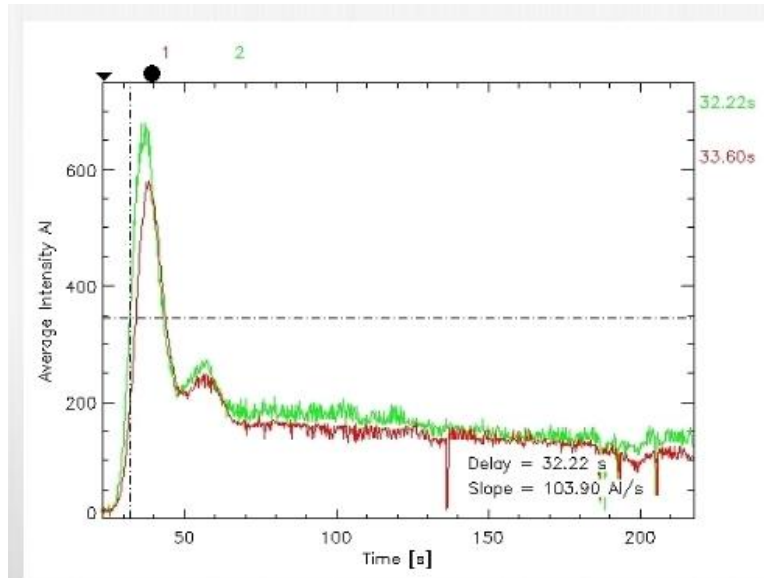
2011-10-19_09-12-21



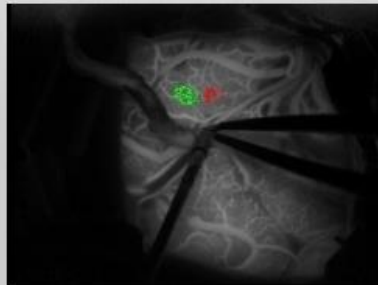
FLOW 800

comparison diagram of blood flow changes

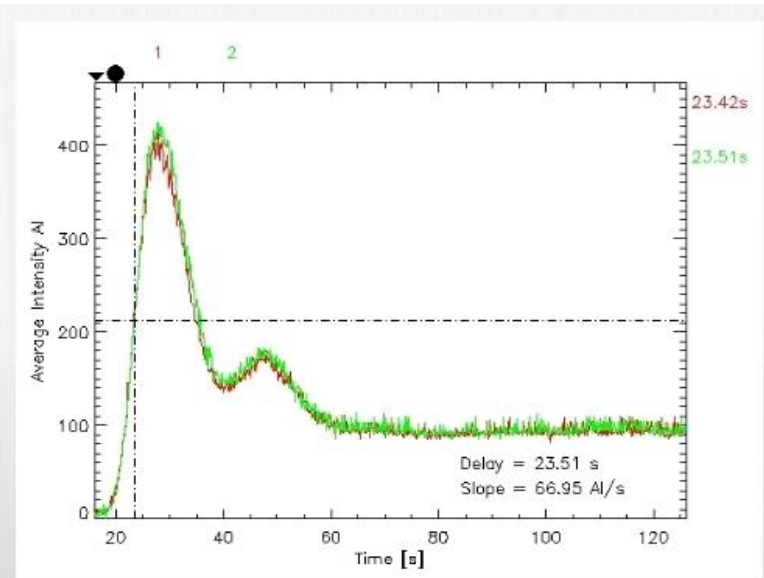
After bypass



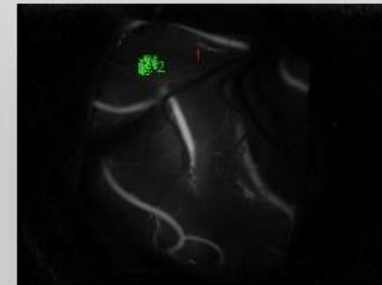
2011-10-19_10-40-14



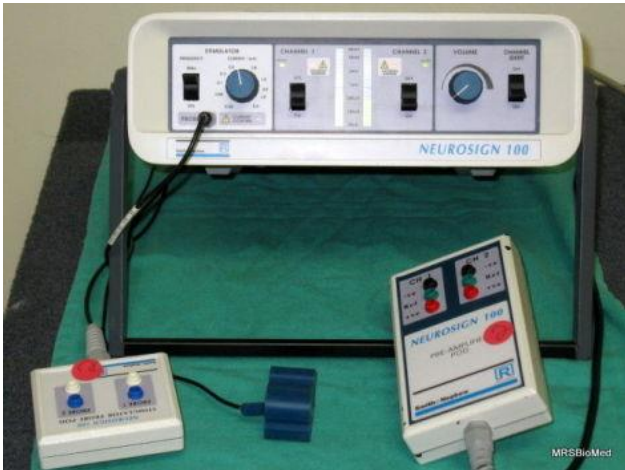
Before bypass



2011-10-19_09-12-21



Intraoperační nervový monitor



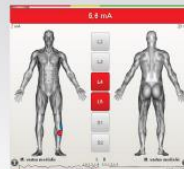
NEW: C2 Spine Software

Neuromonitoring in spine surgery

>> simple, fast and intuitive

APPLICATION FIELD:

Posterior Lumbar and Cervical Interbody Fusions



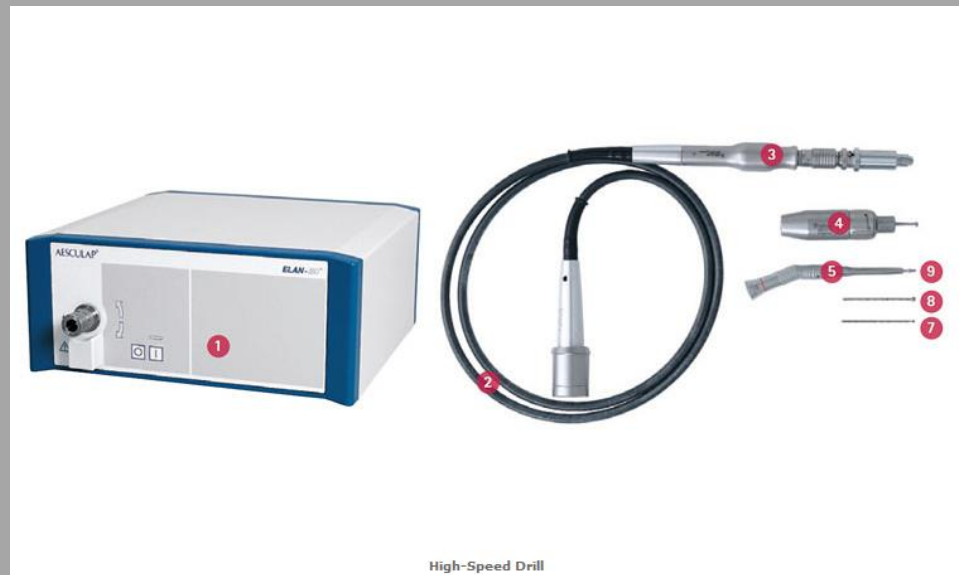
The C2 Spine Software combines effective neuromonitoring in spine surgery with the simple, intuitive operation of the proven neuromonitoring device. The operational benefits for the users are wide-ranging.

The C2 Spine software guides the user through the program via a few simple steps, to swiftly start monitoring.

Ultrazvukový kostní skalpel



Motorový systém

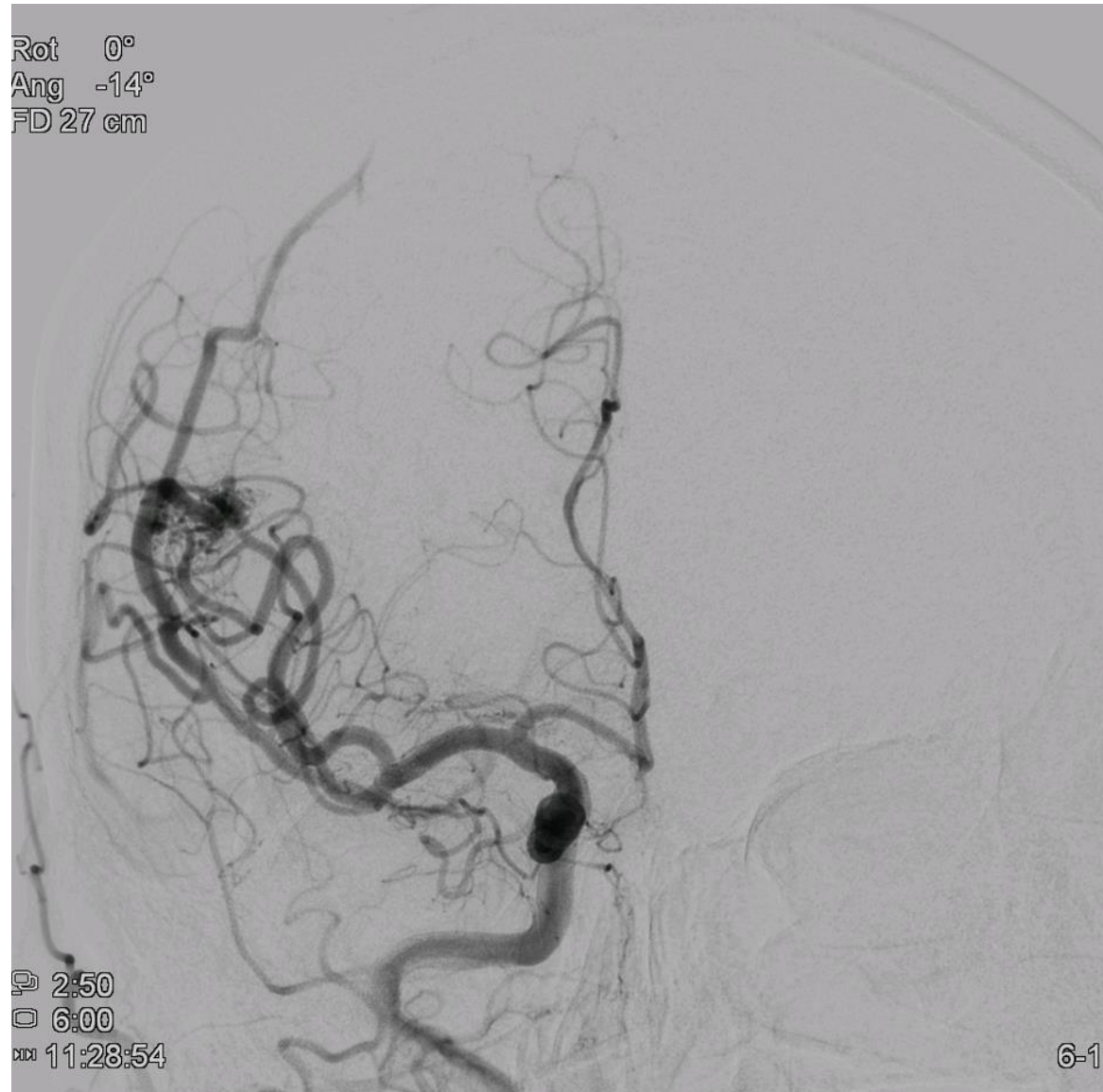


High-Speed Drill

Transkraniální ultrazvuk



AVM



ALOKA

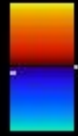
MN Usti nad Labem
NEUROCHIRURGIE

:461209064
:Huc Jiri

: Y

03-06-'15
09:44:04

76
76
F33



70%

149/150
34Hz

5.00M R4.0 G80 C20

2:MOZEK B

Probe:MIKROKONV

ALOKA

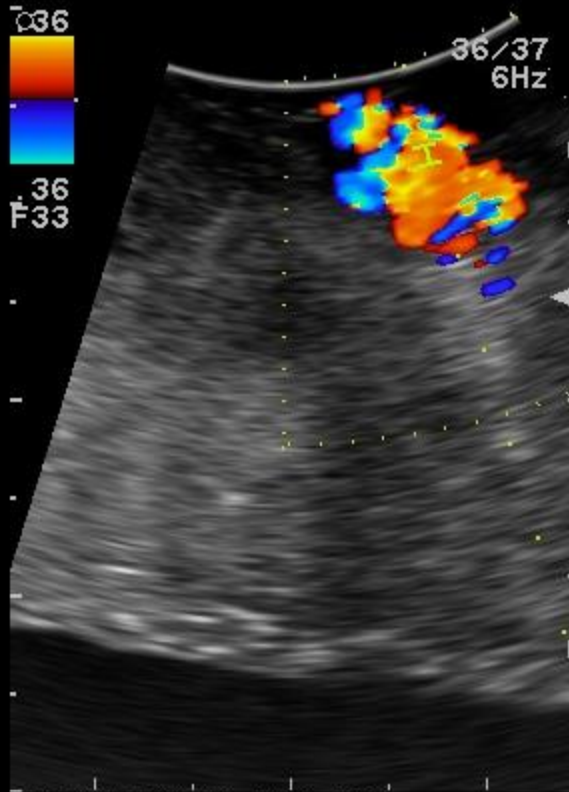
MN Usti nad Labem
NEUROCHIRURGIE

:461209064
:Huc Jiri

: Y

03-06-'15
09:44:26

36
36
F33



172.4

72.4

70%
5.00M
G62
C8

50

50

5.00M R4.0 G80 C20

2:MOZEK B

Probe:MIKROKONV

S.V. : 1.0mm
Depth: 0.5cm

Peroperační USG

