

Abscess after embolization with ONYX

Andrey Petrov

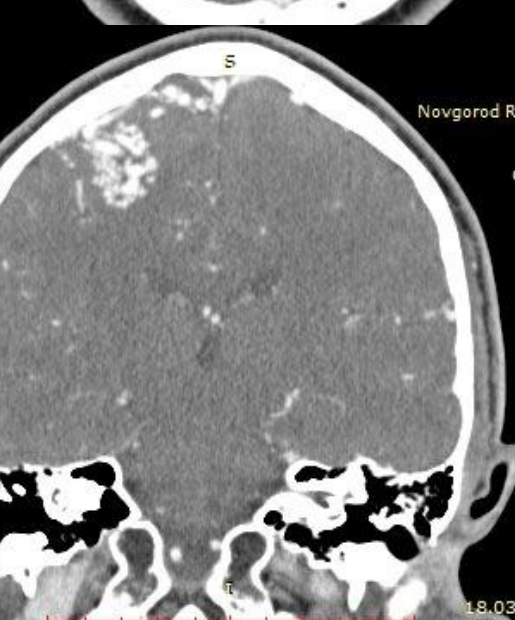
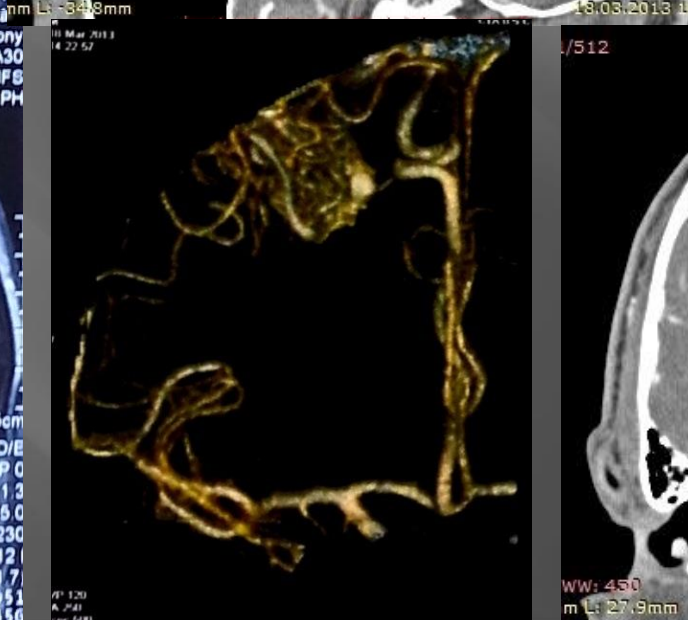
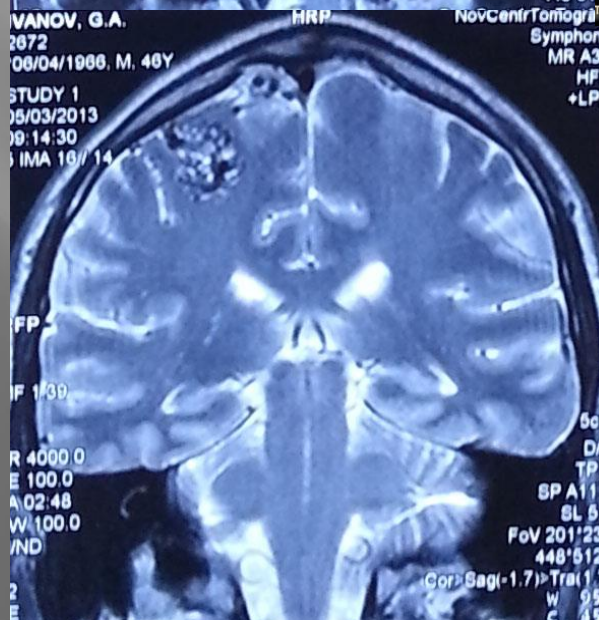
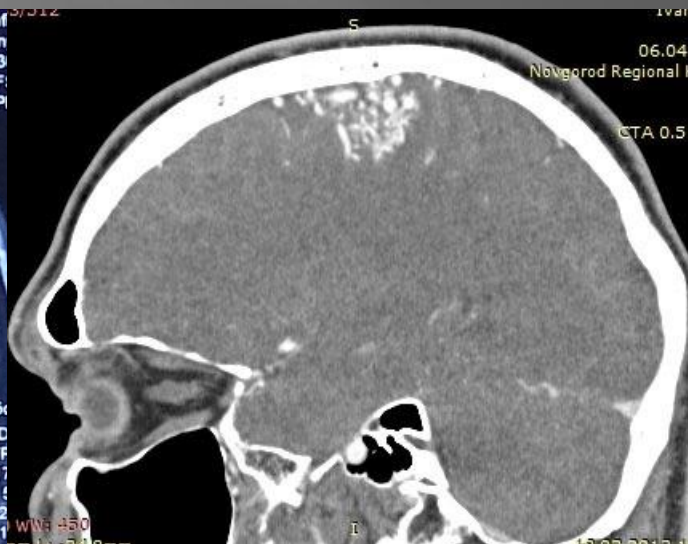
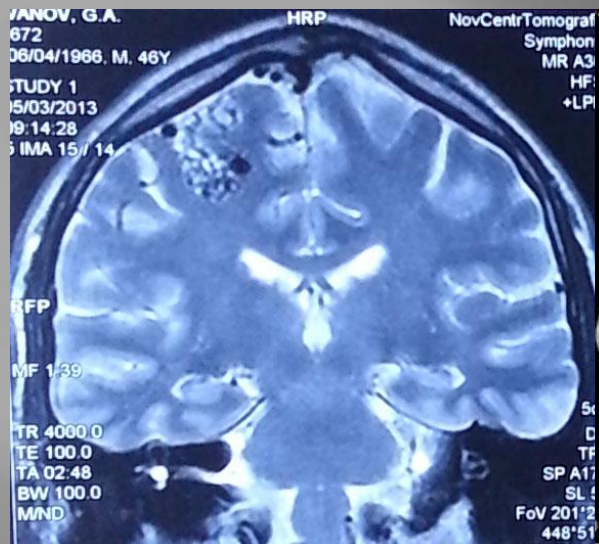


The Department of vascular neurosurgery , Russian Neurosurgical Institute of prof.
A. L. Polenov branch of NWMIC of V. A. Almazov

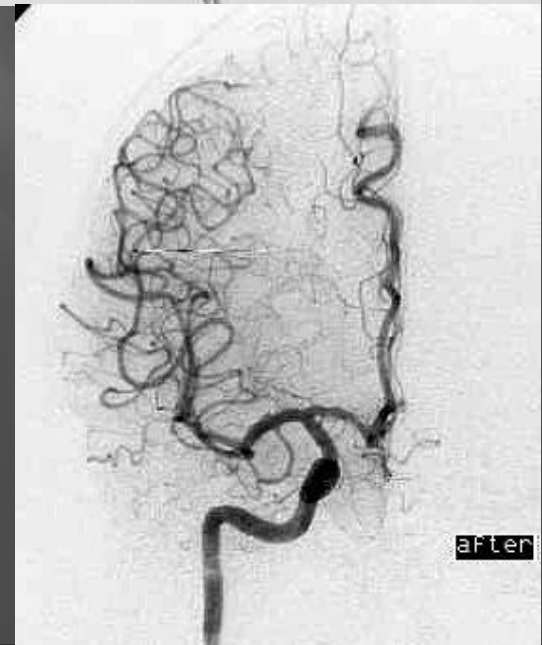
St. Petersburg 2017

□ Patient I, 47 years.

Q 28.2 AVM of the central gyrus of the right hemisphere
S-M II-III. Epileptic syndrome.



▣ 20.08.2013 г. One-stage embolization with ONYX



Apollo 1,5 F 3.0
Hybrid 007 J
ONYX 18 - 4,9 MJ

Total occlusion
mRs - 0

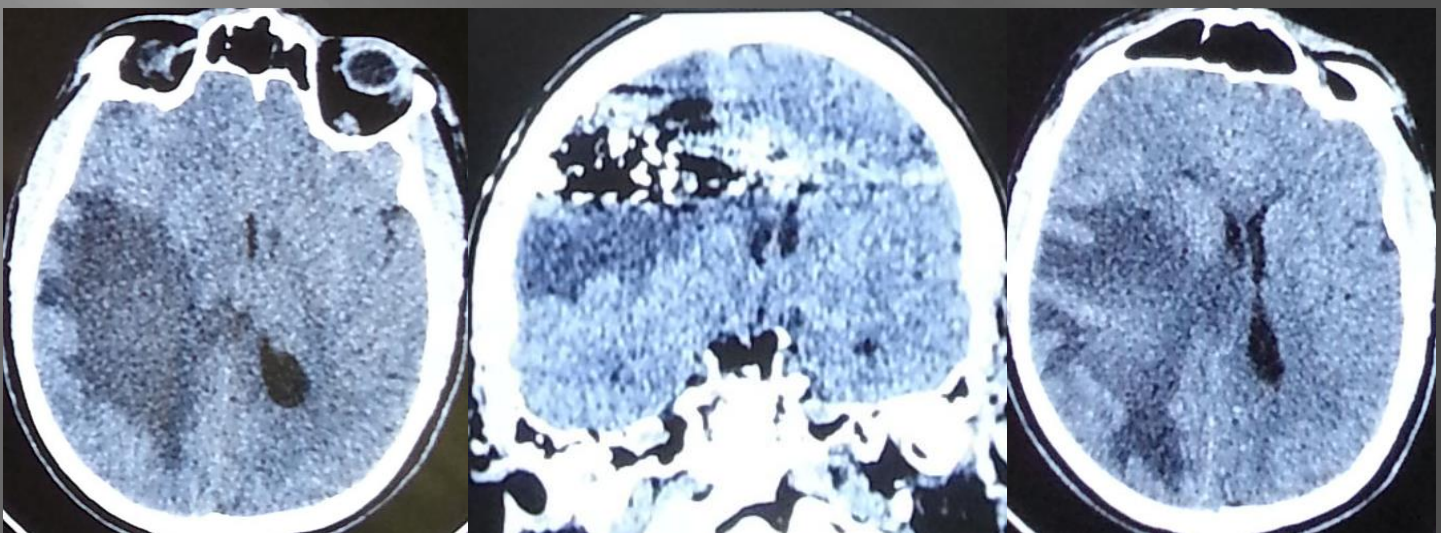
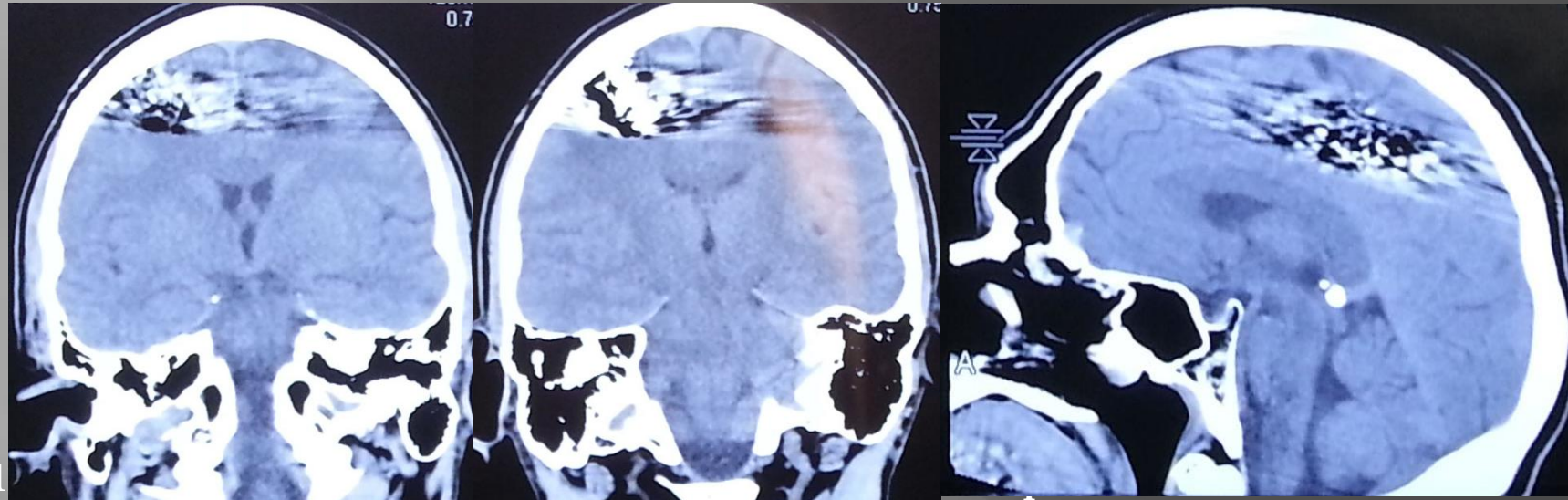
23/08/2013 sent home

26.08.2013 Fever 38-39 C , seizure with weakness in the left extremities.

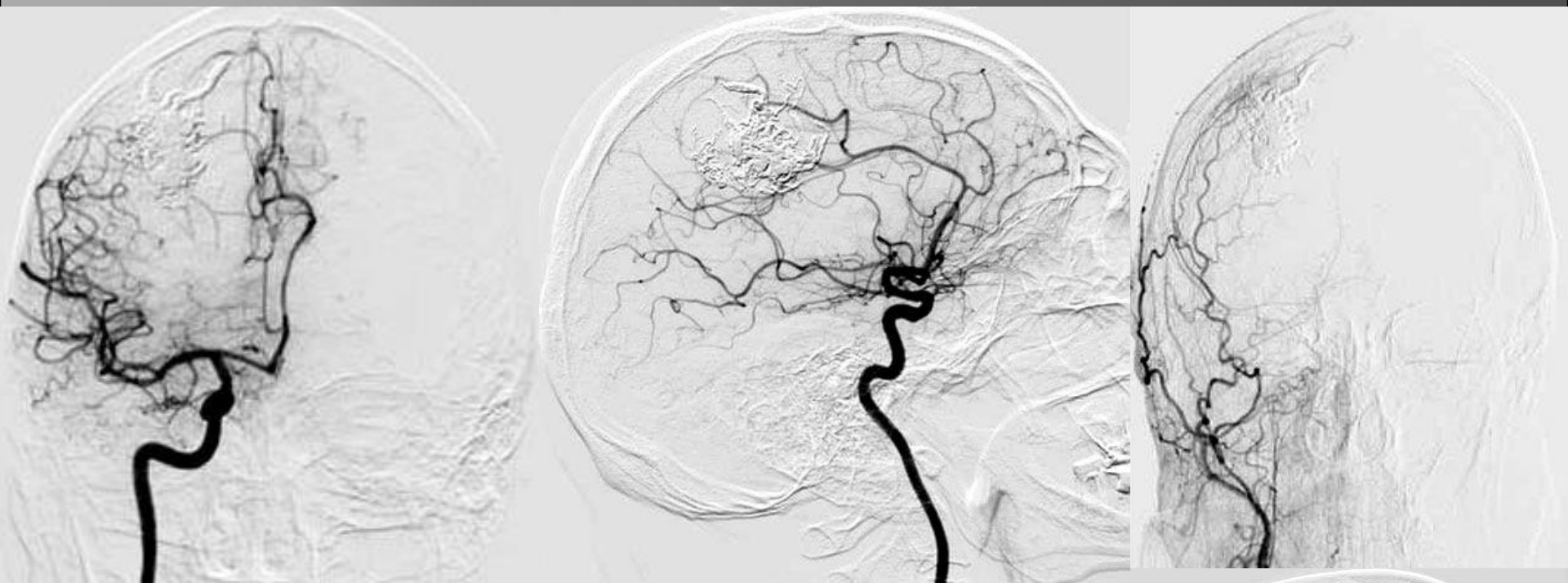
27.08.2013, was admitted to the hospital with a diagnosis of ischemic stroke in the pool right MCA with symptoms of a left-side hemiparesis, more in hand.

27.08.13 CT

13.1



DSA control 3 month later. 22.11.2013



**No
functioning
AVM**

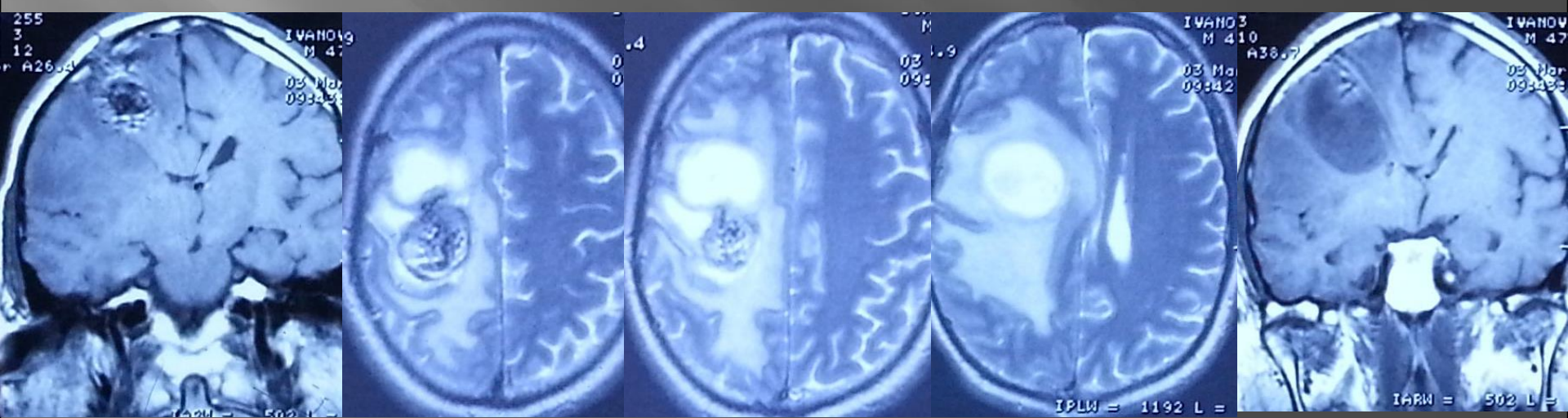


□ **29.11.2013** Operation – puncture of abscess of the right parietal lobe of the brain. 23 ml of a turbid odorless pus was evacuated , in abscess cavity was entered Tienam 1 g and metronidazol 10 ml Bacteriology - no infection. Patient received antibacterial therapy (Ceftriaxon)

□ **20.12.2013** the second puncture - about 10 ml of pus. Into the abscess cavity were inserted antibiotics

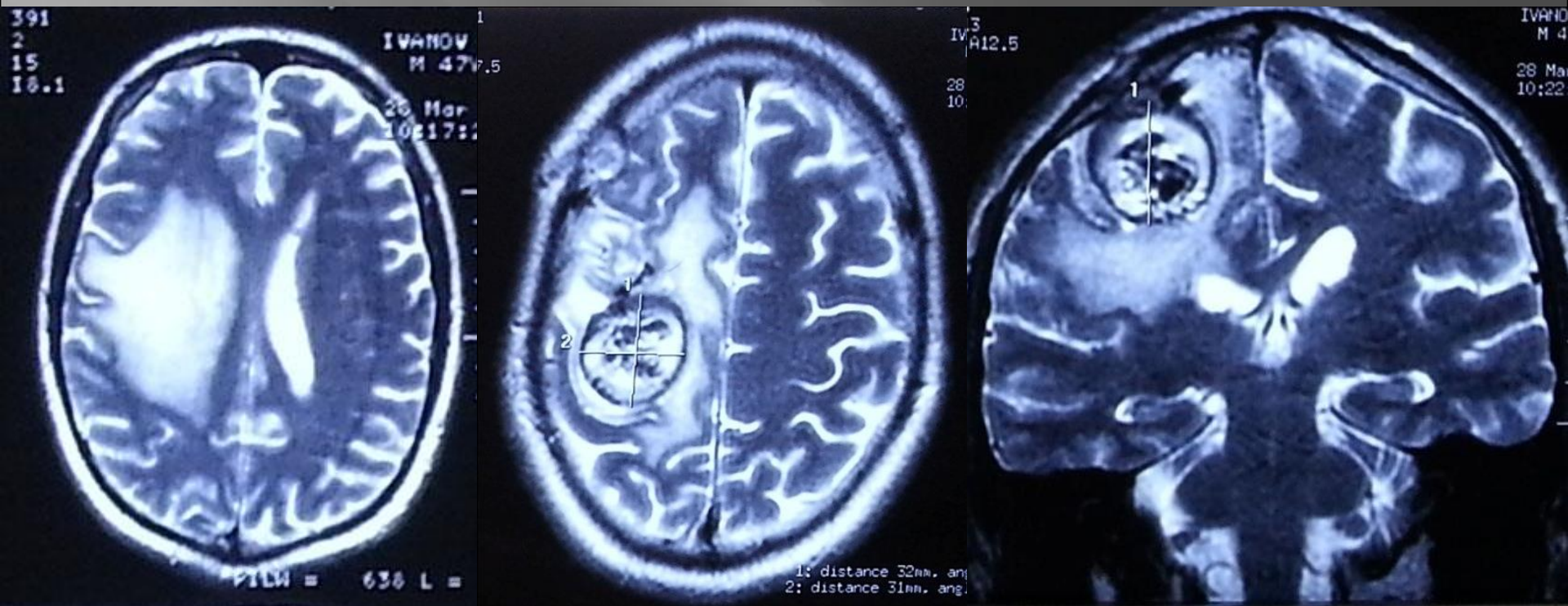
Till March - unsuccessful therapy - persisting seizures

□ **03.03.2014** MRI control cyst 4x3.3x4.4 sm.



07.03.2014 stereotactic puncture of the abscess of the posterior right frontal lobe. Received 15 ml of purulent content – no microflora was revealed.

MRI 28.03.14 – in the right parietal lobe formation of round shape 32x31x29 mm with the formed capsule .No displacement of median structures.



04.04.14 operation: decompressive craniotomy in the right parietal region, removal of abscess of the right parietal lobe and thrombosed AVM



Hystology

Granuloma with non-specific secondary infection

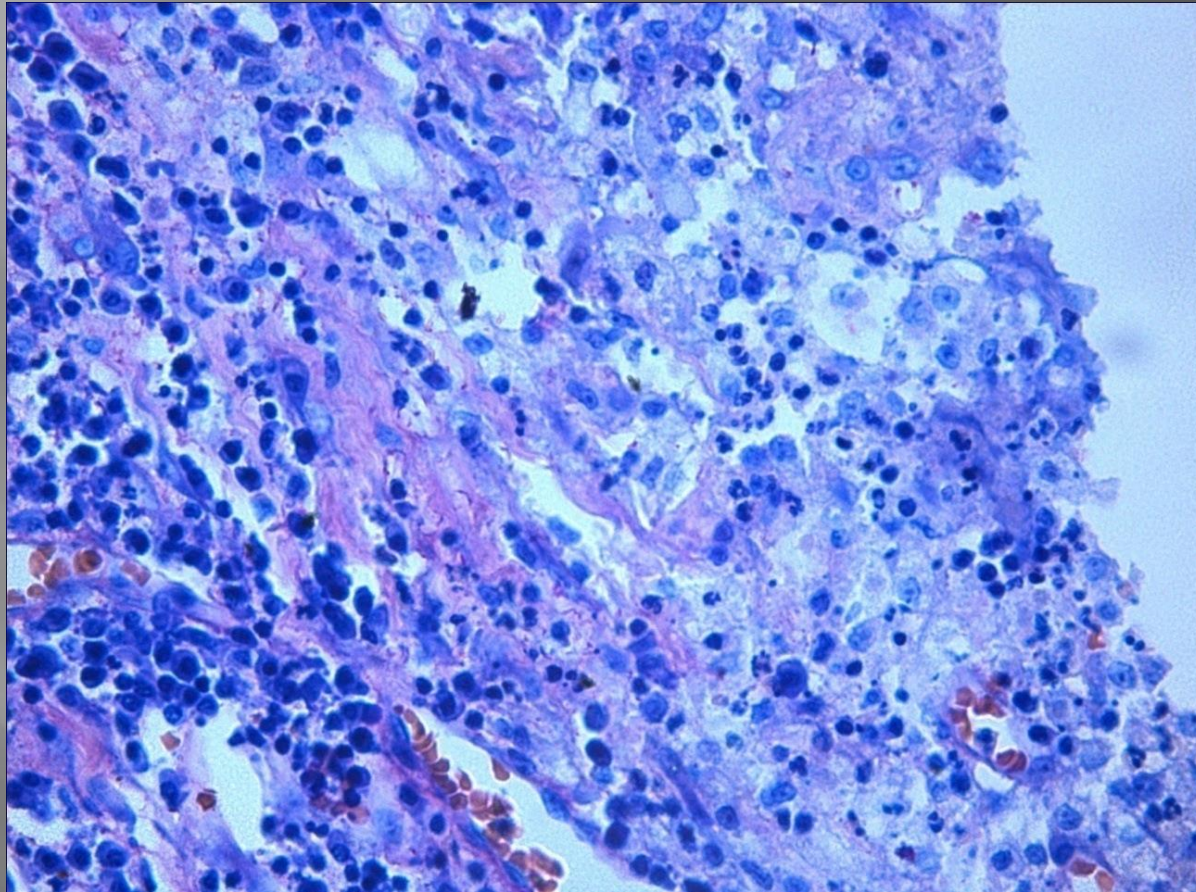
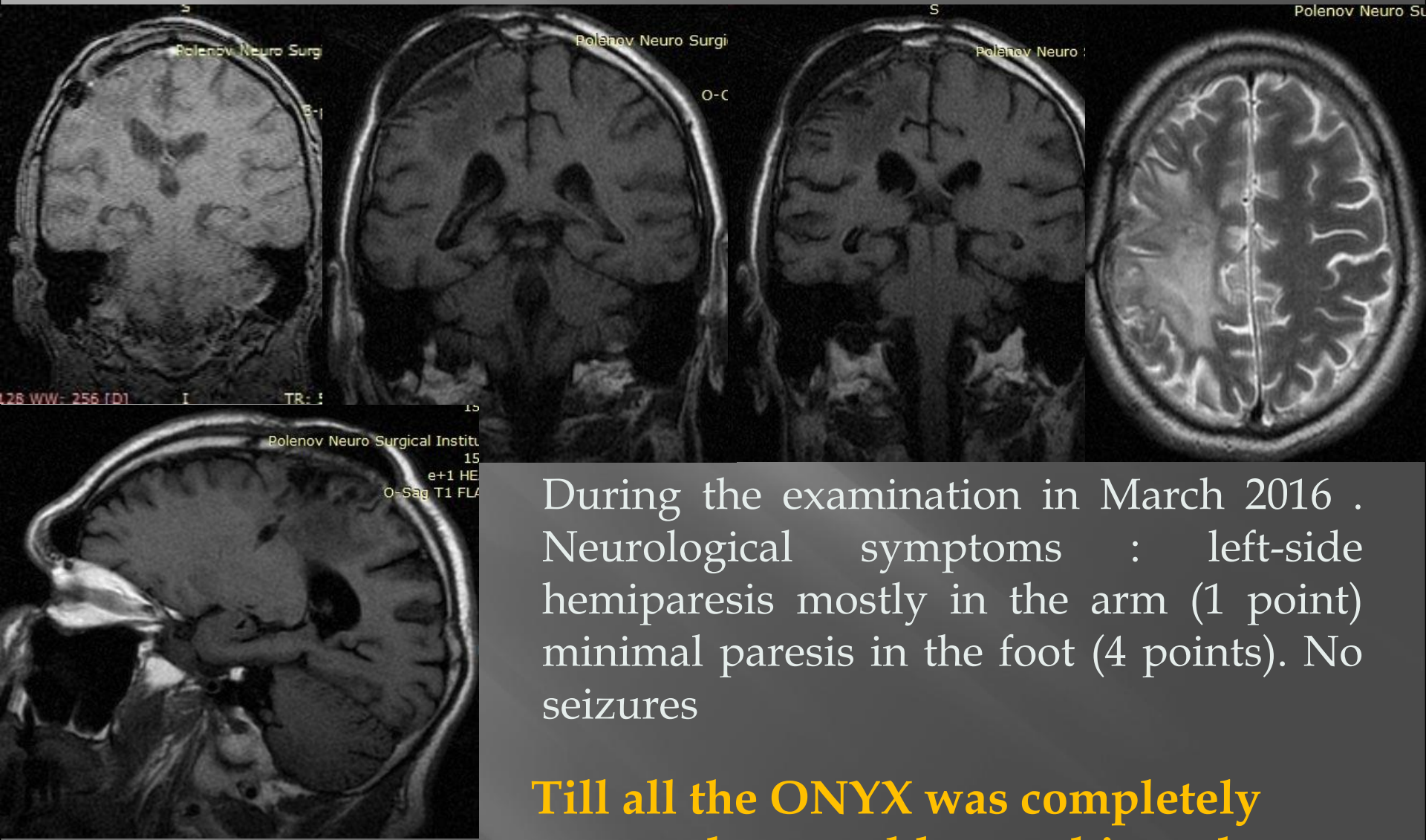


Fig.3 Colour Romanowska-Giemsa. X100

The pus with disintegration of leukocytes and polymorphic microflora. Granulation, lymphocytes, plasma cells, segmented cells, coccobacilli, separate groups of streptococci in the form of chains, coliform sticks?

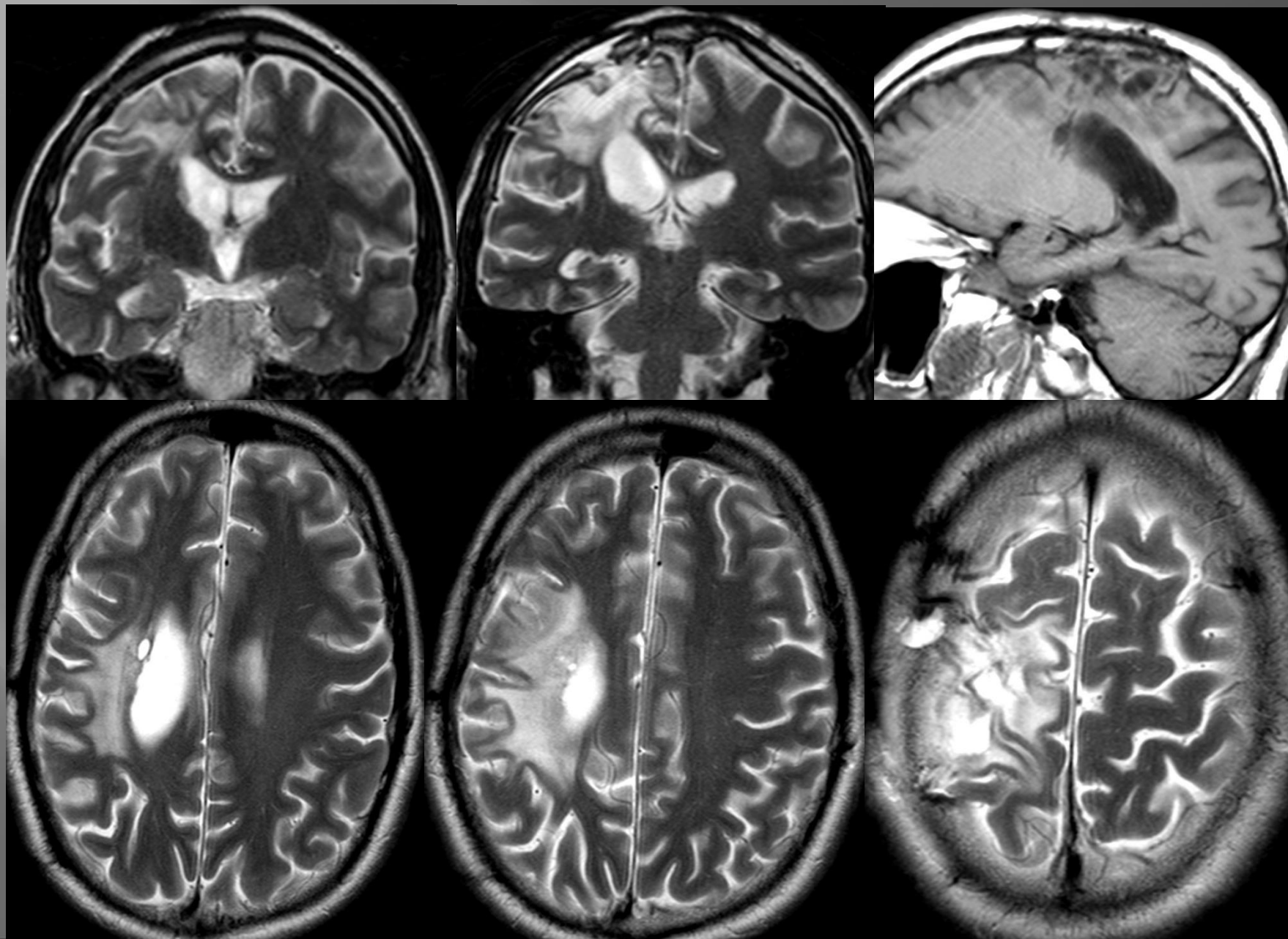
MRI control 10.11.15



During the examination in March 2016 .
Neurological symptoms : left-side
hemiparesis mostly in the arm (1 point)
minimal paresis in the foot (4 points). No
seizures

**Till all the ONYX was completely
removed we could not achieve the
recovery of the patient!**

□ MRI control 21.03.2017



THANK YOU FOR YOUR
ATTENTION

