



ACUTE CAROTID STENT TROMBOSIS AFTER DIRECT CAROTID STENTING IN THE PATIENT WITH ACUTE ISCHEMIC STROKE

PROKHOR PAVLOV, MD

DISTRICT CLINICAL HOSPITAL
KHANTY-MANSYSK, RUSSIA

DISCLOSURE STATEMENT OF FINANCIAL INTEREST

I, Prokhor Pavlov, MD, DO NOT have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.

One brain's story

Female, 50 years old

Risk factors: hypertension, thrombophilia (FGB , ITG3, PAI-1, MTHFR, MTRR), dyslipidemia

TIA 10/2011

6/11/2017 Symptoms Manifestation

10/11/2017 out-patient visit to dysarthria, CT-scan = Brain infarction – refused hospitalization



20/11/2017

Return symptoms: dysarthria, left hemiplegia, NIHSS – 7, Rankin Scale -3

CAS complications:

A - Minor complications

Carotid artery spasm
Sustained hypotension / bradycardia
Carotid artery dissection
Contrast encephalopathy (very rare)
Minor embolic neurological events (TIAs)

B - Major complications

Major embolic stroke
Intracranial hemorrhage
Hyperperfusion syndrome
Carotid perforation (very rare)
Acute stent thrombosis (very rare)
Complications at the site of the vascular access

ACUTE STENT THROMBOSIS AFTER CAS

ICCA STROKE 2019



0.04 – 2%

European Review for Medical and Pharmacological Sciences

2012; 16: 355-362

Acute carotid stent thrombosis after carotid artery stenting

K. XIROMERITIS¹, I. DALAINAS¹, M. STAMATAKOS², V. KATSIKAS³,
V. MARTINAKIS³, K. STAMATELOPOULOS⁴, V. PSARROS⁵



J Cardiovasc Thorac Res, 2018, 10(4), 243-245
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Case Report

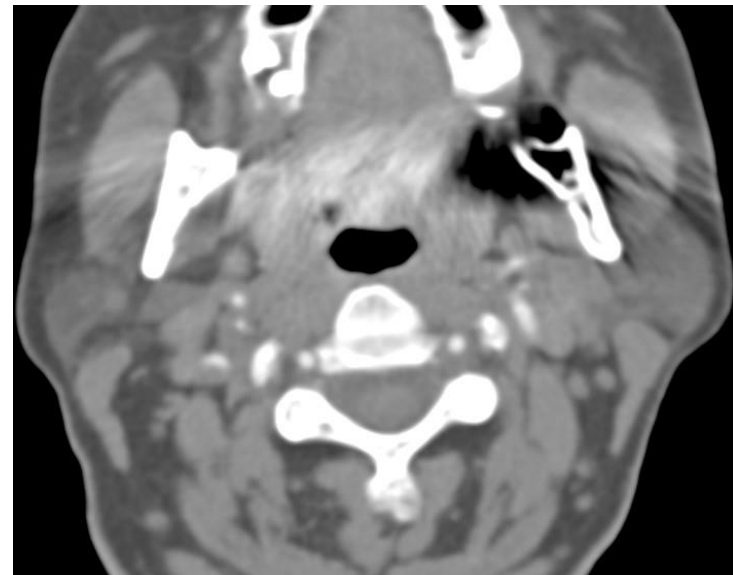
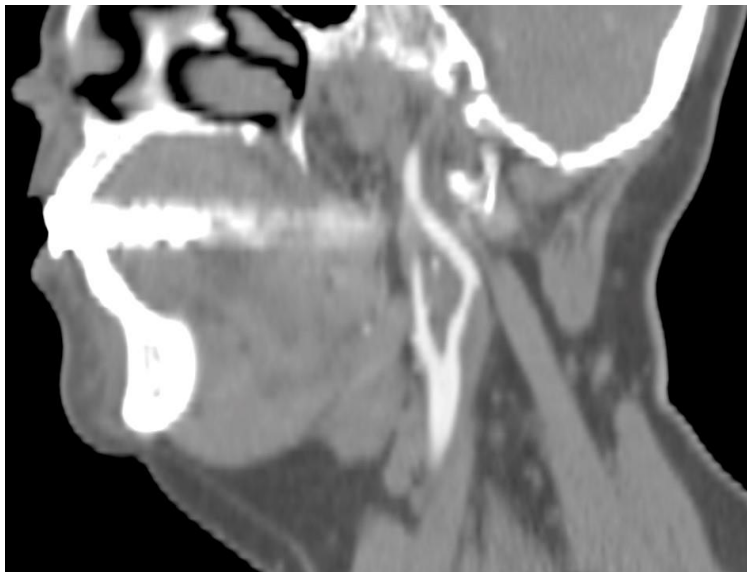
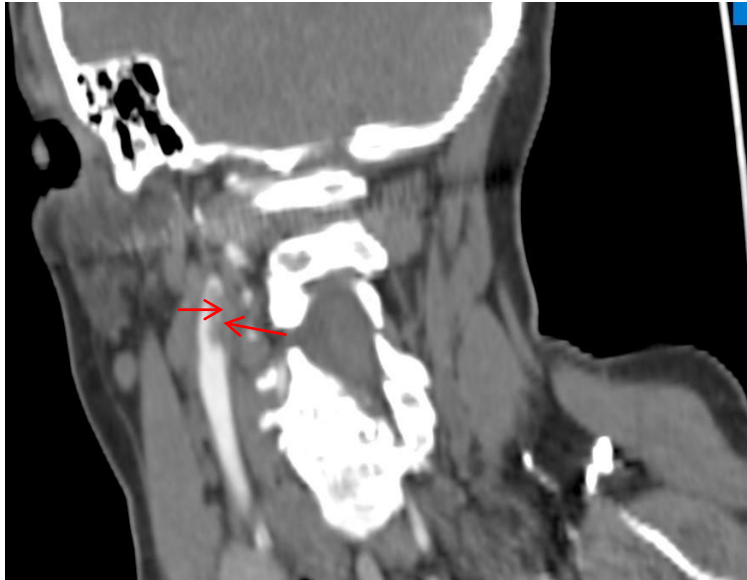
Acute carotid stent thrombosis

Muzaffer Kahyaoglu^{1*}, Murat Velioglu², Cetin Gecmen¹, Arzu Kalayci¹, Ender Ozgun Cakmak¹, Ibrahim Akın Izgi¹



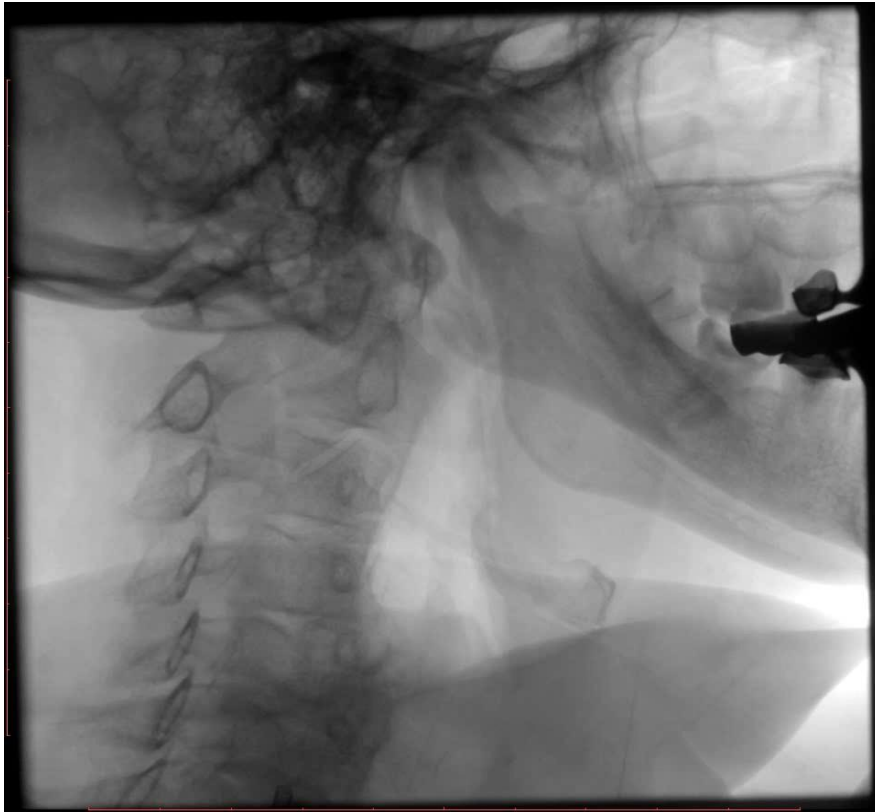
CT scan data

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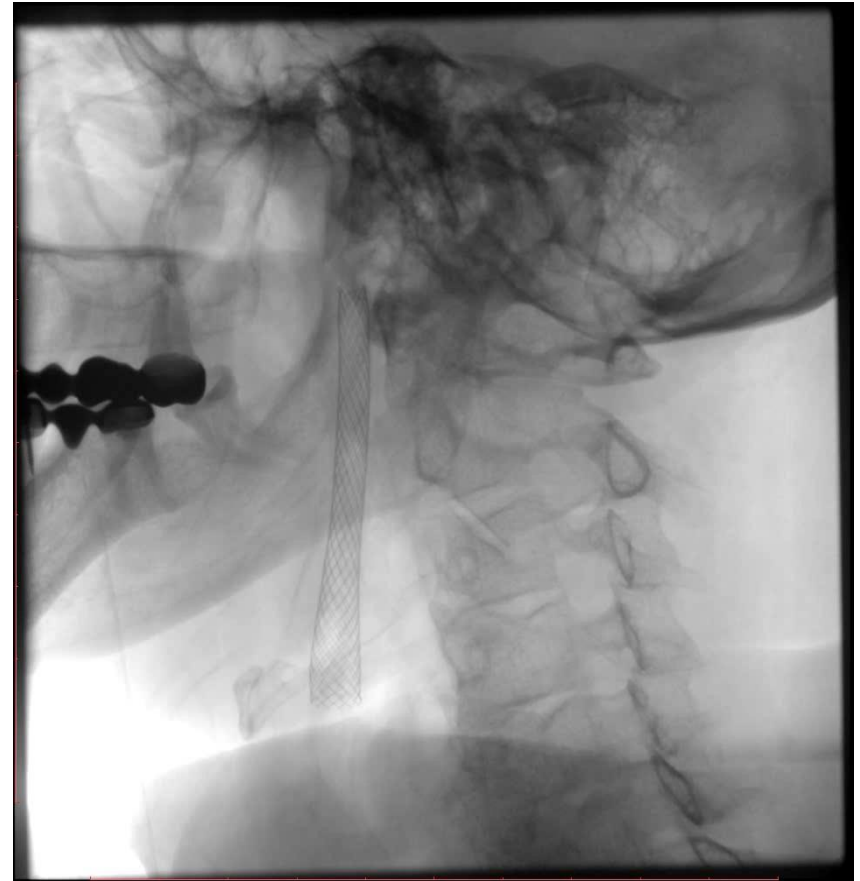
Angiography

Right internal carotid artery stenosis with thrombus Intracranial – not LVO



STROKE TEAM DECISION, 300 mg Plavix , CAS

ACUTE STROKE INTERVENTION – DIRECT CAROTID STENTING



Total time procedure 40 min, symptoms resolution on the table NIHSS 1

ACUTE STENT TROMBOSIS

10 hours after stenting



NIHSS 3 recurrent symptoms

Transition from Clopidogrel to Ticagrelol
(clopidogrel resistant)

Catheter Thrombectomy and final result



6 hours later follow-up

NIHSS 1

CT scan not founds new lesions

24 hours later follow-up

NIHSS 0

Discharge

NIHSS 0 Rankin 0

12 month follow-up

NIHSS 0 Rankin 0



TAKE HOME MESSAGE

Acute stent thrombosis after carotid artery stenting is very rare complication

Patients with thrombophilia should be tested to determine resistance to antiplatelet drugs

Catheter thrombectomy an effective and safe option for the treatment of acute carotid stent thrombosis

How we started?

ICCA
STROKE

2019

800 beds District Hospital
70 departments
400 000 population

15 years: ACS 7/24/365
post partum bleeding
acute surgical bleeding

2 cath. labs
7 Intervention
Cardiologists
3500 interventions: PCI,
peripheral, structural,
hypertension, oncology

STROKE PROGRAMM
2017 7/24/365

proxor73@gmail.com



Thank you very much
for your attention!

