

ESC Heart & Brain Workshop

Stroke treatment using AMI network in Moscow

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Moscow

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Boehringer
Ingelheim



Daiichi-Sankyo



Bristol-Myers Squibb

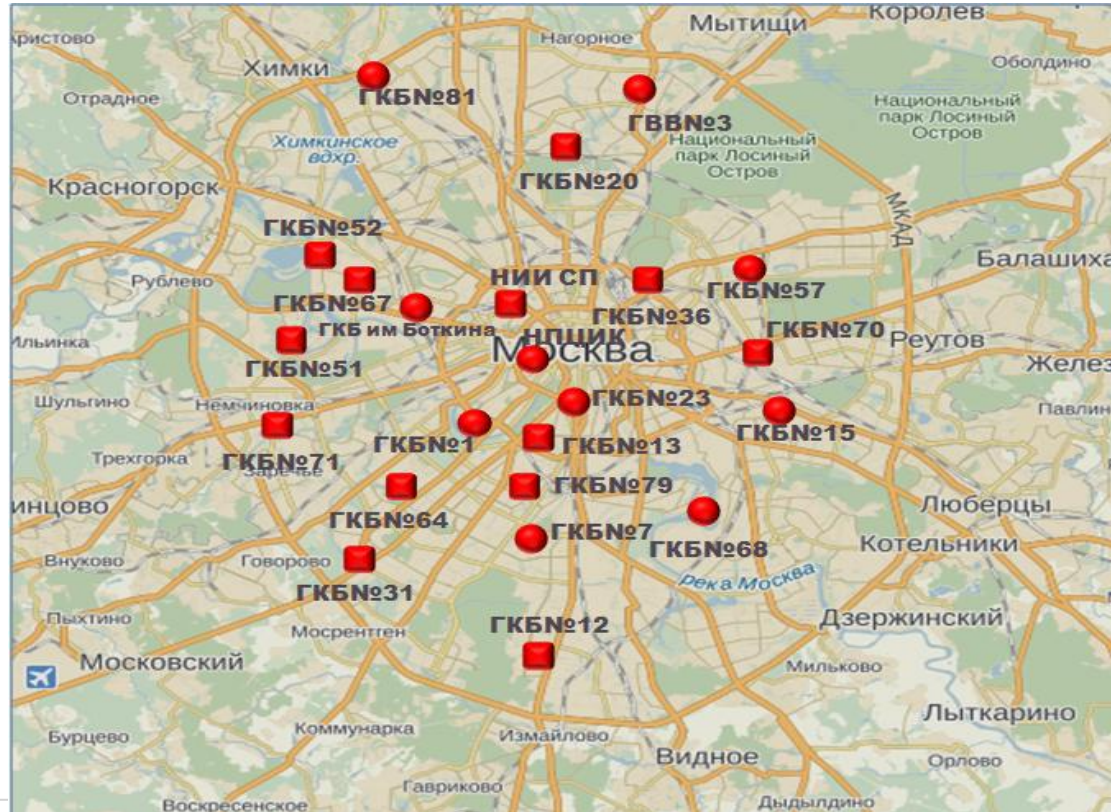


Medtronic
Further Together

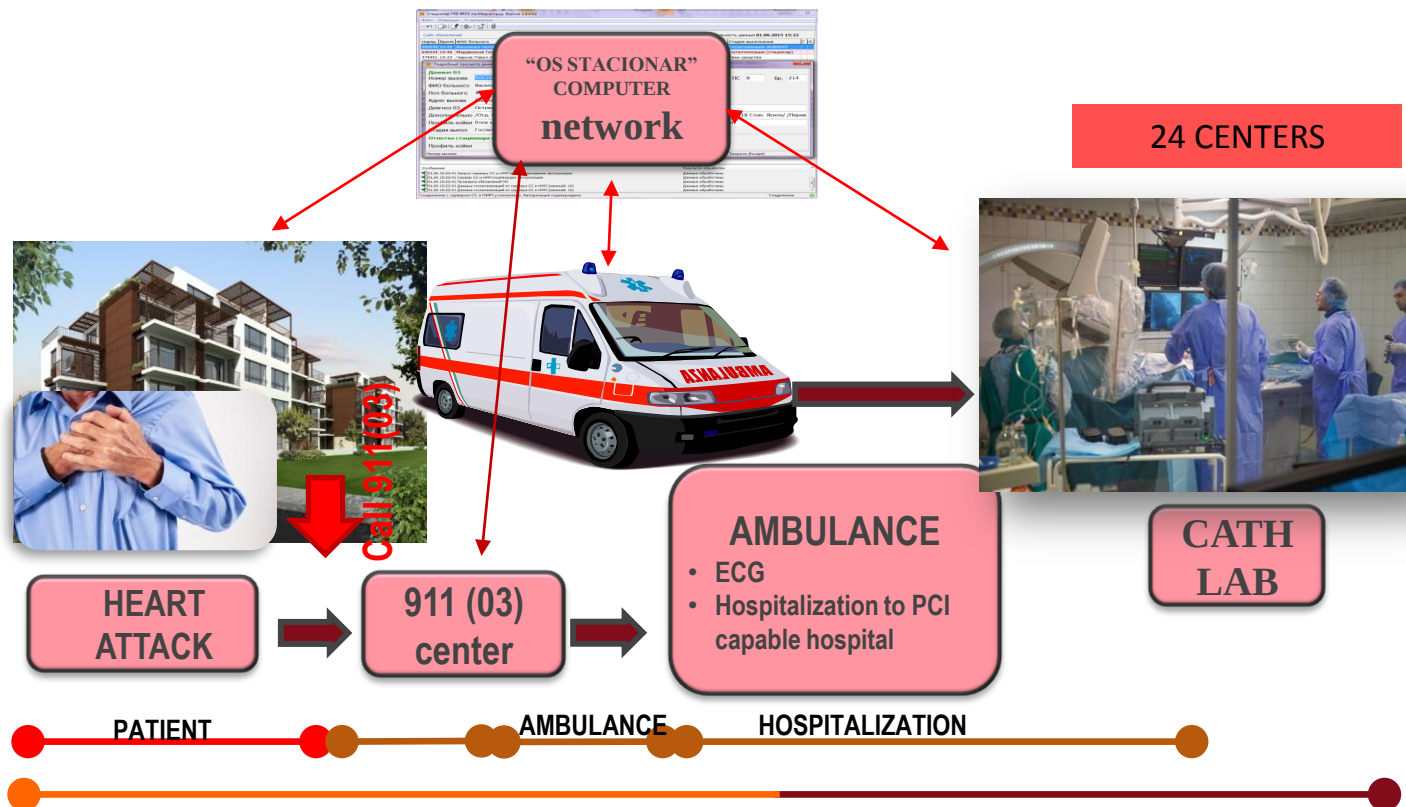
I HAVE NO CONFLICT OF INTEREST TO DECLARE

MOSCOW

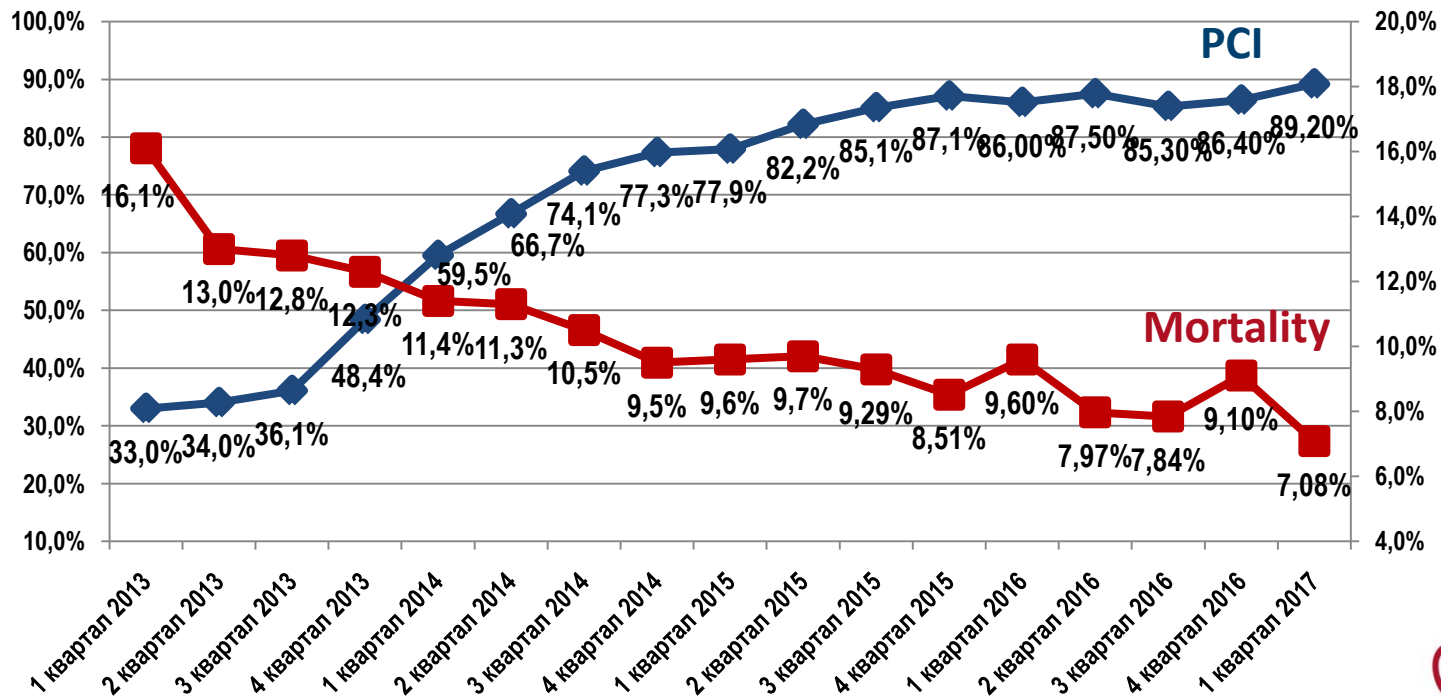
PCI-CAPABLE Hospitals



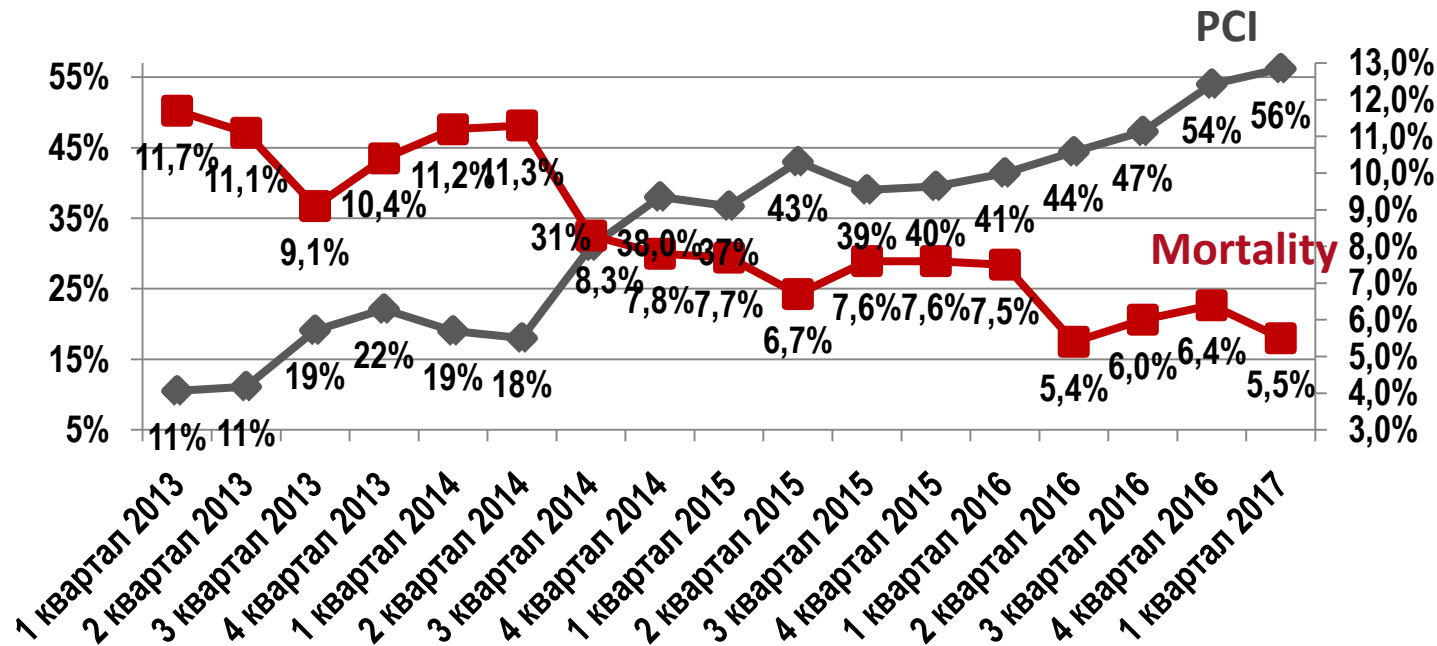
Moscow MI Network



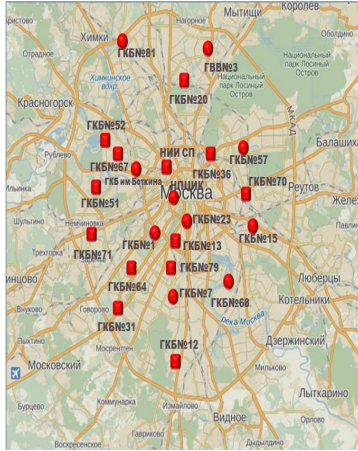
STEMI (2013 – 2017) MOSCOW



NON-STEMI (2013 – 2017) MOSCOW



MI NETWORK FOR STROKE TREATMENT



STROKE Team



CT/MRI

24/7



CT/MRI radiologist



STROKE UNIT

24/7



neurologist



CATH LAB

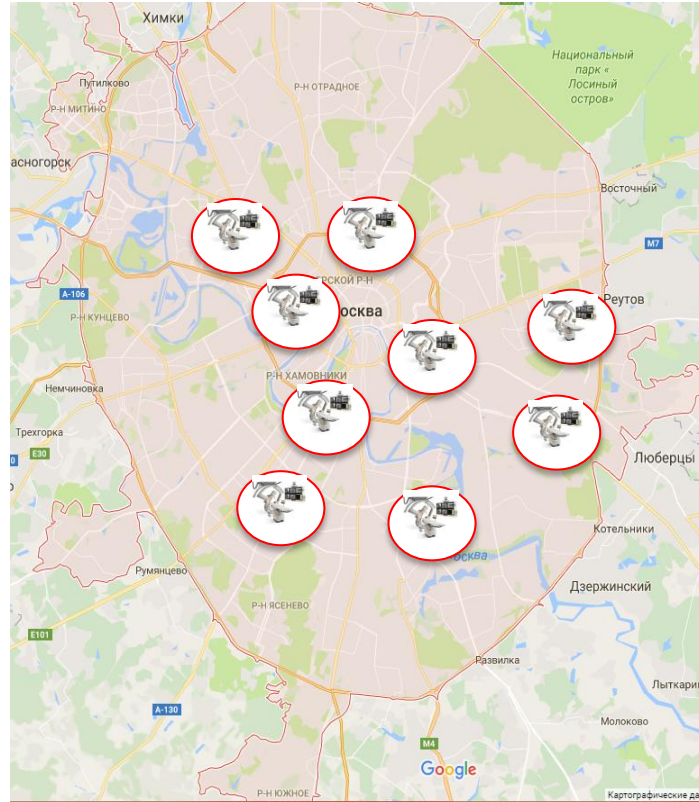
24/7



Interventional
cardiologist

MOSCOW

POPULATION 12 MILLION



INTERVENTION
STROKE
CENTER

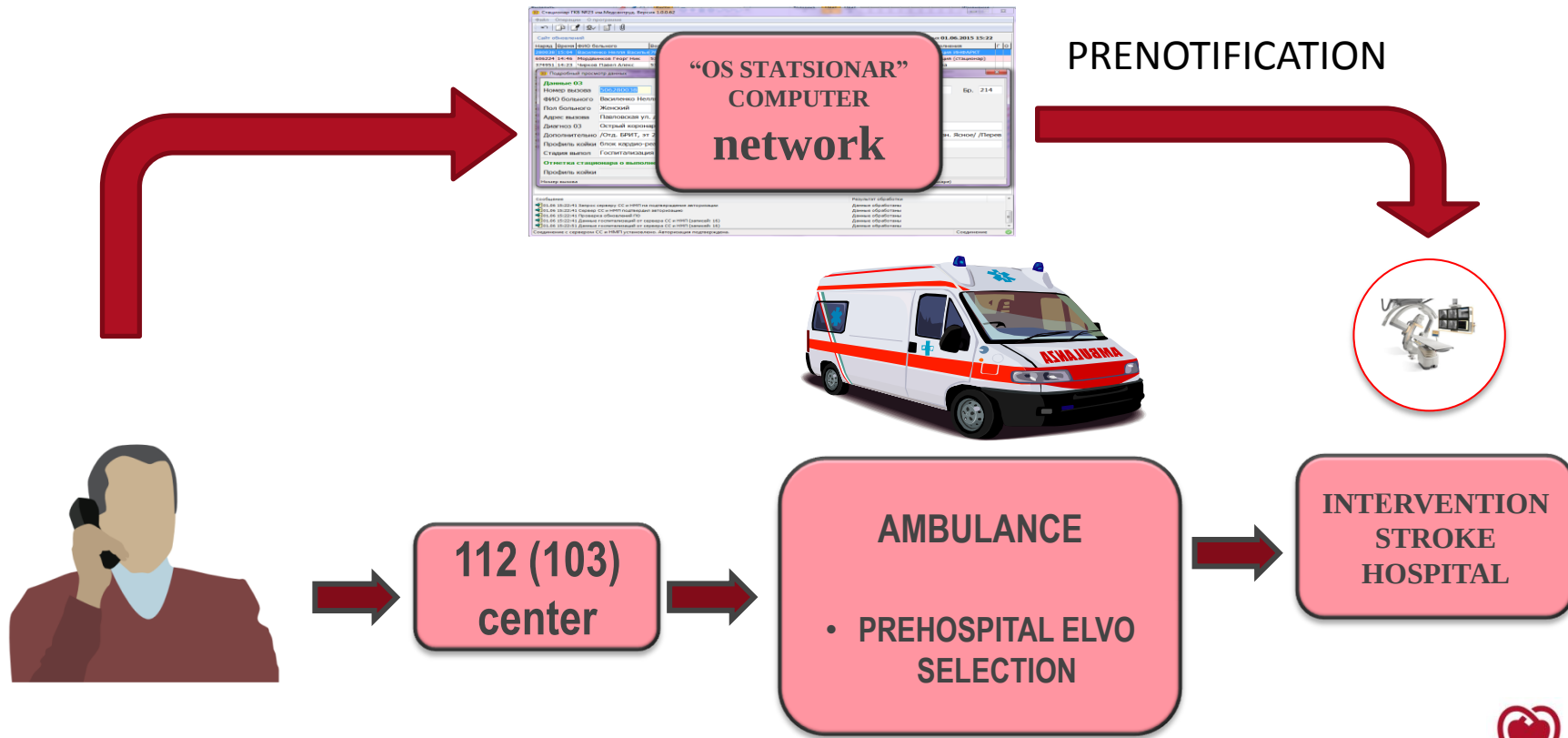
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EDUCATION PROGRAMM

1. SIMULATORS AND FLOW MODELS
2. ANIMAL LABS (RIGA, ROTHERDAM, AAHEN ...)
3. WORKSHOPS (Speakers from high experienced European hospitals)



MOSCOW STROKE NETWORK



HOSPITALIZATION (52 MIN)

PRE-HOSPITAL PATIENT SELECTION FOR INTERVENTIONAL STROKE TREATMENT

TIME FROM STROKE ONSET

< 4 HOURS



Stroke severity evaluation (ELVO selection):

Prehospital Stroke scale LAMS ≥ 4

Patient is conscious (no sopor or coma)

YES



Hospitalization to the selected interventional hospital

> 4 HOURS



Hospitalization to the nearest stroke unit

NO



IN-HOSPITAL PATIENT SELECTION FOR INTERVENTIONAL STROKE TREATMENT

- 1 NEUROIMAGING (ISCHEMIC STROKE CONFIRMATION)
- 2 NONINVASIVE ANGIOGRAPHY (ELVO CONFIRMATION)
- 3 ASPECTS ≥ 6
- 4 TIME FROM STROKE ONSET TO ARTERIAL PUNCTURE ≤ 6 HOURS



IN-HOSPITAL MEETING POINT



NEUROLOGIST



RADIOLOGIST



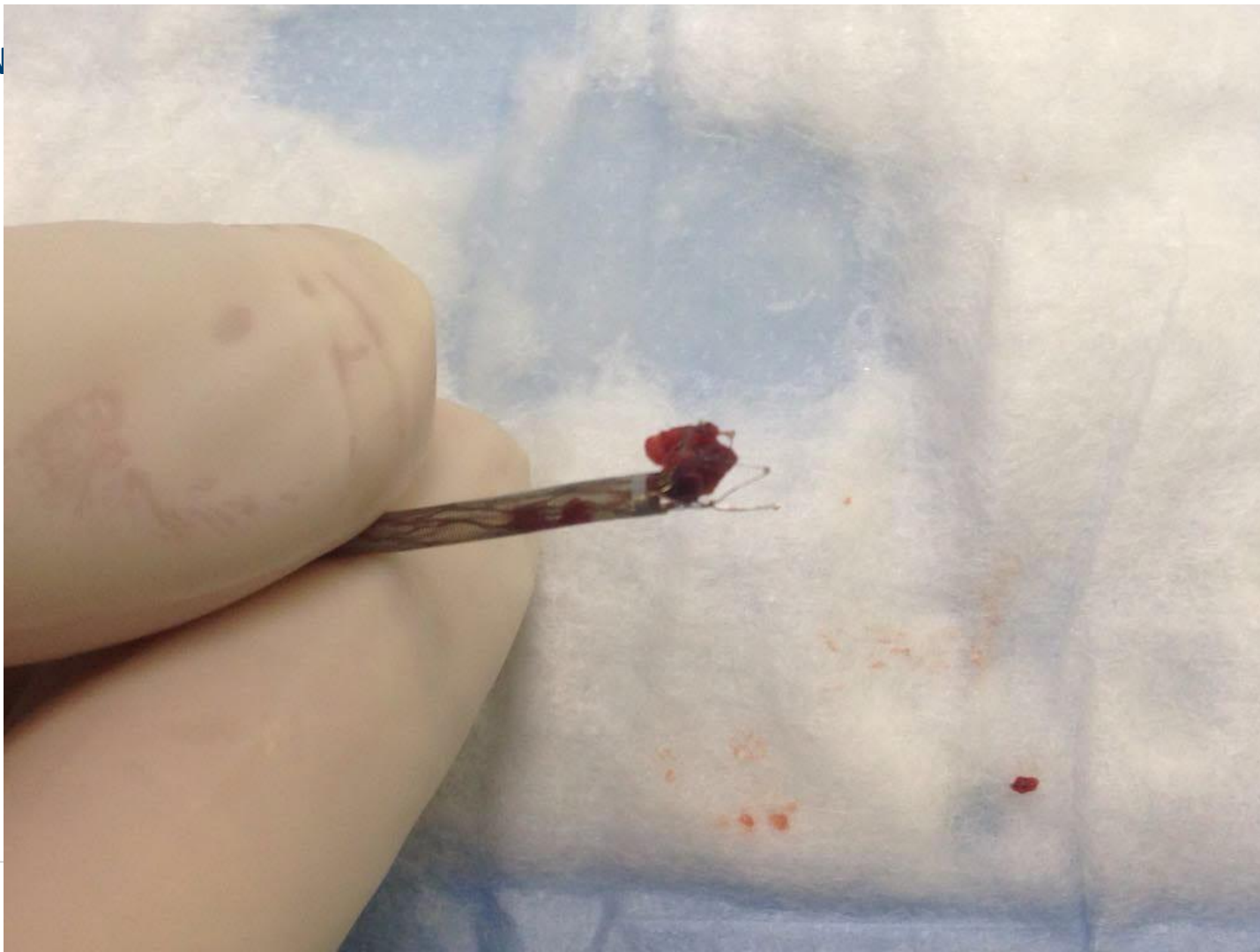
IV rTPA ?
INTERVENTION?



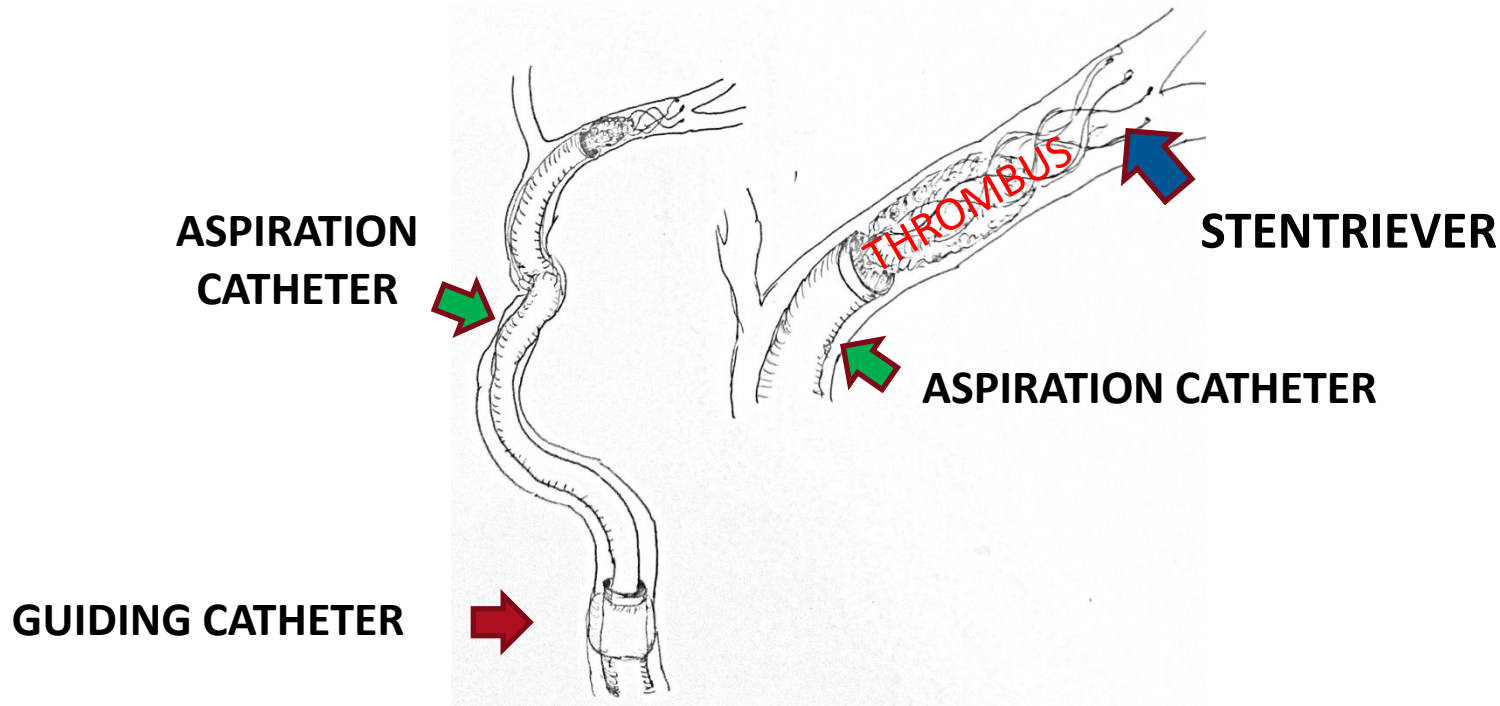
ANESTHESIOLOGIST

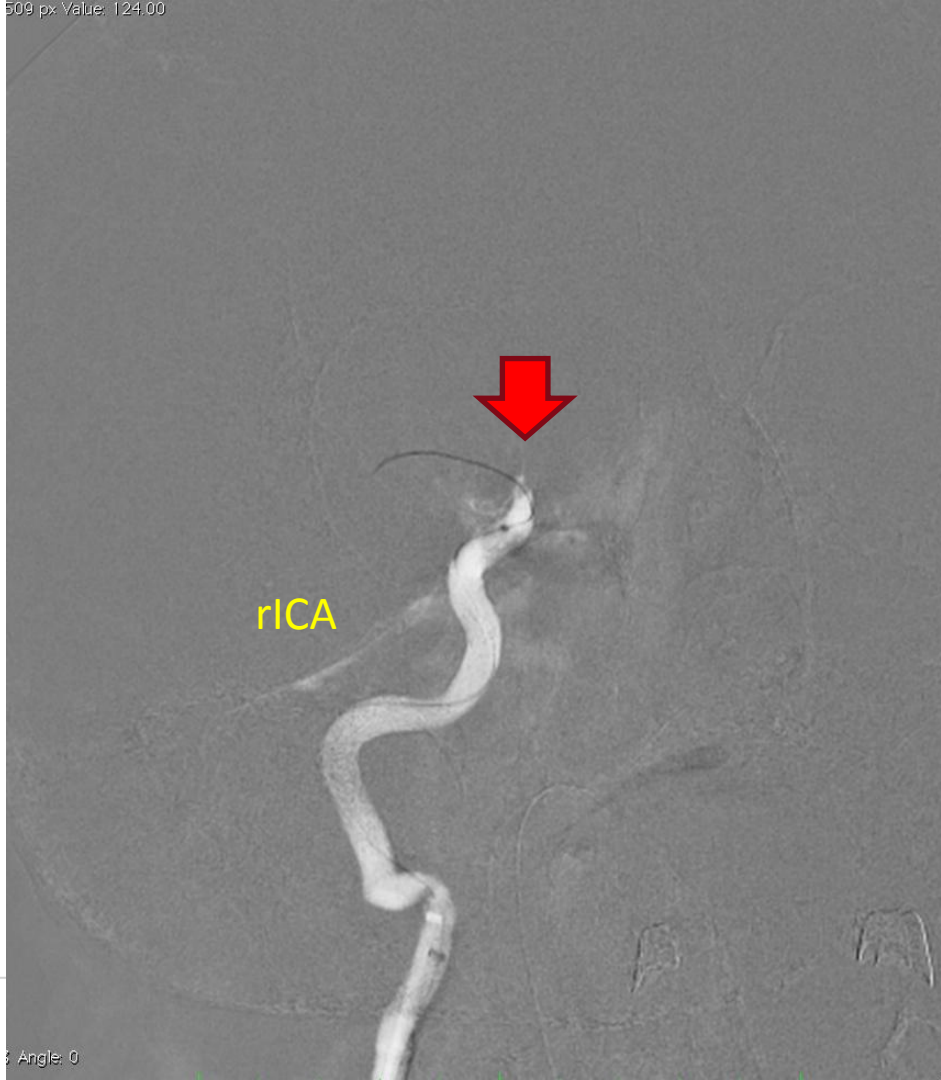


INTERVENTIONAL
RADIOLOGIST

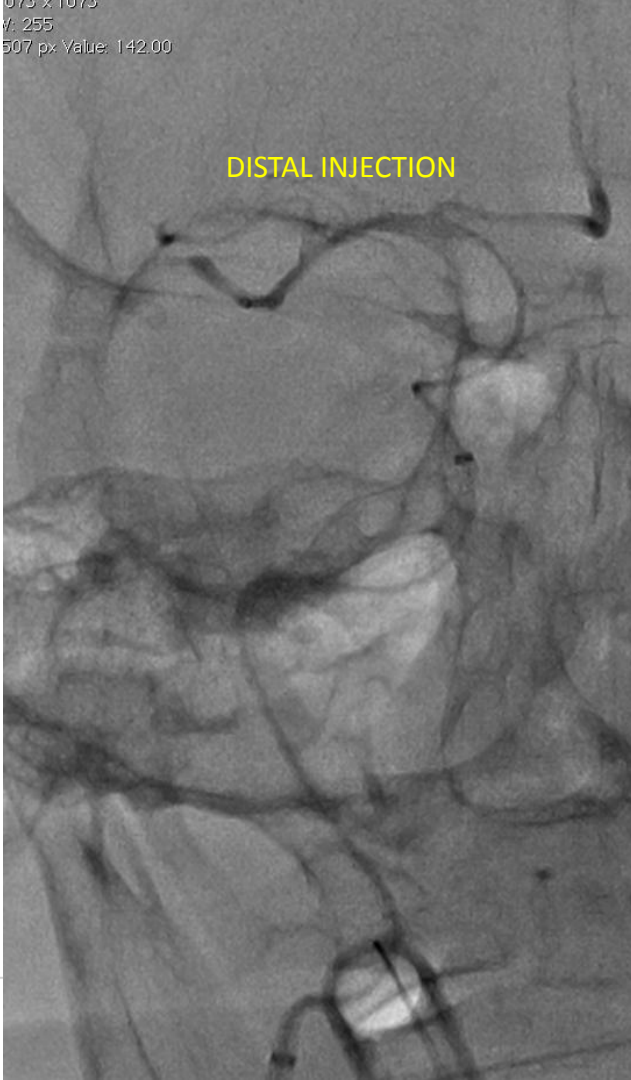


COMBINED STENTRIEVER + ASPIRATION





DISTAL INJECTION



STENTRIEVER

PROXIMAL INJECTION

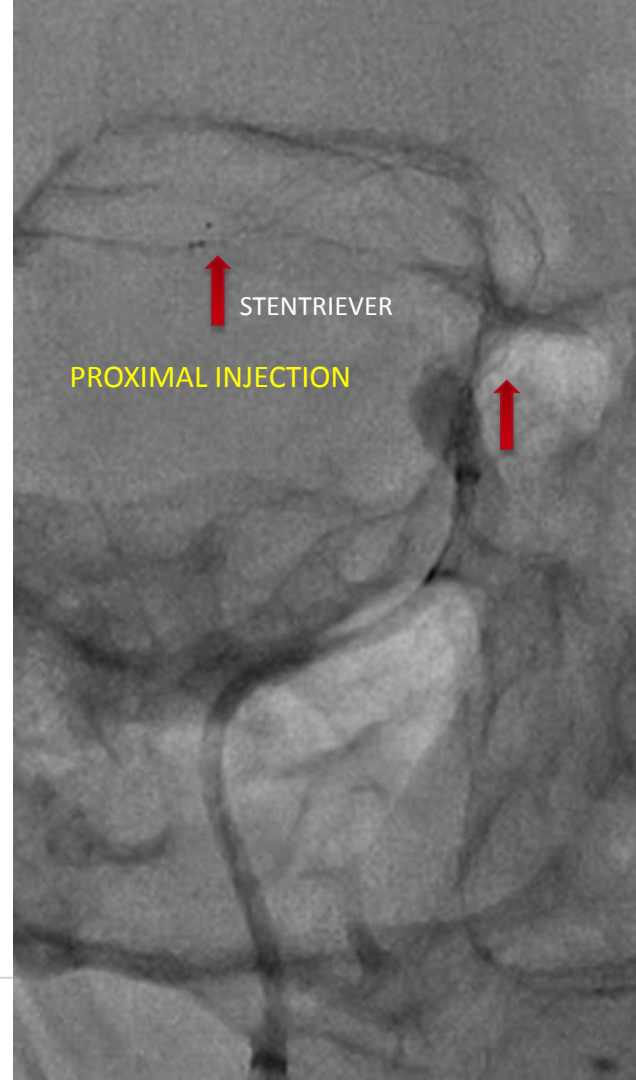


Image size: 512 x 512
View size: 1072 x 1071
WL: 127 WW: 255

Chizhova G.Yu 7416 (71 y., 71 y.)
Angle = unnamed
XA20170425135720
22





11 MONTH RESULTS (JAN – NOV 2017)

BASELINE CHARACTERISTICS

N = 248 PATIENTS

MALE 48,6%

MEAN NIHSS (admit) 16,4 +- 5,6

MEAN AGE 66,2 +- 13,3 Y (26 -98 Y)

TIME

SYMPTOM ONSET – CALL 47,8 MIN

MEAN 103 CALL – HOSPITAL 52 MIN

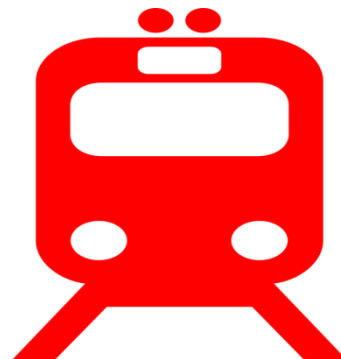
PUNCTURE – RECANALISATION 68,1 MIN

CLINICAL OUTCOME

mRS 0-2 32% (at discharge)

SYMPTOMATIC ICH 7,5%

STROKE INFORMATION PROGRAMM



ИНСУЛЬТ МОЖЕТ КОСНУТЬСЯ КАЖДОГО

Запомните простой тест, который поможет его распознать и вызвать вовремя «скорую»



Не может улыбнуться?
Уголок рта опущен?



Не может поднять обе руки?
Одна ослабла?



Не может разборчиво
произнести свое имя?



У врачей есть только 4,5 часа
чтобы спасти жизнь больного.

ЗВОНИТЕ 03 | МТС 030 | БИЛАЙН 003 | МЕГАФОН 030



ESC
Council
Stroke

Conclusion

- **An up-to-date “infarction network” has been built in Moscow, allowing to increase the number of PPCI and to decrease mortality in ACS patients.**
- **This infarction network laid the foundation for the stroke network focused on the treatment of patients with acute ischemic stroke.**

THANK YOU FOR YOUR ATTENTION!