ICCA STROKE 2019

WIST

How I started a Thrombectomy Service

Dr. Carlos Alejandro Alvarez

Hospital Privado Del Sur, Hospital Italiano Regional Del Sur,

Hospital Regional Español de la Ciudad de Bahia Blanca,

Argentina

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DISCLOSURE STATEMENT OF FINANCIAL INTEREST

I, Carlos Alejandro Alvarez, 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.

ICCA STROKE 2019

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The Beginning

Coronary Heart Disease Theater
Channel E2
Live Session Chat
Mitral Valve-in-Valve in the Global Registry
Live Session Chat
Endovascular / Structural Heart Disease Theater

MAIN ARENA ON DEMAND VIDEOS

2019

WIST

All **Monday** Tuesday Wednesday Thursday

Plenary Session III. Hot Topics 1: Interventional Stroke Therapy

9:35 AM

9:50 AM

Plenary Session III. Hot Topics 1:
Interventional Stroke Therapy
KEYNOTE LECTURE: Acute Stroke Intervention – From Pathophysiology to Management
Lecturers: David E. Thaler

Plenary Session III. Hot Topics 1:
Interventional Stroke Therapy
Roundtable Discussion With Audience Q&A

PLEASE TREAT THE PATIENTS WITH STROKE

Clinical outcomes are improved when the best medical management including intravenous tissue plasminogen activator ***(IV-tPA) administration***, if appropriate, is ***followed as soon as possible by mechanical thrombectomy***

STANDARD OF CARE

2015

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Randomized Assessment of Rapid Endovascular Treatment of Ischemic Stroke

M. Goyal, A.M. Demchuk, B.K. Menon, M. Eesa, J.L. Rempel, J. Thornton, D. Roy, T.G. Jovin, R.A. Willinsky, B.L. Sapkota, D. Dowlatshahi, D.F. Frei, N.R. Kamal, W.J. Montanera, A.Y. Poppe, K.J. Ryckborst, F.L. Silver, A. Shuaib, D. Tampieri, D. Williams, O.Y. Bang, B.W. Baxter, P.A. Burns, H. Choe, J.-H. Heo, C.A. Holmstedt, B. Jankowitz, M. Kelly, G. Linares, J.L. Mandzia, J. Shankar, S.-I. Sohn, R.H. Swartz, P.A. Barber, S.B. Coutts, E.E. Smith, W.F. Morrish, A. Weill, S. Subramaniam, A.P. Mitha, J.H. Wong, M.W. Lowerison, T.T. Sajobi, and M.D. Hill for the ESCAPE Trial Investigators*

ESCAPE (n=316) BMT	53% vs 29%

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

A Randomized Trial of Intraarterial Treatment for Acute Ischemic Stroke

Clinical trial	mRS 0-2 T vs C Adj. OR, 95%CI
MR CLEAN (n=500) IV alteplase	33% vs 19% 2.2 (1.4, 3.4)

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Endovascular Therapy for Ischemic Stroke with Perfusion-Imaging Selection

B.C.V. Campbell, P.J. Mitchell, T.J. Kleinig, H.M. Dewey, L. Churilov, N. Yassi, B. Yan, R.J. Dowling, M.W. Parsons, T.J. Oxley, T.Y. Wu, M. Brooks, M.A. Simpson, F. Miteff, C.R. Levi, M. Krause, T.J. Harrington, K.C. Faulder, B.S. Steinfort, M. Priglinger, T. Ang, R. Scroop, P.A. Barber, B. McGuinness, T. Wijeratne, T.G. Phan, W. Chong, R.V. Chandra, C.F. Bladin, M. Badve, H. Rice, L. de Villiers, H. Ma, P.M. Desmond, G.A. Donnan, and S.M. Davis, for the EXTEND-IA Investigators*

EXTEND IA (n= 70) IV alteplase	71% vs 40% 4.2 (1.4, 12)

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Stent-Retriever Thrombectomy after I… t-PA vs. t-PA Alone in Strok…

Jeffrey L. Saver, M.D., Mayank Goyal, M.D., Alain Bon…, Hans-Christoph Diener, M.D., Ph.D., Elad I. Levy, M.D., Vitor M. Pereira, M.D., Gregory W. Albers, M.D., Christophe Cognard, M.D., David J. Cohen, M.D., Werner Hacke, M.D., Ph.D., Olav Jansen, M.D., Ph.D., Tudor G. Jovin, M.D., Heinrich P. Mattle, M.D., Raul G. Nogueira, M.D., Adnan H. Siddiqui, M.D., Ph.D.

SWIFT PRIME (n=196) IV alteplase	60% vs 35% 2.7 (1.5, 4.9)

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

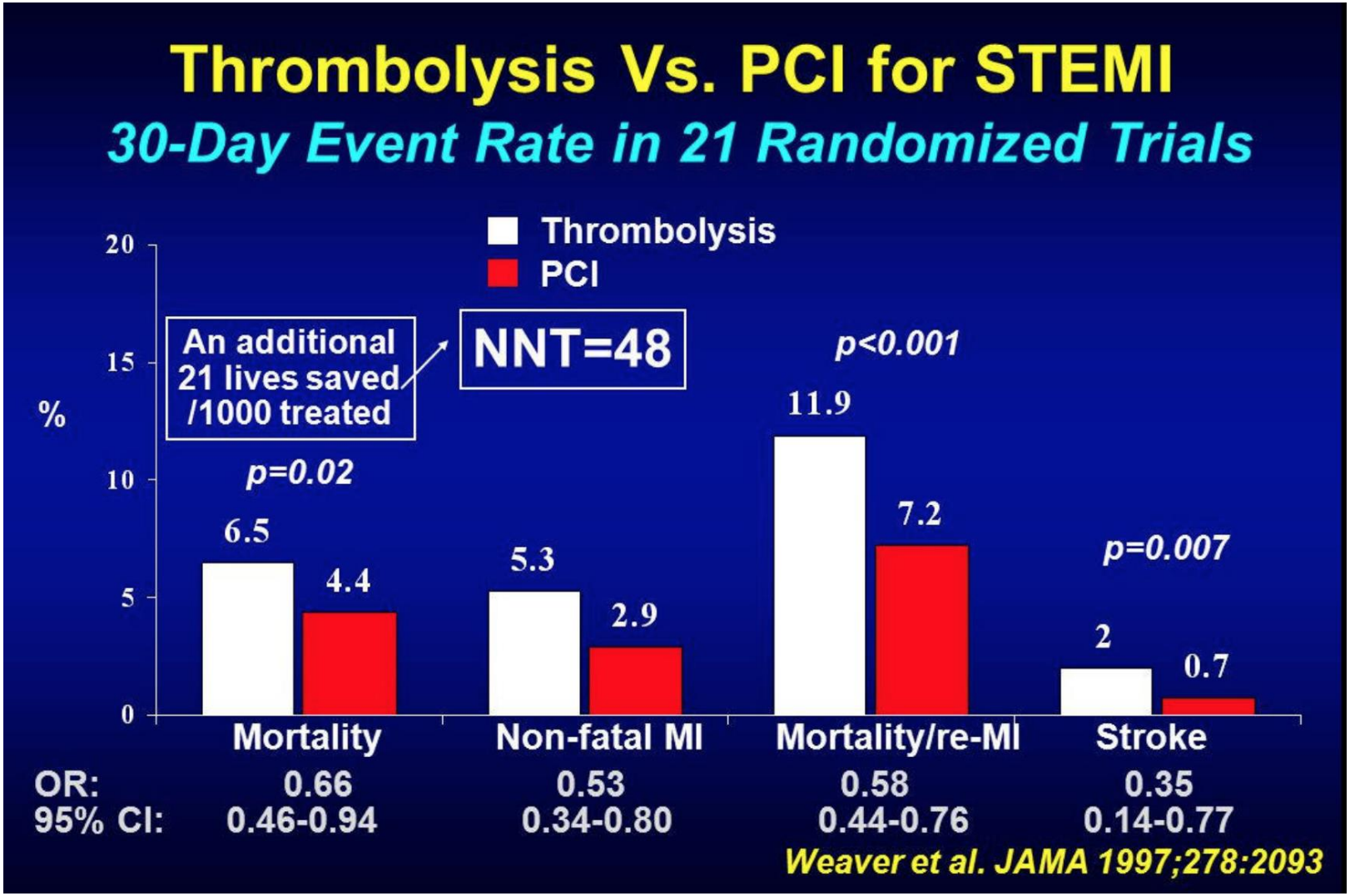
…ombectomy within 8 Hours after …mptom Onset in Ischemic Stroke

T.G. Jovin, A. Chamorro, E. Cobo, M.A. de Miquel, C. A. Molina, A. Rovira, L. San Román, J. Serena, S. Abilleira, M. Ribó, M. Millán, X. Urra, P. Cardona, E. López-Cancio, A. Tomasello, C. Castaño, J. Blasco, L. Aja, L. Dorado, H. Quesada, M. Rubiera, M. Hernández-Pérez, M. Goyal, A. M. Demchuk, …

REVASCAT (n=206) BMT	44% vs 28% 2.1 (1.1, 4.0)

And now?

Evidence


Thrombolysis Vs. PCI for STEMI
30-Day Event Rate in 21 Randomized Trials
Thrombolysis
PCI
%
20
15
10
5
0
An additional 21 lives saved /1000 treated
NNT=48
p=0.02
p<0.001
p=0.007
6.5
4.4
5.3
2.9
11.9
7.2
2
0.7
Mortality
Non-fatal MI
Mortality/re-MI
Stroke
OR:
95% CI:
0.66
0.46-0.94
0.53
0.34-0.80
0.58
0.44-0.76
0.35
0.14-0.77
Weaver et al. JAMA 1997;278:2093

Evidence

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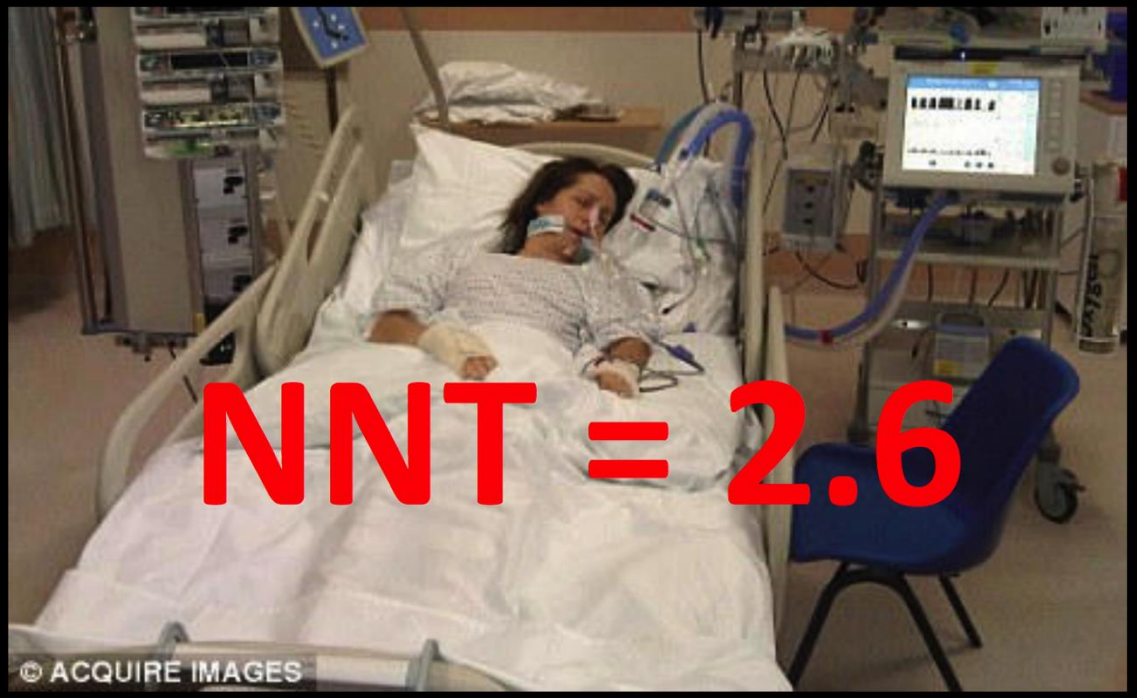
Large vessel stroke
Thrombolysis vs Mechanical Embolectomy



The Beginning

TEX

SESSION 70: **VENOUS PRACTICE MANAGEMENT**

MULTIDISCIPLINARY ACUTE STROKE MANAGEMENT AT AIMsymposium; (ALSO OFFERED TO VEITHsymposium REGISTRANTS - PROGRAM J - SESSIONS 71-76; 8:00 A.M. to 5:30 P.M.)
Location: Murray Hill Suites East and West, 2nd Floor;

SESSION 71: **THE OPENING OF A NEW ERA: STROKE TRIALS AND EVIDENCE**

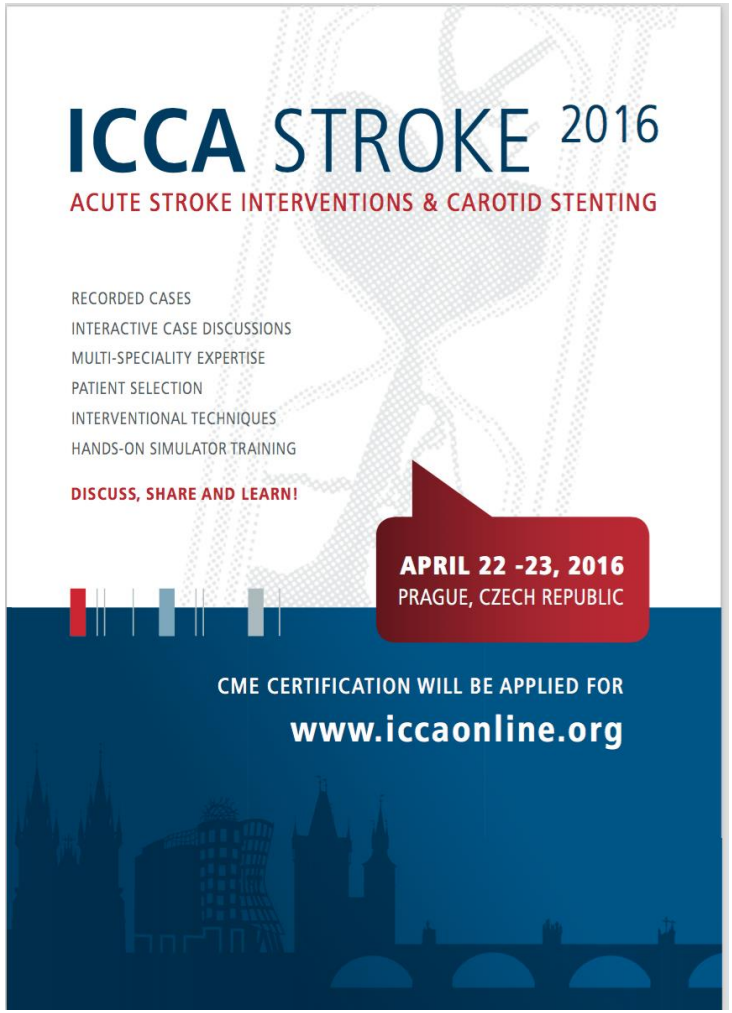
SESSION 72: **TRIAGE STRATEGIES THAT NEED TO BE ADDRESSED**

SESSION 73: **LUNCHEON PROGRAM: NEW FRONTIERS IN BRAIN**

SESSION 71: **THE OPENING OF A NEW ERA: STROKE TRIALS AND EVIDENCE**

- **Special Non-CME Accredited Activities**
- **Past Programs**

The Beginning



including neuroradiologists, neurologists, cardiologists, Neurosurgeons and vascular surgeons and anesthetists.

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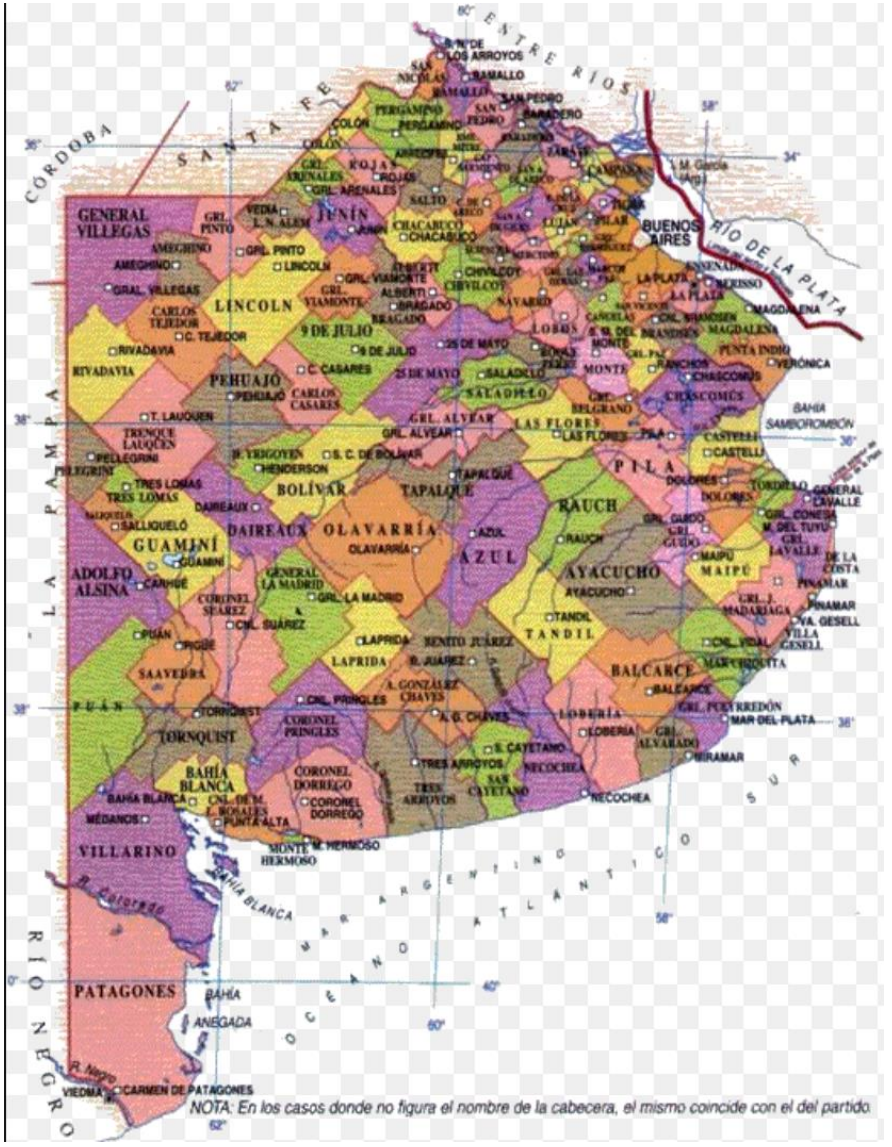
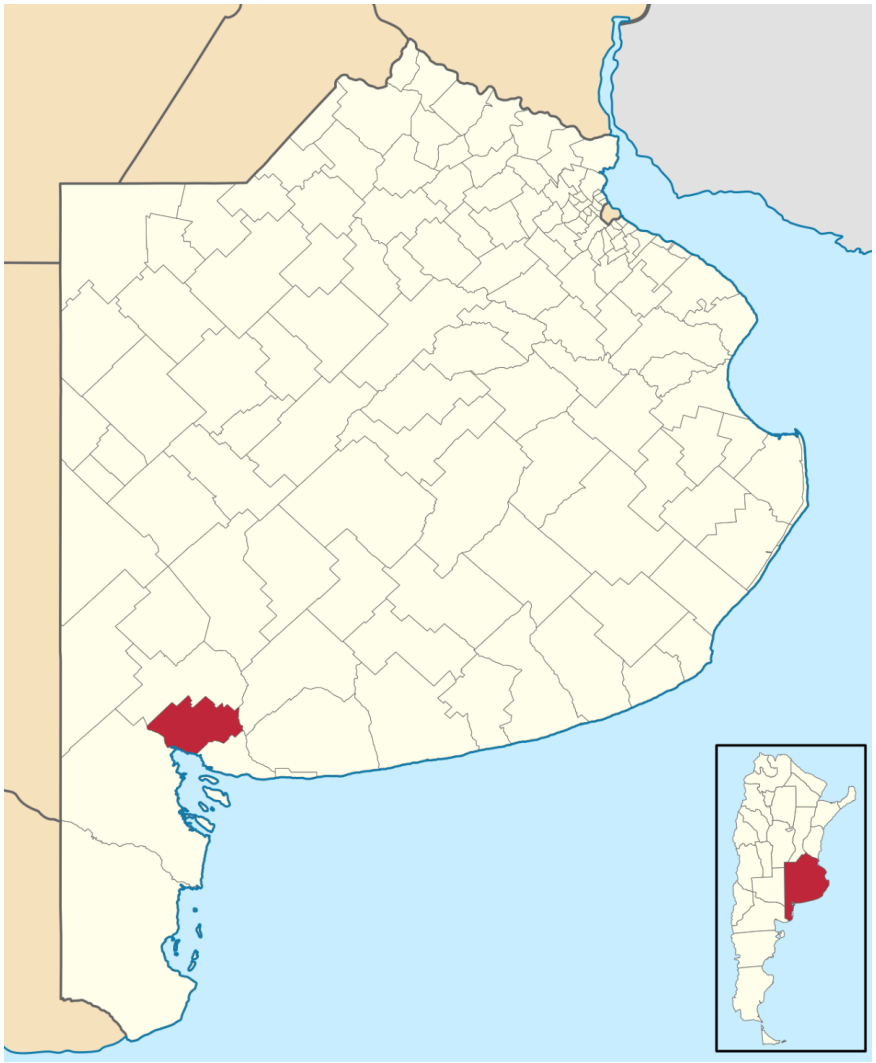
Dr. Antonio Moreno

Argentina- Buenos Aires
135 districts



Bahia Blanca

> 350.000 Pop.

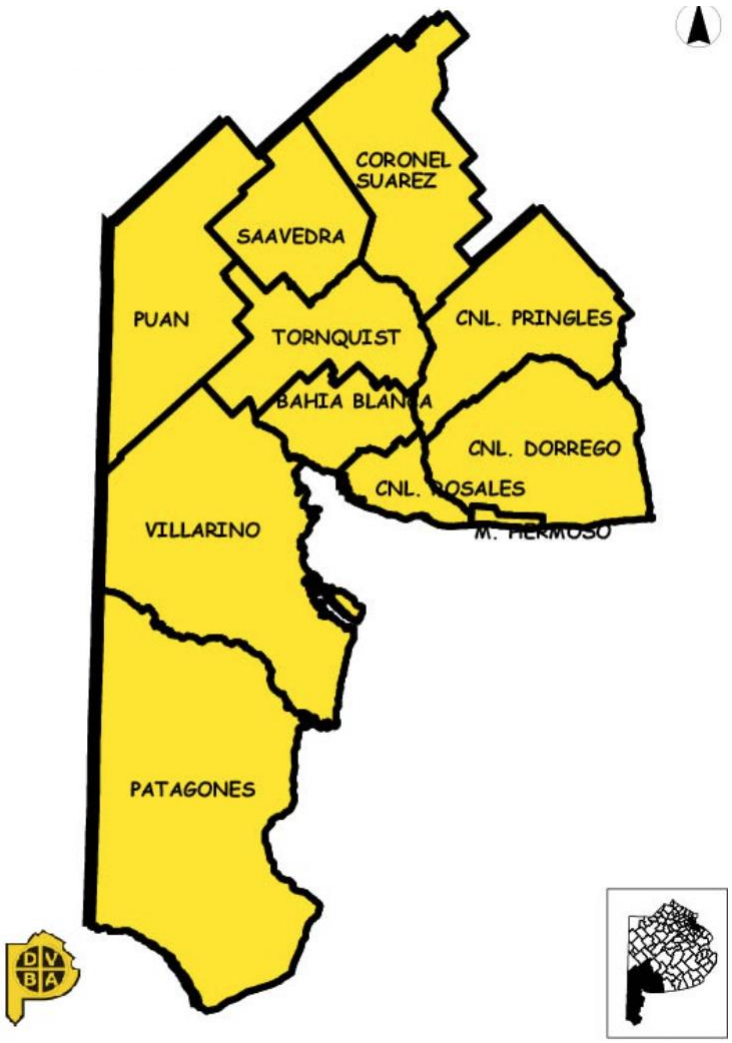


Bahia Blanca City

Regiones:

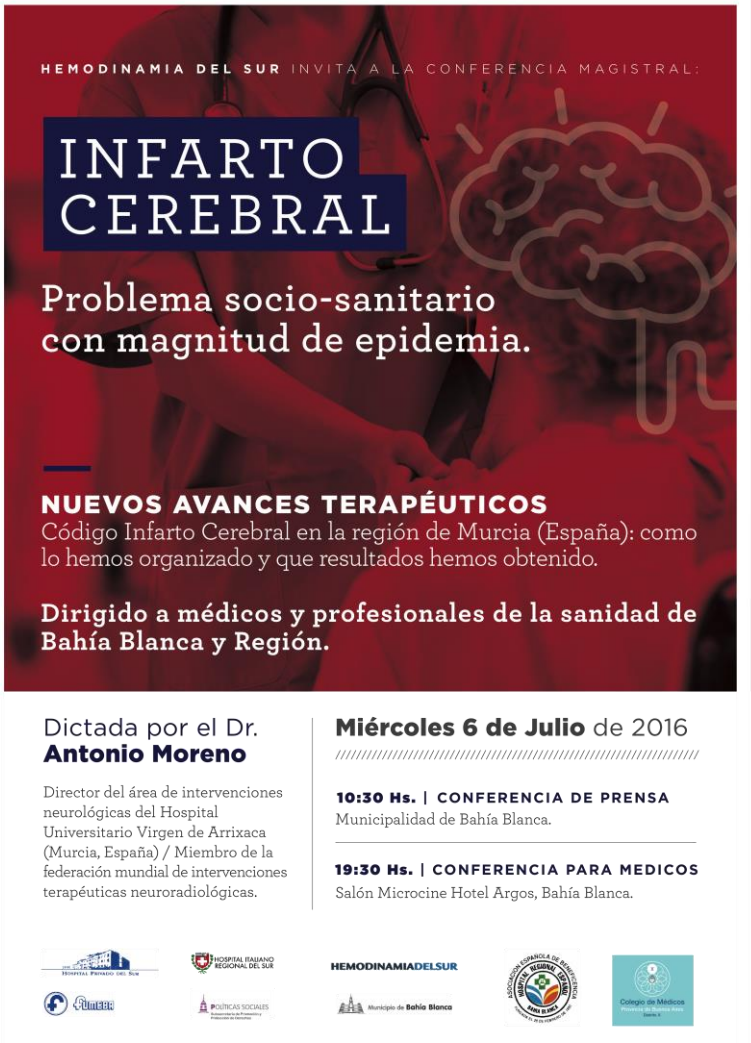
1. BAHIA BLANCA *
2. PEHUAJÓ
3. JUNÍN *
4. PERGAMINO
5. SAN ISIDRO
6. LOMAS DE ZAMORA
7. MORÓN
8. GENERAL PUEYRREDÓN *
9. OLAVARRIA
10. SALADILLO *
11. LA PLATA
12. LA MATANZA *
13. CAPITAL FEDERAL
14. DOLORES

Health District I
(> 1.000.000 pop.)



Meeting with the Governor

A health-social problem
With magnitud of epidemic



Cardiology Congress

Coordinador **Dr. ALVAREZ IORIO, Alejandro**

Coordinador **Dr. LLUBERAS, Ricardo**

12:30 "Estrategia multidisciplinaria en el tratamiento endovascular del stroke "

Disertante **DR. MORENO DIÉGUEZ, Antonio**

12:45 "Panel de expertos "

12:45 "Panel de expertos "

Panelista **Dr. FERNANDEZ, Mario Andres**

Panelista **Dr. LARRIBAU, Miguel Angel**

Panelista **Dr. PREVIGLIANO, Ignacio**

Panelista **Dr. SAMAJA, Gustavo**

Atendee

MARCH 24-25, 2017
MOSCOW, RUSSIA
ICCA STROKE 2017
ACUTE STROKE INTERVENTIONS & CAROTID STENTING
ICCA STROKE IS ORGANIZED BY
WIST
WORLD FEDERATION FOR INTERVENTIONAL STROKE TREATMENT
ICCA STROKE IS THE AUSPICES OF
World Stroke Organization
Anglia Ruskin University
TURKISH SOCIETY OF CARDIOLOGY
ICCA STROKE 2017
ACUTE STROKE INTERVENTIONS & CAROTID STENTING
RECORDED CASES
INTERACTIVE CASE DISCUSSIONS
MULTI-SPECIALITY EXPERTISE
PATIENT SELECTION
INTERVENTIONAL TECHNIQUES
HANDS-ON SIMULATOR TRAINING
DISCUSS, SHARE AND LEARN!
MARCH 24 - 25, 2017
MOSCOW, RUSSIA
CONGRESS ORGANISATION
cme4u GmbH
Gutleutstrasse 322, 60327 Frankfurt, Germany
Phone: + 49 - 69 - 25627501 | E-mail: info@cme4u.org
www.cme4u.org
VENUE
Vishnevsky Institute of Surgery of the Ministry of Public Health
Bolshaya Serpukhovskaya Street 27
115093 Moscow, Russia
The number of participants is limited. Register online at:
www.iccaonline.org
CME CERTIFICATION WILL BE APPLIED FOR
www.iccaonline.org

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Salta
SHERATON HOTEL
CACI 2017

JORNADAS
CIENTÍFICAS Y GREMIALES
1 AL 3 DE DICIEMBRE

10:30 A 12:00 - **TALLER: TRATAMIENTO DEL STROKE ISQUÉMICO**

Coordinadores: Alejandro Álvarez Iorio - Carlos Gadda

10:30 - **Importancia de las imágenes en la selección del paciente con stroke agudo: ¿El ASPECTS es Suficiente?** Rosana Salvatico

10:40- **Videoconferencia Ivo Petrov** (BULGARIA)

"Cómo inicié mi programa de tratamiento del stroke isquémico agudo como cardiólogo intervencionista en Bulgaria, Mis primeros 25 casos de trombectomía en pacientes con stroke isquémico agudo".

11:00 - Discusión.

11:05 - **Cómo inicié mi entrenamiento como cardiólogo intervencionista para el tratamiento del stroke isquémico agudo en Bahía Blanca. Certificación y sistemas de trombectomía**. Alejandro Álvarez Iorio

11:15 - **Guiando la innovación del mañana, hoy… con Azurion**. Philips. Gabriel Gesnouin.

11:22 - **Stent con droga en el territorio femoral**. Acher. Natali González

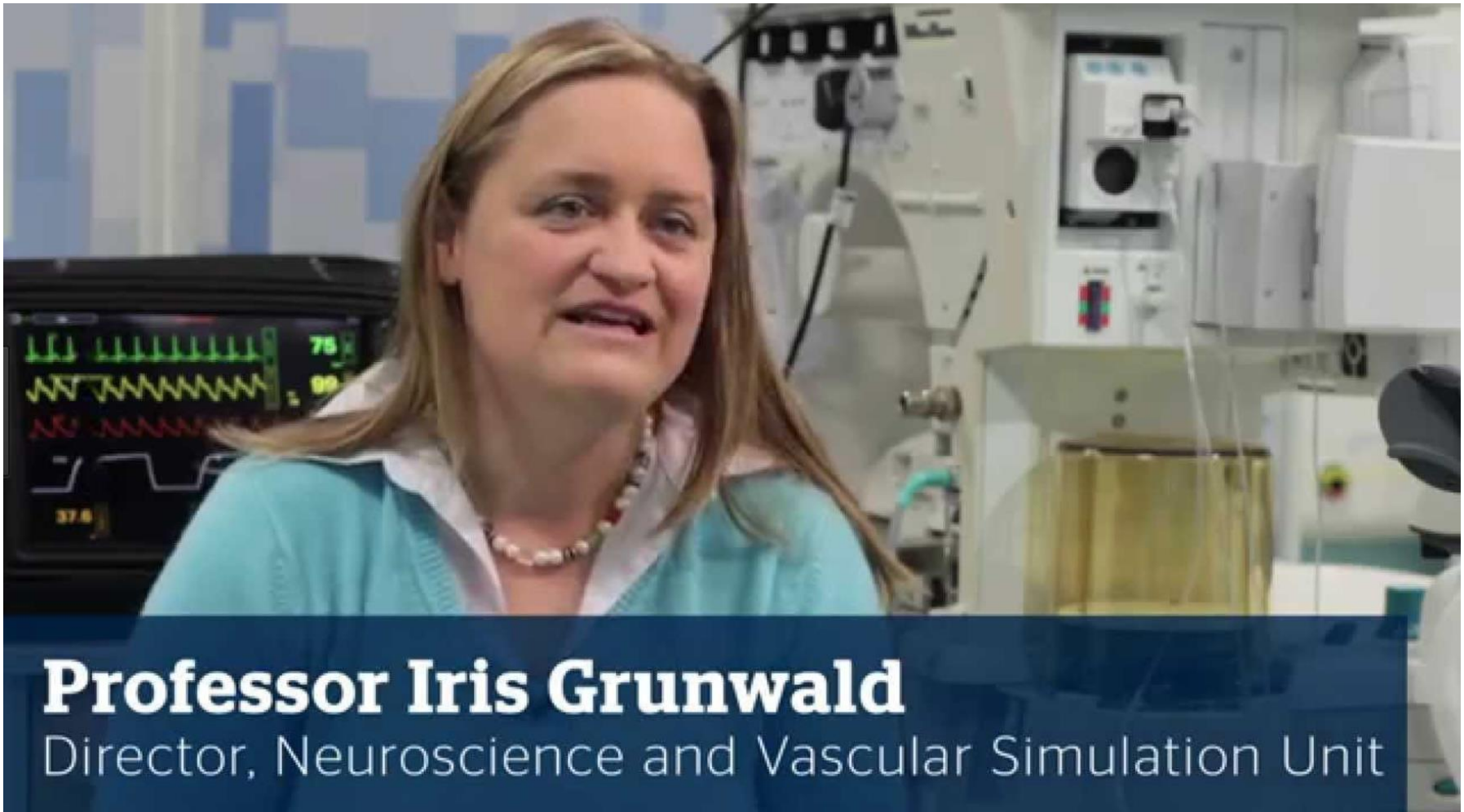
11.29 - **Sistema de Tromboaspiración Periférico Indigo**. Nextmedici Argentina. Mónica Muñoz Saenz

11:36 - **Panel de discusión**: María Rosa Aymat, Andrés Dini, Martín Hermida, Pedro Zangroniz.

Atendee

APRIL 20–21, 2018
WARSAW, POLAND
ICCA STROKE 2018
HOW TO TREAT STROKE IN THE CATHLAB
ICCA STROKE IS ORGANIZED BY
WIST
WORLD FEDERATION FOR INTERVENTIONAL STROKE TREATMENT
ICCA STROKE IS UNDER THE AUSPICES OF
World Stroke Organization
Anglia Ruskin University
ICCA STROKE 2018
HOW TO TREAT STROKE IN THE CATHLAB
INTERACTIVE CASE BASED DISCUSSIONS
KEY NOTE LECTURES FROM EXPERTS IN THE FIELD
SIMULATOR TRAINING
LATEST CLINICAL TRIALS
NEWEST GUIDELINES
DISCUSS, SHARE AND LEARN!
APRIL 20–21, 2018
WARSAW, POLAND
CONGRESS ORGANISATION
cme4u GmbH
Gutleutstrasse 322, 60327 Frankfurt, Germany
Phone: + 49 - 69 - 25 62 75 01 | E-mail: info@cme4u.org
www.cme4u.org
CONGRESS VENUE
Institute of Psychiatry and Neurology
Jana Sobieskiego 9
02-957 Warsaw, Poland
The number of participants is limited. Register online at:
www.iccaonline.org
CME CERTIFICATION WILL BE APPLIED FOR
www.iccaonline.org

Anglia Ruskin University Theoretical-Practical Training



Anglia Ruskin University Theoretical-Practical Training

Anglia Ruskin University Theoretical-Practical Training

ICCA STROKE 2019

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Anglia Ruskin University Theoretical-Practical Training

ICCA STROKE 2019

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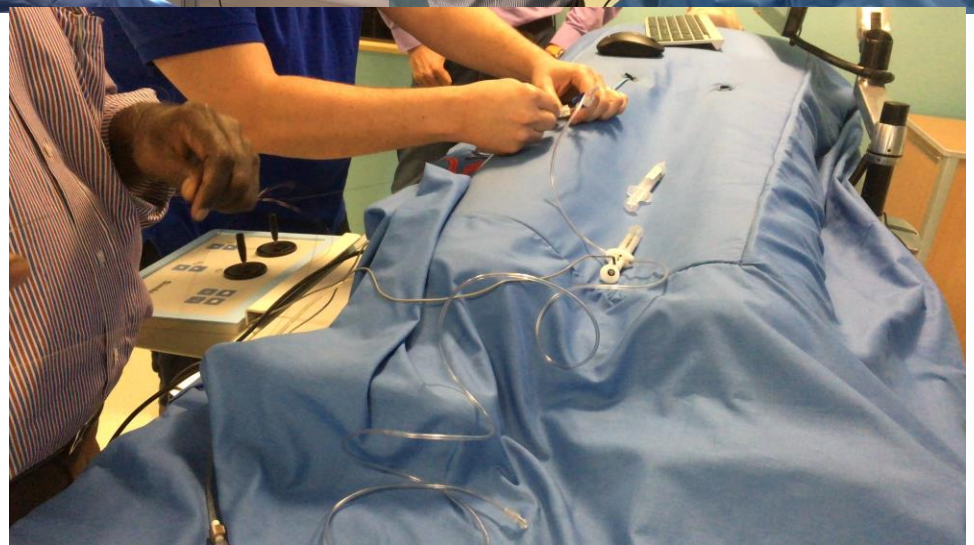

Klinikum Mitte Bremen

Klinikum Mitte Bremen

ICCA STROKE 2019

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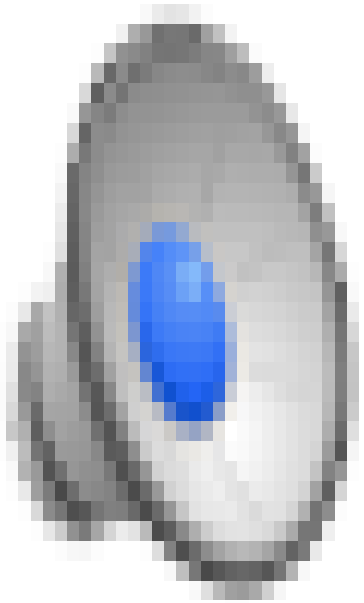
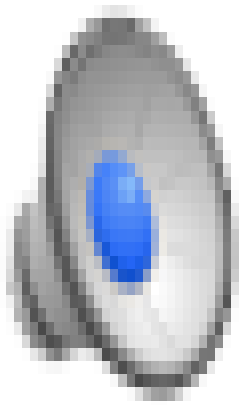
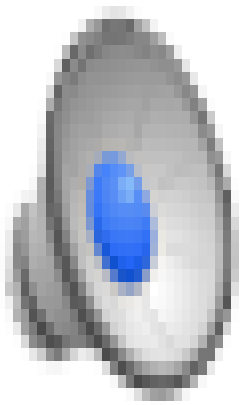
Workshop-Bahia Blanca



Workshop-Bahia Blanca





Workshop-Bahia Blanca

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Workshop-Bahia Blanca

Stroke Session

ICCA STROKE 2019

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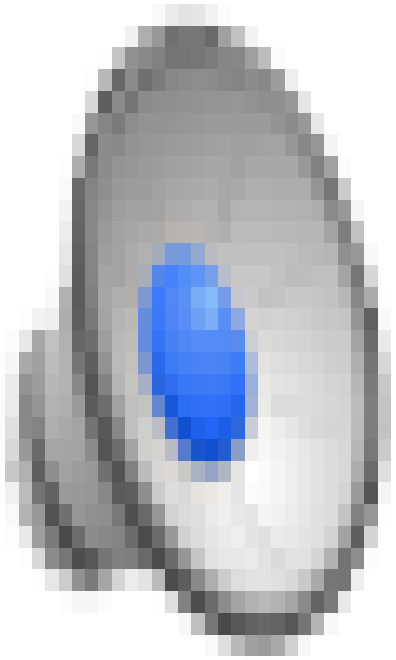

Stroke Session

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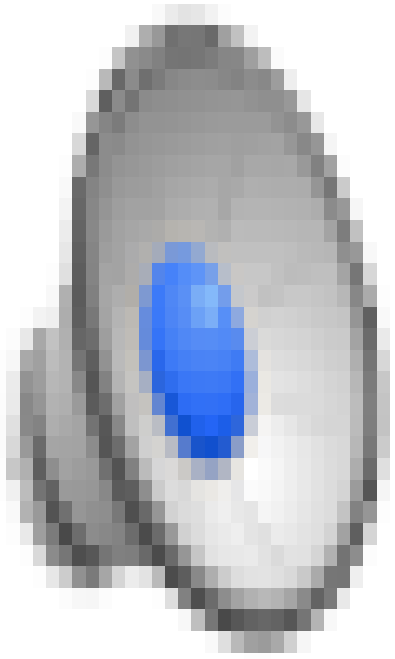

Stroke Session

ICCA STROKE 2019

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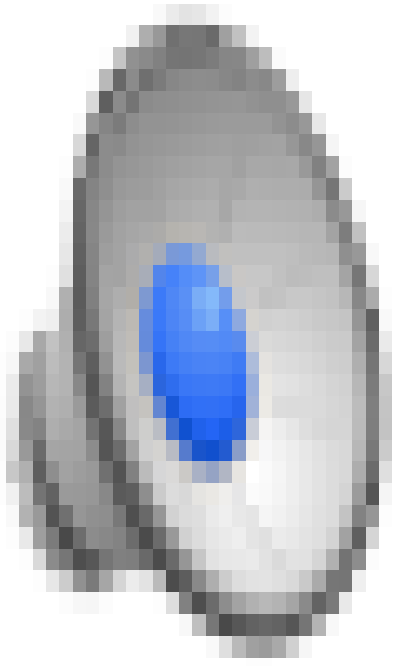


Clinical Case

66 female, Hipertension, Dyslipidemia.

2008- mechanical aortic valve replacement with ACO treatment.

INR: 1.0

19/12/2018- 8:30 hs AM developed aphasia and rigth facial, arm and leg hemipejia.

Her daugther called 911- 9:00 hs am.

9:30 was transferred to Hospital Municipal.

10:00 hs hs was evaluated by neurologist.

NIHHS:23

11:30 HS MCT 16 SLICES- only non contrast CT. (no CT angio, no CT perfusion).

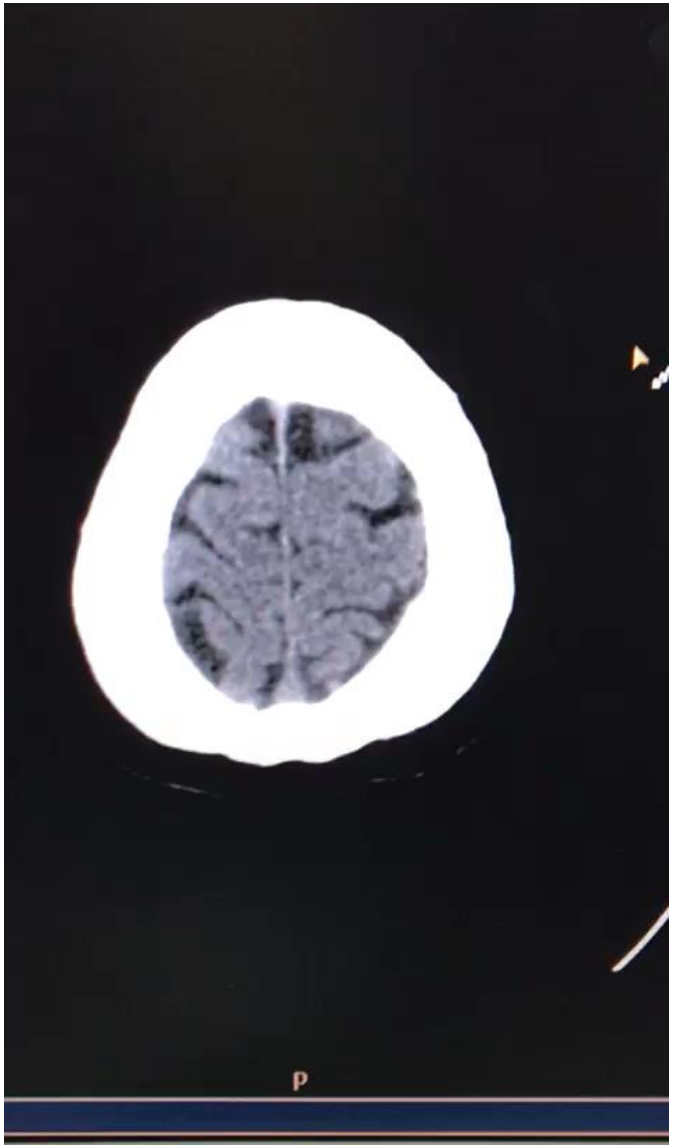
12:00 started in ICU TPA, and 13:45 hs neurologist called me if I could do something.

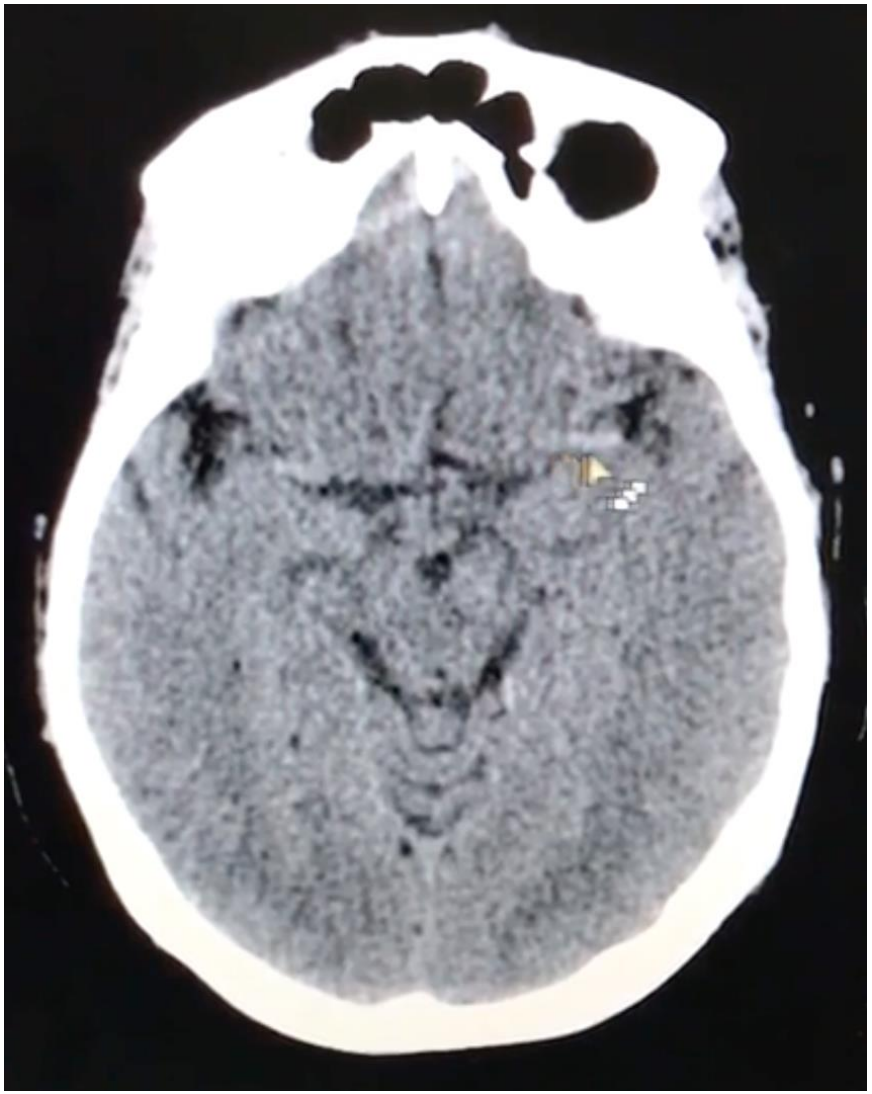
14:00 hs was transferred to our Hospital. (15 minutes).

15:00 hs started trombectomy.

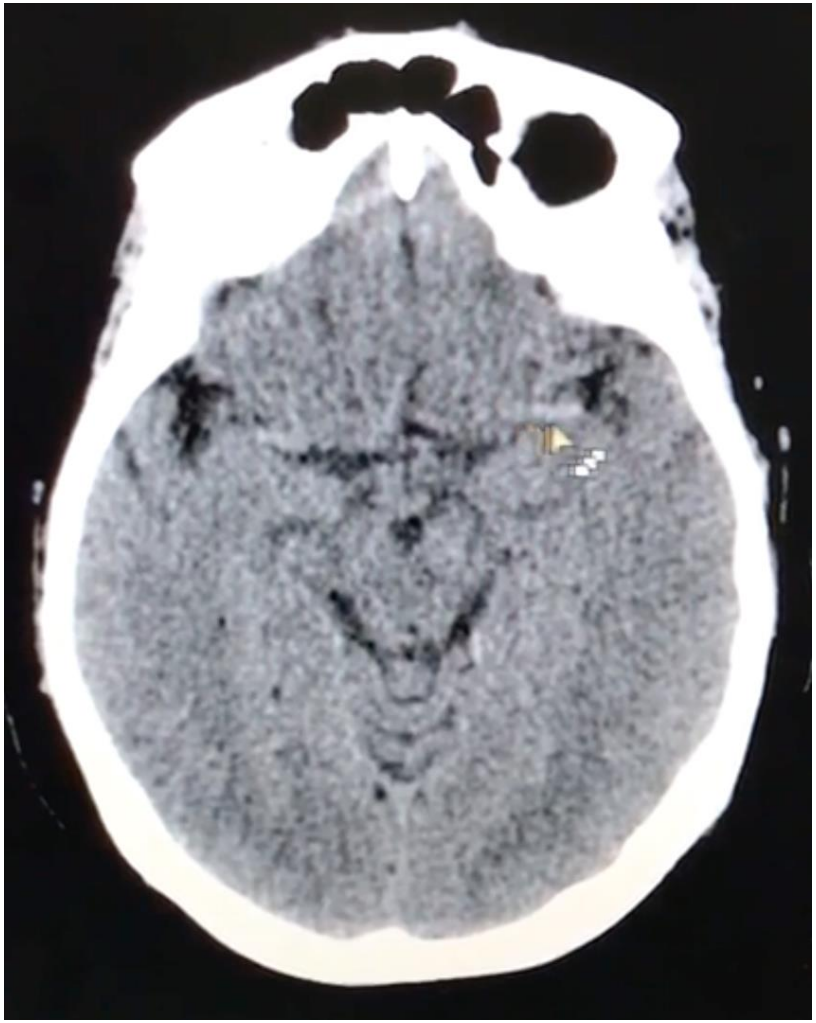
15:55 finish trombectomy and sent the patient To ICU. NIHHS:17.

CT 16 Slices





CT 16 Slices



CT 16 Slices

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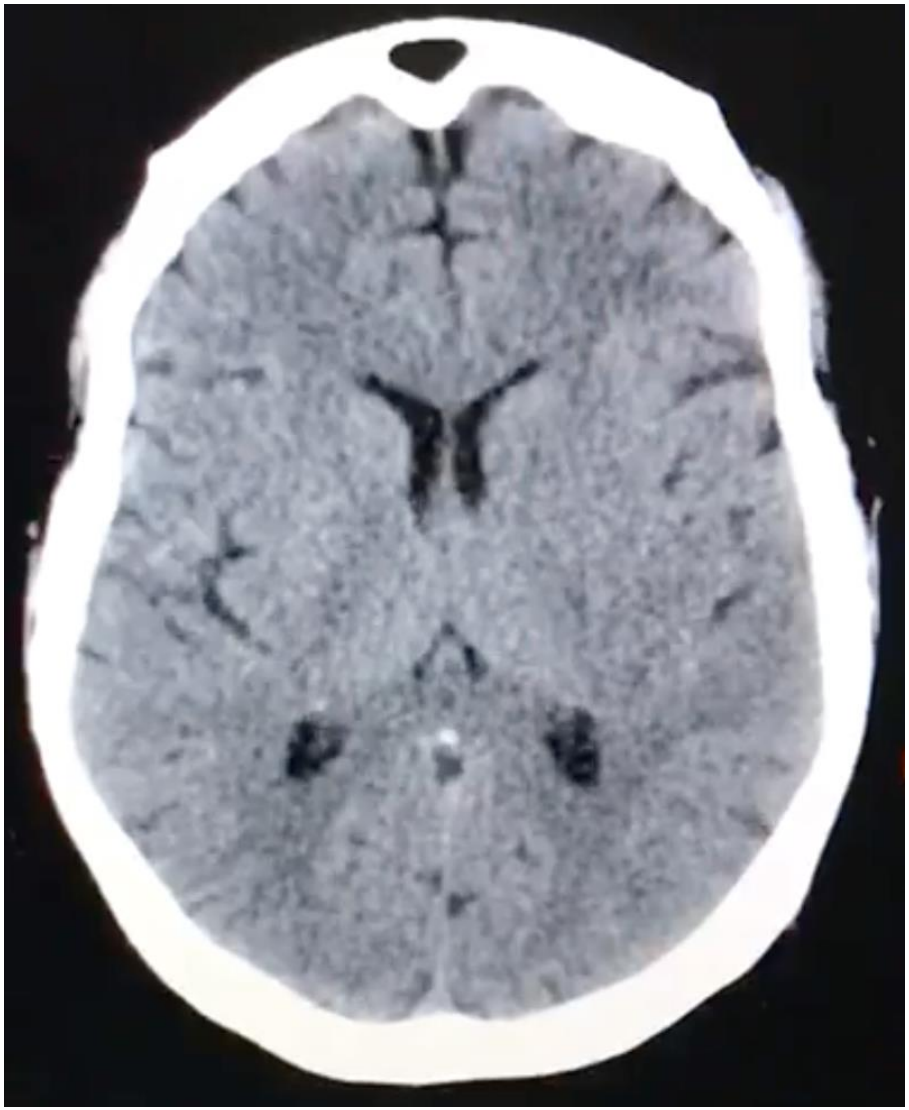

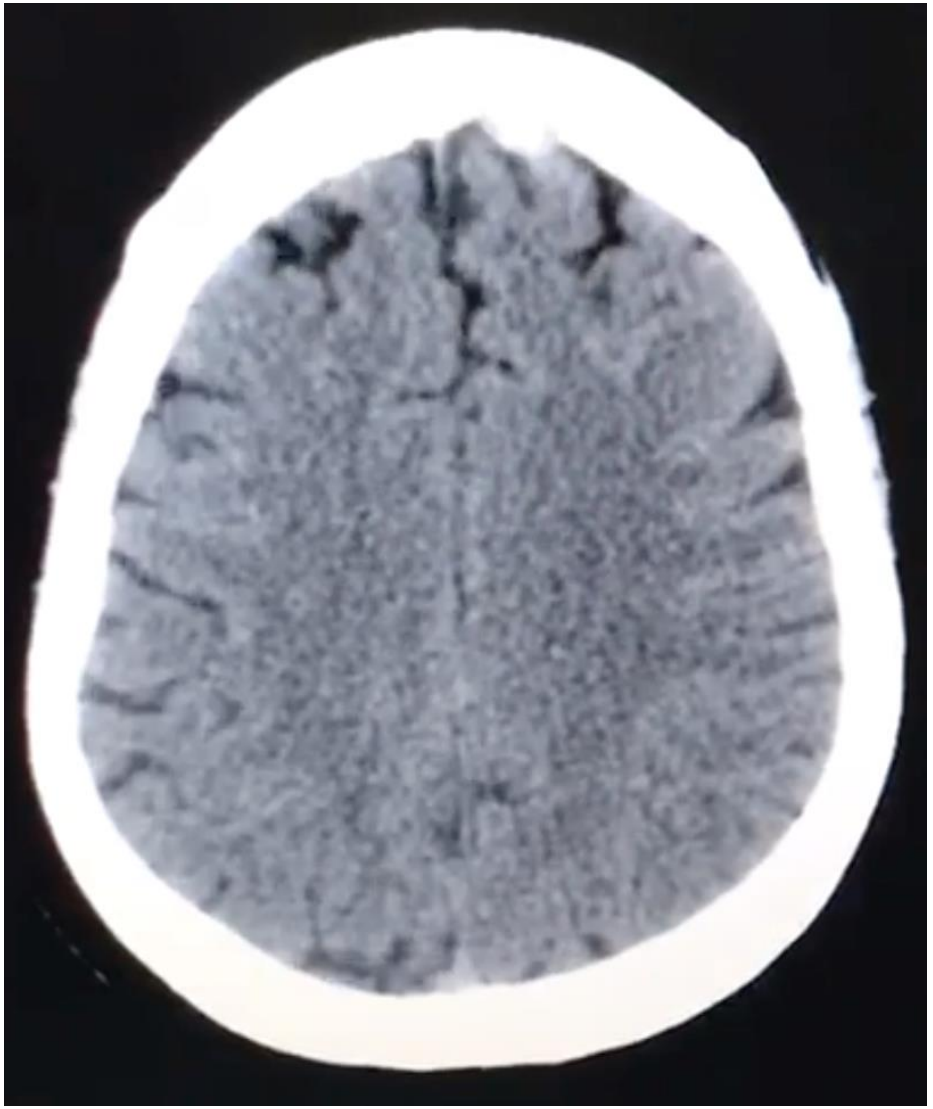

Profesor Iris Grundwal

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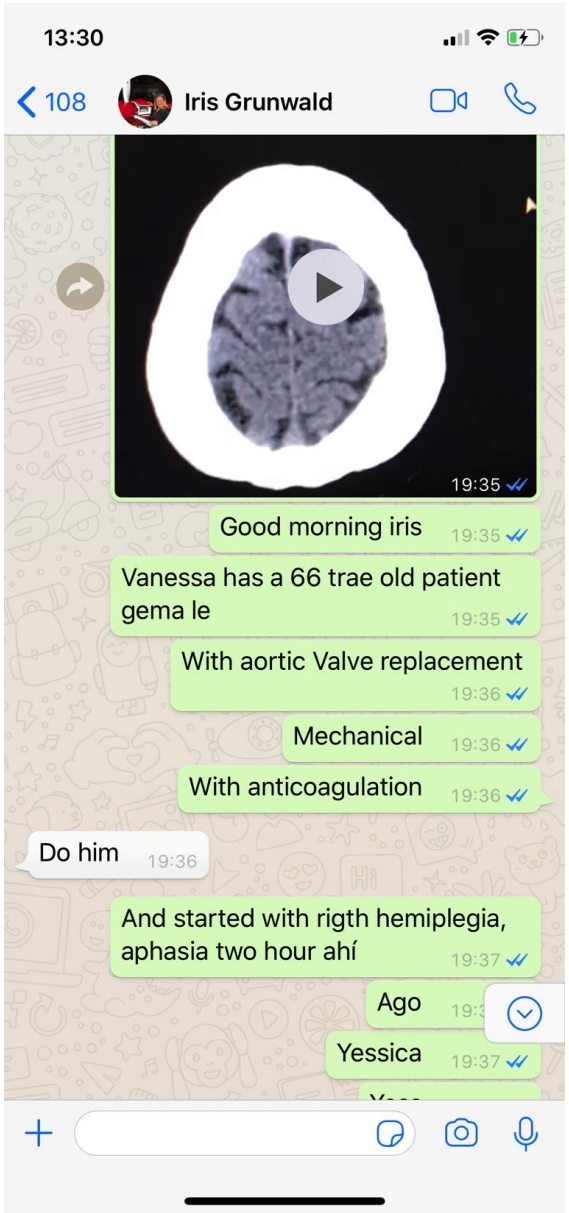

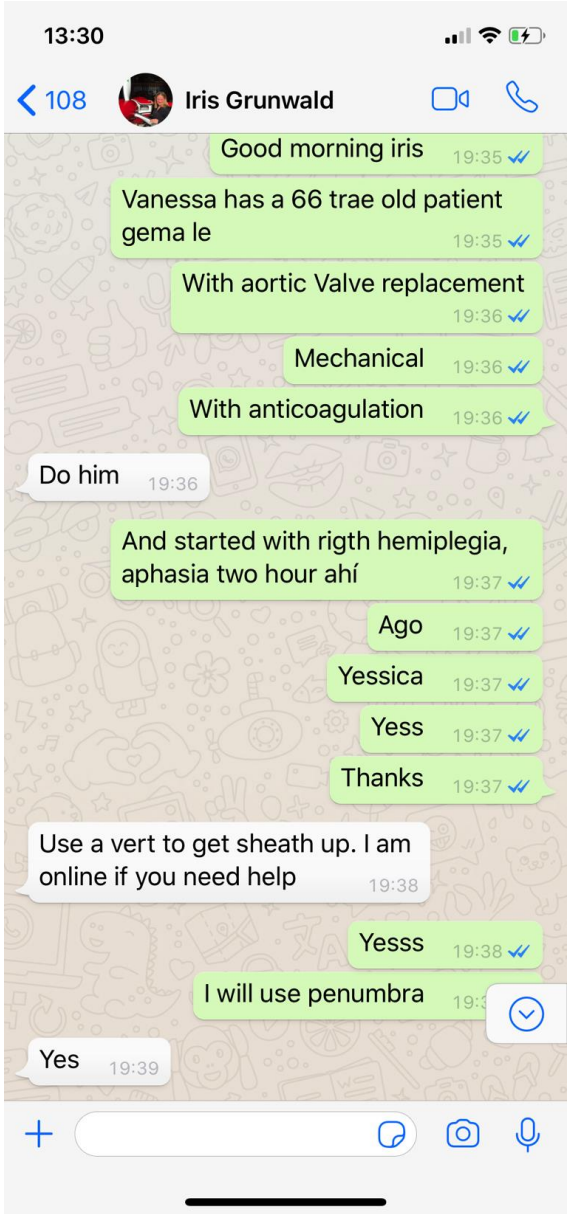

Trombectomy

Trombectomy

Trombectomy

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Trombectomy

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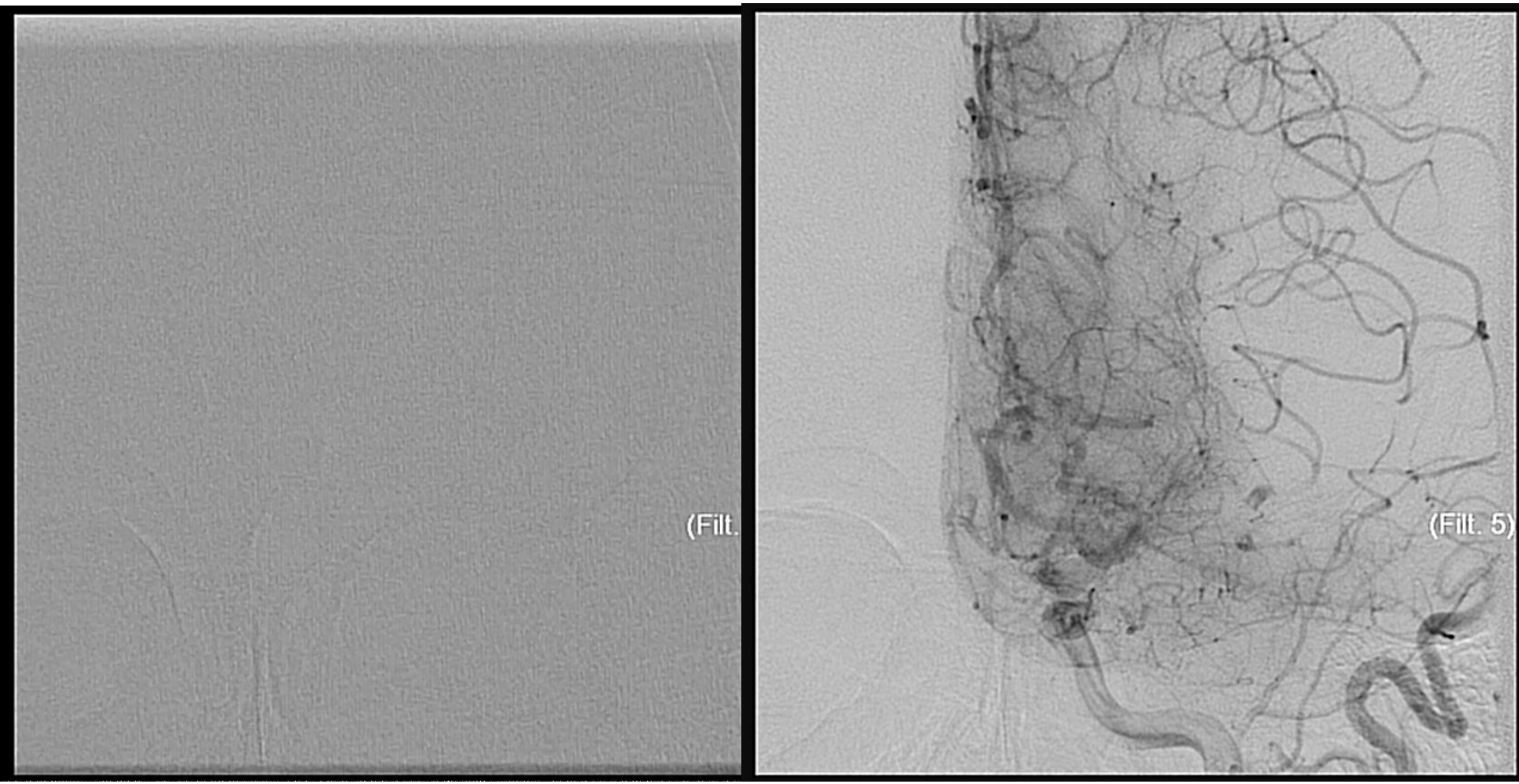
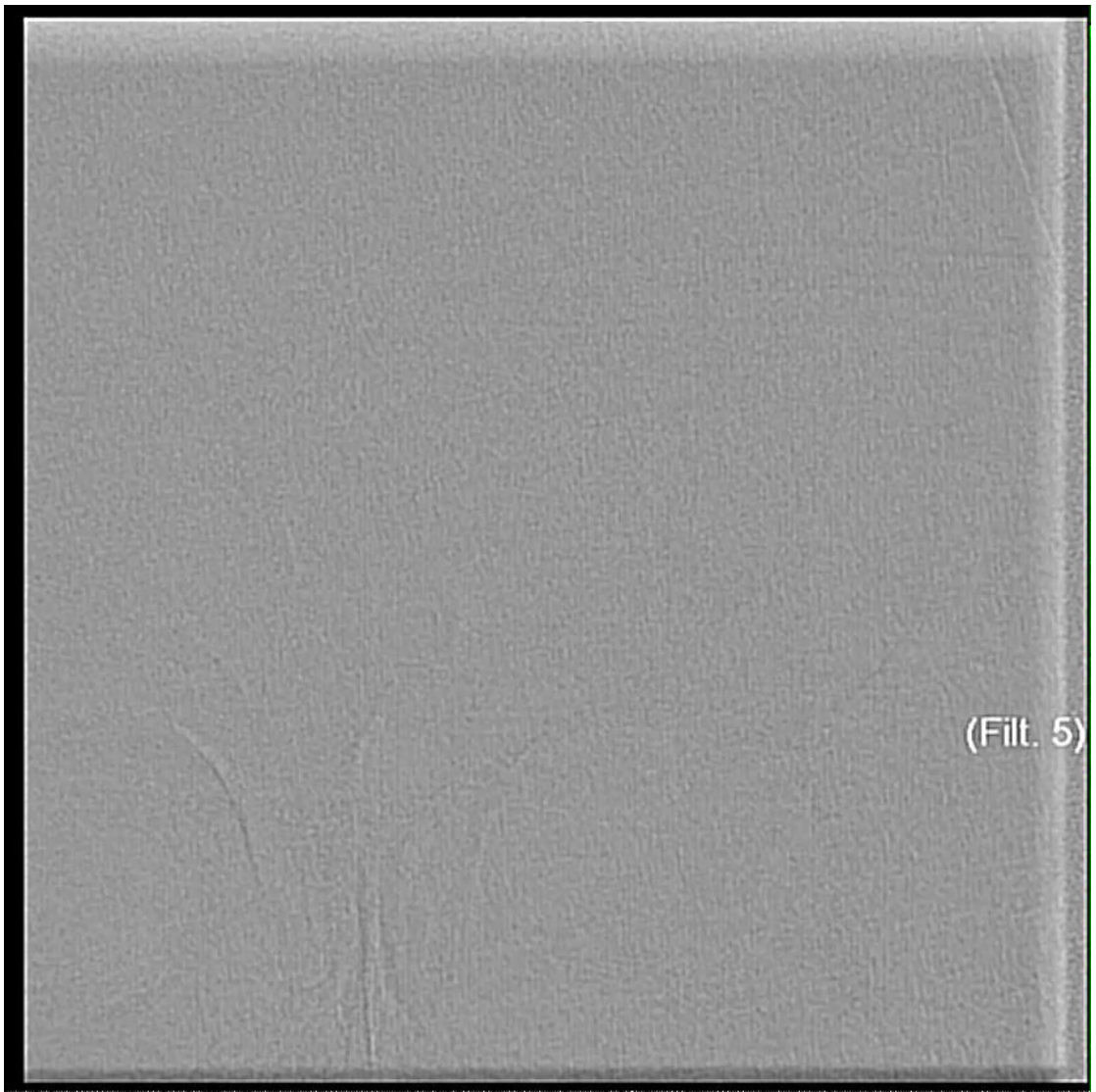
Trombectomy

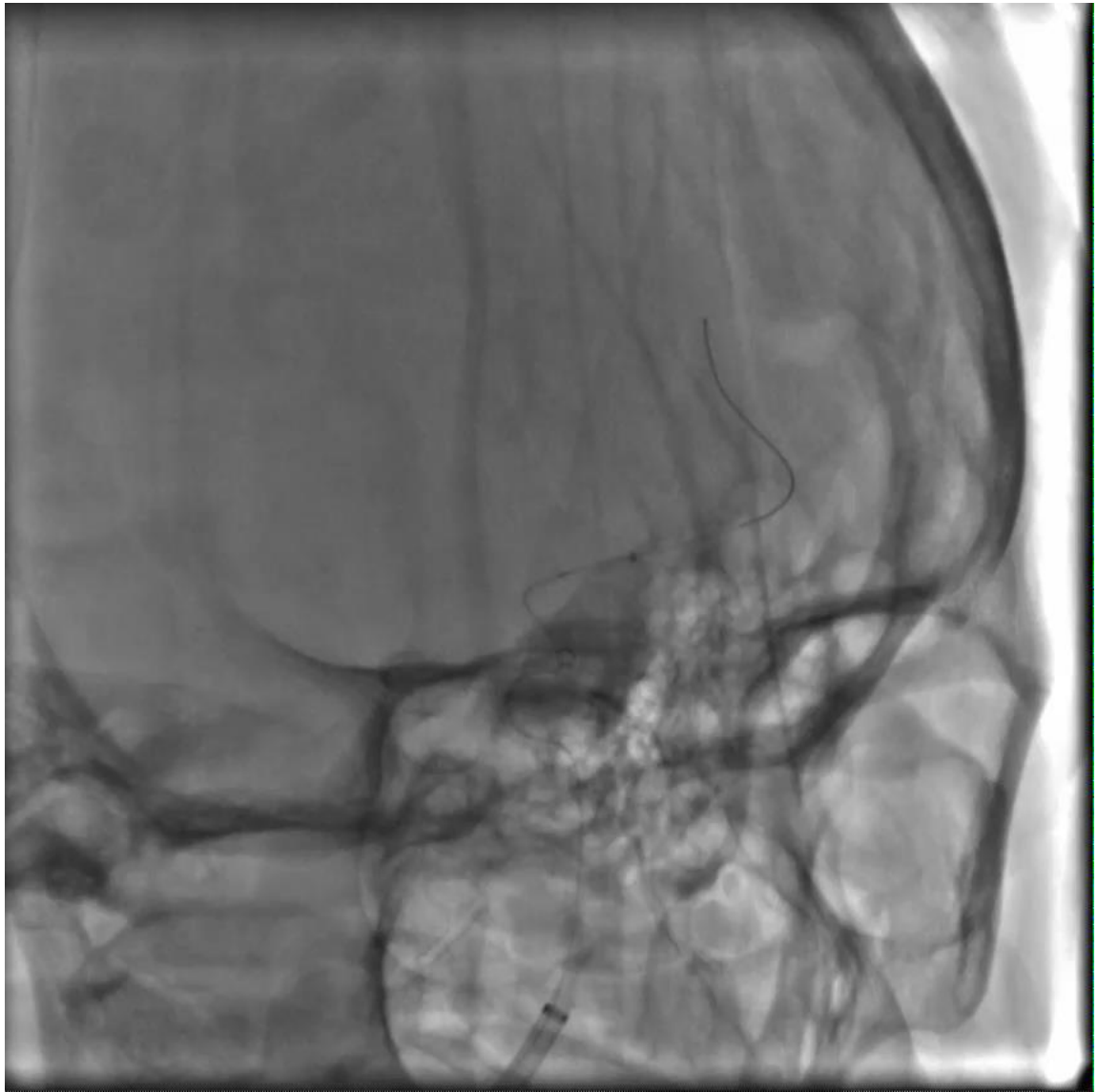
Trombectomy



Trombectomy

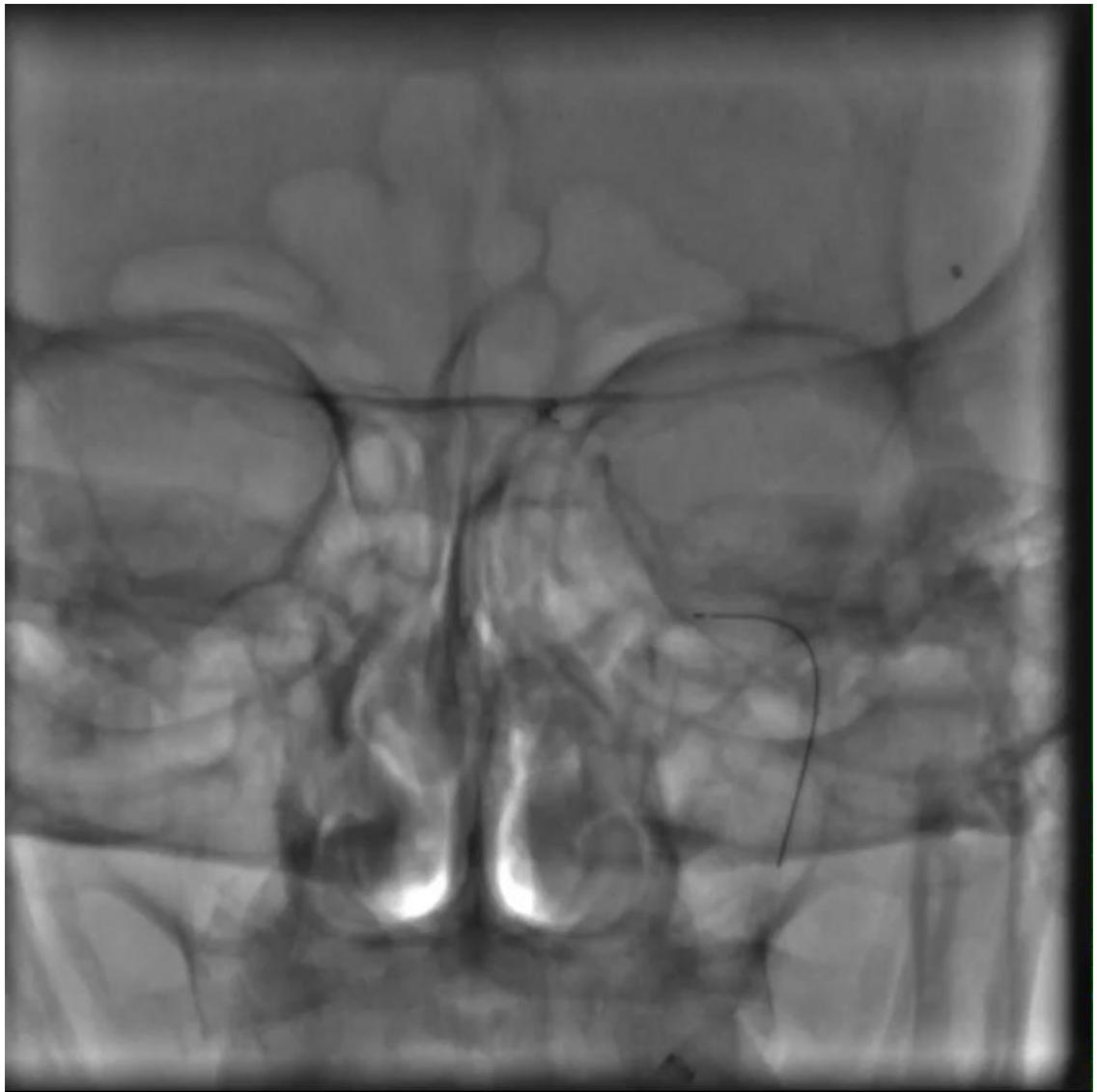


Trombectomy



Trombectomy

Trombectomy



Trombectomy

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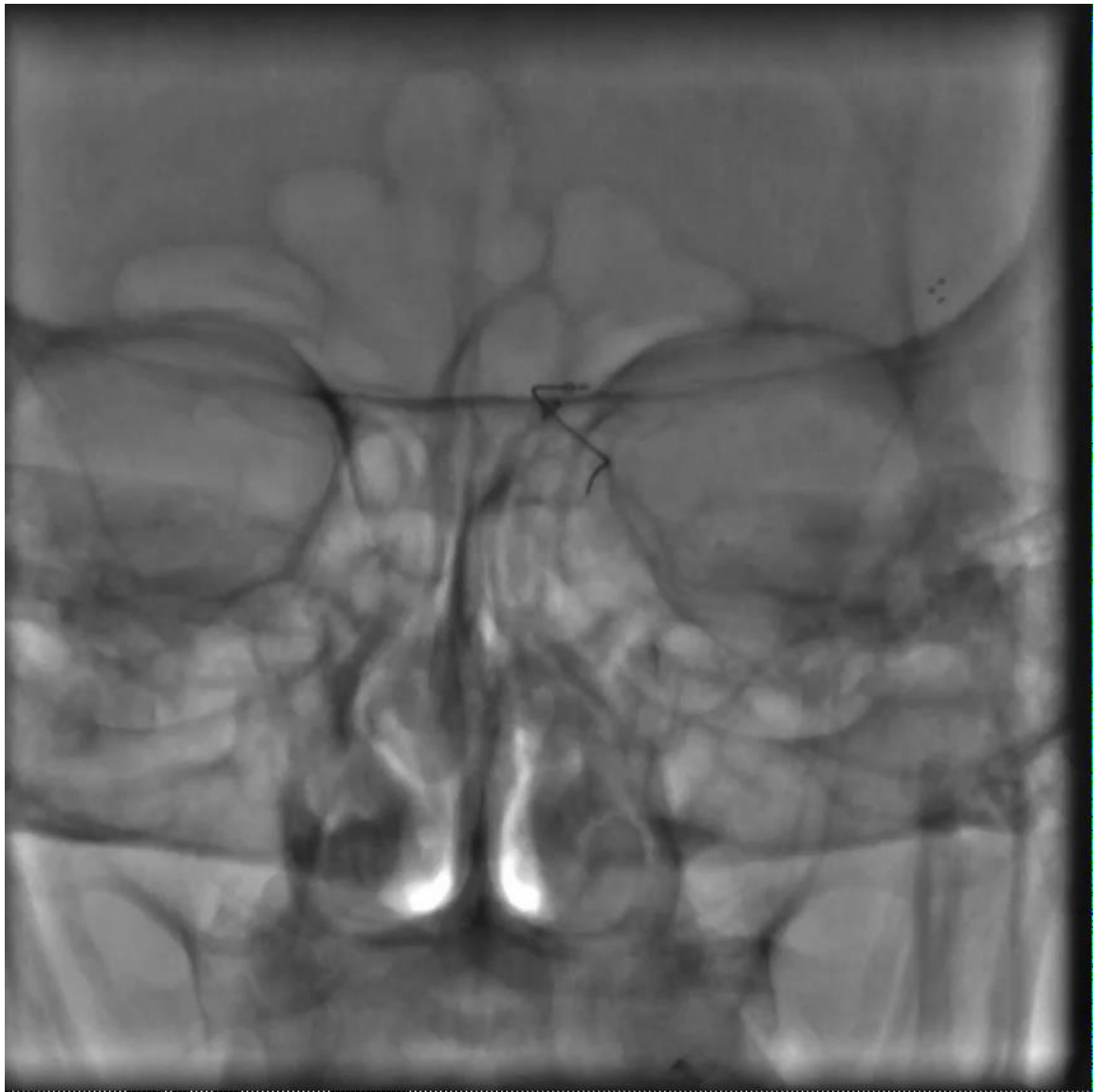
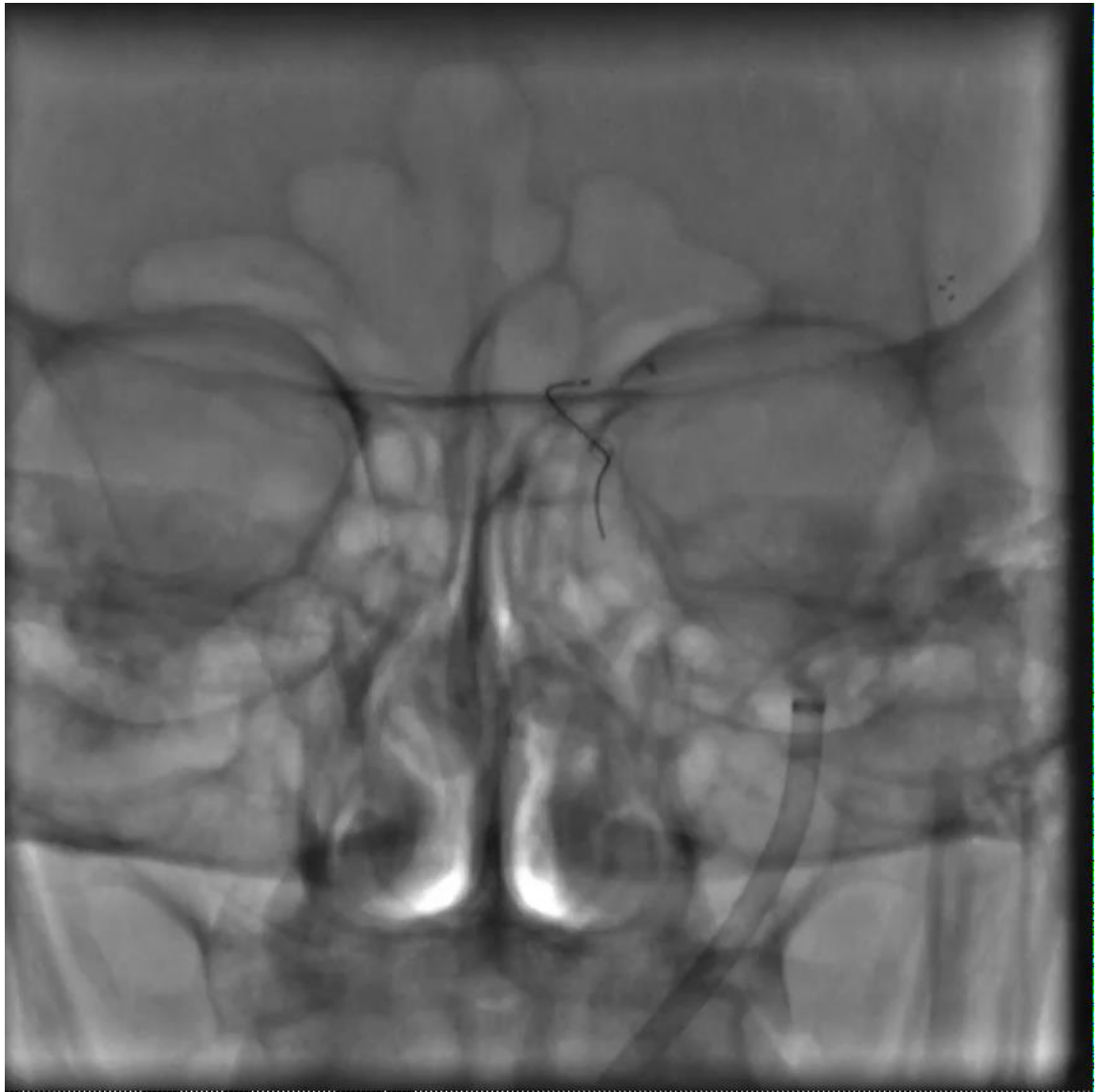


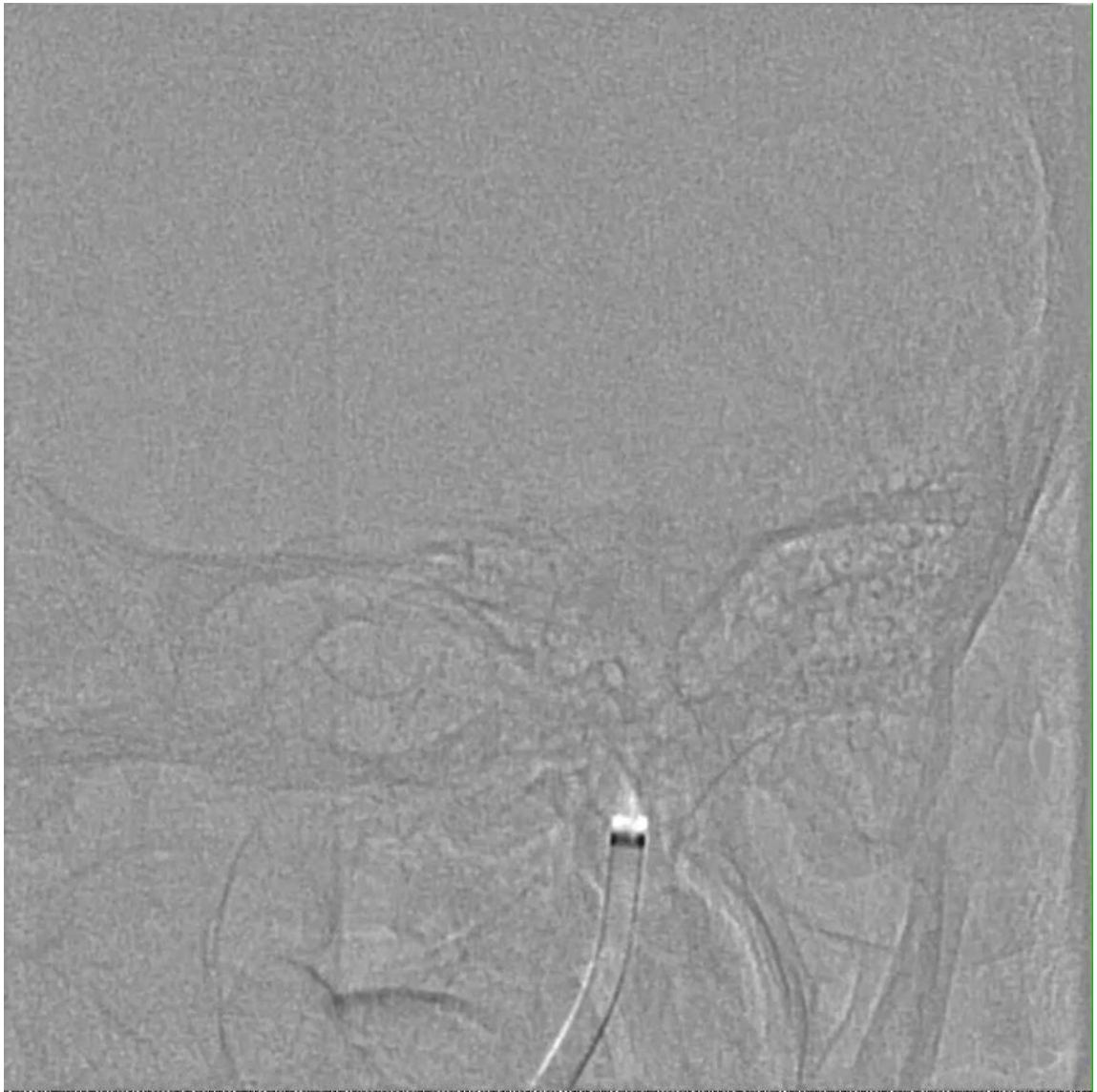
Trombectomy

ICCA STROKE 2019

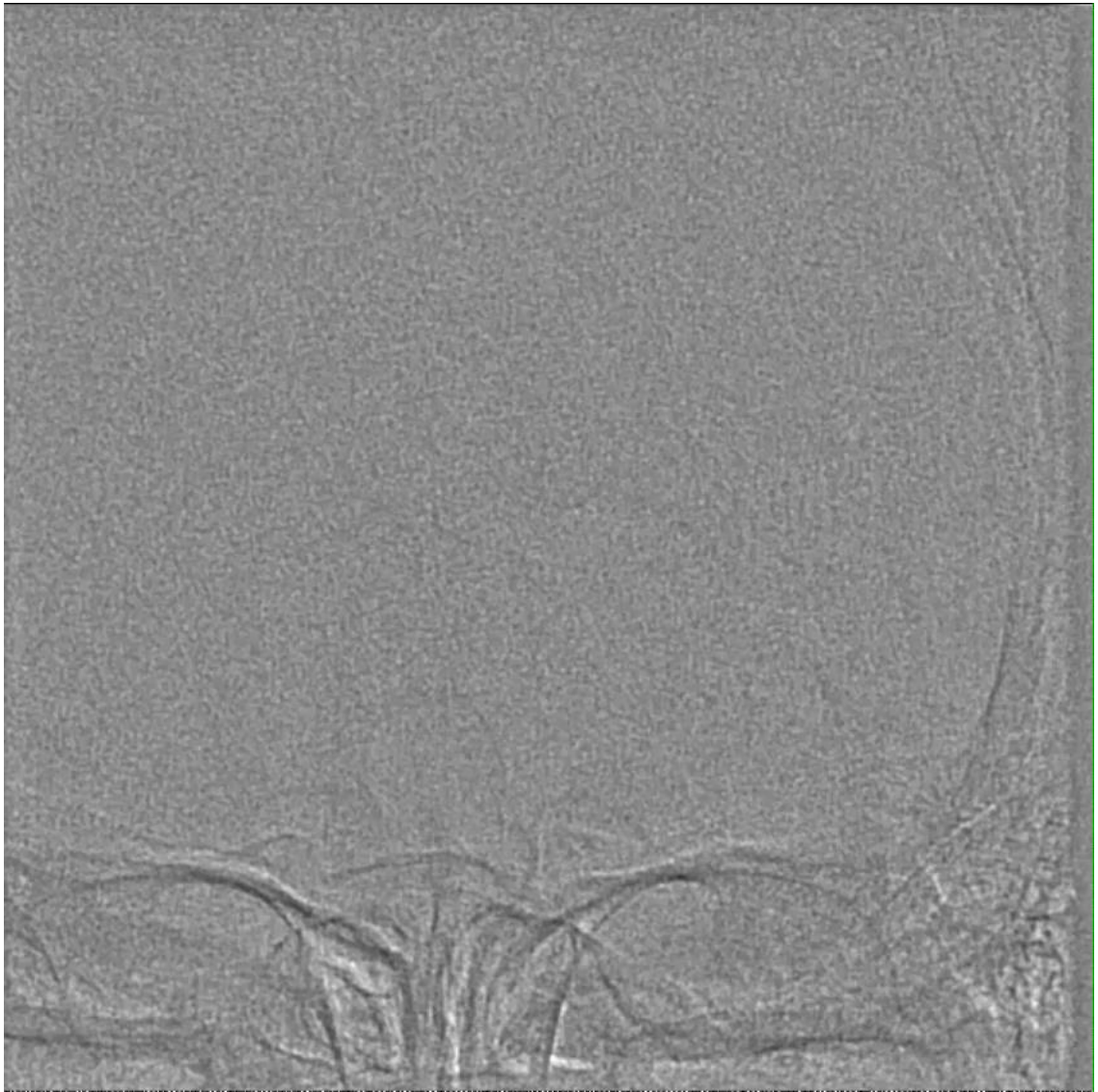
WIST



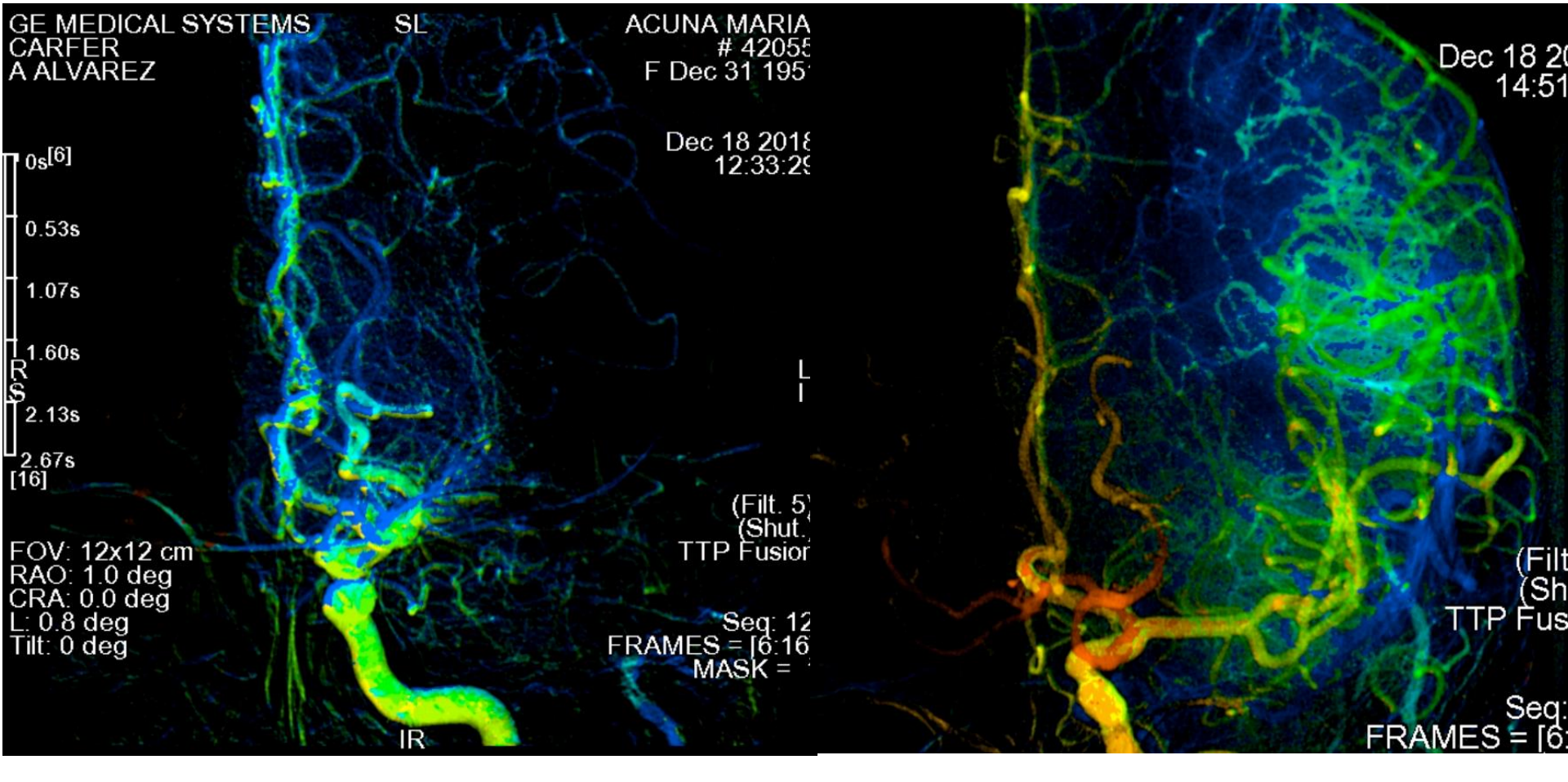
Trombectomy



Result



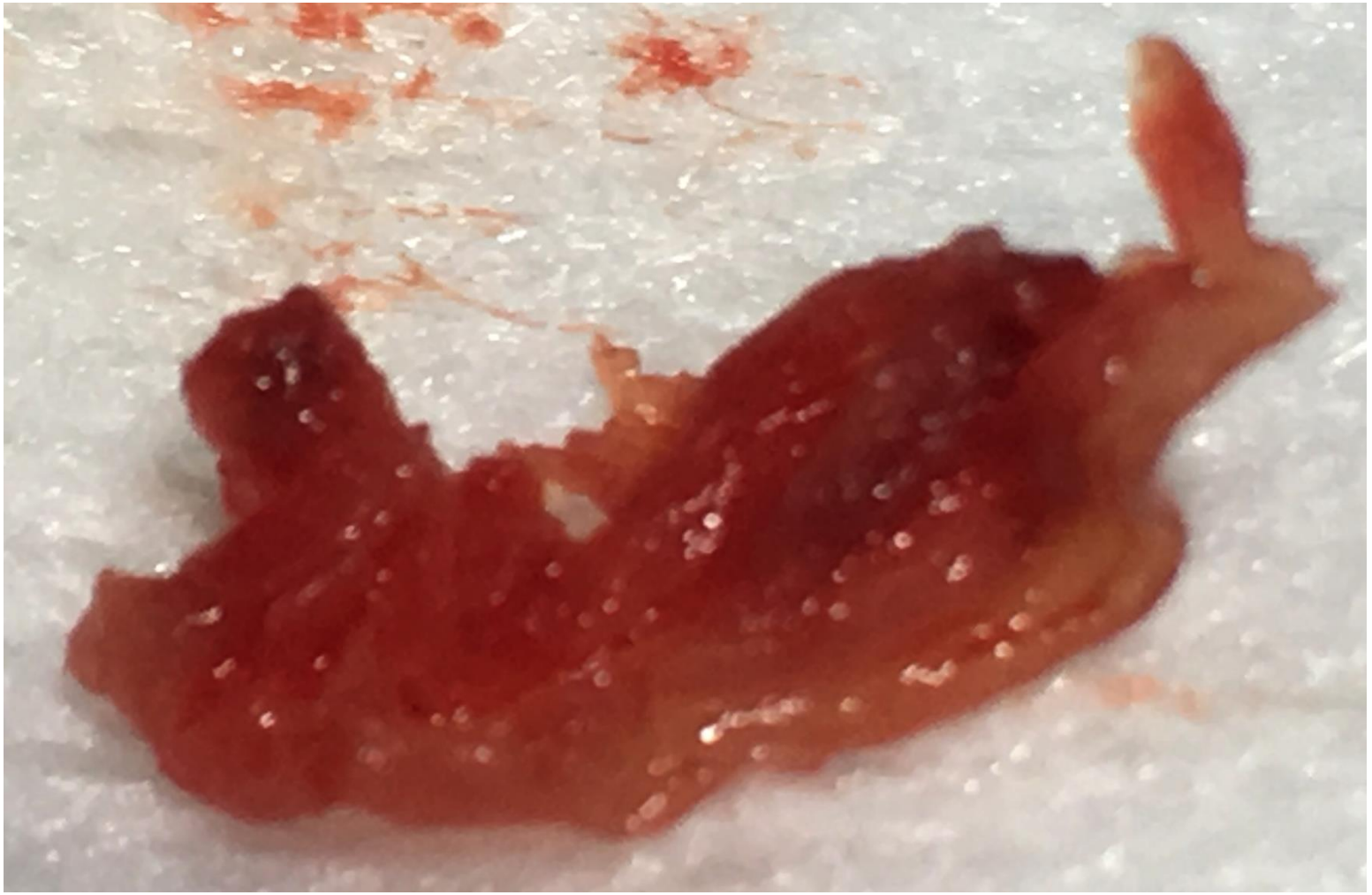
ANGIOVIZ


GE MEDICAL SYSTEMS
CARFER
A ALVAREZ
SL
ACUNA MARIA
42055
F Dec 31 195
Dec 18 2018
12:33:29
0s[6]
0.53s
1.07s
1.60s
2.13s
2.67s
[16]
FOV: 12x12 cm
RAO: 1.0 deg
CRA: 0.0 deg
L: 0.8 deg
Tilt: 0 deg
(Filt. 5)
(Shut.)
TTP Fusion
Seq: 12
FRAMES = [6:16]
MASK =
IR
Dec 18 20
14:51
TTP Fus
Seq:
FRAMES = [6:

ICCA STROKE 2019

WIST

TROMBUS



ICCA STROKE 2019

WIST

TROMBUS

15:55 finish trombectomy and sent the patient To ICU.

NIHHS:17.

CT CONTROL

Working in set up an Stroke Service

ICCA STROKE 2019

WIST

Ambulance pre-hospital:	2018- no training 2019- yes
Emergency room::	2018- no training 2019- yes
Imaging:	2017- CT helicoidal 2018- MTC 128
	2018- MRI 0.5 T 2019- MRI 1.5 T
	2018- NO CT-MRI Perfusion- 2019 YES
Trombectomy operator:	AUG-2018 not trained- OCT 2019- YES

TEXT SLIDES - TEXT

Cathlab:	2017- Advanta 1999- 2018- GE IGL530
Anestesiologist:	2018 Trained.
ICU:	2018 No trainig- 2019 training.
Neurosurgen:	2018 not involve 2019 two involve.
Neurologist:	2018 not involve 2019 one involve.

Ambulance-911

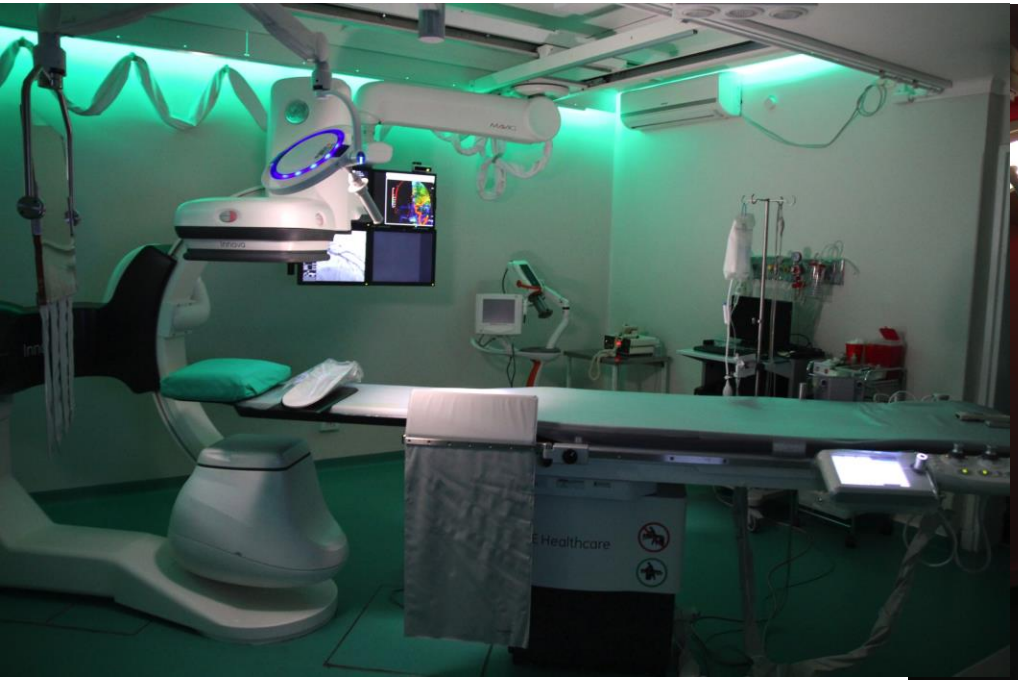
ICU – 8 beds
2 beds are avaiable for stroke

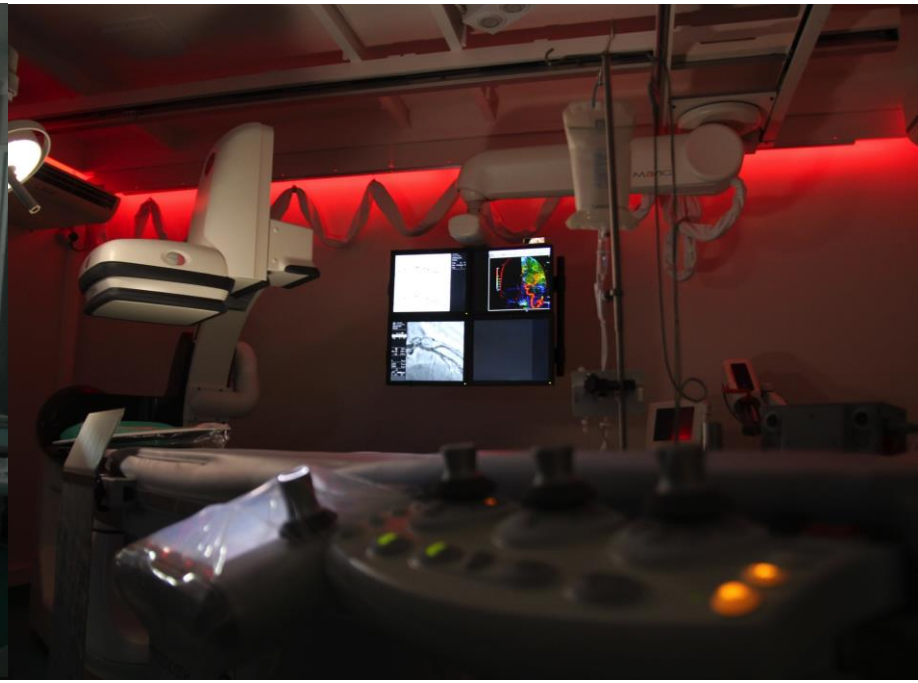
Innova™ IGS 530 GE

ICCA STROKE 2019

WIST

NEW CATHLAB

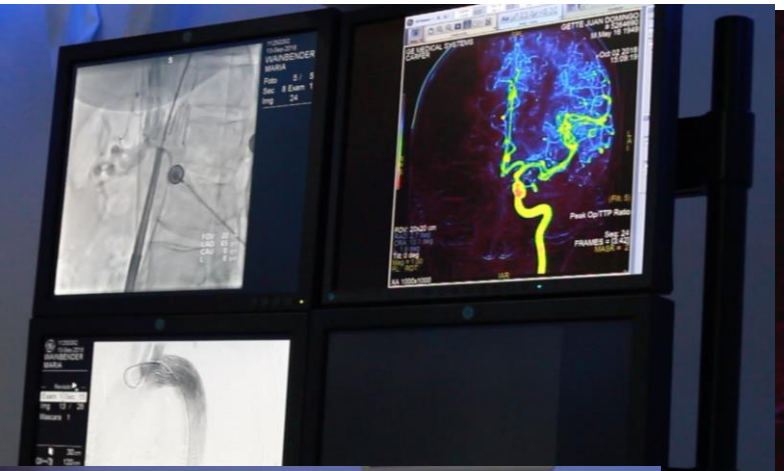


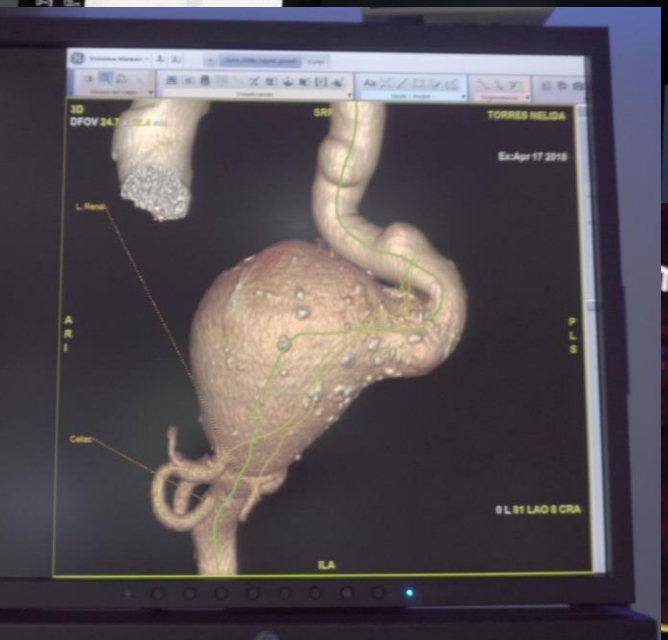


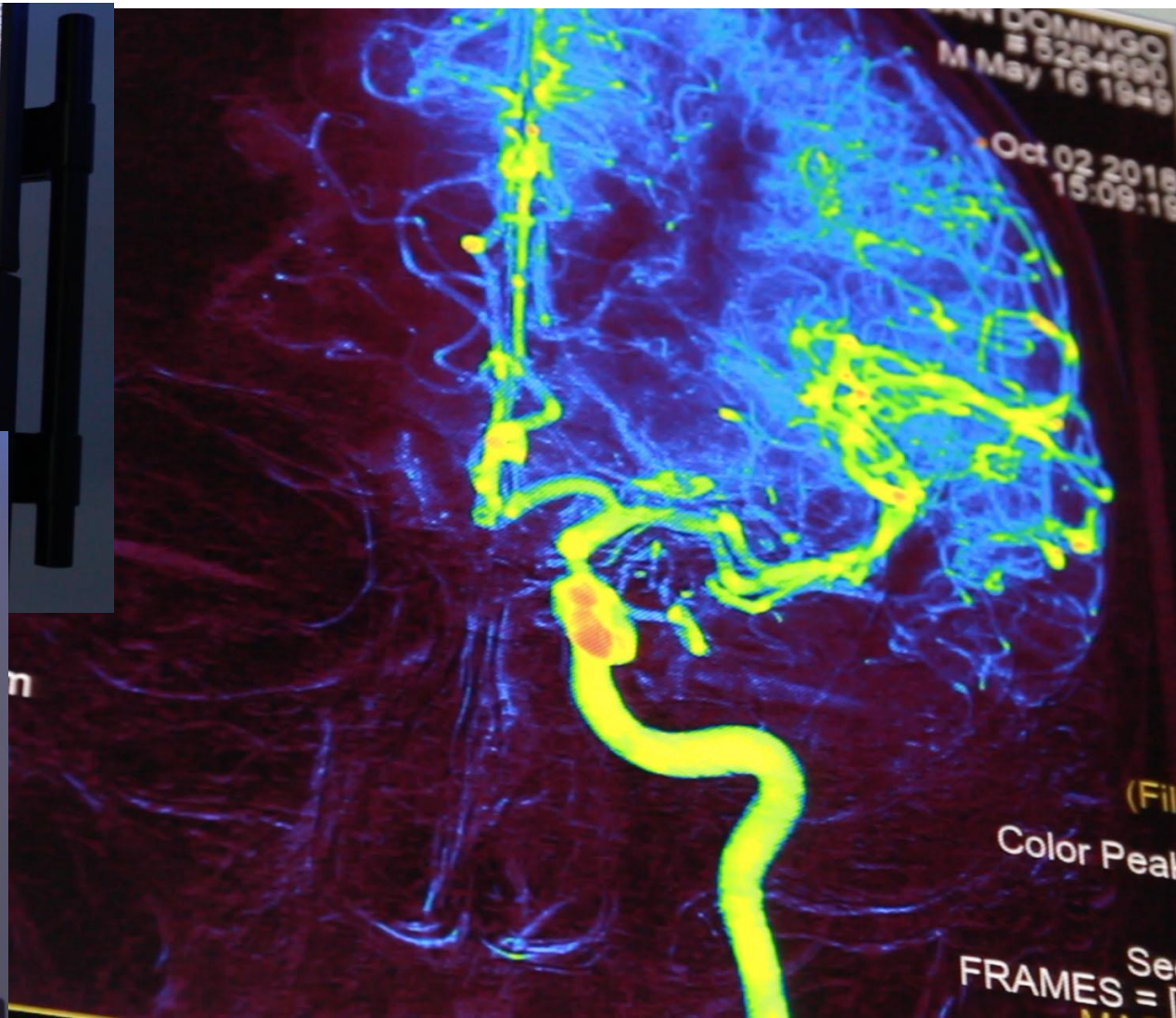
NEW CATHLAB

ICCA STROKE 2019

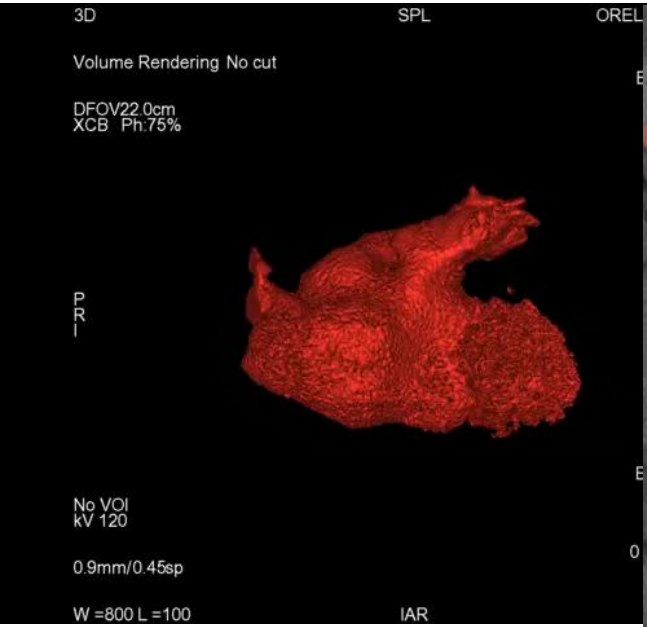
WIST

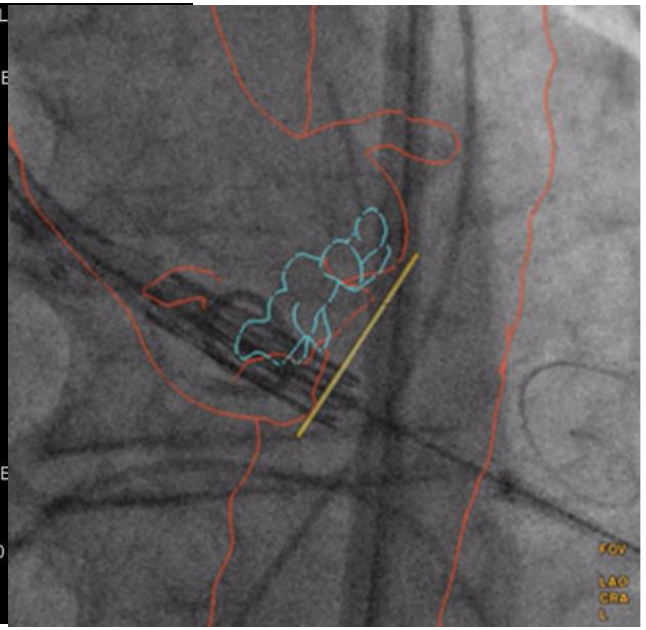


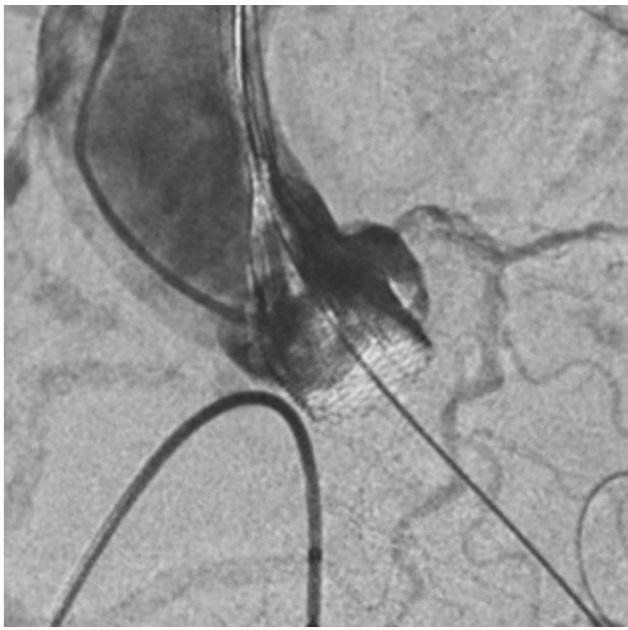




FUSION IMAGES



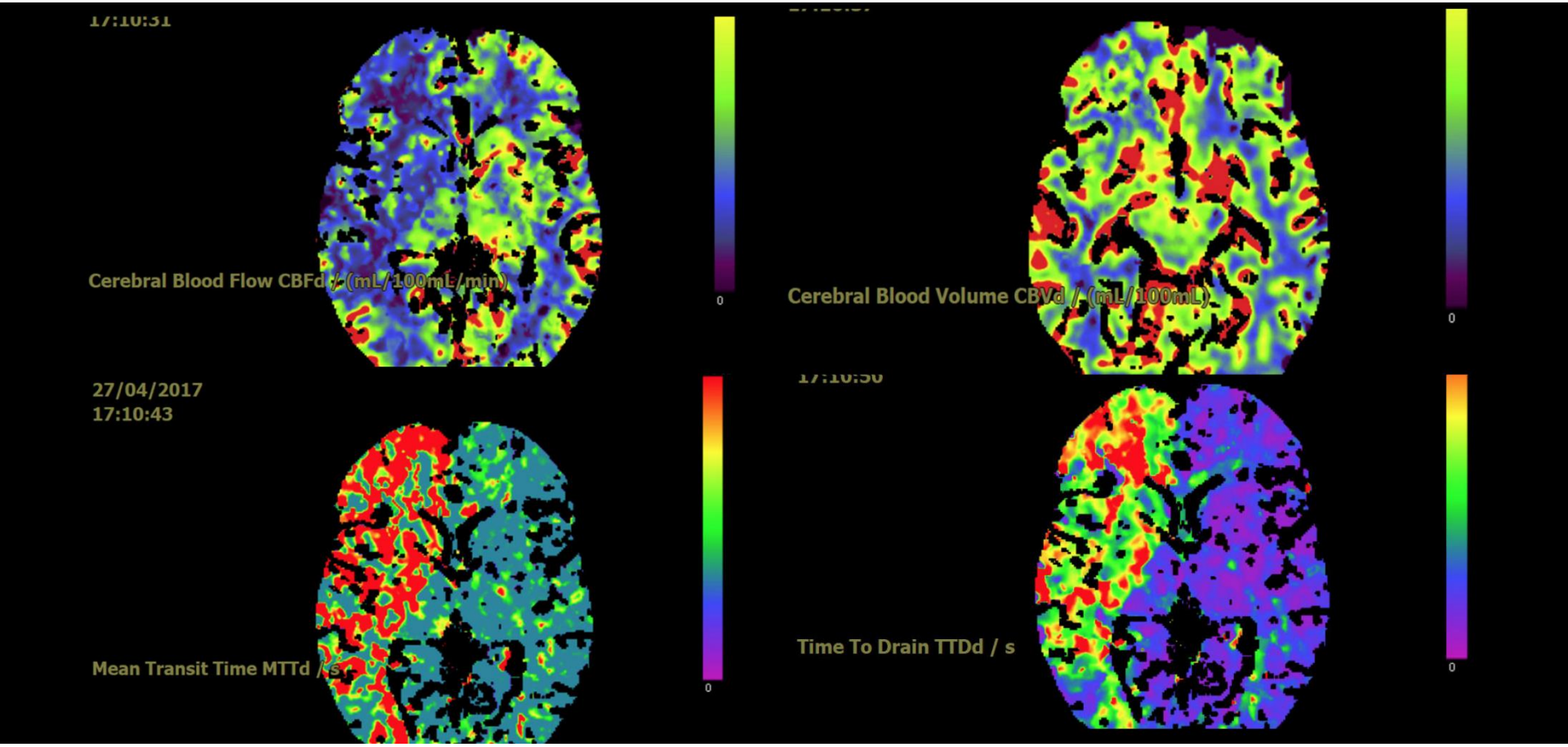




MCT 128 slices – april 2018

- NON CONTRST CT.
- CT ANGIO.
- CT PERFUSION.

MCT 128 slices – april 2018



MRI 1.5 t – December 2018

- DWI.
- ADC MAP.
- FLAIR.
- MRI PERFUSION.

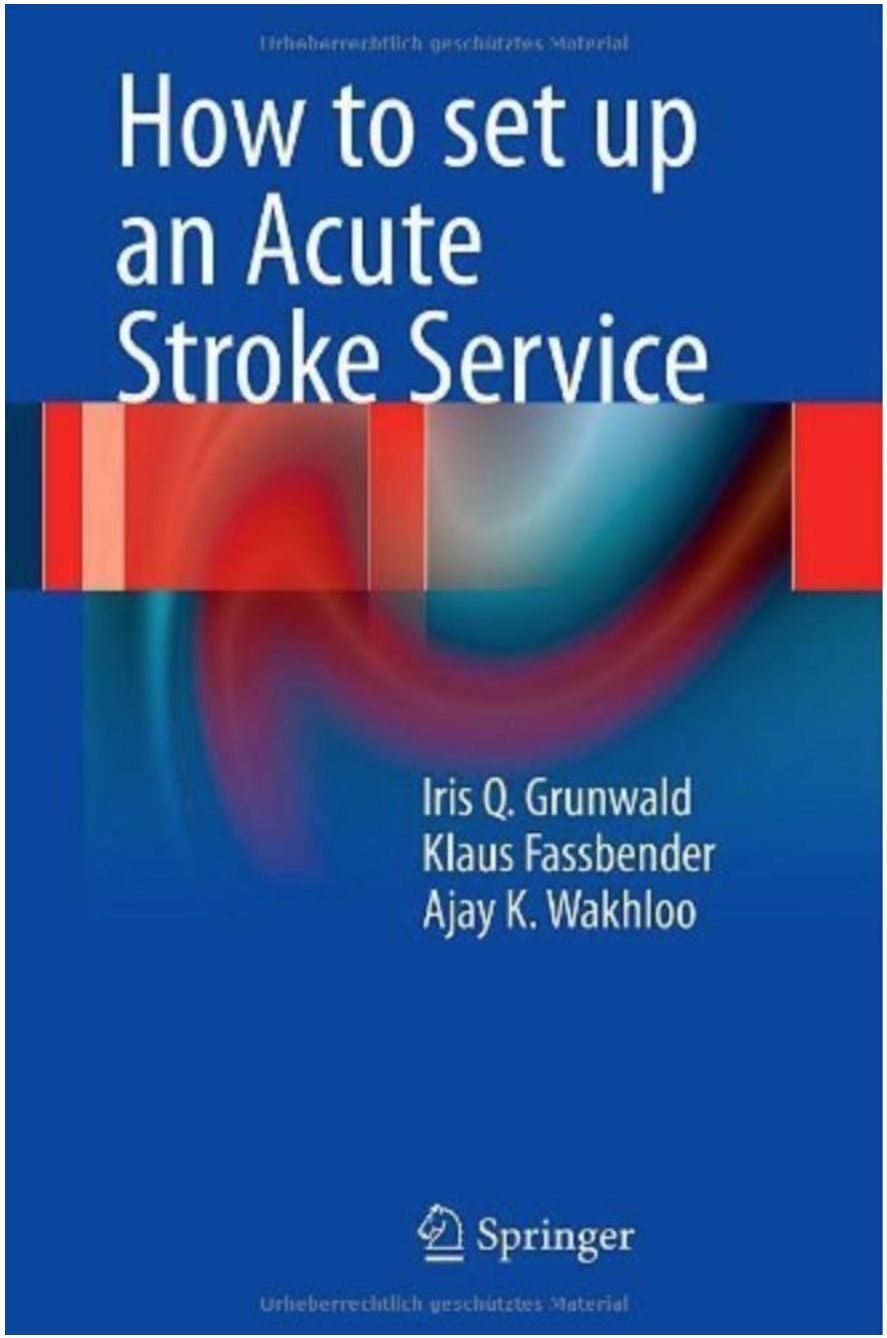
ICCA STROKE 2019

WIST

IOMA accepted the CODE STROKE

Regiones:

1. BAHIA BLANCA *
2. PEHUAJÓ
3. JUNÍN *
4. PERGAMINO
5. SAN ISIDRO
6. LOMAS DE ZAMORA
7. MORÓN
8. GENERAL PUEYRREDÓN *
9. OLAVARRIA
10. SALADILLO *
11. LA PLATA
12. LA MATANZA *
13. CAPITAL FEDERAL
14. DOLORES



ICCA STROKE 2019

WIST

Anglia Ruskin University

To have succes in set up an Stroke service is very important to make

ICCA STROKE 2019

WIST

Welcome to India
Lift
लिफ्ट
Lift A3
Domestic Transfers
अन्तर्राज्यीय स्थानांतरण

THANK YOU !!!!