



# **lisbon** **stroke summit**

**April 5 - 6 2019**

**Grande Real Villa Itália Hotel  
Cascais**

**PROGRAMME**

[www.lisbonstrokesummit.com](http://www.lisbonstrokesummit.com)



Dear Friends and Colleagues,

It is our pleasure and privilege to invite you to the Lisbon Stroke Summit which will be held in Cascais, on 5-6 April 2019.

Lisbon Stroke Summit aims to create a great scientific and networking success by providing a platform for international experts to discuss and compare experiences in cohesive and comprehensive sessions. Lisbon Stroke Summit enables participants to have the chance to benefit from scientific exchange during the formal activities. It is also an opportunity for participants to debate and discuss unresolved issues, highlight difficult clinical cases and discuss up-to-date scientific information essential to improve Stroke care.

We would like you to join us at Lisbon Stroke Summit 2019. Don't miss this international debate on the state of the art in acute stroke! Help us build knowledge in acute stroke!

Sincerely,

LSS 2019, CO-CHAIRPERSONS



Sofia Galego



Isabel Fragata



Patrícia Ferreira

#### HONORARY COMMITTEE

**Prof. Castro Lopes // Prof. Louis Caplan // Prof. Jeffrey Saver**

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**Ana Paiva Nunes**

**Elsa Azevedo**

**João Alcântara**

**João Reis**

**Lúisa Fonseca**

**Raul Nogueira**

## SPEAKERS

### **Alexandre Amaral e Silva**

HVFX, Lisbon, Portugal

### **Ana Paiva Nunes**

CHULC, Lisbon, Portugal

### **Ângelo Carneiro**

CHUPorto, Porto, Portugal

### **Bruno Maia**

CHULC, Lisbon, Portugal

### **Carla Ferreira**

H. Braga, Braga, Portugal

### **Catarina Fonseca**

CHULN, Lisbon, Portugal

### **David Fiorella**

Stony Brook University  
Hospital, New York, USA

### **Diana Aguiar de Sousa**

CHULN, Lisbon, Portugal

### **Dietmar Frey**

Charité University Medicine,  
Berlin, Germany

### **Domingos Coiteiro**

CHULN, Hospital da Luz,  
Lisbon, Portugal

### **Donald Frei**

RIA, Denver, USA

### **Francesco Acerbi**

Neurological Institute Carlo  
Besta, Milan, Italy

### **Gustavo Santo**

CHUC, Coimbra, Portugal

### **Isabel Fragata**

CHULC, Lisbon, Portugal

### **J. David Spence**

SPARC, Ontario, Canada

### **Jeffrey Saver**

UCLA, Los Angeles, USA

### **Jennifer Frontera**

NYU Langone, New York, USA

### **João Alcântara**

CMRA, Alcoitão, Portugal

### **João Reis**

CHULC, Lisbon, Portugal

### **João Sargento Freitas**

CHUC, Coimbra, Portugal

### **José Manuel Amorim**

H. Braga, Braga, Portugal

### **Juan F. Arenillas**

University of Valladolid, Hosp.  
Clínico Universitario, Spain

### **Karin Klijn**

Radboud University, Nijmegen,  
Netherlands

### **Lawrence R. Wechsler**

University of Pittsburgh, USA

### **Lia Neto**

CHULN, Lisbon, Portugal

### **Louis Caplan**

Beth Israel Deaconess Medical  
Center, Boston, USA

### **Luísa Fonseca**

CHUSJ, Porto, Portugal

### **Luísa Rebocho**

HESE, Évora, Portugal

### **Mahmood Mirza**

Neuravi, Galway, Ireland

### **Maja Steinlin**

University Children's Hospital  
Inselspital, Bern, Switzerland

### **Manuel Ribeiro**

CHVNG, Gaia, Portugal

### **Mariana Baptista**

CHULC, Lisbon, Portugal

### **Pasquale Mordasini**

University Hospital Inselspital,  
Bern, Switzerland

### **Paul Bentley**

Faculty of Medicine, Imperial  
College London, UK

### **Paulo Castro Chaves**

CHUSJ, Porto, Portugal

### **Pedro Monteiro**

CHUC, Coimbra, Portugal

### **Peter Vanacker**

Antwerp University Hospital,  
Belgium

### **Raul Nogueira**

Emory University, Atlanta, USA

### **Ricardo Veiga**

CHUC, Coimbra, Portugal

### **Rita Silva**

CHULC, Lisbon, Portugal

### **Rui Carvalho**

CHULC, Lisbon, Portugal

### **Simon Nagel**

Heidelberg University Hospital,  
Germany

### **Sofia Calado**

CHLO, Lisbon, Portugal

### **Teresa Mesquita**

CHLO, Lisboa, Portugal

### **Vitor M. Pereira**

University of Toronto, Canada

### **Yvo Roos**

AMC University, Amsterdam,  
Netherlands

07:30h

**Secretariat opening**

08:30-09:30h

**PROS & CONS SESSION: LET THE DAY BEGIN!**

HOSTS: Ana Paiva Nunes & Sofia Calado

**Is IV rtPA in patients with LVO still beneficial? (30')**

PROS: Yvo Roos // CONS: João Reis

**rtPA vs tNK: It's show time! (30')**

STICK TO WHAT WE KNOW - rtPA: Catarina Fonseca

tNK HAS COME TO STAY: Juan F. Arenillas

09:30-10:00h

**Coffee Break**

10:00-10:30h

**“GO AHEAD, MAKE MY DAY”: OFFICIAL WELCOME**

10:30-11:15h

**TAKING TO THE LIMIT: ON CUTTING EDGE**

**Lateral medullary infarcts: The evolution of knowledge**

SPEAKER: Louis Caplan

11:15-12:15h

**A MOST DIFFICULT CASE – “HOUSTON WE HAVE A PROBLEM”**

Expert multidisciplinary roundtable to discuss challenging cases in stroke

**CASE 1 // Thrombectomy – Behind the curtain (30')**

**CASE 2 // Acute phase treatment in central retinal artery occlusion:**

**Hyperbaric oxygen therapy, thrombolysis or even both? (30')**

NRL: Gustavo Santo

INTERNIST: Teresa Mesquita

NRI: Rui Carvalho

12:15-13:15h



**SPONSORED LUNCH SYMPOSIUM**

**Anticoagulation: Balancing risk and benefit in challenging patients**

SPEAKER: Pedro Monteiro

13:30-14:30h

**PROS & CONS SESSION: STRANGE THINGS HAPPEN**

HOSTS: Rita Silva & Isabel Fragata

**Should EVT for LVO be offered to children?**

PROS: Vitor M. Pereira // CONS: Maja Steinlin

**Moya Moya: Bypass or conservative treatment?**

BYPASS: Domingos Coiteiro

CONSERVATIVE: Francesco Acerbi

14:30-15:00h

**Coffee Break**

15:00-16:00h

**A MOST DIFFICULT CASE – "HOUSTON WE HAVE A PROBLEM"**

Expert multidisciplinary roundtable to discuss challenging cases in stroke

**CASE 3 // Acute ischemic stroke due to isolated intracranial dissection with aneurysmal dilatation: Does everyone know what to do? (30')****CASE 4 // Is late better than never? Vertebral artery stenosis and basilar tip occlusion with minor stroke (30')**

NRL: Alexandre Amaral e Silva

INTERNIST: Luísa Fonseca

NRI: José Manuel Amorim

16:00-16:45h

**SPONSORED SYMPOSIUM****Role of in vitro studies in understanding the influence of techniques in mechanical thrombectomy**

SPEAKER: Mahmood Mirza

16:45-17:00h

**Coffee Break**

17:00-18:00h

**PROS & CONS SESSION: THERE WILL BE BLOOD**

HOSTS: Bruno Maia &amp; Luísa Fonseca

**Minimal invasive surgery for ICH?**

PROS: David Fiorella // CONS: Karin Klijn

**Is there a role for reversal agents in anticoagulant associated ICH?**

PROS: Jennifer Frontera // CONS: João Sargento Freitas

18:00-19:00h

**"THE STUFF THAT DREAMS ARE MADE OF..."****The future ain't what it used to be! Artificial intelligence and stroke**

Paul Bentley

**Precision medicine in stroke**

Dietmar Frey

**Open up your mind: Stem cells in stroke**

Lawrence R. Wechsler

08:00h **Secretariat opening**

08:30-09:30h **A MOST DIFFICULT CASE – "HOUSTON WE HAVE A PROBLEM"**  
Expert multidisciplinary roundtable to discuss challenging cases in stroke  
**CASE 5 // Repeated large vessel occlusion in a young adult (30')**  
**CASE 6 // Vertebral dissection with distal occlusion – Where to start? (30')**  
NRL: João Alcântara  
INTERNIST: Luísa Rebocho  
NRI: Ricardo Veiga

09:30-10:00h **CAROTID ARTERY PLAQUE: HOW ESSENTIAL IS IMAGING?**  
HOST: Lia Neto  
SPEAKER: J. David Spence

10:00-10:15h **Coffee Break**

10:15-11:00h **TAKING TO THE LIMIT: ON CUTTING EDGE**  
**Personalized medicine and thrombolysis/thrombectomy**  
SPEAKER: Jeffrey Saver

11:00-11:40h **SPONSORED SYMPOSIUM**  
 **Improved recanalization efficiency with the newest generation aspiration technology**  
SPEAKER: Donald Frei

11:40-12:40h **A MOST DIFFICULT CASE – "HOUSTON WE HAVE A PROBLEM"**  
Expert multidisciplinary roundtable to discuss challenging cases in stroke  
**CASE 7 // The "Too Late, Too Good and Too Distal to Treat" dilemma (30')**  
**CASE 8 // Is endovascular treatment the best choice for distal artery occlusions? (30')**  
NRL: Diana Aguiar de Sousa  
INTERNIST: Paulo Castro Chaves  
NRI: Manuel Ribeiro

12:40-13:40h **SPONSORED LUNCH SYMPOSIUM**  
 **A need for a tailored protection in our stroke patients**  
SPEAKER: Alexandre Amaral e Silva

- 14:00-14:30h **THE FUTURE OF STROKE IMAGING: WHAT TO EXPECT?**  
HOST: Mariana Baptista  
SPEAKER: Donald Frei
- 14:30-15:30h **PROS & CONS SESSION: TAKE THE BULL BY THE HORNS**  
HOSTS: Carla Ferreira & Ângelo Carneiro  
**Do we still need selection criteria for acute LVO beyond 6h?**  
PROS: Simon Nagel // CONS: Raul Nogueira  
**Can we prevent futile recanalization?**  
PROS: Peter Vanacker // CONS: Pasquale Mordasini
- 15:30-16:00h **Coffee Break**
- 16:00-16:30h **"ELEMENTARY, MY DEAR WATSON" – TOP 5 POSTERS**
- 17:00h **"Shoot out the lights" – Closing Remarks**

### **P 01 SEEING BEYOND THE EYES: SUCCESSFUL TREATMENT OF BASILAR ARTERY OCCLUSION**

**AUTHORS:** Anna Viola Taulaigo<sup>1,2</sup>, Marisa Mariano<sup>1</sup>, Patrícia Ferreira<sup>1</sup>, Jaime Pamplona<sup>3</sup>, João Reis<sup>3</sup>, Ana Paiva Nunes<sup>1</sup>

**INSTITUTIONS:** <sup>1</sup>Unidade CerebroVascular, Hospital São José, Centro Hospitalar Universitário de Lisboa Central, Lisbon, Portugal; <sup>2</sup>Unidade Funcional Medicina 2, Hospital Curry Cabral, Centro Hospitalar Universitário de Lisboa Central, Lisbon, Portugal; <sup>3</sup>Serviço de Neurorradiologia, Hospital São José, Centro Hospitalar Universitário de Lisboa Central, Lisbon, Portugal

### **P 02 DOUBLE OCCLUSION, DOUBLE THROMBECTOMY**

**AUTHORS:** Bruno Cunha<sup>1</sup>, Danila Kuroedov<sup>1</sup>, Isabel Fragata<sup>1</sup>, Ana Paiva Nunes<sup>2</sup>, João Reis<sup>1</sup>

**INSTITUTIONS:** <sup>1</sup>Neuroradiology Department, Centro Hospitalar Universitário de Lisboa Central; <sup>2</sup>Stroke Unit, Centro Hospitalar Universitário de Lisboa Central

### **P 03 TREATMENT BEYOND GUIDELINES**

**AUTHORS:** Danila Kuroedov; Joana Osório; Patrícia Ferreira.; Ana Paiva Nunes.; João Reis

**INSTITUTION:** Centro Hospitalar e Universitário Lisboa Central

### **P 04 ACUTE OCCLUSION WITH SUBACUTE CONTRALATERAL LESION – A DILEMMA? MAYBE NOT**

**AUTHORS:** Amaral, Maria; Pinheiro, Carolina; Sousa, Cristina; Ferreira, Patrícia; Nunes, Ana Paiva

**INSTITUTION:** CHULC – Centro Hospitalar Universitário Lisboa Central

### **P 05 ATRIAL FIBRILLATION, ACUTE STROKE AND CEREBRAL ARTERIOVENOUS MALFORMATION: BEST APPROACH?**

**AUTHORS:** Gonçalo Cabral<sup>1</sup>, Filipa Serrazina<sup>1</sup>, Ana Luís, Sofia Calado<sup>2</sup>, Miguel Viana Baptista<sup>1,3</sup>

**INSTITUTIONS:** <sup>1</sup>Serviço De Neurologia, Hospital de Egas Moniz, Centro Hospitalar Lisboa Ocidental; <sup>2</sup>Serviço de Neurocirurgia, Hospital de Egas Moniz, Centro Hospitalar Lisboa Ocidental; <sup>3</sup>CEDOC - Nova Medical School, Universidade Nova de Lisboa

### **P 06 CEREBRAL SINUS VENOUS THROMBOSIS IN A PATIENT WITH COMPLETE GONADAL DYSGENESIS**

**AUTHORS:** Federica Parlato; Pedro Gaspar; Diana Aguiar de Sousa; Sandra Braz

**INSTITUTION:** Centro Hospitalar Lisboa Norte

### **P 07 ACUTE ISCHEMIC STROKE AND SEVERE BILATERAL INTERNAL CAROTID STENOSIS: A DOUBLE DILEMMA**

**AUTHORS:** Bárbara Pedro, Marisa Mariano, Patrícia Ferreira, Jaime Pamplona, Ana Paiva Nunes, João Reis

**INSTITUTION:** Centro Hospitalar Universitário de Lisboa Central



**P 08 ATRIAL MYXOMA – BENIGN, BUT NOT HARMLESS**

AUTHORS: Andreia M. Teixeira<sup>1</sup>, Marta Soares Carreira<sup>2</sup>, Luís Lemos<sup>2</sup>, Margarida Matias<sup>3</sup>, Leonor Dias<sup>4</sup>, Marta Carvalho<sup>4</sup>, Pedro Bernardo<sup>5</sup>, Goreti Moreira<sup>2</sup>, Luísa Fonseca<sup>2</sup>

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**P 09 SUBTLETIES ON PATENT FORAMEN OVALE CLOSURE**

AUTHORS: Elisa Martins Silva, Elisa Campos Costa, Ana Cláudia Ribeiro, Miguel Rodrigues, Liliana Pereira

INSTITUTION: *Serviço de Neurologia, Hospital Garcia de Orta, Almada, Portugal*

**P 10 CHALLENGES OF ACUTE STROKE TREATMENT: WHEN TREATING THE BRAIN IS NOT ENOUGH**

AUTHORS: Miguel Quintas-Neves, Sofia Xavier, Carla Ferreira, Jaime Rocha, José Manuel Amorim

INSTITUTION: *Neuroradiology and Neurology Departments, Hospital de Braga*

**P 11 A BIG DILEMMA IN A TINY PATIENT**

AUTHORS: Perry da Câmara, Catarina<sup>1</sup>; Baptista, Mariana<sup>1</sup>, Morais, Teresa<sup>1</sup>; Fragata, Isabel<sup>1</sup>; Mendonça; Carla; Vieira<sup>2</sup>, José Pedro<sup>3</sup>; Reis, João<sup>1</sup>

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**P 12 IS ALTEPLASE STILL IMPORTANT IN M1 OCCLUSIONS UNDERGOING THROMBECTOMY?**

AUTHORS: Manuel Machado<sup>1</sup>, Alberto Fior<sup>1</sup>, Isabel Fragata<sup>2</sup>, João Reis<sup>2</sup>, Ana Paiva Nunes<sup>1</sup>

INSTITUTIONS: <sup>1</sup>Unidade Cerebrovasculares, Centro Hospitalar Universitário Lisboa Central; <sup>2</sup>Serviço de Neuroradiologia, Centro Hospitalar Universitário Lisboa Central

**P 13 SEVERE HYPOCALCEMIA MANIFESTING AS STROKE**

AUTHORS: Eduarda Alves, Rafaela Pereira, Conceição Viegas, Giovanni Cerullo, Ana Paula Fidalgo, Joana Pestana

INSTITUTION: *Centro Hospitalar Universitário do Algarve, Faro, Portugal*

**P 14 THROMBECTOMY: WHEN SHOULD WE STOP?**

AUTHORS: Joana Branco Ferrão; Bruno Cruz Maia; Ana Paiva Nunes

INSTITUTION: *Medicina 2,3 HSAC, Unidade Cerebrovascular HSJ, Unidade Cerebrovascular HSJ*

**P 15 INDICATIONS FOR TRANSOESOPHAGEAL ECHOCARDIOGRAM IN THE RESEARCH OF CARDIOEMBOLIC SOURCE FOR STROKE**

AUTHORS: Inês Almeida, Joana Chin, Catarina Sousa, João Tavares

INSTITUTION: *Cardiology Department – Centro Hospitalar Barreiro-Montijo*

**P 16 PROFITABILITY OF TRANSTHORACIC ECHOCARDIOGRAM IN THE IDENTIFICATION OF CARDIOEMBOLIC SOURCE FOR STROKE**

AUTHORS: Inês Almeida, Joana Chin, Catarina Sousa, João Tavares

INSTITUTION: *Cardiology Department – Centro Hospitalar Barreiro-Montijo*

**P 17 REAL WORLD IMPORTANCE OF 24-HOURS HOLTER IN SILENT ATRIAL FIBRILLATION RESEARCH**

AUTHORS: Inês Almeida, Joana Chin, Dinis Mesquita, João Tavares

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**P 18 PITFALLS IN SUSPECTED BRAIN INFARCTION – A NEURORADIOLOGIST’S MUST KNOW**

AUTHORS: Luís Cardoso, Hugo Martins, Ricardo Martins, Pedro S. Pinto

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**P 19 WHAT A SHUNT! – A CASE OF PATENT FORAMEN OVALE**

AUTHORS: Ana Ponciano Cátia Faria Diana Moura José Leite Célio Fernandes

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**P 20 SUBACUTE BLOOD-BRAIN BARRIER PERMEABILITY AFTER AN ACUTE ISCHEMIC STROKE IS ASSOCIATED WITH GOOD CLINICAL OUTCOME**

AUTHORS: João André Sousa, César Nunes, Fernando Silva, Cristina Machado, Bruno Rodrigues, Gustavo Cordeiro Santo, Miguel Castelo Branco, Lino Ferreira, Luis Cunha, João Sargento-Freitas

INSTITUTION: *Centro Hospitalar e Universitário de Coimbra Faculdade de Medicina da Universidade de Coimbra*

**P 21 ISOLATED MIDDLE CEREBRAL ARTERY DISSECTION, A RARE CAUSE OF STROKE**

AUTHORS: Luís Ribeiro<sup>1</sup>, Pedro Bem<sup>2</sup>, Sofia Monteiro<sup>3</sup>, Sandra Moreira<sup>1</sup>

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**P 22 THE EGG OR THE CHICKEN: BILATERAL DEEP VENOUS THROMBOSIS AND LEFT THALAMIC STROKE**

AUTHORS: Verónica Cabreira<sup>1,2</sup>, Mariana Leal<sup>3</sup>, Bernardo Moreno<sup>4</sup>, Joana Guimarães<sup>1,2</sup>

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**P 23 STROKE AND AIR POLLUTION: THE EFFECTS OF AIR QUALITY IN THE NUMBER OF ISCHAEMIC STROKES IN LISBON**

**AUTHORS:** Proença, Filipa; Neto, Lia; Madureira, João; Teotónio, Pedro; Mendonça, Mário; Guerreiro, Carla; Raposo, Francisco; Correia, Manuel; Sá, Graça

**INSTITUTION:** *Neuroradiology Department, Centro Hospitalar Universitário Lisboa Norte, Lisbon, Portugal*

**P 24 PRIMARY ANGIITIS OF CENTRAL NERVOUS SYSTEM: DIAGNOSTIC AND THERAPEUTIC CHALLENGES**

**AUTHORS:** Francisco Bernardo<sup>1</sup>, André Rêgo<sup>1</sup>, Elsa Parreira<sup>1</sup>, Rui Manaças<sup>2</sup>, Ding Zhang<sup>3</sup>, Martinha Chorão<sup>4</sup>, Amélia Nogueira Pinto<sup>1</sup>

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**P 25 BRIDGING THERAPY WITH IV THROMBOLYSIS VERSUS MECHANICAL THROMBECTOMY ALONE IN ACUTE ISCHEMIC STROKE: A MONOCENTRIC ANALYSIS OF REPERFUSION RATES**

**AUTHORS:** Carneiro, Inês; Basílio, Gonçalo; Alves Berhanu, David; Correia, Manuel; Sá, Graça

**INSTITUTION:** *Centro Hospitalar Universitário de Lisboa Norte, EPE*

**P 26 AN OFF-ROAD CAUSE OF RIGHT EYE HYPOVISION**

**AUTHORS:** Luís Lemos; Maria João Pinto; Andreia Teixeira; Daniela Ferro; Margarida Matias; Paulo Castro Chaves; Jorge Almeida; Luísa Fonseca

**INSTITUTION:** *Centro Hospitalar e Universitário de São João*

**P 27 ENDOVASCULAR TREATMENT OF CAROTID BLOWOUT SYNDROME: CASE REPORT**

**AUTHORS:** Catarina Pinto, Hugo Mota Dória, Luís Cardoso, Ângelo Carneiro

**INSTITUTION:** *Serviço de Neuroradiologia, Centro Hospitalar do Porto*

**P 28 RECURRENT ISCHEMIC STROKE IN YOUNG PATIENT – DISCUSSION OF A THERAPEUTIC APPROACH**

**AUTHORS:** Leila Duarte; Cristiana Mendes; João Madeira Lopes; J Meneses Santos

**INSTITUTIONS:** *CHULN - Hospital Santa Maria - Medicina II*

**P 29 CAROTID STENOSIS GRADING: INTER-OBSERVER AGREEMENT USING CTA-NASCET**

**AUTHORS:** Alves Berhanu, David Guerreiro, Carla Raposo, Francisco Carneiro, Inês Sequeira, Paulo Sousa, Rita Sá, Graça

**INSTITUTION:** *Centro Hospitalar Lisboa Norte*

**P 30 FIRST PASS EFFECT – THROMBUS AT FIRST SIGHT**

*AUTHORS:* Correia, Manuel<sup>1</sup>; Neto, Lia<sup>1</sup>; Raposo, Francisco<sup>1</sup>; Melo, Teresa<sup>2</sup>; Basílio, Gonçalo<sup>1</sup>; Sequeira, Paulo<sup>1</sup>; Biscoito, Luísa<sup>1</sup>; Sá, Graça<sup>1</sup>

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**P 31 ACUTE STROKE ENDOVASCULAR TREATMENT: ETHICAL ISSUES IN DECISION MAKING**

*AUTHORS:* Guerreiro, Carla; Reimão, Sofia; Madureira, João; Neto, Lia; Sá, Graça

*INSTITUTION:* Neuroimaging Department, North Lisbon Hospital Center

**P 32 CHIROPRACTY: FRIEND OR FOE?**

*AUTHORS:* Rita Claro Santos, Sara Ventura, Bruno Maia, Ana Paiva Nunes

*INSTITUTION:* Centro Hospitalar Universitário Lisboa Central Unidade de Urgência Médica Unidade Cerebrovascular

**P 33 WHERE DO YOU LIVE? THE IMPORTANCE OF THE GEOGRAPHIC LOCATION IN THE EFFECTIVENESS OF STROKE MANAGEMENT**

*AUTHORS:* Proença, Filipa; Neto, Lia; Correia, Manuel; Madureira, João; Teotónio, Pedro; Mendonça, Mário; Guerreiro, Carla; Raposo, Francisco; Sá, Graça

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