Neurosciences in Intensive Care International Symposium (NICIS)

June 20-21 2019
INSTITUT PASTEUR I PARIS

Neuro-prognostication in the ICU: from basic neuroscience to medical decision

Scientific Organizers
Pr Fernando Bozza I Oswaldo Cruz Fondation
Pr Jan Claassen I Columbia University College of Physicians & Surgeons
Dr Vincent Degos I University of Pierre & Marie Curie
Pr Tarek Sharshar I Paris-Descartes University, Sainte-Anne teaching Hospital
Dr Romain Sonneville I Paris Diderot University
Pr Robert D Stevens I Johns Hopkins University

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THURSDAY JUNE 20th | NICIS EUROPE 2019

08h30-09h00 Welcome & registration

09h00-10h00 NEUROPROGNOSTICATION IN STROKE
09h00-09h20 Prediction of aphasia recovery after ischemic stroke - Cathy J Price - University College London, London (United Kingdom)
09h20-09h40 Prediction of motor recovery after ischemic stroke - Charlotte Rosso - Sorbonne University, Paris (France)
09h40-10h00 Pragmatic approach of prognostication in severe stroke - Mikael Mazighi - Paris Diderot University, Paris (France)

10h00-10h30 Coffee Break

10h30-11h50 NEUROPROGNOSTICATION IN CARDIAC ARREST
10h30-10h50 Pathophysiology of ischemic brain injuries - Denis Vivien - INSERM Paris, Cep Ciceron Caen (France)
10h50-11h10 Functional and structural MRI for neuroprognostication after cardiac arrest - Robert D Stevens - John Hopkins Medicine, Baltimore (USA)
11h10-11h30 Electrophysiology in anoxo-ischemic injuries - Michel van Putten - University of Twente, Enschede (Netherlands)
11h30-11h50 Pragmatic approach of prognostication after cardiac arrest - Alain Cariou - Hospices Civils de Lyon, Lyon (France)

12h00-13h30 SYMPOSIUM 1

14h00-15h20 NEUROPROGNOSTICATION IN TRAUMATIC BRAIN INJURY
14h00-14h20 Pathophysiology of TBI - Jonathan Coles - University of Cambridge, Cambridge (United Kingdom)
14h20-14h40 Epidemiological research on prognostication of TBI Outcome - Hester Lingsma - Erasmus Medical Center, Rotterdam (Netherlands)
14h40-15h00 Predict cognitive dysfunction after TBI - David Sharp - Imperial College, London (United Kingdom)
15h00-15h20 Long term improvement after TBI - Jacques Luauté - Hospices Civils de Lyon, Lyon (France)

15h20-15h50 Coffee Break

15h50-17h10 NEUROPLASTICITY
15h50-16h10 Stress-induced Mechanisms of plasticity - Maurizio Popoli - University of Milan, Milan (Italy)
16h10-16h30 Is there a biomarker of neuroplasticity? - Diego Gazzolo - «Cesare Arrigo» Children's Hospital, Alessandria (Italy)
16h30-16h50 Plasticity and connectivity - Detection and stimulation with TMS - John Rothwell - University College London, London (United Kingdom)
16h50-17h10 Neuroplasticity evaluation to predict prognosis: form bench to bedside - Nick Ward - University College London, London (United Kingdom)

17h00-18h30 SYMPOSIUM 2

FRIDAY JUNE 21th | NICIS EUROPE 2019

08h30-09h00 Welcome & registration

09h00-09h20 NEUROPROGNOSTICATION OF CONSCIOUSNESS
09h00-09h20 Clinical evaluation of consciousness in the ICU - Aurore Thibaut - University of Liège (Belgium)
09h20-09h40 Uncovering consciousness in unresponsive ICU patients: technical, medical and ethical considerations - Jan Claassen - Columbia University, New York (USA)
09h40-10h00 Consciousness and complexity - Mario Rosanova - University of Milan, Milan (Italy)
10h00-10h20 Prognostication of consciousness recovery: State of the art in 2019 - Lionel Naccache - Sorbonne Universities, Paris (France)

10h20-10h50 Coffee Break

10h50-12h10 DECISION MAKING IN HIGH DEGREE OF UNCERTAINTY
10h50-11h10 General introduction to decision making - Albert Moukheiber - Chiasma, Paris (France)
11h10-11h30 Confirmation bias - Stefano Palminteri - Ecole Normale Supérieure, Paris (France)
11h30-11h50 How to improve medical decision under pressure / uncertainty - Niklas Keller - Charité Universitätsmedizin, Berlin (Germany)
11h50-12h10 The key role of uncertainty in decisions to withdraw Life-sustaining treatments - Christos Lazaridis - University of Chicago, Chicago (USA)

12h10-13h40 SYMPOSIUM 3

14h00-14h20 NEUROPROGNOSTICATION IN CARDIAC ARREST
14h00-14h20 Pathophysiology of acute ischemic stroke and recovery - Lionel Velly - Aix-Marseille University, Marseille (France)

14h20-15h40 BRAIN DEATH: CONCEPTS AND CHALLENGES
14h20-14h40 A brief History of brain deaths - Laura Bossi - University of Milan, Milan (Italy)
14h40-15h00 Definitions of brain deaths across Europe - Giuseppe Citerio - Milano Bicocca University, Milan (Italy)
15h00-15h20 Cofounding factor in neuroprognostication: sedation, renal and liver failure - Caroline Ngogossian - Presbyterian Hospital, New York (USA)
15h20-15h40 Neuroprognosis and Donation After Cardiac Death (DCD) - Erwin Kompanje - Erasmus Medical Center, Rotterdam (Netherlands)

15h40-16h00 Coffee Break

16h00-17h20 FUTURE OF NEUROPROGNOSTICATION: BIG DATA AND MACHINE LEARNING
16h00-16h20 Using real-world data for research and outcomes: An innovative approach - Jorge Salluh - D’or Institute for research and education, Rio de Janeiro (Brazil)
16h20-16h40 Big Data and prediction - Mikele Demers - Erasmus Medical Center, Rotterdam (Netherlands)
16h40-17h00 Machine learning applied to neuroscience - Alexandre Gramfort - INRIA, Saclay (France)
17h00-17h20 EEG markers of consciousness in brain-injured patients - Jacobo Sitt - Brain and Spine Institute, Paris (France)

17h20-17h40 Awards I End of the conference