Thursday 22\textsuperscript{nd} November

09.30-11.00 Abstracts -1

Chair: Dr Angella Bryan, Manchester

The International Physical Activity Questionnaire and its relationship to performance at Cardiopulmonary Exercise Testing in preoperative patients
Jonathan L. Dumbrill, Daniel H. Conway, Dougal Atkinson, Angella Bryan, Rachel Powell

Peak Workload Index during Cardiopulmonary Exercise Testing is better predictor of Length of Hospitalisation than Anaerobic threshold in Liver Transplant Patients

Do CPET results correlate with a fast track score developed to predict early extubation following liver transplant?

Adding Objectivity to Submaximal Exercise testing by Assessment of heart Rate ReCovery – a Healthy volunteer study (SEARCH)
C Morton, BG Shelley.

V Kaura, José R López, MA Shaw, PD Allen, PM Hopkins.

11.00-11.30 Break

11.30-13.00 Abstracts -2

Chair: Dr Ben Shelley, Glasgow

Serum microRNAs and perioperative myocardial injury.
SM May, TEF Abbott, AG Del Arroyo, BH Cuthbertson, DN Wijeysundera, RM Pearse\textsuperscript{1}, GL Ackland\textsuperscript{1}. 
Perioperative plasma cortisol levels and myocardial injury after non-cardiac surgery.  
Manou-Stathopoulou V, Abbott TEF, May SM, Cuthbertson BH, Wijeysundera DN, Pearse RM, Ackland GL.

Melatonin increases endorphin production by pituitary cells  
John Chalmers, Lucia di Mascio, Bensita VJ Thottakam, Helen F Galley

Circadian regulation of macrophage phagocytosis is mediated by a REV-ERBα independent Bmal1/RhoA pathway  
Gareth Kitchen, Thomas Hopwood, Peter Cunningham, Toryn Poolman, Nicola Begley, Andrew Loudon, John Blaikley, David Ray.

Within subjects analysis of operator performance with and without needle tip tracking during ultrasound-guided sciatic regional nerve block on the soft embalmed Thiel cadaver  
A Taylor, M McKendrick, A Sadler, J Halcrow, P Raju, A Mustafa, J Seeley, G McLeod

13.00-14.00 Lunch (Breakout room for ARS Exec)

14.00-15.45 BJA Symposium

Chair: Professor Tim Hales, Dundee

The role of GABA_A receptor subtypes in the behavioural effects of general anaesthetics.  
Jerry Lambert  
Professor of Neuropharmacology, University of Dundee

Chronic pain – is it predetermined?  
Lesley Colvin  
Professor of Pain Medicine, Honorary Consultant in Anaesthesia and Pain Medicine, University of Dundee

From gene to function: Understanding pathophysiology of life-threatening influenza  
Kenneth Baillie  
Wellcome–Beit Fellow, Roslyn Institute, Honorary ICU Consultant Royal Infirmary Edinburgh

15.45-16.15 Break
16.15-17.15 Abstracts -3

Chair: Dr Brendan McGrath, Manchester

**Measuring the bias of morphine, oxycodone and buprenorphine for G protein activation versus β-arrestin2 recruitment to the μ opioid receptor**

*Samuel Singleton, Daniel Baptista-Hon, Fiona Bull and Tim G. Hales.*

**Beta-arrestin 2 participates in the exacerbated morphine analgesic tolerance of mice exposed to fragmented maternal care.**

*Claire Sneddon, Daniel Baptista-Hon, Jeremy Lambert and Tim Hales.*

**Sensory mapping of lumbar facet joint pain**

*Kasun D Fernando, Sudhindra Dharmavaram, Saravanakumar Kanakarajan and Helen F Galley*

**Construct validation of metrics for translation of regional anaesthesia skills from the soft embalmed cadaver to patients**

*A Sadler, M McKendrick, A Taylor, J Halcrow, P Raju, A Mustafa, J Seeley, G McLeod.*

17.15-18.15 Annual General Meeting

19.30 Dinner 172atthecaird
Friday 23rd November

09.30-11.00  Abstracts -4

Chair: Dr Malachy Columb, Manchester

Interventions to improve communication in mechanically ventilated patients: a review
S. Talbot, B.A. McGrath.

Which plasma biomarker may reflect severity of illness in the ICU patients with systemic inflammation?

Is there a relationship between frailty score at ICU admission and adverse-event incidence at one year? A retrospective observational cohort study.
D Hewitt, M G Booth.

Melatonin in doctors and nurses working nightshifts- the MIDNIGHT trial
Bensita MVJ Thottakam, Nigel R Webster, Gary Cameron, Helen F Galley.

Using computer simulation to explore mechanisms of Right Ventriculo-Arterial un-coupling following lung resection.
Shafeer Rishad, Brian McKinlay, Philip McCall, Ben Shelley.

11.00-11.30  Break

11.30-12.30  Guest lecture

New Psychoactive Substances
Prof Niamh Nic Daeid
Director of the Leverhulme Research Centre for Forensic Science

12.30-13.30  Lunch

13.30-13.40  Medal winner award & photos
13.40-15.00  **Abstracts -5**

**Chair:** Dr Mike Sury, London

**Activation of the mu-opioid receptor by MT-45 and its synthetic and metabolic derivatives**
Mark Smith, Daniel Baptista-Hon, Lysbeth Antonides, Craig McKenzie, Niamh Nic Daeid and Tim G. Hales.

**Roles of presynaptic P/Q- and N-type calcium channels in inhibition of synaptic vesicle exocytosis by isoflurane in rat hippocampal neurones**

**Comparison of cerebral autoregulation models in traumatic brain injury**
E Cahya, C Hawthorne, M Shaw.

**Change in arm position alters DC and AC components of photoplethysmogram signals**
C Keogh, G B Drummond.

**End of meeting – home or visit V&A Museum of Design / RSS Discovery**

**Organisers: Tim Hales and Cameron Weir**

*Approved for 11 CPD points by the Royal College of Anaesthetists*