

## PBLD

**Track chair:** Idit Matot (Israel)  
**Track co-chairs:** Daniela Filipescu (Romania); Kirk Lalwani (USA)

PBLD/ MEET THE EXPERT

### 1: REGIONAL ANAESTHESIA

WEDNESDAY, SEPTEMBER 1, 2021, 16:00–16:45, PBLD CHANNEL

**Session format:** PBLD  
**Session title:** Regional Anaesthesia  
**Learning objectives:** 90-year-old female with a pansystolic murmur scheduled for operative fixation of fractured neck of femur.

- List the advantages of early hip fracture surgery and the merits of an integrated care pathway.
- List indications for cardiac consultation as part of the preoperative assessment
- Integrate peripheral nerve blocks into perioperative analgesia.
- Chose the appropriate surgical anaesthesia technique.

**SPEAKER:** **Gabriela Iohom** (Cork, Ireland): 90-year-old female with a pansystolic murmur scheduled for operative fixation of fractured neck of femur

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### 2: RESPIRATORY, SLEEP MEDICINE, OBESITY, AND AIRWAY MANAGEMENT

THURSDAY, SEPTEMBER 2, 2021, 08:00–08:45, PBLD CHANNEL

**Session format:** PBLD  
**Session title:** Respiratory, Sleep Medicine, Obesity, and Airway Management  
**Learning objectives:** "The patient is desaturating in the OR: time is running".  
At completion of the PBLD, participants will be able to:

- Predict patients at higher risk of desaturation during surgery.
- Perform differential diagnosis of hypoxemia in OR, including hemodynamic management.
- Identify the algorithms for oxygenation improvement in OR.
- Improve therapeutic management in the postoperative period.

**SPEAKER:** **Paolo Pelosi** (Genoa, Italy): Case presentation: The patient is desaturating in OR: time is running

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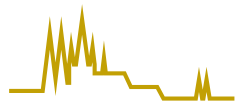
### 3: GERIATRIC ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 09:15–10:00, PBLD CHANNEL

**Session format:** PBLD  
**Session title:** Geriatric Anaesthesia  
**Learning objectives:** An 82 yo woman with Colorectal Carcinoma.

- List preoperative prehabilitation measure.
- Justify intraoperative fluid therapy and hemodynamic targets.
- Sketch a plan for prevention and treatment of postoperative renal dysfunction.

**SPEAKER:** **Ioana Grigoras** (Iasi, Romania): Case study: an 82yo woman with colorectal carcinoma, scheduled for surgery



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## 4: PAEDIATRIC ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 10:30–11:15, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Paediatric Anaesthesia
- Learning objectives:** A 3-year-old toddler with bidirectional Glenn anastomosis needs emergency laparotomy.
- Describe a structured approach about the child with cyanotic heart disease, stages of palliation, chronic medication, anticoagulation, possible organ dysfunctions.
  - Review his anaesthetic management, preoperative assessment, and possible risks for complications.
  - Develop an anaesthesia plan for emergency laparotomy, and describe the effective postoperative analgesia plan, compare, and contrast the multimodal, neuraxial and oral analgesia.
- SPEAKERS:** **Andrea Szekely** (Budapest, Hungary): Case Study: A 3-year-old toddler with bidirectional Glenn anastomosis needs emergency laparotomy

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## 5: AMBULATORY ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 11:45–12:30, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Ambulatory Anaesthesia
- Learning objectives:** A 72-year-old for Colonoscopy and Polypectomy with Atrial Fibrillation Who Wants General Anaesthesia
- Decide on the patient's management before procedure with a focus on her medication.
  - Discuss different options (drugs and techniques) for deep sedation during procedure.
  - Discuss monitoring during procedure according to guidelines.
  - Decide patient's postprocedural management and resumption of DOAC.
- SPEAKER:** **Daniela Ionescu** (Cluj-Napoca, Romania): Case study: A 72-year-old lady is scheduled for colonoscopy and 5 polyps (0.5-1 cm diameter) removal. She is known with atrial fibrillation and she is on beta-blockers, statins and DOACs. She wants to sleep during colonoscopy

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## 6: GERIATRIC ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 14:45–15:30, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Geriatric Anaesthesia
- Learning objectives:** A 79 yo woman with history of Stroke and CAD s/p stent placement coming for Total Knee Replacement
- Discuss preoperative evaluation of the elderly.
  - Justify the right timing for this operation.
  - Select interventions/strategies that might improve the elderly patient's outcome.
  - Propose scenarios in which surgical procedures should be reconsidered in the elderly patient.
- SPEAKER:** **Idit Matot** (Tel Aviv, Israel): Case study: a 79yo woman with history of stroke and CAD s/p stent placement coming for TKR



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## 7: RESPIRATORY, SLEEP MEDICINE, OBESITY, AND AIRWAY MANAGEMENT

THURSDAY, SEPTEMBER 2, 2021, 16:00–16:45, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Respiratory, Sleep Medicine, Obesity, and Airway Management
- Learning objectives:** Case study: It is just a 10 min' intervention the surgeon said; and the patient arrested in the OR
- Increase the awareness for early signs of cardiac arrest, even during minor surgery.
  - Perform differential diagnosis of shock.
  - Identify the need for extracorporeal life support during cardiac arrest (expanded algorithm)
  - Improve communication skills within the team to optimize patient outcome.

**SPEAKER:** **Marcelo Gama de Abreu** (Cleveland, United States): Case study: It is just a 10 min' intervention the surgeon said; and the patient arrested in the OR

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## 8: AMBULATORY ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 17:15–18:00, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Ambulatory Anaesthesia
- Learning objectives:** Adult and Paediatric Patients with Obstructive Sleep Apnea for Ambulatory Surgery
- Describe the pathophysiology of OSA and comorbidities caused by OSA in adults and children.
  - Update on the selection of patients with suspected/documented OSA undergoing ambulatory anaesthesia.
  - Discuss the intraoperative, early postoperative and postdischarge concerns in OSA patients in ambulatory settings.
  - Define peri-operative considerations of pain management of patients with OSA for ambulatory surgery.
  - Argue the use of neuromuscular blockers in patients with OSA for ambulatory surgery.
  - Discuss perioperative risk reduction strategies to adult and pediatric patients with OSA.
  - Post-operative discharge strategies in adult and pediatric patients with OSA

**SPEAKER:** **Tatjana Simurina** (Zagreb, Croatia): Case study: Adult and pediatric patients with obstructive sleep apnea for ambulatory surgery

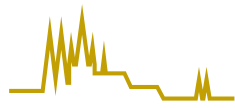
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## 9: PAEDIATRIC ANAESTHESIA

THURSDAY, SEPTEMBER 2, 2021, 18:30–19:15, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Paediatric Anaesthesia
- Learning objectives:** A 5-year-old with a History of "Feeling Walls" and Nocturia for Resection of a Suprasellar Tumor
- Discuss the safe conduct of sedation for MRI in a pediatric patient with a brain tumor.
  - Describe the pathophysiology and clinical presentation of suprasellar tumors.
  - Outline the preoperative considerations for resection of a craniopharyngioma in a child.
  - Review the differential diagnosis of delayed emergence following the resection of a craniopharyngioma.
  - Differentiate between three known causes postoperative hyponatremia in neurosurgical patients.

**SPEAKER:** **Kirk Lalwani** (Portland, United States): Case study: A 5-year-old with a History of "Feeling Walls" and Nocturia for Resection of a Suprasellar Tumor



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## 10: CARDIAC AND VASCULAR ANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 08:00–08:45, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Cardiac and Vascular Anaesthesia
- Learning objectives:** Challenging cardiac complications in high-risk cardio-vascular surgery: The relevance of perioperative optimization and myocardial ischaemia
- Identify preoperatively the patients with high risk of perioperative myocardial ischaemia.
  - Interpret the results bio-marker monitoring in the perioperative period.
  - Figure anaesthesia related risk factors in patients with potential unstable hemodynamic parameters.
  - Adequately use actual guidelines in the pre-, intra and postoperative treatment of patient with increased cardiovascular risk.
- SPEAKER:** **Wolfgang Buhre** (Maastricht, the Netherlands): Case study: Challenging cardiac complications in high-risk cardio-vascular surgery. The relevance of perioperative optimization and myocardial ischaemia

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## 11: PAIN MANAGEMENT

FRIDAY, SEPTEMBER 3, 2021, 09:15–10:00, PBLD CHANNEL

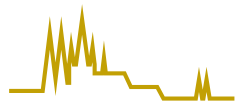
- Session format:** PBLD
- Session title:** Pain Management
- Learning objectives:** Preoperative Opioids as a Risk Factor for Postoperative Complications
- Plan analgesic strategies for patients after extensive extremity surgery
  - Recall opioid conversion calculations.
  - Discuss the role of preoperative opioids as a risk for perioperative complications.
  - Illustrate how anxiety might complicate perioperative pain management.
  - Debate different approaches to the management of patients with preoperative opioids / anxiety.
  - Discuss a preoperative opioid taper down protocol.
  - Evaluate different approaches for perioperative pain management in opioid-dependent patients.
- SPEAKER:** **Esther Pogatzki-Zahn** (Muenster, Germany): 44-year-old female patient, presented for surgery due to deep fibrous histiocytoma (25 x 12 x 12 cm) at the left leg (extremity-preserving surgery planned)

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## 12: OBSTETRIC ANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 10:30–11:15, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Obstetric Anaesthesia
- Learning objectives:** Labour Analgesia Options
- Discuss the options available for neuraxial labour analgesia, (epidural, combined-spinal, dural-puncture epidural) and to apply the options to clinical scenarios in their labour ward.
  - Identify functioning neuraxial labour analgesia and to devise strategies within the participant's available setting to manage failed neuraxial labour analgesia.
  - Manage labour pain for women unable to receive neuraxial labour analgesia using available and suitable alternative pharmacologic strategies such as remifentanyl, fentanyl, nitrous oxide, subcutaneous saline.
- SPEAKER:** **Carolyn Weiniger** (Tel Aviv, Israel): Case study: Labour Analgesia Options



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## 13: NEUROANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 11:45–12:30, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Neuroanaesthesia  
**Learning objectives:** anaesthetic Management of Brainstem Tumor in the Sitting Position
- Evaluate the risks/benefits in performing a craniotomy in the sitting position and how these risks can be minimized.
  - Define prevention strategies as well as detection and management of a venous air embolism in the sitting position.
  - Justify use of neuro-monitoring for a brainstem tumor and its anaesthetic implications.
- SPEAKER:** **Dafna Wilner** (Nahariya, Israel): Case study: anaesthetic Management of Brainstem Tumor in the Sitting Position

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## 14: PAIN MANAGEMENT

FRIDAY, SEPTEMBER 3, 2021, 14:45–15:30, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Pain Management  
**Learning objectives:** Chronic pain management options where there are no opioids.
- Discuss the options available for chronic pain management in clinical scenarios where there is limited supply of opioids.
  - Diagnose and treat simple cases of Chronic pain.
  - Define different techniques for low back pain management.
  - Describe Evidence-based Guidelines and Interventions and analgesic drug delivery systems.
  - Conduct plexus blocks, Epidural steroid injections, insert Intrathecal drug delivery systems and other options for treatment of LBP.
- SPEAKER:** **Elizabeth Ogboli Nwasor** (Zaria, Nigeria): Case study: Chronic pain management options where there are no opioids

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## 15: CARDIAC AND VASCULAR ANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 16:00–16:45, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Cardiac and Vascular Anaesthesia  
**Learning objectives:** Challenging bleeding scenarios in high-risk cardiac surgery
- Identify preoperatively the patients with high risk of bleeding after cardiac surgery.
  - Interpret the results of point-of-care coagulation tests and distinguish different bleeding scenarios upon separation from cardiopulmonary bypass.
  - Formulate treatment options for bleeding after high-risk cardiac surgery.
  - Justify the use of diagnosis and treatment algorithms for bleeding after high-risk cardiac surgery.
- SPEAKER:** **Daniela Filipescu** (Bucharest, Romania): Case study: Challenging bleeding scenarios in high-risk cardiac surgery, the patient is a 64-year-old female who presents for urgent re-operative cardiac surgery secondary to prosthetic aortic valve endocarditis and aortic root abscess. She is 3 months post aortic valve replacement for aortic stenosis



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## 16: OBSTETRIC ANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 17:15–18:00, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Obstetric Anaesthesia  
**Learning objectives:** Post-Caesarean Analgesia
- Discuss the various elements contributing to enhanced recovery after cesarean delivery.
  - Recognize factors associated with increased pain and analgesic use after cesarean delivery and appraise the importance of tailored approaches.
  - Setup strategies promoting stepwise multimodal analgesia while reducing opioid intake after cesarean delivery, within the participants' clinical setting.
- SPEAKER:** **Ruth Landau** (New York, United States): Case study: Post-Caesarean Analgesia (20 minutes)

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## 17: NEUROANAESTHESIA

FRIDAY, SEPTEMBER 3, 2021, 18:30–19:15, PBLD CHANNEL

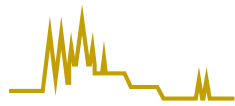
- Session format:** PBLD  
**Session title:** Neuroanaesthesia  
**Learning objectives:** Perioperative Management of Vertebrobasilar Stroke with Severe Brain Edema in a LMIC
- Comprehend the implications of perioperative management in vertebrobasilar stroke with severe brain edema and Anaesthesiologist's role for limited resource settings, with respect to
    - Pre-admission scenario
    - OR: performing a ventricular drainage / decompressive craniectomy
    - ICU
    - Rehab
  - Discuss benefits and risks of an early decompressive craniectomy.
  - Define prevention, detection, and management of penumbra zones.
  - List options for neuro-monitoring for vertebrobasilar stroke with severe brain Edema in limited resource settings
- SPEAKER:** **Carolina Haylock-Loor** (San Pedro Sula, Honduras): Case study: Perioperative Management of Vertebrobasilar Stroke with Severe Brain Edema in a LMIC

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## 18: INTENSIVE CARE AND RESUSCITATION

SATURDAY, SEPTEMBER 4, 2021, 08:00–08:45, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Intensive Care and Resuscitation  
**Learning objectives:** Recurrent pulmonary embolism in severe ARDS
- List the indication and contraindication of thrombolysis in pulmonary embolism.
  - Discuss the use of ECPR in refractory shock due to severe pulmonary embolism.
  - Define the use of VA and VV ECMO dependent on the severity of cardio circulatory and/ or respiratory failure.
  - Follow principles of therapy of ARDS adapted to its severity.
  - Comprehend the principles of antimicrobial therapy in severe community acquired pneumonia.
- SPEAKER:** **Thea Koch** (Dresden, Germany): Case study: Recurrent pulmonary embolism in severe ARDS



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## 19: TRAUMA ANAESTHESIA

SATURDAY, SEPTEMBER 4, 2021, 09:15–10:00, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Trauma Anaesthesia  
**Learning objectives:** Traumatic Brain Injury (TBI)
- Discuss the key components of primary survey in a major trauma.
  - Classify the acute TBI and explain the epidemiology of specific injuries.
  - Enunciate and understand the main targets and thresholds of TBI management.
  - Recognize indications for major emergent decompressive craniotomy.
  - Recall the main effects of anaesthesia in neurophysiology and discuss the best anaesthetic/analgesic approach.
  - Discuss monitoring recommendations and advantages of advanced cerebral monitoring in the OR and in the ICU.
  - Explain how to prevent and treat intracranial hypertension.
  - Discuss the incidence, pathogenesis, and treatment options of coagulopathy after TBI.
  - Describe the main goals of TBI management in the ICU.
  - Enunciate the differences in the approach of raised intracranial pressure in children with TBI.
- SPEAKER:** **Tania Ralha** (Coimbra, Portugal): Case study: Traumatic Brain Injury (TBI)

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## 20: THORACIC ANAESTHESIA

SATURDAY, SEPTEMBER 4, 2021, 10:30–11:15, PBLD CHANNEL

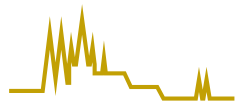
- Session format:** PBLD  
**Session title:** Thoracic Anaesthesia  
**Learning objectives:** Hemorrhagic Shock During a VATS Thymectomy
- Plan preoperative assessment and intraoperative management for the patient with myasthenia gravis
  - Discuss perioperative risk for the myasthenia patient.
  - Compare advantages and disadvantages between less invasive and open thoracic procedures.
  - Recall vascular anatomy important for interventions in the thoracic cavity.
  - Recognize possible postoperative complications after VATS surgery.
  - Explain massive transfusion protocol.
  - Describe viscoelastic coagulation tests (point of care monitoring).
- SPEAKER:** **Vojislava Neskovic** (Belgrade, Serbia): Case study: young patient, presented for VATS thymectomy. After surgery, massive bleeding due to injured truncus brachiocephalicus. Emergency surgery. Resuscitation of hemorrhagic shock

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## 21: PATIENT SAFETY

SATURDAY, SEPTEMBER 4, 2021, 11:45–12:30, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Patient Safety  
**Learning objectives:** Medication Error Leading to Epidural Opioid Overdose
- Describe the different tools to learn and avoid repetition of an adverse event.
  - Recognize the value of transparency with patients and relatives and care for the second victim after a serious adverse event.
  - Analyse the main contributory factors intervening in the case.
  - Devise the corrective actions to tackle the identified contributory factors.
- SPEAKER:** **Daniel Arnal** (Alcorcon, Spain): Case study: Medication error leading to epidural opioid overdose. An ICU PO patient receives epidural morphine instead of 0,125% bupivacaine due to a concatenation of system failures, a nurse error and lack of supervision



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## 22: TRAUMA ANAESTHESIA

SATURDAY, SEPTEMBER 4, 2021, 14:45–15:30, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Trauma Anaesthesia  
**Learning objectives:** Massive Hemorrhage after Major Trauma
- Understand the necessity of adequate out-of-hospital emergency medicine.
  - Be aware of pathophysiology of hemorrhage coagulopathy and basics of damage control surgery.
  - Know the basics of massive transfusion strategies.

**SPEAKER:** **Kurt Ruetzler** (Cleveland, United States): Case study: massive hemorrhage after major trauma

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## 23: INTENSIVE CARE AND RESUSCITATION

SATURDAY, SEPTEMBER 4, 2021, 16:00–16:45, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Intensive Care and Resuscitation  
**Learning objectives:** A Post-Partum Woman with Abdominal Pain, Cardiomyopathy of Pregnancy, and ECMO
- Cite the differential diagnosis of peripartum shock.
  - Evaluate severity of clinical condition in pregnant and peripartum women.
  - Apply the correct principles of hemodynamic management in cardiogenic and vasoplegic shock.

**SPEAKERS:** **Sharon Einav** (Jerusalem, Israel): A post partum woman with abdominal pain and tachycardia (leading to cardiomyopathy of pregnancy and ECMO with discussion of diagnosis and delivery and ICU management)

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## 24: PATIENT SAFETY

SATURDAY, SEPTEMBER 4, 2021, 17:15–18:00, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Patient Safety  
**Learning objectives:** Difficult Intubation Following a Cervical Hematoma
- Recognize the importance of human factor vs technical skills when facing a crisis.
  - Describe the team organization options to improve the outcome of a crisis.
  - Formulate the communication strategies to achieve a common mental model to face the crisis.
  - Assess the need of situation awareness, continuous reevaluation and changing priorities to adapt to the situation.

**SPEAKERS:** **Maytinee Lilaonitkul** (San Francisco, United States): Case study: Difficult intubation following a cervical haematoma Following a cervical spine surgery a patient developed rapidly neck haematoma that compromises his life. A team of 3 anaesthetists struggles to coordinate

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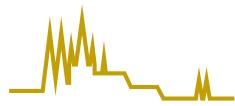
## 25: THORACIC ANAESTHESIA

SATURDAY, SEPTEMBER 4, 2021, 18:30–19:15, PBLD CHANNEL

- Session format:** PBLD  
**Session title:** Thoracic Anaesthesia  
**Learning objectives:** A patient presenting for ERAS Lobectomy.
- Discuss the preoperative optimization strategy for patient undergoing ERAS for lung resection surgery.
  - Discuss intraoperative fluid management in the context of ERAS in lung surgery.
  - Discuss strategies of protective lung ventilation.
  - Understand multimodal pain management strategies in the context of ERAS in lung surgery.
  - Discuss the post-operative goals of care lung resection surgery.

**SPEAKER:** **Wanda M. Popescu** (New Haven, United States): Case study: A patient presenting for ERAS Lobectomy Objectives





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## 26: REGIONAL ANAESTHESIA

SUNDAY, SEPTEMBER 5, 2021, 11:15–12:00, PBLD CHANNEL

- Session format:** PBLD
- Session title:** Regional Anaesthesia
- Learning objectives:** Regional Anaesthesia for a 60-year-old patient with Hypertension, Diabetes, Coronary artery disease coming for a Shoulder Arthroscopy surgery.
- List the optional regional blocks for shoulder surgery and their complications.
  - Identify ways to avoid complications.
  - Propose surgical positioning for shoulder surgery and their consequences.
  - Formulate postoperative treatment options for pain.
- SPEAKER:** **Balavenkatasubramanian Jagannatan** (Coimbatore, India): Regional Anaesthesia for a 60-year-old patient with Hypertension, Diabetes, Coronary artery disease coming for a Shoulder Arthroscopy surgery