

**International Symposium on Spine and Paravertebral Sonography
for Anaesthesia and Pain Medicine 2021
Live Webinar Series**

| issps 2021 Webinar Series: Webinar I | | | | | | |
|---|--|---|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| 14 August 2021 (Saturday) | | Ultrasound for Central Neuraxial Blocks - Lumbar Region. | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 19:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong, China.</i> | | | | | |
| 00:15-00:45h | Functional Anatomy Relevant for Central Neuraxial Blocks (Spinal and Epidural) in the Lumbar Region. <i>Dr. Bernhard Moriggl, Austria.</i> | | | | | |
| 00:45-01:15h | Microanatomy of the Ligamentum Flavum and related Spinal Ligaments, Spinal Meninges, Dural sac and Cauda equina. <i>Dr. Miguel A Reina, Spain</i> | | | | | |
| 01:15-01:45h | Computerized Tomographic and Magnetic Resonance Imaging Anatomy of the Lumbar Spine Relevant for Central Neuraxial Blocks. <i>Dr. Kenneth, Sheah, Singapore.</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Ultrasound Imaging of the Lumbar Spine Relevant for Central Neuraxial Blocks. <i>Dr. M.K. Karmakar</i> | | | | | |
| 02:30-03:00h | Technical Consideration for Real-time Ultrasound Guided Lumbar Epidural, Intrathecal (Spinal) and Combined Spinal-epidural (CSE) Injections. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 03:00-03:30h | Ultrasound Imaging of the Lumbar Spine Relevant for Central Neuraxial Blocks: Sonoanatomy Demonstration in Volunteers. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 03:30-04:00h | Q&A Session | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar II | | | | | | |
|--|--|---|-----------------------------|------------------------------|--------------------------|--------------------------------|
| 28 August 2021 (Saturday) | | Ultrasound for Epidural and Paravertebral Injection – Thoracic Region. | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00 h | Sydney 19:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 00:15-00:45h | Functional Anatomy Relevant for Thoracic Epidural and Paravertebral Injection. <i>Dr. Bernhard Moriggl, Austria.</i> | | | | | |
| 00:45-01:15h | Computerized Tomographic and Magnetic Resonance Imaging Anatomy of the Thoracic Spine Relevant for Epidural and Paravertebral Injections. <i>Dr. Kenneth Sheah, Singapore.</i> | | | | | |
| 01:15-01:45h | Ultrasound Imaging of the Thoracic Spine and Epidural Injection Technique. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Ultrasound Imaging of the Thoracic Paravertebral Region and Injection Techniques. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 02:30-03:00h | Ultrasound Imaging Relevant for Thoracic Epidural and Paravertebral Injection: Sonoanatomy Demonstration in Volunteers. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 03:00-03:30h | Q&A Session | | | | | |
| 03:30-03:45h | Wrap up and end of session | | | | | |
| Session Supported by | | | | | | |

| issps 2021 Webinar Series: Webinar III | | | | | | |
|---|---|--|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| 04 September 2021 (Saturday) | | Ultrasound for Central Neuraxial and Paravertebral Injection in the Parturient and Patients with Difficult Spine. | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 19:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 00:15-00:45h | Ultrasound Imaging of the Spine in the Morbidly Obese and Injection Techniques. <i>Dr. Jaime Baratta, USA</i> | | | | | |
| 00:45-01:15h | Ultrasound for Central Neuraxial Blocks in the Obstetric population. <i>Dr. Brendan Carvalho, USA.</i> | | | | | |
| 01:15-01:45h | Understanding the Pathophysiology of the Difficult Spine in patients with Scoliosis, Ankylosing spondylitis, Osteoarthritis and Rheumatoid arthritis. <i>Dr. Kenneth Sheah, Singapore</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Ultrasound for Neuraxial Blocks in Patients with Abnormal Spine – Scoliosis and Instrumented backs. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 02:30-03:00h | Ultrasound Guided Central Neuraxial and Paravertebral Injection in patients with Difficult Spine –Video Presentation. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 03:00-03:30h | Q&A Session | | | | | |
| 03:30-03:45h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar IV | | | | | | |
|--|--|------------------|---------------------|---------------------|------------------|------------------------|
| 18 September 2021 Webinar IV. Ultrasound for Neuraxial and Paravertebral Injections – Cervical, Lumbar and Sacral Region. (Saturday) | | | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 19:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong, China.</i> | | | | | |
| 00:15-00:45h | Functional Anatomy of the Cervical Spine and Paravertebral Region Relevant for Injection Techniques in Pain Medicine. <i>Dr. Georg Feigl, Germany.</i> | | | | | |
| 00:45-01:15h | Ultrasound Imaging of the Cervical Spine and Paravertebral Region and Injection Techniques (includes Cervical Epidural, Cervical Facet, Medial branch, Cervical nerve root and peri-foraminal arteries, Greater and Lesser Occipital Nerve). <i>Dr. Shankar Hariharan, USA.</i> | | | | | |
| 01:15-01:45h | Functional Anatomy of the Lumbar Paravertebral Region and Sacral Spine. <i>Dr. Georg Feigl, Germany.</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Ultrasound Imaging of the Lumbar Paravertebral Region and Injection Techniques (Lumbar plexus block). <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 02:30-03:00h | Ultrasound Imaging of the Sacrum and Injection Techniques (includes Caudal epidural, Sacral Transforaminal, SI Joint, and Piriformis Injection). <i>Dr. C.P. Lin, Taiwan.</i> | | | | | |
| 03:00-03:30h | Q&A Session | | | | | |
| 03:30-04:00h | Ultrasound Imaging for Cervical Spine and Paravertebral Region Relevant for Injection Techniques (includes Cervical Intervertebral Level Determination, Cervical Epidural, Cervical Facet, Medial branch, Cervical nerve root and peri-foraminal arteries, Greater and Lesser Occipital Nerve): Sonoanatomy Demonstration in Volunteers. <i>Dr. Stanley Lam, Hong Kong</i> | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar V | | | | | | |
|--|---|------------------|---------------------|---------------------|------------------|------------------------|
| 02 October 2021 Ultrasound Guided Injection Techniques for Common Chronic Pain Syndromes. (Saturday) | | | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 19:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong, China.</i> | | | | | |
| 00:15-00:45h | Ultrasound Guided Interventions for Cervicogenic Headache and Facial Pain. <i>Dr. C.P. Lin, Taiwan</i> | | | | | |
| 00:45-01:15h | Ultrasound Guided Interventions for Low Back Pain: (lumbar approach: includes medial branch block including L5 dorsal ramus block, facet joint injection, Selective lumbar nerve root injection, and Quadratus lumborum injection). <i>Dr. Manfred Greher, Austria.</i> | | | | | |
| 01:15-01:45h | Ultrasound Guided Peripheral Nerve Stimulation for the Treatment of Chronic Pain. <i>Dr. Amitabh Gulati, USA</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Ultrasound Guided Block of the Maxillary and Mandibular Nerve and Their Branches – The Lateral Pterygoid Plate Approach. <i>Dr. Yasuyuki Shibata, Japan</i> | | | | | |
| 02:30-03:00h | Ultrasound Guided Nerve Blocks for Chronic Pelvic Pain. <i>Dr. Philip Peng, Toronto, Canada</i> | | | | | |
| 03:00-03:30h | Q&A Session | | | | | |
| 03:30-04:00h | Ultrasound Guided Block of the Maxillary, Mandibular and Ophthalmic Nerves and or their Branches: Sonoanatomy Demonstration in Volunteers. <i>Dr. Yasuyuki Shibata, Japan.</i> | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar VI | | | | | | |
|--|--|------------------|---------------------|---------------------|------------------|------------------------|
| 16 October 2021 Webinar VI. When High-Definition Ultrasound Imaging Meets Microanatomy. (Saturday) | | | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 20:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 00:15-00:45h | Functional Anatomy of the Brachial Plexus and Common Anatomical Variations. <i>Dr. Georg Feigl, Austria.</i> | | | | | |
| 00:45-01:15h | Microanatomy of the Brachial Plexus and Potential Implication for Brachial Plexus Blockade. <i>Dr. Andre Pier Boezaart, South Africa.</i> | | | | | |
| 01:15-01:45h | The Paraneural (Circumneural) Sheath and Fascial Compartments of the Brachial Plexus: A Myth or A Reality. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Functional Anatomy of the Sciatic Nerve and Common Anatomical Variations. <i>Dr. Georg Feigl, Austria.</i> | | | | | |
| 02:30-03:00h | Microanatomy of the Sciatic Nerve and Implications for Popliteal Sciatic Nerve Blockade. <i>Dr. M.A Reina, Spain.</i> | | | | | |
| 03:00-03:30h | Subparaneural Popliteal Sciatic Nerve Block – The Untold Story. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 03:30-04:00h | Q&A Session | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar VII | | | | | | |
|--|---|--------------------------|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| 30 October 2021 (Saturday) Ultrasound Imaging of the Upper Extremity Nerves and Injection Techniques. | | | | | | |
| Hong Kong 17:00h | New York 05:00h | London 10:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 20:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong, China.</i> | | | | | |
| 00:15-00:45h | Sequential Ultrasound Imaging Technique (SUIT) to Identify the Individual Elements of the Brachial Plexus Above the Clavicle. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 00:45-01:15h | Ultrasound Imaging to Identify the Individual Elements of the Brachial Plexus Below the Clavicle (costoclavicular, medial and lateral infraclavicular, and axilla). <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 01:15-01:45h | Ultrasound Imaging to Identify the Small Peripheral Nerves of the Upper Extremity (includes dorsal scapular, suprascapular, long thoracic, thoracodorsal, and intercostobrachial nerves). <i>Dr. Ke-Vin Chang, Taiwan</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Selective Trunk Block (SeTB) - An All Purpose Regional Anesthetic Technique for Upper Extremity Surgery. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 02:30-03:00h | Costoclavicular Brachial Plexus Block: All You Need to Know. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 03:00-03:30h | Ultrasound Imaging of the Individual Elements of the Brachial Plexus – Roots, Trunks, Divisions, Cords and Nerves (median, radial, ulnar, and musculocutaneous): Live Demonstration in Volunteers. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 03:30-04:00h | Q&A Session | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar VIII | | | | | | |
|---|---|--------------------------|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| 13 November 2021 (Saturday) Thoracic Blocks for Perioperative Analgesia: Thoracic Epidural, Thoracic Paravertebral and Erector Spinae Plane Block. | | | | | | |
| Hong Kong 17:00h | New York 04:00h | London 09:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 20:00h | Buenos Aires 06:00h |
| 00:00: 00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 00:15-00:45h | Anatomy of the Thoracic Paravertebral Space: 3D Micro-CT Findings and their Clinical Implications for Nerve Blockade. <i>Dr. Yang HM, South Korea</i> | | | | | |
| 00:45-01:15h | Erector Spinae Plane Block: Sonoanatomy, Techniques and Mechanism of Action. <i>Dr. Michael Barrington, Australia</i> | | | | | |
| 01:15-01:45h | Thoracic Paravertebral Block: Sonoanatomy, Techniques and Mechanism of Action. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 01:45-02:15h | Thoracic Epidural Anesthesia and Analgesia Should be the Technique of Choice for Unilateral Pain or Surgical Procedures in the Thorax (Multiple Fractured Ribs, Primary Breast Cancer Surgery, Video assisted thoracoscopic surgery and Thoracotomy). <i>Dr. Andre Pier Boezaart, South Africa.</i> | | | | | |
| 02:15-02:30h | Short Break with the Sponsor | | | | | |
| 02:30-03:00h | Thoracic Paravertebral Block Should be the Technique of Choice for Unilateral Pain or Surgical Procedures in the Thorax (Multiple Fractured Ribs, Primary Breast Cancer Surgery, Video assisted thoracoscopic surgery and Thoracotomy). <i>Dr. Per-Arne Lönnqvist Sweden.</i> | | | | | |
| 03:00-03:30h | Erector Spinae Plane Block Should be the Technique of Choice for Unilateral Pain or Surgical Procedures in the Thorax (Multiple Fractured Ribs, Primary Breast Cancer Surgery, Video assisted thoracoscopic surgery, and Thoracotomy). <i>Dr. Yavuz Gurkan, Turkey.</i> | | | | | |
| 03:30-04:00h | Q&A Session | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Session Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar IX | | | | | | |
|---|--|--------------------------|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| 27 November 2021 (Saturday) Regional Anesthesia: Variety is the Spice of Life. | | | | | | |
| Hong Kong 17:00h | New York 04:00h | London 09:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 20:00h | Buenos Aires 06:00h |
| 00:00: 00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong, China.</i> | | | | | |
| 00:15-00:45h | Ultrasound Assessment of Hemidiaphragmatic Function and Phrenic Nerve Sparing Blocks for Upper Extremity Surgery (Shoulder, Arm, Elbow and Hand). <i>Dr. Justin Ko, South Korea.</i> | | | | | |
| 00:45-01:15h | Thoracic Paravertebral Block for Surgical Anaesthesia During Primary Breast Cancer Surgery: There is More to it Than Meets the Eye. <i>Dr. M.K. Karmakar, Hong Kong.</i> | | | | | |
| 01:15-01:45h | Innervation of the Knee Joint and Best Practices for Postoperative Analgesia after Total Knee Arthroplasty. <i>Dr. Shinichi Sakura, Japan</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsor | | | | | |
| 02:00-02:30h | Supra-inguinal Fascia Iliaca Block for Perioperative Analgesia after Total Hip Arthroplasty. <i>Dr. K. Vermeylen, Belgium.</i> | | | | | |
| 02:30-03:00h | Innervation of the Hip Joint and PENG block for Hip Fracture and Hip Surgery. <i>Dr. Philip Peng, Toronto, Canada</i> | | | | | |
| 03:00-03:30h | Inoperable Hip Fracture – Chemical Hip Denervation. <i>Dr. Kwun-Tung Ng Tony, Hong Kong</i> | | | | | |
| 03:30-04:00h | Q&A Session | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Webinar Supported by TBA | | | | | | |

| issps 2021 Webinar Series: Webinar X | | | | | | |
|--|--|------------------|---------------------|---------------------|------------------|------------------------|
| 04 December 2021 Point of Care Ultrasound (PoCUS) for Anesthesiologists (Saturday) | | | | | | |
| Hong Kong 17:00h | New York 04:00h | London 09:00h | New Delhi 14:30h | Singapore 17:00h | Sydney 20:00h | Buenos Aires 06:00h |
| 00:00-00:15h | Welcome Address. <i>Dr. M.K. Karmakar, Hong Kong</i> | | | | | |
| 00:15-00:45h | Point of Care Lung Ultrasound. <i>Dr. Sharidan Fathil, Malaysia</i> | | | | | |
| 00:45-01:15h | Focused Cardiac Ultrasound (FoCUS) for the Regional Anesthesiologist. <i>Dr. Jan Boublik, USA</i> | | | | | |
| 01:15-01:45h | Point of Care Airway Ultrasound. <i>Dr. Ban Tsui, USA</i> | | | | | |
| 01:45-02:00h | Short Break with the Sponsors | | | | | |
| 02:00-02:30h | Point of Care Gastric Ultrasound. <i>Dr. Vincent Chan, Canada</i> | | | | | |
| 02:30-03:00h | Point of Care Ultrasound Shock Protocol for Anesthesiologists. <i>Dr. Adi Osman, Malaysia</i> | | | | | |
| 03:00-03:30h | Q&A Session | | | | | |
| 03:30-04:00h | Live Demonstration in Volunteers: <ul style="list-style-type: none"> 1. PoCUS Airway and Lung. <i>Dr. Sharidan Fathil, Malaysia</i> 2. Focused Cardiac Ultrasound and PoCUS Shock Protocol. <i>Dr. Adi Osman, Malaysia</i> | | | | | |
| 04:00-04:15h | Wrap up and end of session | | | | | |
| Webinar Supported by TBA | | | | | | |