**APCSS 2019** 第13屆 亞太頸椎醫學會

時間：2019年11月8日(星期五)早上8點至晚上6點~

2019年11月9日(星期六)早上8點至下午4點

地點：高雄國賓飯店 二樓國際廳(高雄市前金區民生二路202號)

**November 7th 2019**

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| 18:00~21:00 | **【Welcome Dinner】**  **iRiver**  1st FL - Ambassador Hotel Kaohsiung |

**November 8th 2019**  **International Hall** 2nd FL - Ambassador Hotel Kaohsiung

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| 08:00~08:40 | **Executive Meeting of APCSS** |
| 08:40~09:00 | **Welcome and Open Remarks** |

**【Keynote Speech】**

**Moderator: Keung-Nyun Kim (Korea) / Hiroyuki Nakase (Japan) / Cheng-Hsing Kao(Taiwan)**

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| Time | **Topic** | | **Speaker** |
| 09:00~09:12 | Control of Reactive Astrocyte in Spinal Cord Injury. | | Yoon Ha  Korea |
| 09:12~09:24 | Options of Minimally Invasive Procedures for Cervical Spondylotic Myelopathy and Radiculopathy. | | Junichi Mizuno  Japan |
| 09:24~09:36 | The Surgical Strategies for Cervical Spinal Stenosis Caused by OPLL. | | Wen-Cheng Huang  Taiwan |
| 09:36~09:48 | Stabilization with the Dynamic Cervical Implant, A Novel Treatment Approach Following Cervical Discectomy and Decompression. | | Marcus Eif  Germany |
| 09:48~10:00 | Avoiding Complications in Cervical Disc Surgery. | | James Siah Heng Tan  Singapore |
| 10:00~10:10 | Q and A. | |  |
| 10:10~10:30 | | **Coffee Break** | |

**【Degenerative Cervical Spine Ⅰ- Anterior Approach】**

**Moderator: Hyun-Chul Shin (Korea) / Wen-Cheng Huang (Taiwan)**

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| Time | **Topic** | **Speaker** |
| 10:30~10:36 | The Outcome of Multi-level ACDF. | Chang Hwa Ham  Korea |
| 10:36~10:42 | Radiographic Analysis Comparison of Cervical Alignment after Variable Level of ACDF. | Tuanrit Sornsa-ard  Thailand |
| 10:42~10:48 | Outcomes of Anterior Cervical Fusion Using Polyetheretherketone Cage with Demineralized Bone Matrix and Plate for Management of Subaxial Cervical Spine Injuries. | Moon Soo Han  Korea |
| 10:48~10:54 | The Effect of Hauns Field Unit Value with Conventional Computed Tomography on Subsidence in Patients Following Stand-alone Anterior Cervical Discectomy and Fusion. | Jun Seok Lee  Korea |
| 10:54~11:00 | Is Right-Side Anterior Cervical Approach Is More Risky Than Left-side Approach? From the Frequency of Aortic Arch Anomaly as the Risk Factor of Recurrent Nerve Injury. | Ryuichi Fujita  Japan |
| 11:00~11:06 | Segmental Motion of the Cervical Spine after Total Disc Replacement Using Active C Versus Discectomy and Fusion Using Stand-alone Cage. | Bumjoon Kim  Korea |
| 11:06~11:15 | Q and A. |  |

**【Cervical OPLL】**

**Moderator: Ki-Jeong Kim (Korea) / Shashank Sharad Kale (India)**

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| Time | **Topic** | | **Speaker** |
| 11:15~11:21 | Comparison of Complications and Reoperations between Laminectomy with Instrumented Fusion and Laminoplasty in Surgical Treatment of Cervical Ossification of the Posterior Longitudinal Ligament: A Result of Multicenter Retrospective Study. | | Jong Joo Lee  Korea |
| 11:21~11:27 | Correlation between Surgical Outcomes and Severity of Myelopathy in Ossification of Posterior Longitudinal Ligament Patients: Multicenter Retrospective Data Set of 480 Subjects. | | Hyeongseok Jeon  Korea |
| 11:27~11:33 | Anterior and Posterior Segmental Decompression and Fusion for Severely Localized Cervical OPLL. | | Toshihiro Takami  Japan |
| 11:33~11~39 | Factors Associated with Surgical Outcomes of Cervical Ossification of the Posterior Longitudinal Ligament. | | Farid Yudoyono  Indonesia |
| 11:39~11:45 | The Significance of Classification of Cervical OPLL Based on the Coexistence of Segmental Disc Degeneration. | | Junki Lee  Korea |
| 11:45~11:51 | Management of Dural Defects and Cerebrospinal Fluid Leak During Cervical Corpectomy for Ossified Posterior Longitudinal Ligament | | Ting-Chung Wang  Taiwan |
| 11:51~12:00 | Q and A. | |  |
| 12:00~13:00 | | **【Lunch Seminar】**  **Bone Remodeling Osteoporosis Treatment**  **Speaker: Jenn-Huei Renn (Taiwan)** | |

**【Keynote Speech】**

**Moderator: Se-Hoon Kim (Korea) / Korku Chiengthong (Thailand)**

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| Time | **Topic** | **Speaker** |
| 13:00~13:10 | Revolutions of Spinal Cord Reconstruction Using Microsurgery and Cell Therapy. | Yuan-Kun Tu  Taiwan |
| 13:10~13:20 | Treatment of Multilevel Cervical Myelopathy: Anterior or Posterior Approaches? | Chiung-Chyi Shen  Taiwan |
| 13:20~13:30 | Cervical Total Disc Replacement (C-TDR): 13 Years Experiences. | Keun-Su Kim  Korea |
| 13:30~13:40 | Cervical Disc Arthroplasty- Sharing Personal Experience Implanting More than 650 Discs. | Hsi-Kai Tsou  Taiwan |
| 13:40~13:50 | Q and A. |  |

**【Degenerative Cervical Spine Ⅱ- Anterior Approach】**

**Moderator: Keun-Su Kim (Korea) / Walid Attia (Kingdom of Saudi Arabia)**

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| Time | **Topic** | **Speaker** |
| 13:50~13:56 | Comparison of the Effectiveness of Bioactive Glass Ceramic to Allobone Cages in Anterior Cervical Discectomy and Fusion with Anterior Plate Fixation. | Hyung Cheol Kim  Korea |
| 13:56~14:02 | Risk Factors of Allogenous Bone Graft Collapse in Two-level Anterior Cervical Discectomy and Fusion. | Sung Hyun Bae  Korea |
| 14:02~14:08 | The Effect of Facet Shape on Subsidence after Single-level ACDF Using Stand-alone Peek Cages. | Chi Hyung Lee  Korea |
| 14:08~14:14 | Clinical Outcome and Changes of Foraminal Dimension and Disc Height in Patients with Cervical Spine Stenosis after ACDF with Allograft Spacer. | Gwangjun Lee  Korea |
| 14:14~14:20 | Relationship between Cervical Sagittal Alignment and Patient Outcomes after Anterior Cervical Fusion Surgery Involving 3 or More Levels. | Ki-Jeong Kim  Korea |
| 14:20~14:30 | Q and A. |  |

**【Atlantoaxial Instability】**

**Moderator: Woo-Kyung Kim (Korea) / Chiung-Chyi Shen (Taiwan)**

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| Time | **Topic** | **Speaker** |
| 14:30~14:36 | Independent Correlation of the C1-2 Cobb Angle with Patient-reported Outcomes after Correcting Chronic Atlantoaxial Instability. | Yoon Ha  Korea |
| 14:36~14:42 | Screw Placement Accuracy and Outcomes Following Using O-arm Navigated C1-C2 Fusion in Atlantoaxial Instability. | Keung-Nyun Kim  Korea |
| 14:42~14:48 | Updated Precision Surgery; Screw Placement Accuracy and Technical Tips in the Posterior Atlantoaxial Fusion Using the Newest Generation of O-arm 2 and Navigation System. | Seong Yi  Korea |
| 14:48~14:54 | Cervical Spine Epidural Hematoma Distinguished from Cardiovascular Diseases at Emergency Room. | Hiroshi Kageyama  Japan |
| 14:54~15:00 | Surgical Treatment for the Patients with the Upper Cervical Fractures. | Hiroaki Matsumoto  Japan |
| 15:00~15:10 | Q and A. |  |

**【Degenerative Cervical Spine Ⅲ- Posterior Approach】**

**Moderator: Seok-Woo Kim (Korea)**

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| Time | **Topic** | | **Speaker** |
| 15:10~15:16 | Unilateral Laminectomy for Bilateral Decompression by Unilateral Bi-Portal Endoscopy for Cervical Spondylotic Myelopathy. | | Han-jin Jang  Korea |
| 15:16~15:22 | Unilateral Biportal Endoscopic Cervical Laminoforaminotomy: An Initial Clinical Experience. | | Han-jin Jang  Korea |
| 15:22~15:28 | A Systematic Review of Newly Designed Radiological Factors for Predict Postoperative Kyphotic Change after Laminoplasty. | | Dong Wuk Son  Korea |
| 15:28~15:34 | The Value of SPECT CT in Early Detection of Adjacent Segment Degeneration in Lumbar Fusion and Predictability in Correlation with Spine Biomechanical Parameters. | | Seong Yi  Korea |
| 15:34~15:40 | Customized Design of 3D Printing Template in Cervical Surgery - Preliminary Experience in NCKUH. | | Shih-Huang Tai  Taiwan |
| 15:40~15:50 | Q and A. | |  |
| 15:50~16:00 | | **Coffee Break** | |

**【Degenerative Cervical Spine Ⅳ- Posterior Fixation】**

**Moderator: Yoon Ha (Korea) / Shu-Shong Hsu (Taiwan)**

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| Time | **Topic** | | **Speaker** |
| 16:00~16:10 | Analysis of Failed Cervical Total Disc Replacement (TDR) Cases. | | Kyoung-Suok Cho  Korea |
| 16:10~16:20 | Collaboration of OPLL Management with Patient Association and Spine Surgeon in Korea. | | Yong Eun Cho  Korea |
| 16:20~16:26 | Prospective Multicenter Study of a Multistep Screw Insertion Technique Using Patient-specific Screw Guide Templates for the Cervical Spine. | | Taku Sugawara  Japan |
| 16:26~16:32 | Development of a Very Reliable Technique for Cervical Pedicle Screw Insertion with O-arm-Based 3D Navigation. | | Takahisa Kaneko  Japan |
| 16:32~16:38 | The Sagittal Alignments and Safety by the Use of Cervical Pedicle Screws and 5.5 mm Diameter Rods in Cervicothoracic Junction Pathology. | | Myeongjong Kim  Korea |
| 16:38~16:44 | Familial Os Odontoideum: Proatlas Segmentation Abnormality. | | Hidetoshi Sato  Japan |
| 16:44~16:55 | Q and A. | |  |
| Zimmer Biomet Institute Course | | | |
| 【Debate- Cervical Anterior or Posterior Approach: Which is Better?】  Moderator: Chao-Jan Wang (Taiwan) | | | |
| Time | **Topic** | | **Speaker** |
| 16:55~17:00 | Audience Response System. | | All |
| 17:00~17:10 | Anterior Approach is More Effective. | | Fon-Yih Tsuang  Taiwan |
| 17:10~17:20 | Posterior Approach can Solve the Root Cause. | | John Chen  Singapore |
| 17:20~17:25 | Crossfire. | | Fon-Yih Tsuang &  John Chen |
| 17:25~17:35 | Q and A. / Audience Response System and Closing. | | All |
| 18:00~21:00 | | **【Gala Dinner】**  **International Hall**  2nd FL - Ambassador Hotel Kaohsiung | |

**November 9th 2019**

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| Zimmer Biomet Institute Course | | |
| 【Next Challenge in Cervical Spine Disorders】  Moderator: Chien-Min Lin (Taiwan) / Hsu-Chao Chen (Taiwan) | | |
| Time | **Topic** | **Speaker** |
| 08:00~08:10 | The Evolution of Cervical Spine Implant Materials: Focusing on the Artificial Disc. | Hsi-Kai Tsou  Taiwan |
| 08:10~08:20 | HO Prevention. | Chih-Lung Lin KMUH  Taiwan |
| 08:20~08:30 | Cervical Laminoplasty for Deformity. | Chih-Ju Chang  Taiwan |
| 08:30~08:40 | Surgical Tips and Tricks for Cervical Deformity. | Wen-Tien Wu  Taiwan |
| 08:40~08:50 | How to Deal with Spinal Tumor? | Jih-Tsun Ho  Taiwan |
| 08:50~09:00 | Q and A. |  |

**【Keynote Speech】**

**Moderator: Dean Chou (United States) / Kung-Shing Li (Taiwan)**

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| Time | **Topic** | | **Speaker** |
| 09:00~09:10 | Cervical Spine Instability Reconstruction with 3D Printed Prosthesis after Spondylectome. | | Thierry Liu  China |
| 09:10~09:20 | Percutaneous Plasma Disc Decompression for Cervical Discogenic Pain Problem. | | Alfred Sutrisno  Indonesia |
| 09:20~09:30 | A Randomised Controlled Trial Comparing Outcome of Cage Versus Tricortical Bone Graft for Anterior Cervical Discectomy and Fusion. | | Rajiv Maharjan  Nepal |
| 09:30~09:40 | Dynamic Stabilization with DCI as An Alternative to Cage Fusion and Total Disc Replacement. | | Marcus Eif  Germany |
| 09:40~09:50 | Anterior Cervical Discectomy and Fusion Using Structural Allograft or Polyetheretherketone (PEEK): Pseudoarthrosis and Revision Surgery Rates with Minimum 2-year Follow Up. | | Dean Chou  United States |
| 09:50~10:00 | Q and A. | |  |
| 10:00~10:20 | | **【Coffee Break / Seminar】**  **Lyrica Application in SCI Caused Neuropathic Pain**  **Moderator: Meng-Ling Lu (Taiwan)**  **Speaker: Tung-Yi Lin (Taiwan)** | |

**【Cervical Spine Tumor and Nerve Lesions】**

**Moderator: Thavat Prasartritha (Thiland) / Ming-Chao Huang (Taiwan)**

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| Time | **Topic** | **Speaker** |
| 10:20~10:26 | Comprehensive Neurosurgical Strategy for Bow Hunter’s Stroke. | Hiroyuki Nakase  Japan |
| 10:26~10:32 | Indocyanine Green Fluorescent Image-Guided Surgery for Spinal Intramedullary Tumors. | Toshihiro Takami  Japan |
| 10:32~10:38 | Surgery of Intramedullary Spinal Cord Tumors in Cervical Cord: Technological Progress and Achievement Limits. | Hidetoshi Murata  Japan |
| 10:38~10:44 | Surgical Treatment of Cervical Root Avulsion. | Ming-Chao Huang  Taiwan |
| 10:44~10:50 | The Combined Anterior Plate and Contralateral Transarticular Screw for the Atlantoaxial Fixation. | Pornpavit Sriphirom  Thailand |
| 10:50~10:56 | Comparison between Lateral Mass Screws and Pedicle Screws in Posterior C-spine and Technique Note. | Chaiyot Thiranon  Thailand |
| 10:56~11:05 | Q and A. |  |

**【Degenerative Cervical Spine Ⅴ】**

**Moderator: Junichi Mizuno (Japan) / Da-Tong Ju (Taiwan)**

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| Time | **Topic** | **Speaker** |
| 11:05~11:11 | Transarterial Embolization of Ruptured Cervical Spinal Cord Arteriovenous Malformation. | Shih-Wei Hsu  Taiwan |
| 11:11~11:17 | Radiological Risk Factors of Surgical Insufficient Effect for Cervical Degenerative Disease. | Mitsuru Sato  Japan |
| 11:17~11:23 | Surgical Treatment of Degenerative Cervical Spine Disease in Elderly Patients. | Takahiro Tanaka  Japan |
| 11:23~11:29 | Unilateral Facet Destruction is a Risk Factor for Preoperative Rapid Motor Function Deterioration in the Patients with Cervical Myelopathy Induced by Degenerative Cervical Disorders: A Case-control Study. | Yasuhiro Takeshima  Japan |
| 11:29~11:35 | Cervical Spondylotic Amyotrophy Single Institute Clinical Case Series and Overview of the Literatures. | Toshiyuki Takahashi  Japan |
| 11:35~11:41 | Anterior Corpectomy Fusion for Hirayama Disease in Kyphotic Patient. | Tzu-Yung Chen  Taiwan |
| 11:41~11:47 | Dysphagia due to Ossification of the Anterior Longitudinal Ligament (OALL) -Report of an Operative Case. | Hitoshi Aiyama  Japan |
| 11:47~12:00 | Q and A. |  |
| 【Lunch Seminar - Medtronic】 | | |
| 【Current Techniques in Sacral Joint Fixation】  Moderator: Cheng-Hsing Kao (Taiwan) | | |
| Time | **Topic** | **Speaker** |
| 12:00~12:20 | Diagnosis & Treatment for Sacroiliac Joint Dysfunction | Chien-Min Lin  Taiwan |
| 12:20~12:45 | SI Joint Fusion Surgical Technique & Case Sharing | Cheng-Hsing Kao  Taiwan |
| 12:45~13:00 | SI Fusion Surgical Technique | ALL |

**【MISS and Cervical Spine Trauma】**

**Moderator: Hiroyuki Nakase (Japan) / Der-Cherng Chen (Taiwan)**

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| Time | **Topic** | | **Speaker** |
| 13:00~13:06 | Endoscopic Posterior Decompression for Cervical Myelopathy. | | Yasuhiko Nishimura  Japan |
| 13:06~13:12 | Percutaneous Temporary Internal Fixation for Cervical Spine Injury Using O-arm. | | Nobuyuki Shimokawa  Japan |
| 13:12~13:18 | Full-endoscopic Application of Posterior Cervical Decompression and Cervical Schwannoma. | | Chien-Min Chen  Taiwan |
| 13:18~13:24 | Does Anticoagulant Thromboprophylaxis Increase Bleeding Complications in Spinal Surgery and Spinal C. | | Anh Nguyen  United Kingdom |
| 13:24~13:30 | A Case of Cervical Epidural Hematoma Arising with Hemodialysis and Dual Antiplatelet Therapy. | | Takahiro Myahara  Japan |
| 13:30~13:36 | Cervical Artificial Disc Replacement for Cervical Myelopathy. | | Enyuan Lin  Taiwan |
| 13:36~13:45 | Q and A. | |  |
| Zimmer Biomet Institute Course | | | |
| 【Clinical Treatment of Cervical Spine Disorders】  Moderator: Chih-Lung Lin KMUH (Taiwan) /Chi-Chien Niu (Taiwan) | | | |
| 【 Anterior Approach 】 | | | |
| Time | **Topic** | | **Speaker** |
| 13:45~13:55 | Let's Fuse It! How to Do It Right? | | Meng-Ling Lu  Taiwan |
| 13:55~14:05 | Where Are We in Motion Preservation? Updates, Evidence and Lesson Learned. | | Hsu-Chao Chen  Taiwan |
| 14:05~14:15 | How to Do a Perfect Arthroplasty? Step by Step. | | Fon-Yih Tsuang  Taiwan |
| 14:15~14:20 | Q and A. | |  |
| 【 Posterior Surgery 】 | | | |
| Time | **Topic** | | **Speaker** |
| 14:20~14:30 | Going Through Posterior: Fixation and Fusion. | | John Chen  Singapore |
| 14:30~14:40 | Going Through Posterior: Non-Fusion Laminoplasty and Foraminotomy! | | Chih-Ju Chang  Taiwan |
| 14:40~14:45 | Q and A. | |  |
| 【 Cervical Complication Management】 | | | |
| Time | **Topic** | | **Speaker** |
| 14:45~14:55 | How to Management It? Cervical Anterior | | Chih-Lung Lin AUH  Taiwan |
| 14:55~15:05 | How to Management It? Cervical Posterior. | | John Chen  Singapore |
| 15:05~15:10 | Q and A. | |  |
| Zimmer Biomet Institute Course | | | |
| 【Cervical Hybrid Surgery: Yes or No?】  Moderator: Chi-Chien Niu(Taiwan)/ Wen-Tien Wu(Taiwan) | | | |
| Time | **Topic** | | **Speaker** |
| 15:10~15:20 | Hybrid Surgery: 1+1>2. | | E-Jian Lee  Taiwan |
| 15:20~15:30 | Multiple Level Cervical Arthroplasty. | | Cheng-Hsing Kao  Taiwan |
| 15:30~15:50 | Q and A with Audience Response System and Closing. | | All |
| 15:50~16:00 | | **【 Closing Remark and Adjourn 】** | |

THANK YOU FOR COMING

