The 45th Annual Meeting of the
Japanese Society of Intensive Care Medicine

February 21-23, 2018/Makuhari, Chiba, Japan

ENGLISH PROGRAM
Shuttle bus service is available between JR station, Makuhari Messe and Hotel The Manhattan.

- Bus stop
- Access bridge
<Instructions for Speakers in the Oral Sessions>

All presentations and presentation data should be in English.
Only PC presentation will be available. Slide projector, overhead projector and video cannot be used.

1) Compatible personal computers
   *Windows: Bring your own PC or the data saved in the USB memory. Any other media cannot be used. In order to avoid the virus infection, please scan your data with updated anti-virus software beforehand. If your presentation data includes the video, please bring your own PC.
   *Macintosh: Bring your own PC. Do not bring the data only.

2) Video and sound
   Video and sound functions will be available.

3) Instructions for those who bring the USB memory (Windows only)
   PCs with Windows 10 and Microsoft PowerPoint will be used. The monitor size is XGA (1024x768). Be sure that all the data appears on the screen without any defect under this environment.

   <Fonts>
   Times New Roman, Century, Century Gothic or Arial is highly recommended to avoid screen layout imbalance.

   <Data Size>
   The maximum data size is 640 MB.

   <Registration of Presentation Data>
   For registration of your presentation data, visit the PC Center of the building where your presentation is assigned. Register your presentation data at latest 30 minutes prior to your presentation. Check that all your presentation data appears on the screen properly, especially if the data was originally created in a Macintosh and converted to the Windows format. All installed data will be deleted by the Secretariat after the Meeting.

   <At Your Presentation>
   Be ready on the Next Speakers’ Seats near the speaker’s podium in the assigned room at latest 15 minutes prior to your presentation. PowerPoint and your presentation data will be ready on the speaker’s podium. Handle your presentation data by yourself, using the mouse and keyboard. Laser pointer will be available too.

4) Instructions for those who bring their own PC
   Bring your PC with the AC adaptor and auxiliary output adaptor (D-sub 15 pin). If necessary, be sure to bring a connector. The monitor size is XGA (1024x768). For proper data projection, please adjust your screen setting to XGA.
   Cancel your screen saver, power saving setting and Wi-Fi connection in advance, especially if your data includes video and sound.
   Be sure to bring the back-up in Windows format for your data just in case.

   <Registration and Return of Personal Computer>
   So as to test the connection and check your presentation data, visit the PC Center of the building where your presentation is assigned at latest 30 minutes prior to your presentation. Your PC will be posted with a name tag by the PC staff to avoid the confusion. Receive the receipt and pick up your PC in exchange of the receipt at the PC Desk of the presentation room after your presentation. Be sure not to forget to pick up your PC.

   <At Your Presentation>
   Please be ready on the Next Speakers’ Seats near the speaker’s podium in the assigned room at latest 15 minutes prior to your presentation. PowerPoint and your presentation data will be ready on the speaker’s podium. Handle your presentation data by yourself, using the mouse and keyboard. Laser pointer will be available too.

5) PC Center

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<th>Feb. 21</th>
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<tbody>
<tr>
<td>① Makuhari Messe International Conference Hall 2F</td>
<td>7:50-18:30</td>
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<td>② Hotel New Otani Makuhari 2F</td>
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<td>③ Hotel The Manhattan 2F</td>
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*Use the PC Center of the building where your presentation is assigned.
★ Do not bring the tablet nor smartphone.
★ To avoid any trouble caused by the PC diversity, be sure to visit the PC Center.
The 18th Joint Scientific Congress of the JSiCM and KSCCM

<Instructions for Presenters in the Poster Sessions>

All posters must be prepared in English.

1) How to prepare the posters:
- The poster board space available to each poster is 90 cm (3 ft) width and 180 cm (6 ft) height.
- Only the program number (Ex. JKP1-1) will be posted by the Secretariat at the assigned space. Use the poster board with your program number.
- Each poster must be labeled by authors with the title of presentation, authors' names and their affiliations.
- All the materials should be simply and clearly prepared. Only thin papers or hard cards can be used. Do not use a heavy material.

2) How to set-up and remove the poster materials:
- Note that authors are responsible for setting up and removing their posters.
- Tacks will be provided by the Secretariat.
- Please set-up and remove the posters during the following period.
  February 22
  Set-up  8 : 30 – 10 : 30
  Removal  17 : 00 – 18 : 00
- Moderated presentation will be held. Seven minutes (4 minutes presentation + 3 minutes discussion) will be allocated to each poster.
- All materials which have not removed during the removal period will be disposed.

3) For the poster presentation
- Visit the Poster Reception Desk in front of Room#5 on the 3F of Makuhari Messe International Conference Hall at latest 13:50 on February 22.
<Instructions for Chairs>

All sessions must be organized in English.

<Oral sessions>

Be ready on the Next Chairs' Seats near the chairs' table in the assigned room at latest 15 minutes prior to your session. Please be sure to organize your sessions according to the allocated time-schedule. Time-keeping system is available only for free communications according to the allocated time-schedule: eight minutes (5 minutes presentation + 3 minutes discussion for each presentation).

<Poster sessions in the 18th Joint Scientific Congress of the JSICM and KSCCM>

Visit the Poster Reception Desk in front of Room#5 on the 3F of Makuhari Messe International Conference Hall at latest 13:50 on February 22.

Please be sure to organize your sessions according to the allocated time-schedule: seven minutes (4 minutes presentation + 3 minutes discussion) for each presentation.
February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
9:00 – 9:50
Invited Lecture 3 Nutrition in the ICU — Towards individualized nutrition
Claude Pichard
(Clinical Nutrition Department, Geneva University Hospital, Switzerland)
Chaired by: Toshiaki Ikeda (Tokyo Medical University Hachioji Medical Center)

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
10:00 - 10:50
Invited Lecture 4 Temperature management in critically ill patients with acute brain injury
Kees H. Polderman
(Department of Critical Care Medicine, University of Pittsburgh Medical Center, USA)
Chaired by: Yasuhiro Kuroda (Kagawa University)
Sponsored by: IMI Co., Ltd.

February 21 / Room 1 (Makuhari Messe Conference Hall 2F Convention Hall A)
11:00 – 11:50
Invited Lecture 1 Sepsis induced DIC and anticoagulants
Jerrold H. Levy (Duke University School of Medicine, USA)
Chaired by: Toshiaki Iba (Juntendo University)
Sponsored by: Nihon Pharmaceutical Co., Ltd.

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
11:00 - 11:50
Invited Lecture 5 Liberation from mechanical ventilation: Protocol based weaning
Younsuck Koh
(Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea)
Chaired by: Hidetoshi Shiga (Teikyo University Medical Center)

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
12:30 - 13:30
Educational (Luncheon) Seminar 2 Newer techniques of hemodynamic monitoring
Rinaldo Bellomo (The University of Melbourne, Australia)
Chaired by: Hiroshi Morimatsu (Okayama University)
Sponsored by: Edwards Lifesciences Corporation

February 21 / Room 6 (Makuhari Messe Conference Hall 3F #302)
12:30 - 13:30
Educational (Luncheon) Seminar 5-1 Physiological advances in ventilation and circulation interactions during CPR
Jean-Christophe Marie Richard
(Emergency and ICU Department, General Hospital, Annecy Genevois, France)
Educational (Luncheon) Seminar 5-2 Emerging ventilation strategy during cardiopulmonary resuscitation
Shin-ichiro Ohshimo (Hiroshima University)
Chaired by: Tetsuya Sakamoto (Teikyo University)
Sponsored by: IMI Co., Ltd.

February 21 / Room 14 (Hotel The Manhattan 2F Primavera)
12:30 - 13:30
Educational (Luncheon) Seminar 12 Advanced EM practices as PICS prevention
Margaret Arnold (Inspire Outcomes LLC, USA)
Chaired by: Ryo Kozu (Nagasaki University)
Sponsored by: Paramount Bed Co., Ltd.
February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
14:00 - 14:50
Invited Lecture 6 Advanced EM practices as PICS prevention
Margaret Arnold (Inspire Outcomes LLC, USA)
Chaired by: Akemi Utsunomiya (St. Luke’s International University)

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
14:50 - 15:40
Invited Lecture 7 ECPR the past and the future trend
Yih-Sharng Chen (National Taiwan University, Chinese Taipei)
Chaired by: Tetsuya Sakamoto (Teikyo University)

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
15:40 - 16:30
Invited Lecture 8 Extracorporeal therapy of sepsis: Update and perspective
Steffen Mitzner
(Division of Nephrology and Fraunhofer Project Group “Extracorporeal Immunomodulation”, Department of Medicine, University of Rostock, Germany)
Chaired by: Satoshi Gando (Hokkaido University)

February 21 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
16:30 - 17:30
Pros & Cons 1 Acute glycemic control in diabetics; How sweet is optimal
Chaired by: Masamitsu Sanui (Jichi Medical University Saitama Medical Center)
PC1-1 Pro: Sweeter is better in diabetes
Rinaldo Bellomo (Austin Hospital and The University of Melbourne, Australia)
PC1-2: Con: Just as sweet as in non-diabetic is better
Moritoki Egi (Kobe University)
February 22 / Room 2 (Makuhari Messe Conference Hall 2F Convention Hall B)
10:40 - 11:30
Invited Lecture 11 The gut as the motor of sepsis
Craig Coopersmith (Emory University School of Medicine, USA)
Chaired by: Hiroshi Morisaki (Keio University)

February 22 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
10:40 - 11:30
Invited Lecture 12 The role of erythropoietin in trauma
Rinaldo Bellomo (Austin Hospital and The University of Melbourne, Australia)
Chaired by: Nobuaki Shime (Hiroshima University)

February 22 / Room 1 (Makuhari Messe Conference Hall 2F Convention Hall A)
12:30 - 13:30
Educational (Luncheon) Seminar 15 Importance of lung protection during mechanical ventilation, focusing on driving pressure and synchrony
Marcelo Britto Passos Amato
(CardioPulmonary Department, Incor - Heart Institute, Faculdade de Medicina da Universidade de Sao Paulo, Sao Paulo, Brazil)
Chaired by: Masaki Nakane (Yamagata University Hospital)
Sponsored by: Covidien Japan, Inc.

February 22 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
Educational (Luncheon) Seminar 16 Precision therapy for endotoxic shock: Role of polymyxin B hemoperfusion
Claudio Ronco (San. Bortolo Hospital, Italy)
Chaired by: Toshiaki Ikeda (Tokyo Medical University Hachioji Medical Center)
Sponsored by: Toray Industries, Inc./Toray Medical Co., Ltd.

February 22 / Room 5 (Makuhari Messe Conference Hall 3F #301)
12:30 - 13:30
Educational (Luncheon) Seminar 18 Acute heart failure: Where do we go from here?
W. Frank Peacock (Baylor College of Medicine, USA)
Chaired by: Naoki Sato (Nippon Medical School Musashi Kosugi Hospital)
Sponsored by: Koninklijke Philips N.V.

February 22 / Room 12 (Hotel New Otani Makuhari 2F Lapis)
12:30 - 13:30
Educational (Luncheon) Seminar 24 Opening a window to the injured brain: The emerging role of automated quantitative pupillometry
Mauro Oddo
(Department of Intensive Care Medicine, Clinical Research Unit Neuroscience Critical Care Research Group Centre, Hospitalier Universitaire Vaudois (CHUV)-University Hospital, University of Lausanne, Faculty of Biology and Medicine, Switzerland)
Chaired by: Mayuki Aibiki (Ehime University)
Sponsored by: IMI Co., Ltd.
February 22 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
15 : 00 - 15 : 50
Invited Lecture 13 What went wrong with physiology: Is there any new hope for high PEEP trials?
Marcelo Britto Passos Amato
(University of São Paulo-Heart Institute (INCOR), Brazil)
Chaired by:  Kaneyuki Kawamae (Yamagata University)
Sponsored by:  Covidien Japan, Inc.

February 22 / Room 1 (Makuhari Messe Conference Hall 2F Convention Hall A)
15 : 05 - 15 : 55
Invited Lecture 9 Genetic polymorphisms identify patients at risk and suggest novel therapy for sepsis
Keith R. Walley
(Centre for Heart Lung Innovation, University of British Columbia, Canada)
Chaired by:  Hiroyuki Hirasawa
(Chiba University/International University of Health and Welfare)

February 22 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
15 : 50 - 16 : 40
Invited Lecture 14 Evolution of extracorporeal therapies in critically ill patients
Claudio Ronco (Department of Nephrology and IRRIV, San Bortolo Hospital, Italy)
Chaired by:  Ken-ichi Matsuda (University of Yamanashi)

February 22 / Room 1 (Makuhari Messe Conference Hall 2F International Conference Room)
16 : 00 - 16 : 50
Invited Lecture 10 Fluid challenges: Do they give any benefit?
Maurizio Cecconi (St. George’s University Hospital, NHS Foundation Trust, UK)
Chaired by:  Yasuyuki Kakihana (Kagoshima University)

February 22 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
16 : 40 - 17 : 30
Invited Lecture 15 Hyperkalemia: Here come the binders.
W. Frank Peacock (Baylor College of Medicine, USA)
Chaired by:  Naoki Sato (Nippon Medical School Musashi Kosugi Hospital)

February 22 / Room 8 (Makuhari Messe Conference Hall 3F #304)
17 : 00 - 18 : 00
Meet the Experts 1 Health Datathons: bringing doctors and data scientists together
Leo Anthony G. Celi (MIT, USA)
Christina Chen (MIT, USA)
Chen Xie (MIT, USA)
Facilitated by:  Hidenobu Shigemitsu (Tokyo Medical & Dental University)

February 22 / Room 9 (Makuhari Messe Conference Hall 1F #104)
17 : 00 - 18 : 00
Meet the Experts 2 Often, Less is More in Critical Care
Younsuck Koh
(Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea)
Chaired by:  Masaji Nishimura (Tokushima University)
Facilitated by:  Moritoki Egi (Kobe University)
Meet the Experts 3 The international difference on the management of sepsis-associated DIC
Facilitated by: Toshiaki Iba (Juntendo University)
Yuuichiro Sakamoto (Saga University)
Sponsored by: Nihon Pharmaceutical Co., Ltd.

ME3-1 Keynote Lecture 1
Jerrold H. Levy (Duke University School of Medicine, USA)

ME3-2 Keynote Lecture 2
Kazuma Yamakawa (Osaka General Medical Center)

ME3-3 Commentary
Hiroyuki Koami (Saga University)
February 23 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
9:00 - 9:50
Invited Lecture 16 The MIMIC Data: Building blocks for artificial intelligence in the ICU
Leo Anthony G. Celi
(Division of Pulmonary, Critical Care and Sleep Medicine, Beth Israel Deaconess Medical Center, USA)
Chaired by: Satoru Hashimoto (Kyoto Prefectural University of Medicine)

February 23 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
9:55 - 10:45
Invited Lecture 17 Critical care medicine in an aging society
Chae-Man Lim
(Asan Medical Center, University of Ulsan College of Medicine, Korea)
Chaired by: Hitoshi Imaizumi (Tokyo Medical University)

February 23 / Room 3 (Makuhari Messe Conference Hall 2F International Conference Room)
10:50 - 11:40
Invited Lecture 18 Recent updated in perioperative critical care medicine
Sahadol Poonyathawon
(Department of Anesthesiology, Faculty of Medicine, Chulalongkorn University, Thailand)
Chaired by: Naoyuki Matsuda (Nagoya University)
The 18th Joint Scientific Congress of the JSICM and KSCCM

[Symposium]

Feb 22, 2018 (Thur) 9:00 ~ 11:00 Room 5 (#301/Makuhari Messe Conference Hall 3F)

Symposium (JKSY)  Pediatric airway and lung diseases
  Chair  Satoshi Nakagawa (National Center for Child Health and Development)
  June Dong Park (Seoul National University College of Medicine)

JKSY-1  Upper airway problems in PICU
  Won Kyoung Jhang (Asan Medical Center Children’s Hospital, University of Ulsan College of Medicine)

JKSY-2  Can high flow nasal cannula oxygen therapy substitute for noninvasive positive pressure ventilation in children?
  Norimasa Kurosaka (Department of Pediatric Intensive Care, Nagano Children’s Hospital)

JKSY-3  Changing definition of ARDS: Better than before?
  Kyung Won Kim (Yonsei University College of Medicine)

JKSY-4  Lung protective ventilatory strategy guided by pleural pressure
  Muneyuki Takeuchi (Department of Intensive Care Medicine, Osaka Women’s and Children’s Hospital)
The 18th Joint Scientific Congress of the JSICM and KSCCM

[Oral Presentation]

Feb 22. 2018 (Thur) 11:00 ~ 11:50 Room 5 (#301/Makuhari Messe Conference Hall 3F)

Oral 1 (JKO1) Patient management

Chair Moritoki Egi (Department of Anesthesiology, Kobe University Hospital)
Younsuck Koh (Asan Medical Center, University of Ulsan College of Medicine)

JKO1-1 Rhabdomyolysis induced by hyperthermia associated with thermoregulatory failure in a patient with spinal cord injury
Junki Ishii, Yoshiko Kida, Shinichiro Ohshimo, Yuki Uchida, Yusuke Iwasaki, Kazuhiro Koyama, Satoshi Yamaga, Kohei Ota, Nobuaki Shime (Department of Emergency and Critical Care Medicine, Graduate School of Biomedical & Health Sciences, Hiroshima University)

JKO1-2 Analysis of the development and progression of carbon monoxide poisoning–related acute kidney injury according to the kidney disease: Improving global outcomes (KDIGO) criteria: A retrospective cohort study
Won Young Kim¹, Yoon-Jung Kim¹, Chang Hwan Sohn¹, Dong-Woo Seo¹, Bum Jin Oh¹, Kyoung Soo Lim¹, Jai Won Chang² (¹. Department of Emergency Medicine, University of Ulsan College of Medicine, Asan Medical Center, 2. Division of Nephrology, Department of Internal Medicine, University of Ulsan College of Medicine, Asan Medical Center)

JKO1-3 Risk factors of intensive care unit readmission after liver transplantation: A retrospective observational study
Young Gon Son¹, Hannah Lee¹, Seung Young Oh², Chul-Woo Jung², Ho Geol Ryu² (¹. Department of Anesthesiology, Seoul National University College of Medicine, 2. Department of Surgery, Seoul National University College of Medicine)

JKO1-4 The early rehabilitation program for liver transplant recipients
Hyunwoo Sun¹, Sukkyung Hong¹, Nakjun Choi¹, Hakjae Lee¹, Jae-seok Lee¹, Saerom Park¹, Yun-jung Jung¹, Won Kim² (¹. Division of Acute Care Surgery, Ulsan College of Medicine, Asan Medical Center, 2. Department of Surgery, Department of Rehabilitation, Ulsan College of Medicine, Asan Medical Center)

JKO1-5 Prognostic factors of outcome in pediatric oncology patients with a pulmonary complication
Kyunghoon Kim, Hye Jin Lee, Jong-seo Yoon (Department of Pediatrics, College of Medicine, The Catholic University of Korea)

JKO1-6 Independent risk factors for the shivering occurrence during induction period in out-of-hospital cardiac arrest survivors treated with targeted temperature management
Yoon-Jung Kim¹, Jin Mi Park², Min Soo Kim¹, Seung Mok Ryoo¹, Young Soon Park², Sung Sook Kim³, Yeo Ok Kim³, Won Young Kim¹ (¹. Department of Emergency Medicine, University of Ulsan College of Medicine, Asan Medical Center, 2. Division of Nephrology, Department of Internal Medicine, University of Ulsan College of Medicine, Asan Medical Center)

Feb 22. 2018 (Thur) 15:00 ~ 15:50 Room 5 (#301/Makuhari Messe Conference Hall 3F)

Oral 2 (JKO2) Circulation

Chair Kent Doi (Department of Acute Medicine, The University of Tokyo)
Jong Hun Jun (Department of Anesthesiology and Critical Care Medicine, Hanyang University Hospital)

JKO2-1 Postoperative atrial fibrillation induced by Valsalva maneuver after cardiac surgery
Yuki Nakamori, Hiroyuki Mima, Takahiro Shimozono, Hiroshi Ueta, Daisuke Kawakami (Department of Anesthesiology, Kobe City Medical Center General Hospital)

JKO2-2 B-type natriuretic peptide as a predictor for early and late outcomes after cardiac surgery
Ju Yong Lim, Pil Je Kang, Sung Ho Jung, Suk Jung Choo, Cheol Hyun Chung, Jae Won Lee, Joon Bum Kim (Departments of Thoracic and Cardiovascular Surgery, Asan Medical Center, University of Ulsan College of Medicine)

JKO2-3 Association of vitamin D and parathyroid hormone with infarction-related arrhythmia in patients with acute myocardial infarction
Jin Wi, Dong-Ho Shin, Jung-Sun Kim, Byeong-Keuk Kim, Young-Guk Ko, Donghoon Choi, Myeong-Ki Hong, Yangsoo Jang (Division of Cardiology, Department of Internal Medicine, Yonsei University College of Medicine)

JKO2-4 Early start of chest compressions before definitive cardiac arrest improved survival from out-of-hospital cardiac arrest witnessed by emergency medical service
Hideo Inaba¹, Tetsuo Maeda¹, Keisuke Ohta¹, Yasuhiro Myojo¹ (¹. Department of Circulatory Emergency and Resuscitation Science, Kanazawa University Graduate School of Medicine, 2. Emergency Medical Center, Ishikawa Prefecture Central Hospital)
JKO2-5 The additive effect of atropine sulfate during cardiopulmonary resuscitation in the out-of-hospital cardiac arrest adult patients with non shockable rhythm
Takao Yano, George Endo, Yasuhiro Nagamine, Hidenobu Ochiai (1. Department of Emergency Center and Critical Care Medicine, Miyazaki Prefectural Nobeoka Hospital, 2. Department of Emergency Center, Miyazaki Prefectural Nobeoka Hospital, 3. Department of Emergency Center, Miyazaki University Hospital)

JKO2-6 Benefits of prehospital epinephrine in cases with emergency medical service-performed defibrillation
Hideo Inaba, Tetsuo Maeda, Keisuke Ohta, Yasuhiro Myojo (1. Department of Circulatory Emergency and Resuscitation Science, Kanazawa University Graduate School of Medicine, 2. Emergency Medical Center, Ishikawa Prefecture Central Hospital)

Feb 22. 2018 (Thur) 15:50 ~ 16:40 Room 5 (#301/Makuhari Messe Conference Hall 3F)
Oral 3 (JKO3) Respiration
Chair Masaji Nishimura (Critical Care & Emergency Medicine, Tokushima University Graduate School)
Gee Young Suh (Department of Critical Care Medicine, Director of Center for Critical Care, Division of Pulmonary and Critical Care Medicine, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine)

JKO3-1 Non-invasive ventilation during difficult weaning in chronic critically ill patients
Sung Wook Kang, Hee-Young Yoon, Sang-Bum Hong, Younsuck Koh, Cha-Man Lim, Hee Jung Suh, Ga Jin Seo, Eun Young Kim, Jin-Won Huh (1. Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, 2. Respiratory Care Services, Asan Medical Center)

JKO3-2 Current status of NIV use in Korean ICUs: Interim analysis
Sunghoon Park, Hyeon Seung Nam, Ji Young Park, Seung Hun Jang, Yong Il Hwang, Ki-Suck Jung (Department of Pulmonary, Allergy and Critical Care, Hallym University Sacred Heart Hospital)

JKO3-3 Risk factors for PICU admission in patients treated with high flow nasal cannula in general wards at a children’s hospital
Noboru Matsumoto, Yoshiyuki Shimizu, Yu Inata, Takeshi Hatashi, Kazue Moon, Jun Takeshita, Takaaki Akamatsu, Hiromi Miyoshi, Muneyuki Takeuchi (Department of Intensive Care Medicine, Osaka Women’s and Children’s Hospital)

JKO3-4 Role of serum Activin-A levels in ARDS patients
Jee-Min Kim, Sun Mi Choi, Jiwon Lee, Young Sik Park, Chang Hoon Lee, Jae-Joon Yim, Chul-Gyu Yoo, Young Whan Kim, Sung Koo Han, Sang-Min Lee (Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Seoul National University Hospital)

JKO3-5 Case series: Upper body cannulation VA ECMO in patients waiting for lung transplantation
Kyung Hun Nam, Younsuck Koh, Cha-Man Lim, Jin-Won Huh, Sung Ho Jung, Pi-Je Kang, Ju Yong Lim, Sang-Bum Hong (1. Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, 2. Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, University of Ulsan College of Medicine)

JKO3-6 The effect of multidisciplinary extracorporeal membrane oxygenation team on clinical outcomes in patients with severe acute respiratory failure
Gee Young Suh, Soo Jin Na, Chi Ryang Chung, Hee Jung Choi, Yang Hyun Cho, Kiick Sung, Jeong Hoon Yang, Kyeongman Jeon (1. Department of Critical Care Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, 2. Center for Intensive Care, Samsung Medical Center, 3. Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine)

Feb 22. 2018 (Thur) 16:40 ~ 17:30 Room 5 (#301/Makuhari Messe Conference Hall 3F)
Oral 4 (JKO4) Basic research/Infection
Chair Shigeki Fujitani (Department of Emergency and Critical Care Medicine, St. Marianna University School of Medicine)
Chae-Man Lim (Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine)

JKO4-1 The effect on monocyte with early application of adsorption filter in swine trauma model
Do Wan Kim, Gwan Si Kim, Kook Joo Na, In Seok Jeong (Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital)

JKO4-2 Recombinant thrombomodulin prevents acute lung injury induced by renal ischemia reperfusion injury
Naoki Hayase, Kent Doi, Takahiro Hiruma, Ryo Matsuura, Eisei Noiri, Yoshihumi Hamasaki, Massomi Nangaku, Nao To Morimura (Department of Acute Medicine, The University of Tokyo, Department of Nephrology and Endocrinology, The University of Tokyo)
JKO4-3  Septic serum contains suppressive factor which specifically affects extracellular ATP-dependent inflammasome pathway
  Ho Minh Van1, Nobuyuki Hirohashi2, Weng-Sheng Kong2, Kohei Ota1, Junji Itai1, Satoshi Yamaga1, Kei Suzuki1, Koichi Tanigawa1, Masamoto Kanno3,4, Nobuaki Shime1 (1. Department of Emergency and Critical Care Medicine, Graduate School of Biomedical and Health Sciences, Hiroshima University, 2. Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University, 3. Japanese Agency for Medical Research and Development - Core Research for Evolutionary Science and Technology, 4. Japanese Agency for Medical Research and Development - Core Development of Advanced Measurement and Analysis Systems, 5. Fukushima Global Medical Science Centre, Fukushima Medical University)

JKO4-4  Nonpulmonary organ failures and the development of acute respiratory distress syndrome in patients with bacteremia sepsis
  Hyeon Seung Nam, Sunghoon Park, Ji Young Park, Seung Hun Jang, Ki-Suck Jung (Department of Pulmonary, Allergy and Critical Care, Hallym University Sacred Heart Hospital)

JKO4-5  Clinical outcomes after initial treatment of methicillin-resistant *Staphylococcus aureus* infections
  Nobuaki Shime1,2, Nobuyuki Saito1, Miya Boku1, Naoki Sakane1, Mitsuhiro Kamimura1, Tsutomu Shinohara1, Tadashi Kosaka1, Hisashi Ishikura1, Atsuko Kobayashi1 (1. Hiroshima University, 2. The PORTRAIT study group)

JKO4-6  Central line-associated complications in critically ill children: a comparison between peripherally inserted central catheters and central venous catheters
  Hiromi Miyoshi, Yoshiyuki Shimizu, Jun Takeshita, Takeshi Hatachi, Yu Inata, Kazue Moon, Muneyuki Takeuchi (Department of Intensive Care Medicine, Osaka Women’s and Children’s Hospital)

**[Poster Presentation]**

Feb 22. 2018 (Thur) 14:00 ~ 14:50  Makuhari Messe Conference Hall 3F Atrium

Poster 1 (JKP1)

Chair  Masaji Nishimura (Critical Care & Emergency Medicine, Tokushima University Graduate School)

JKP1-1  In vivo diagnosis of hemorrhage in blunt lung contusion model using fluorescence imaging
  Taegyun Kim, Gil Joon Suh, Woon Yong Kwon, Kyung Su Kim, Yoon Sun Jung, Jung-In Ko, So Mi Shin (Division of Critical Care Medicine, Department of Emergency Medicine, Seoul National University Hospital)

JKP1-2  The effects of melanocortin rc agonist BMS-475359 on immune-inflammatory response in septic neutrophil and mortality in septic mouse
  Euna Jang1, Jia Song1, Tran Duc Tin1, Hongbum Bae1, Joungmin Kim1, Sanghyun Kwak1,2 (1. Department of Anesthesiology and Pain Medicine, Chonnam National University Medical School & Hospital, 2. Brain Korea 21 Project, Center for Creative Biomedical Scientists at Chonnam National University)

JKP1-3  An octogerian patient with acute myocardial infarction complicating cardiogenic shock
  Go Ishimaru, Kenji Koura, Emiko Nakashima, Kentaro Onishi, Hiroyuki Okada, Hiroshi Inagaki, Nobuo Toshida, Toshihiko Takamoto (Soka Municipal Hospital)

JKP1-4  Physiotherapist detects masquerading late laryngotracheal stenosis after cardiovascular surgery: a case report
  Masato Nishizaki1, Yasuhisa Okamoto1 (1. Department of Rehabilitation, Otakanomori Hospital, 2. Department of Anesthesiology, Otakanomori Hospital)

JKP1-5  Bladder tamponade in a patient with cognitive disorder receiving direct oral anticoagulant
  Go Ishimaru, Kenji Koura, Emiko Nakashima, Kentaro Onishi, Hiroyuki Okada, Hiroshi Inagaki, Nobuo Toshida, Toshihiko Takamoto (Soka Municipal Hospital)

JKP1-6  Successful rescue of patients with aortic stenosis falling to cardiac arrest by using extracorporeal membrane oxygenation: A case report
  Kento Fukui1, Tomoko Tomioka1, Yoshitaka Ito1, Hiroki Shioiri1, Jiro Koyama1, Satoshi Tsuchiya2, Yasuhiro Matsumoto1, Kanichi Inoue1 (1. Department of Cardiology, South-Miyagi Medical Center, 2. Department of Cardiovascular Medicine, Tohoku University Graduate School of Medicine)

JKP1-7  Relationship between physical characteristics and external pressure to calf region using boot-support-type leg holder system in the middle lithotomy position
  Ju Mizuno1, Toru Takahashi1 (1. Department of Anesthesiology and Pain Medicine, Juntendo University Faculty of Medicine, 2. Faculty of Health and Welfare Science, Okayama Prefectural University)
JKP2-1 Relative tachycardia is associated with poor neurologic outcome in post-cardiac arrest patients
Jung-In Ko, Kyung Su Kim, Gil Joon Suh, Woon Yong Kwon, Taegyun Kim, Kyuseok Kim, Jonghwan Shin, You Hwan Jo (1. Department of Emergency Medicine, Seoul National University Hospital, 2. Department of Emergency Medicine, Seoul National University Bundang Hospital, 3. Department of Emergency Medicine, Seoul Metropolitan Government-Seoul National University Boramae Medical Center, 4. Department of Emergency Medicine, College of Medicine, Seoul National University)

JKP2-2 Correlation between saturation of brain tissue with near-infrared spectroscopy and ROSC in ambulance among out-hospital-cardiac arrest patients
Jumpei Tsukuda, Yasuhiro Taira, Kentaro Okamoto, Takeshi Kawaguchi, Takaki Naito, Nobuhiko Simozawa, Kenchiro Morisawa, Shigeki Fujitani (Emergency and critical care medicine, St. Marianna University School of Medicine)

JKP2-3 Prevention of CLABSI by quality improvement activity
Jung-Hyung Lee, Youngok Kwon, Kyung Su Kim, Ga Young Um, Yoon Ah Woo, Ji Hyun Kim, Bo Ram Oh, Eun Jin Kim, Pyoeng Gyun Choe, Eun-Hee Jung (Seoul National University Hospital)

JKP2-4 Comparison between transverse and vertical skin incision in percutaneous dilatational tracheostomy
Sung Yoon Lim, Seung-Hye Choi, Yeon Joo Lee, Ho Il Yoon, Jae Ho Lee, Choong-Taek Lee, Young-Jae Cho (1. Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Seoul National University Bundang Hospital, 2. Department of Nursing, Semyung University)

JKP2-5 Clinical usefulness of SpO2/FiO2 ratio in children with high-flow nasal cannula
Sun Ha Choi, Soo Yeon Kim, In Suk So, Yoon Hee Kim, Kyung Won Kim, Myung Hyun Sohn (Department of Pediatrics, Institute of Allergy, Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine)

JKP3-1 Is it hard law or soft law? – End-of-life care in Japan
Motoshi Kainuma (Executive Supervisor of Anesthesiology, Emergency Medicine, and Intensive Care Division, Inazawa Municipal Hospital)

JKP3-2 Intensive care unit (ICU) nurses’ death awareness, end-of-life stress and end-of-life nursing attitudes
Sera Kim, Mee Jin No, Hee Ju Cho, Young Park, Kyung Eun Moon, Soon Haeng Lee, Mi Young Shim (1. Asan Medical Center, 2. Seoul National University Hospital)

JKP3-3 Improving patient and family’s understanding by using video when making decision about cardiopulmonary resuscitation (CPR) and discontinuing life-sustaining treatment
Youngmi Lee, Sookhyun Park, Geeyoung Suh, Misook Oui, Sunmi Park, Soojin Jeong, Soowon Jung, Chulhyun Kim (Medical Intensive Care Unit, Samsung Medical Center)

JKP3-4 Nurses’ experiences and educational needs regarding advance directives writing
Ga Young Um (Seoul National University Hospital)

JKP3-5 The effects of facilitated sense-making intervention program for ICU family
Mimi Lee, Myungsun Lee, Miok Park, Hana Kim, Jinhee Yang (1. Department of Nursing, Seoul National University Hospital, 2. Seoul National University College of Nursing)

JKP3-6 Multidimensional factors influencing on burnout of intensive care unit nurses
Sera Kim, Jin Hee Hwang, Ae Ran, Soon Haeng Lee, Mi Kyung Jeon (Asan Medical Center)

JKP3-7 Development of nursing skill through procedure simulation in the intensive care units
Jin-young Nam, Kyungmin Shin, Kyunghee Lee, Sunyoung Kim, Sunhee Kim, Hana Bang, Junghwa Hwang (Severance Cardiovascular Hospital, Coronary Care Unit)
Chair: Yu Inata
(Department of Intensive Care Medicine, Osaka Women’s and Children’s Hospital)
Sungwon Na
(Yonsei University College of Medicine)

JKP4-1 Drug related serious adverse events that activated rapid response team
Jeongsu Kim, Sanghun Jung, Minjeong Kim, Mihwa Park, Jaehyeon Park, Jinhee Jang, Heegyeong Cho, Jaehwa Cho
(1. Department of Hospital Medicine, Inha University Hospital, 2. Department of Pulmonary and Critical Care, Inha University Hospital)

JKP4-2 Neutrophil-lymphocyte ratio and delirium in critically ill patients
Se Hee Na, Cheung Soo Shin
(Yonsei University College of Medicine, Gangnam Severance Hospital, Department of Anesthesiology and Pain Medicine)

JKP4-3 The effects of a delirium notification program of IDDM project on the clinical outcomes of the intensive care unit
Soo-Jeong Kim, Jaesub Park, Seung-Taek Oh, Jae-Jin Kim, Cheung Soo Shin, Se Hee Na, Jin Young Park
(1. Department of Psychiatry and Institute of Behavioral Science in Medicine, Yonsei University College of Medicine, 2. Department of Psychiatry, Gangnam Severance Hospital, Yonsei University Health System, 3. Department of Anesthesiology and Pain Medicine, College of Medicine, Yonsei University)

JKP4-4 Development of an evidence-based protocol for delirium management in intensive care unit
Na Ra Sin, Seon Gyeong Choe, Eun Kyoung Kim, Ji Eun Hong, Jung Yoon Kim, Eun Sung Kim, Pill Ja Kim, Yeon Soo Jang, Young Sam Kim, Jeong Min Kim
(1. Division of Nursing, Severance Hospital, Yonsei University Health System, 2. College of Nursing, Nursing Policy Research Institute, Yonsei University, 3. Division of Pulmonology, Department of Internal Medicine, Institute of Chest Disease, Severance Hospital, Yonsei University College of Medicine, 4. Department of Anesthesiology and Pain Medicine, Anesthesia and Pain Research Institute, Yonsei University College of Medicine)

JKP4-5 Difficulties in trauma nursing experienced by expert nurses working in the critical care field in Japan
Koji Ishikawa, Natsuko Makino, Keiko Nakamura, Miki Sugawara
(1. Faculty of Health Sciences, Hokkaido University of Science, 2. Nursing Department, School of Health Sciences, Sapporo Medical University, 3. Graduate School of Nursing, Sapporo City University, 4. School of Nursing, Sapporo City University)

JKP4-6 Translated two assessment tools using multidisciplinary back-translation method
Yujiro Matsuishi, Haruhiko Hoshino, Nobutake Shimjo, Yuki Enomoto, Takahiro Kido, Tetsuya Hoshino, Yoshiaki Inoue
(Department of Emergency and Critical Care Medicine, Faculty of Medicine, University of Tsukuba)

JKP4-7 Development of evidence-based guideline for fever management of critical adult patients with brain injury
Jung Min Lee, Yong Ae Cho, Ji Hyun Yoon, Hye Ok Choi, Nam Cho Kim
(1. Department of Nursing, Samsung Medical Center, College of Nursing, The Catholic University of Korea, 2. Red Cross College of Nursing, Chung-Ang University, 3. Department of Nursing, Samsung Medical Center, 4. College of Nursing, The Catholic University of Korea)
[English Session]

Feb 23, 2018 (Fri)  9:00 ~ 10:00  Room 10  (#105/Makuhari Messe Conference Hall 1F)

English Session 1 (EngO1)  Basic research/ Case report, etc

EngO1-1  Remote ischemic preconditioning decrease LPS induced-acute lung injury
Yun Hee Kim, Kuen Su Lee, Woon Young Kim, Yoon Sook Lee, Choon Hak Lim (Department of Anaesthesiology and Pain Medicine, Korea University Medical Center, Korea)

EngO1-2  Prevention of intestinal apoptosis in sepsis leads to improved barrier function via altered tight junction expression
Shunsuke Otani1, Benyam Joseph1, Nathan J. KlingenSmith1, Ching-wen Chen1, Deena Chihade1, Zhe Liang1, Craig Coopersmith12 (1. Department of Surgery, Emory University, USA, 2. Emory Critical Care Center, Emory University, USA)

EngO1-3  Radical resection of ruptured cholangiolocellular carcinoma: A rare case of a primary hepatic tumor
Shota Akabane, Takushiro Ban, Shunsaku Kouriki, Hiroyuki Tanemura, Haruhiro Nakazaki, Masayuki Nakano, Nobuaki Shinozaki (Shonan Fujisawa Tokushukai Hospital, Japan)

EngO1-4  Pure red cell aplasia in a Jehovah’s Witness treated with recombinant erythropoietin products after intra-abdominal bleeding
Tae Sun Ha (Sooncheonhyang University Bucheon Hospital, Division of Critical Care Medicine, Department of General Surgery, Korea)

EngO1-5  Cardiac arrest from succinylcholine-induced hyperkalemia in a patient with Guillain-Barré syndrome
Ryotaro Kato (Itabashi Chuo Medical Center, Japan)

EngO1-6  Corticosteroids applied on endotracheal tubes to prevent postoperative sore throat: a meta-analysis
Akira Kuriyama1, Hirokazu Maeda2 (1. Emergency and Critical Care Center, Kurashiki Central Hospital, Japan, 2. Department of Emergency Medicine, Sugita Genpaku Memorial Obama Municipal Hospital, Japan)

EngO1-7  Effect of patient-directed interactive music therapy on sleep quality of critically ill patients
Jeongmin Kim1, Dain Choi1, Kyeongyoon Woo1, Ga Eul Yoo2, Myung Sun Yeo2, Soo Ji Kim3, Sungwon Na1 (1. Department of Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Korea, 2. Department of Music Therapy, Graduate School, Ewha University, Korea, 3. Music Therapy Education, Graduate School of Education, Ewha University, Korea)

Feb 23, 2018 (Fri)  10:00 ~ 11:05  Room 10  (#105/Makuhari Messe Conference Hall 1F)

English Session 2 (EngO2)  Monitoring

EngO2-1  Downregulation of MMP-9 level and GCS improvement in severe traumatic brain injury due to the mild hypothermia therapy
Eko Prasetyo1, Andi Asadul Islam2, Mochammad Hatta1, Djoko Widodo4, Ilhamjaya Pattelongo2 (1. Department of Surgery, Division of Neurosurgery, Faculty of Medicine, University of Sam Ratulangi, Indonesia, 2. Department of Surgery, Division of Neurosurgery, Faculty of Medicine, University of Hasanuddin, Indonesia, 3. Molecular Biology and Immunology Laboratory, Faculty of Medicine, University of Hasanuddin, Indonesia, 4. Department of Surgery, Division of Neurosurgery, Faculty of Medicine, University of Hasanuddin, Indonesia, 5. Department of Surgery, Division of Neurosurgery, Faculty of Medicine, University of Sam Ratulangi/ Department of Physiology, Faculty of Medicine, University of Hasanuddin, Indonesia)

EngO2-2  Segmentation based respiration volume estimation using depth camera
Kyeong Taek Oh1, Jeongmin Kim2, Sun Kook Yoo1, Kyeong Yoon Woo2, Cheung Soo Shin3 (1. Department of Medical Engineering, Yonsei University College of Medicine, Korea, 2. Department of Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Korea)

EngO2-3  A new potential of proportional assist ventilation plus (PAV+): Can we use it as a monitor?
Tadahiro Kobayashi1, Kento Sakaguchi1, Kazunori Takahashi2, Taro Matsushii1, Yu Onodera2, Ryo Akimoto2, Hiroto Suzuki2, Masaki Nakane1, Kaneyuki Kawamae2 (1. Department of Emergency and Critical Care Medicine, Yamagata University Faculty of Medicine, Japan, 2. Department of Anesthesiology, Yamagata University Faculty of Medicine, Japan)

EngO2-4  Age related changes in tissue oxygen saturation measured by dynamic near infrared spectroscopy following general anesthesia
Ah-Reum Cho, Hyeon-Jeong Lee, Wangseok Do, Soeun Cheon, Jae-Young Kwon, Hae-Kyu Kim (Department of Anesthesiology and Pain Medicine, Pusan National University Hospital, Korea)

EngO2-5  Is your decision changed by hemodynamic parameters from transpulmonary thermodilution (TPTD) technique?
Ye Rim Chang1, Sung Wook Chang2 (1. Department of Surgery, Trauma Center, Dankook University Hospital, Korea, 2. Department of Thoracic and Cardiovascular Surgery, Trauma Center, Dankook University Hospital, Korea)
EngO2-6  Low level of meropenem concentration in brain dead organ donors: A single center pharmacokinetic study
Jae-Myeong Lee¹, Joo Won Lee², Tae Suk Chung², Eun Sook Bang³, So Hee Kim⁴ (1. Department of Surgery, Korea University Anam Hospital, Korea University College of Medicine, Korea, 2. College of Pharmacy and Research Institute of Pharmaceutical Science and Technoloby, Ajou University, Korea, 3. Office of Pharmacy, Ajou University Hospital, Korea)

EngO2-7  Fluid restriction is associated with delayed postoperative early mobilization in the high care unit
Yoko Tsukada¹, Marie Tanaka¹, Nao Nishi¹, Kenji Wakabayashi², Hideo Takahashi², Hidenobu Shigemitsu² (1. Intensive Care Unit, Tokyo Medical and Dental University Medical Hospital, Japan, 2. Department of Intensive Care Medicine, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan)

EngO2-8  Reducing unnecessary urinary catheters in Japanese intensive care units: a multicenter interventional study
Akira Kuriyama¹, Daisuke Kawakami¹, Hiroshi Iwasaki¹, Masaki Sakurai¹, Masahiro Irie¹ (1. Emergency Intensive Care Unit, Kurashiki Central Hospital, Japan, 2. Department of Anesthesiology, Kobe City Medical Center General Hospital, Japan, 3. Critical Care Center, Kobe City Medical Center General Hospital, Japan, 4. Department of Emergency Service/ Intensive Care Unit, JA Hiroshima General Hospital, Japan, 5. Department of Anesthesiology, Kurashiki Central Hospital, Japan)

Feb 23, 2018 (Fri) 14:00 ~ 14:50  Room 10 (#105/Makuhari Messe Conference Hall 1F)

English Session 3 (EngO3)  ECMO・CRRT
Chair Toshiyuki Aokage (Critical Care & Emergency Medicine, Tokyo Metropolitan Children's Medical Centre, Japan)

EngO3-1  Extracorporeal pulmonary resuscitation for out-of-hospital cardiac arrest in Thailand: A case report
K. Kongkulbhisal, A. Komindr, J. Saoraya, P. Chatranukulchai, P. Chatrkaw, Kyeongman Jeon¹, K. Vongkulbhisal, A. Komindr, J. Saoraya, P. Palungwachira, N. Lumlertgul (1. Department of Medicine, Chulalongkorn University, King Chulalongkorn Memorial Hospital, Thailand)

EngO3-2  Two cases of right ventricular infarction with or without veno-arterial extracorporeal membrane oxygenation support
C. Sirinawin, N. Srisawat, S. Lumlertkul (Faculty of Medicine, Chulalongkorn University, King Chulalongkorn Memorial Hospital, Thailand)

EngO3-3  Blood stream infection in patients treated with extracorporeal membrane oxygenation for acute respiratory failure
Soo Jin Na¹, Chi Ryang Chung², Hwa Jung Kim², Hyun Soo Lee², Jeong Hoon Yang³⁻⁵, Gee Young Suh³⁻⁵, Kyeongman Jeon³⁻⁵ (1. Department of Critical Care Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea, 2. Intensive Care Unit Nursing Department, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea, 3. Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea, 4. Division of Cardiology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea, 5. Division of Pulmonary and Critical Care Medicine, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)

EngO3-4  Blood stream infection in adult patients receiving extracorporeal membrane oxygenation for acute respiratory failure
Moon Seong Baek¹, Chi Ryang Chung², Hwa Jung Kim², Hyun Soo Lee², Young-Jae Cho³, Seung Yong Park³, Byung Ju Kang⁴, Jung-Hyun Kim⁴, Sang-Bum Hong⁴ (1. Department of Pulmonary and Critical Care Medicine, Asan Medical Center, Korea, 2. Department of Critical Care Medicine, Samsung Medical Center, Korea, 3. Department of Clinical Epidemiology and Biostatistics, Asan Medical Center, Korea, 4. Department of Internal Medicine, Pusan National University Yangsan Hospital, Korea, 5. Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Seoul National University Bundang Hospital, Korea, 6. Division of Pulmonary and Critical Care Medicine, Department of Medicine, Hallym University Sacred Heart Hospital, Korea, 7. Department of Internal Medicine, Chonbuk National University Hospital, Korea, 8. Division of Pulmonology, Department of Internal Medicine, Ulsan University Hospital, Korea, 9. Division of Pulmonary and Critical Care Medicine, Department of Medicine, Bundang CHA Hospital, Korea)
EngO4-1  Can a part-time rapid response system prevent postoperative sudden cardiopulmonary arrest?
   Ji wook Kim (Interdepartment of Critical Care Medicine, Seoul National University Bundang Hospital, Department of Anesthesiology and Pain Medicine, Seoul National University Bundang Hospital, Korea)

EngO4-2  (Withdrawn)

EngO4-3  Weekend effect: Does it exist in the surgical intensive care unit at an academic tertiary care teaching hospital?
   Kaori Ito1,2 (1. Department of Surgery, Division of Acute Care Surgery, Henry Ford Hospital/ Wayne State University, USA, 2. Department of Emergency Medicine, Teikyo University School of Medicine, Japan)

EngO4-4  Rapid response team patients analysis related to intervention time (From detection of deteriorating cause time to RRT arrival time)

EngO4-5  End of life cares in intensive care units in China, Korea, and Japan
   So Young Park1, Jason Phua2, Masaji Nishimura3, Yiyun Deng4, Keiichi Tada5, Yan Kang6, Younsuck Koh7, ACME Study Investigators and Asian Critical Care Clinical Trials Group (1. Department of Pulmonary and Critical Care Medicine, Kyung Hee University Medical Center, Korea, 2. Division of Respiratory and Critical Care Medicine, University Medicine Cluster, National University Hospital, National University Health System, Singapore, Singapore, 3. Emergency and Critical Care Medicine, Tokushima University Graduate School, Japan, 4. West China Hospital of Sichuan University, P.R. China, 5. Hiroshima Sea Side Hospital, Japan, 6. Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea)

EngO4-6  Determining brain death by novel apnea test with PEEP valve
   Jin Park (Department of Critical care medicine, Ewha Womans University Hospital, Korea)

EngO4-7  One approach for the early mobilization of ICU patients: Away from the ICU, together with family
   Nobuko Sasano1, Yoko Kato2, Masami Yasuda1, Ichiro Sakamoto3, Akemi Tanaka2 (1. Department of Critical Care Medicine, Nagoya City West Medical Center, Japan, 2. Department of Anesthesiology, Nagoya City West Medical Center, Japan, 3. Department of Rehabilitation, Nagoya City West Medical Center, Japan)