The 26th Congress of the Asian Pacific Society of Respirology

APSR 2022

17-20 November 2022
Coex, Seoul, Korea

“Above and Beyond”

PROGRAM BOOK

www.apsr2022.org
APSR 2022
The 26th Congress of the Asian Pacific Society of Respirology
17-20 November 2022
Coex, Seoul, Korea
Dear Colleagues and Friends,

It is our great pleasure to invite you to the 26th Congress of the Asian Pacific Society of Respirology (APSR 2022), which will take place on 17-20 November 2022 at Coex in Seoul, Republic of Korea.

This is the second time that Korea has been given the honor to host this prestigious event since the 2009 congress in Seoul. At the APSR 2022, under the theme “Above and Beyond” a large number of professors, doctors, researchers, nurses, and distinguished leaders from Asia will get together to discuss recently emerging issues and exchange the latest information in the field of Respiratory Diseases, Critical Care Medicine, Oncology, and Clinical Immunology.

The APSR 2022 scientific program will propose high-quality scientific sessions that will provide deeper knowledge and new perspectives on the related themes. The program will be a highly rewarding international platform for all the participants and will contribute to enhancing the scientific level and quality of our field.

Seoul, the host city of the APSR 2022. Rich in historical and cultural heritage, it also offers all the possible conveniences and world-class facilities of the international megalopolis that it has become today. November, with its pleasant weather, is the best time to enjoy the beautiful natural scenery that the capital has to offer.

We look forward to welcoming you and your colleagues to the APSR 2022, which promises to be meaningful and fruitful to all the participants.

Warmest Regards,

David CL Lam
President, Asian Pacific Society of Respirology

Ki-Suck Jung
President, APSR 2022
Local Congress Committee
Professor, Hallym University College of Medicine

Jae Jeong Shim
Secretary General, APSR 2022
Local Congress Committee
Professor, Korea University College of Medicine

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Vice Secretary General, APSR 2022
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Local Congress Committee
Professor, The Catholic University of Korea College of Medicine

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Vice Secretary General, APSR 2022
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Professor, Konkuk University School of Medicine

Chin Kook Rhee
Vice Secretary General, APSR 2022
Local Congress Committee
Professor, The Catholic University of Korea College of Medicine

Above and beyond – time to move on and catch up

With the COVID-19 pandemics over the past three years, one APSR Congress was deferred from 2020 to 2021 to become the APSR Congress Kyoto in 2021 that was held in a hybrid format. This APSR Congress in Seoul 2022 will be held in a close to previous format of physical attendance and meeting like what we used to have before the pandemics. This represented a bold commitment from APSR and the Congress committees towards recovery from COVID-19 pandemics. We do hope to stay connected with members in the region and collegiate society members around the world.

Besides the rich contents as previous APSR Congress program fully packed this time with postgraduate courses, scientific symposia, plenary sessions, oral and poster presentation sessions, with internationally renowned experts invited to speak and to chair discussion sessions, we have introduced two new sessions.

On the first day of the Congress, there will be a new Big 5 Lung Diseases Workshop where APSR, WHO and the Union have gathered new population and community management models for important respiratory diseases including asthma, chronic obstructive pulmonary diseases, pneumonia, tuberculosis and lung cancer for discussion and evaluation by leaders from WHO, ATS, ERS and the Union. On the fourth day of the Congress, there is another new session of Joint APSR-GOLD where representatives from the GOLD committee will discuss and bring us updates on COPD management.

On behalf of APSR, I would like to take this chance to thank both the Central and the Local Congress Committees in Korea for making this Congress happened. May I extend our warm APSR welcome to all society leaders, delegates and participants, and wish you all an enjoyable and memorable APSR Congress in Seoul 2022!
## OVERVIEW

### Congress Overview

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<td>Venue</td>
<td>Coex, Seoul, Korea</td>
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<td>Hosted by</td>
<td>Asian Pacific Society of Respirology (APSR)</td>
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<td>Sponsored by</td>
<td>The Korean Academy of Tuberculosis and Respiratory Diseases (KATRD)</td>
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**Expected Participants**: 2,000 Delegates from 50 Countries  
**Official Language**: English  
**Program**: Lecture, Symposium, Oral and Poster Discussion, Sponsored Symposium, Post-graduate Course, Opening/Closing Ceremony, Welcome Reception, Gala Dinner, Social Program, Tour Program, Exhibition, etc.  
**Website**: www.apsr2022.org

### Congress Logo

The logo for APSR 2022 was inspired by the 'Saekdongjeogori' (Hanbok), a Korean traditional attire. The harmony of the colorful stripes symbolizes the Asia-Pacific countries. The logo represents a variety of countries in the region, which come together for cooperation and advancement in the field of respirology so that members of APSR go above and beyond the current limitations and make a great leap forward.

## ABOUT THE APSR & KATRD

### Asian Pacific Society of Respirology

Having been established in 1986, the Asian Pacific Society of Respirology (APSR) held its first academic conference in Tokyo, Japan in October, 1988, before turning it into an annual occurrence in 2000. It has enjoyed continued growth and is now recognized as being almost on par with the American Thoracic Society (ATS) and the European Respiratory Society (ERS). APSR is aimed at promoting friendship and the sharing of the latest knowledge and research findings among physicians, nurses, lung function technicians, and respiratory rehabilitation therapists involved in the treatment of respiratory diseases in such Asia-Pacific countries/regions as Japan, Australia, New Zealand, Korea, China, Taiwan, Thailand, Singapore, and the Philippines.

### KATRD in Service of Humanity’s Respiratory Health and Happiness

Started as an academic arm of the Korean National Tuberculosis Association (KNTA) in November 1953, KATRD has become a society that boasts a long history and tradition. Despite significant challenges in the wake of the Korean War, the society’s first academic conference took place on November 7, 1953 thanks to its passion for research and its resolve for tuberculosis eradication. It was re-launched as the Korean Academy of Tuberculosis in 1961 and then renamed the Korean Academy of Tuberculosis and Respiratory Diseases (KATRD) in 1989.

KATRD’s focus on academic advances through exchanges and harmony among its members has been the catalyst for both its continued growth over the last 65 years and its unrivaled position as a prime organization in the research and treatment of respiratory diseases like tuberculosis. It now has more than 1,620 members and has hosted 127 academic conferences. Its official journal, "Tuberculosis and Respiratory Diseases (TRD)," has been listed on PubMed, contributing to the international dissemination of its research findings, and it strives to elevate the journal to the SCI level.

With today’s increased risks of respiratory diseases such as chronic obstructive pulmonary disease, lung cancer, bronchial asthma, and lung injury, KATRAD has designated Lung Day to promote the importance of pulmonary health and giving up smoking. This campaign to increase awareness among the general public has earned KATRD recognition as an exemplary academic society that fulfills its social responsibilities.
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The 26th Congress of the Asian Pacific Society of Respirology


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Dr. Moo Suk PARK  
FAPSR  
Republic of Korea

**Deputy Head**
Dr. Jin Woo Song  
Republic of Korea
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<td>Diana Yuwung Yeh</td>
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<td>Jason Phua</td>
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<td>Jeong Eun Lee</td>
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<td>Ji Ye Jung</td>
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Speakers

Ji-Eun Park
Ajou University School of Medicine, Republic of Korea

Ji-yong Moon
Hanyang University College of Medicine, Republic of Korea

Jin Woo Song
University of Ulsan College of Medicine, Republic of Korea

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Maastricht University Medical Center, Kingdom of the Netherlands

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Taichung Veterans General Hospital, Taiwan

Mona Bafadhel
King’s College London, United Kingdom

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Motoo Yamauchi
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Neil Schlager
Tuberculosis Control Branch, California Department of Public Health, U.S.A.

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Critical Care & Sleep Medicine, University of California San Diego, U.S.A.

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The Research Institute of Tuberculosis, Japan

Seok Jeong Lee
Yonsei University Wonyo College of Medicine, Republic of Korea

Seong Yong Lim
Sungkyunkwan University School of Medicine, Republic of Korea

Seong-Hoon Yoon
Pusan National University Yangsan Hospital, Republic of Korea

Seung Hyun Yong
Yonsei University College of Medicine, Republic of Korea

Seung Won Ra
Usan University Hospital, Republic of Korea

So Ri Kim
Chonbuk National University Medical School, Republic of Korea

So Young Park
Hallym University College of Medicine, Republic of Korea
The 26th Congress of the Asian Pacific Society of Respirology

**Speakers**

- **Soo-Jong Hong**
  University of Ulsan College of Medicine, Republic of Korea
- **Soon Ho Yoon**
  Seoul National University College of Medicine, Republic of Korea
- **Stefano Alliberti**
  University of Milan, Italy
- **Sun Mi Choi**
  Seoul National University College of Medicine, Republic of Korea
- **Sun-Young Kim**
  National Cancer Center, Republic of Korea
- **Sung Yong Lee**
  Korea University College of Medicine, Republic of Korea
- **Sung Yoon Lim**
  Seoul National University College of Medicine, Republic of Korea
- **Sunghoon Park**
  H. Lee Moffitt Cancer Center, U.S.A.
- **Sungjune Kim**
  Yeouido St. Mary Hospital, College of Medicine, Catholic University of Korea, Republic of Korea
- **Tai Joon An**
  Yonsei St. Mary Hospital, College of Medicine, Catholic University of Korea, Republic of Korea
- **Takashi Ogura**
  Kanagawa Cardiovascular and Respiratory Center, Japan
- **Takeshi Johkoh**
  Kawasaki Rosai Hospital, Japan
- **Takeshi Kaneko**
  Yokohama City University, Japan
- **Talant Sooronbaev**
  National Center of Cardiology and Internal Medicine, Kyrgyzstan
- **Toby Maher**
  University of Southern California, U.S.A.
- **Tsu F. Yeh**
  Taipei Medical University, Taiwan
- **Won Chul Cha**
  Samsung Medical Center, Sungkyunkwan University School of Medicine, Republic of Korea
- **Won-II Choi**
  Myongji Hospital, Republic of Korea
- **Won-Young Kim**
  Chung-Ang University Hospital, Republic of Korea
- **Woo Jin Kim**
  Kangwon National University, Republic of Korea
- **Woo-Jung Song**
  University of Ulsan College of Medicine, Republic of Korea
- **Yasuhiro Kondoh**
  Toyama General Hospital, Japan
- **Yeol Kim**
  National Cancer Center, Republic of Korea
- **Yeon Woak Kim**
  Seoul National University College of Medicine, Republic of Korea
- **Yoon-Mok Oh**
  University of Ulsan College of Medicine, Republic of Korea
- **Youlim Kim**
  Konkuk University School of Medicine, Republic of Korea
- **Young-Jae Cho**
  Seoul National University College of Medicine, Republic of Korea
- **Yuming Guo**
  School of Public Health and Preventive Medicine, Monash University, Australia

**AWARDS**

**APSR Medal**
- **Yoichi Nakanishi**
  Kitakyushu City Hospital Organization, Japan

**Michiyoshi Harasawa Research Award**
- **Chong-Jen Yu**
  National Taiwan University College of Medicine, Taiwan

**Ann Janet Woolcock Research Award**
- **Anne Chang**
  Menzies School of Health Research, Australia

**Fukuchi Award for Best Original Research Paper in Respirology**
- **Peter Wark**
  Hunter Medical Research Institute, Australia
  "ACE2 expression is elevated in airway epithelial cells from older and male healthy individuals but reduced in asthma"

**APSR ATS Young Investigator Award**
- **Alejandro A Pezzulo**
  University of Iowa, U.S.A.
- **Rachel S. Knipe**
  Massachusetts General Hospital, U.S.A.
The 26th Congress of the Asian Pacific Society of Respirology

APSR 2022

Olivia Carroll
The University of Newcastle and the Priority Research Centre for Healthy Lungs, Hunter Medical Research Institute - Newcastle Australia

Yusuke Shiraishi
Graduate School of Medicine, Kyoto University Japan

Ho Namkoong
Keio University School of Medicine Japan

Takanori Asakura
University of North Carolina at Chapel Hill U.S.A

APSR ERS Young Investigator Award

Ji-Young Lee
Inflammation-Cancer Microenvironment Research Center College of Medicine, Ewha Womans University Republic of Korea

Stephanie Palacios
West Visayas State University Medical Center Philippines

Adhitri Anggoro
Medical Faculty of Arlangua University / Dr. Soetomo General Academic Hospital Indonesia

Jooyeon Lee
Kangwon National University Republic of Korea

Yedham Kang
Korea University Ansan Hospital Republic of Korea

Shih-Yu Chen
National Taiwan University Hospital Hsin-Chu Branch Taiwan

Jimin Jang
Kangwon National University Republic of Korea

Yiting Tang
Sengkang General Hospital Singapore

Jooyeon Lee
Kangwon National University Republic of Korea

Shinya Otsuka
National Hospital Organization Hakodate National Hospital Japan

Yoshifumi Suzuki
Juntendo University Faculty of Medicine and Graduate School of Medicine Japan

APSR TSANZ Young Investigator Award

APSR JRS Young Investigator Award

Yong Suk Jo
Seoul St Mary Hospital, College of Medicine, The Catholic University of Korea Republic of Korea

Apisara Suriyakul
Thammasat University Faculty of Medicine Thailand

Nagesh Dhadge
Central Health Services India

Pyng Lee
National University of Singapore Singapore

Brian Nelson Ong
Lung Center of the Philippines Philippines

APSR Travel Award

Yina Wang
The Second Xiangya Hospital, CSU China

Jamaluddin Madolangan
 Hasanuddin University Indonesia

Narongkorn Saiphoklang
Thammasat University Faculty of Medicine Thailand

Yedham Kang
Korea University Ansan Hospital Republic of Korea

Shinya Otsuka
National Hospital Organization Hakodate National Hospital Japan

Yoshifumi Suzuki
Juntendo University Faculty of Medicine and Graduate School of Medicine Japan

APSR Young Investigator Award

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Juntendo University Faculty of Medicine and Graduate School of Medicine Japan
ON-DEMAND PLATFORM

Go to the On-demand Platform

apsr2022-ondemand.org

On-demand platform is available for both web and mobile versions.

Scan the QR Code

*On-demand platform will be available for 1 month after the congress. (Until 31 January 2023)

MOBILE APP

1. Scan QR Code
   Turn on camera or QR Code reader app for scanning.

2. Search the App at Mobile Store
   Install after searching ‘APSR 2022’ at Google play store or apple app store.

3. Open APSR 2022 app.

4. Click the date and check the on-going voting list, and click ‘UPDATE ANSWER’.

5. Check question and options for answers and cast a vote. -> When answer selection is completed will pop up.

6. Log in with the email on registration.

7. Check voting result statistics. -> Check the final result of voting count.

8. Click ‘Finished’ and check the list of completed voting. -> Click ‘SEE RESULT’ and check the voting result.

VOTING

How to use

You could log in the app and on-demand platform with e-mail address that you put for the registration.
Abstract & Publication
Abstract of the APSR 2022 (oral/poster) is only published in a mobile application and on-demand program.
(*the application access ID is your registration email).
The final version of the Respirology web publication will be announced later on the website.

Certificate of Attendance
Certificate of attendance will be sent through email after the congress.

Weather
In November, the average daily temperature is from 13°C to 14°C (55°F to 57°F). Warm days and cool nights, so a light coat is useful. For detailed information, please visit the official website of Korea Meteorological Administration.

Language
The official language of the congress is English. Simultaneous translation will NOT be provided.

APSR 2022 APP
Search APSR 2022 to install the congress interactive mobile app to your smartphone and portable device to access all the information you need!

Exhibition
Exhibition is held in Hall D2. The Lounges for Diamond Sponsors are located at the lobbies of Hall D2 (3rd floor), Auditorium (3rd floor) and Grand Ballroom (1st floor).

Poster Exhibition
Venue: Hall D (3F) lobby
Date & Time: 09:20-19:00, 18-19 November
Detail information of poster exhibitions are available on APSR2022 official website:
Program > Oral Presentation & Poster Exhibition
(or Board > Download Center)

Insurance
The Local Congress Committee (LCC) will take no liability for personal injuries sustained by, or for loss or damage to property belonging to congress participants, either during or as a result of the congress. It is, therefore, advised that participants arrange their own personal health, accident and travel insurance.

Mobile Phone (Roaming)
CDMA cellular systems are widely used in Korea. SK Telecom, KT and LG U+ provide a SIM card roaming service to allow you to use your GSM subscription in Korea. At Incheon International Airport, you can rent a special CDMA cellular phone which accepts your SIM card.

Currency & Foreign Exchange
Currency in Korea is KRW (South Korean Won) and there are four bill denominations of 1,000, 5,000, 10,000 and 50,000 won. As of November 2022, 1 US dollar is equivalent to 1,350 Korean Won. Foreign currencies could be easily exchanged to KRW at airports, major hotels, bank branches and foreign exchange booths. Please refer to Currency Converter on the internet for the latest exchange rate.

Badges
Name badges must be worn for admittance to all APSR 2022 programs. There will be a US$50 fee for replacement of badges.

Camera and Recording
Any electronic recording as well as photograph taking are NOT allowed in session rooms nor in the exhibit and poster areas.

Time Zone
Korea is 9 hours ahead of Greenwich Mean Time (GMT +9) and does not observe daylight savings time.
Credit Cards
Major credit cards like VISA, Master Card, American Express and Diners Club are widely accepted, but some small shops, restaurants and traditional markets only accept cash. For cash withdrawal or exchange, banks and ATMs are easy to find throughout Korea.

Tipping & Taxes
Tipping is not a Korean custom. A 10% service charge is added to your bill at all tourist hotels and tips are not expected. It is not necessary to tip a taxi driver unless he assists you with luggage or provides extra service. Visitors can receive a refund on a receipt for a minimum purchase of KRW 30,000.

Electricity
Standard electricity supply is 220 volts AC at 60Hz (with 2 round holes). Some hotels may provide outlet converters for 110 and 220 volts. Participants are advised to check with the hotel beforehand or bring an adapter.

Internet Access
As a leading nation in information technology, Korea provides one of the best internet connections worldwide. Take privilege of the world’s fastest internet speed through Wi-Fi for your convenience during your time in Korea.
- At Coex: Choose "COEX Free Wi-Fi Zone" or "SK wifi zone 5G" (ID: apsr2022 / PW: seoul2022) on your mobile device,
- At Starfield Coex Mall: Choose "Public Wi-Fi Free" on your mobile device,

Smoking Policy
Smoke free Area

Prayer Room
3rd Floor (Near by Conference Room E)
Opening Hours: 03:00-22:00

Secretariat Office
Service are available in room 205A during business hours :
Wednesday 16 November 07:00-22:00
Thursday 17 November 06:30-22:00
Friday 18 November 06:30-22:00
Saturday 19 November 06:30-22:00
Sunday 20 November 06:30-15:00

Registration & Tours & Accommodation
Grand Ballroom Lobby during business hours:
Wednesday 16 November 14:00-17:00
Thursday 17 November 07:30-18:00
Friday 18 November 07:30-18:00
Saturday 19 November 07:30-18:00
Sunday 20 November 07:30-13:00

FAPSR Lounge
Service are available in room 210 during business hours:
Thursday 17 November 09:30-18:00
Friday 18 November 09:30-18:00
Saturday 19 November 09:30-18:00
Sunday 20 November 09:00-13:00

Preview Room & Speaker’s Lounge (201)
Speakers may preview and upload their presentation(s) in room 201 during business hours:
Wednesday 16 November 14:00-18:00
Thursday 17 November 08:00-18:00
Friday 18 November 07:30-18:00
Saturday 19 November 07:30-18:00
Sunday 20 November 07:30-13:00

Venue
Address. 513, Yeongdong-daero, Gangnam-gu, Seoul 06164, Korea
Tel. +82-2-6000-0114
Website. https://www.coexcenter.com
Map. https://goo.gl/maps/SFuprQpckL2bDp7H6
OPENING CEREMONY AND SOCIAL PROGRAMS

Opening Ceremony & Welcome Reception
All registered participants and exhibitors are cordially invited to the Opening Ceremony. You are kindly requested to wear your badge for recognition. After the Opening Ceremony, all attendees are invited to attend the Welcome Reception, giving you a taste of Korea.

Date: Thursday 17 November 2022
Time: 17:30-20:30
Venue: Hall D1, 3F, Coex
Entrance: All Delegates
Dress Code: Business casual

Gala Dinner
Catch up with experts from all over the globe and enjoy the selection of Korean cuisines during the dinner. Award winners will be presented at the event.

Date: Saturday 19 November 2022
Time: 19:30-21:30
Venue: Hall D1, 3F, Coex
Entrance: Invitation and ticket only
Dress Code: Business casual

Closing Ceremony
Next congress will be introduced during Closing Ceremony.

Date: Sunday 20 November 2022
Time: 12:50-13:20
Venue: Grand Ballroom 103,1F, Coex
Entrance: All Delegates
Dress Code: Business casual

APSR ASSEMBLY MEETINGS

Friday 18 November 2022, 17:30-19:00

<table>
<thead>
<tr>
<th>Location</th>
<th>Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd FL</td>
<td>206A Pulmonary Circulation</td>
</tr>
<tr>
<td></td>
<td>206B Respiratory Neurobiology and Sleep</td>
</tr>
<tr>
<td></td>
<td>207 Cell and Molecular Biology</td>
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<tr>
<td></td>
<td>211 Asthma</td>
</tr>
<tr>
<td>3rd FL</td>
<td>R1 Respiratory Infections (non-tuberculous)</td>
</tr>
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<td></td>
<td>R2 COPD</td>
</tr>
<tr>
<td>4th FL</td>
<td>R3 Interstitial Lung Disease</td>
</tr>
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<td></td>
<td>R4 Clinical Respiratory Medicine</td>
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</tbody>
</table>

Saturday 19 November 2022, 17:30-19:00

<table>
<thead>
<tr>
<th>Location</th>
<th>Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd FL</td>
<td>206A Respiratory Structure and Function</td>
</tr>
<tr>
<td></td>
<td>206B Paediatric Lung Disease</td>
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<td></td>
<td>207 Clinical Allergy &amp; Immunology</td>
</tr>
<tr>
<td></td>
<td>211 Environmental &amp; Occupational Health and Epidemiology</td>
</tr>
<tr>
<td>3rd FL</td>
<td>R1 Tuberculosis</td>
</tr>
<tr>
<td></td>
<td>R2 Lung Cancer</td>
</tr>
<tr>
<td>4th FL</td>
<td>R3 Critical Care Medicine</td>
</tr>
<tr>
<td></td>
<td>R4 Bronchoscopy and Interventional Techniques</td>
</tr>
</tbody>
</table>

APSR Annual General Meeting (AGM)

Thursday 17 November, 16:45-17:15
Location: 2nd FL 209A&B
### PROGRAM AT-A-GLANCE

#### Thursday 17 November 2022

<table>
<thead>
<tr>
<th>Time/Room</th>
<th>Grand Ballroom 101 (1F)</th>
<th>Grand Ballroom 102 (1F)</th>
<th>Grand Ballroom 103 (1F)</th>
<th>Grand Ballroom 104 (1F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-12:00</td>
<td>Pre-congress Workshop 1 (Hands on Session)</td>
<td>Pre-congress Workshop 2</td>
<td>Pre-congress Workshop 3</td>
<td>Critical Care Medicine</td>
</tr>
<tr>
<td>12:15-13:45</td>
<td>Lunch</td>
<td></td>
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<td>Lung Cancer</td>
</tr>
<tr>
<td>14:00-17:00</td>
<td>Pre-congress Workshop 5 (Hands on Session)</td>
<td>Pre-congress Workshop 6</td>
<td>Pre-congress Workshop 7</td>
<td>Asthma</td>
</tr>
<tr>
<td>17:30-20:30</td>
<td>Bronchoscopy and Interventional Techniques</td>
<td>Pulmonary Circulation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Friday 18 November 2022

<table>
<thead>
<tr>
<th>Time/Room</th>
<th>Grand Ballroom 105 (1F)</th>
<th>ASEM Ballroom 202+203 (2F)</th>
<th>206A, 206B, 207, 211 (2F), 300 (3F) / R1, R2 (3F) / R3, R4 (4F), Etc.</th>
<th>Hall D (3F)</th>
<th>Hall D Foyer (3F)</th>
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</thead>
<tbody>
<tr>
<td>08:10-09:10</td>
<td>Presidential Lecture 1</td>
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<tr>
<td>09:20-10:50</td>
<td>Oral 1</td>
<td>Oral 2</td>
<td>Oral 3</td>
<td>Oral 4</td>
<td></td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>Coffee Break</td>
<td></td>
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</tr>
<tr>
<td>11:10-12:40</td>
<td>Symposium 1</td>
<td>Symposium 2</td>
<td>Symposium 3</td>
<td>Symposium 4</td>
<td>Oral 5</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>Symposium 9</td>
<td>Symposium 10</td>
<td>Symposium 11</td>
<td>Symposium 12</td>
<td>Oral 7</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>Coffee Break</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>15:50-17:20</td>
<td>Symposium 13</td>
<td>Symposium 14</td>
<td>Symposium 15</td>
<td>Symposium 16</td>
<td>Young Investigator Awards 1</td>
</tr>
<tr>
<td>17:30-18:30</td>
<td>Evening Symposium 1</td>
<td>Evening Symposium 2</td>
<td>Evening Symposium 3</td>
<td>Evening Symposium 4</td>
<td></td>
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<tr>
<td>18:30-19:00</td>
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</tr>
</tbody>
</table>
# Pre-congress Workshop 1 09:00-12:00  Grand Ballroom 101 +102 (1F)

**Critical Care Medicine**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:20</td>
<td>PW01-1</td>
<td>Pre-survey &amp; Basic Approach of PoCUS in ICU</td>
<td>Young-Jae Cho</td>
<td>Seoul National University College of Medicine, Republic of Korea</td>
</tr>
<tr>
<td>09:20-09:40</td>
<td>PW01-2</td>
<td>Lung US for Respiratory Failure</td>
<td>Jinwoo Lee</td>
<td>Seoul National University Hospital, Republic of Korea</td>
</tr>
<tr>
<td>09:40-10:00</td>
<td>PW01-3</td>
<td>POCUS in Pleural Disease</td>
<td>Tai Joon An</td>
<td>Yeouido St. Mary Hospital, College of Medicine, Catholic University of Korea, Republic of Korea</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>PW01-4</td>
<td>POCUS in COVID-19 Pneumonia</td>
<td>Sung Yoon Lim</td>
<td>Seoul National University College of Medicine, Republic of Korea</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>PW01-5</td>
<td>POCUS in MV Weaning</td>
<td>Kyung Soo Chung</td>
<td>Severance Hospital, Republic of Korea</td>
</tr>
<tr>
<td>11:00-11:40</td>
<td>PW01-6</td>
<td>Simulation of Various Clinical Cases (Hands-on)</td>
<td>Young-Jae Cho, Jinwoo Lee, Tai Joon An, Sung Yoon Lim, Kyung Soo Chung, Ji-Eun Park</td>
<td></td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>PW01-7</td>
<td>Wrap up &amp; Post Survey</td>
<td>Ji-Eun Park</td>
<td>Ajou University School of Medicine, Republic of Korea</td>
</tr>
</tbody>
</table>

# Pre-congress Workshop 2 09:00-12:00  Grand Ballroom 103 (1F)

**Lung Cancer**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:30</td>
<td>PW02-1</td>
<td>History and Current Status of National Lung Cancer Screening Program in Korea</td>
<td>Yeol Kim</td>
<td>National Cancer Center, Republic of Korea</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>PW02-2</td>
<td>USPSTF Lung Cancer Screening</td>
<td>Patricia Rivera</td>
<td>University of Rochester Medical Center, USA</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>PW02-3</td>
<td>Optimal Management of Pulmonary Nodules</td>
<td>Yeon Wook Kim</td>
<td>Seoul National University, College of Medicine, Republic of Korea</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>PW02-4</td>
<td>Blood-Based Biomarkers</td>
<td>Chaeuk Chung</td>
<td>Chungnam National University, College of Medicine, Republic of Korea</td>
</tr>
</tbody>
</table>
### Pre-congress Workshop 3
**COPD**

**Chair:** Yeon-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)

**09:00-09:30**
- **PW03-1** Genetics of COPD  
  **Woo Jin Kim** (Kangwon National University, Republic of Korea)

**09:30-10:00**
- **PW03-2** What is Early COPD and Why is It Important?  
  **Youlim Kim** (Konkuk University School of Medicine, Republic of Korea)

**10:00-10:30**
- **PW03-3** Natural History of COPD  
  **Joo Hun Park** (Ajou University School of Medicine, Republic of Korea)

**10:30-11:00**
- **PW03-4** COPD & Microbiome  
  **Se Hee Lee** (CH-A University, Republic of Korea)

**11:00-11:30**
- **PW03-5** Goals of COPD Treatment; Focus on Symptom and Exacerbation  
  **Deog Kyeom Kim** (Seoul National University College of Medicine, Republic of Korea)

**11:30-12:00**
- **PW03-6** What is COPD Exacerbation? Current Definition, Pitfalls, Challenges and Opportunities for Improvement  
  **Richard Russell** (University of Oxford, United Kingdom)

### Pre-congress Workshop 4
**Tuberculosis**

**Chair:** Seung Heon Lee (Korea University College of Medicine, Republic of Korea)

**09:00-09:30**
- **PW04-1** Global Diagnostic Gap in TB  
  **Neil Schluger** (Tuberculosis Control Branch, California Department of Public Health, U.S.A.)

**09:30-10:00**
- **PW04-2** Rapid Molecular Diagnosis of TB and Drug Resistance  
  **Chang Ki Kim** (Seoul Clinical Laboratories, Republic of Korea)

**10:00-10:30**
- **PW04-3** The Role of WGS/NGS in TB Diagnosis and Transmission  
  **Jann-Yuan Wang** (National Taiwan University, Taiwan)

**10:30-11:00**
- **PW04-4** The Role of Chest Image and Advances in TB Diagnosis  
  **Soon Ho Yoon** (Seoul National University College of Medicine, Republic of Korea)

**11:00-11:30**
- **PW04-5** Non-Sputum Based Diagnosis of TB  
  **Satoshi Mitarai and Seiya Kato** (The Research Institute of Tuberculosis, Japan)

**11:30-12:00**
- **PW04-6** Diagnostic Challenge in Pediatric TB (including LTBI)  
  **Byeong Wook Eun** (Nowon Euji Medical Center, Republic of Korea)

### Pre-congress Workshop 5
**Bronchoscopy and Interventional Techniques (Hands on Session)**

**Chair:** Young Sik Park (Seoul National University College of Medicine, Republic of Korea)

**14:00-17:00**
- **PW05-1** Bronchial Branch Tracing First step for RP-EBUS procedures  
  **Jung Seep Eom** (Pusan National University Hospital, Republic of Korea)

**14:00-17:00**
- **PW05-2** How to perform TBLB using radial probe EBUS  
  **June Hong Ahn** (Yeungnam University Medical Center, Republic of Korea)

**14:00-17:00**
- **PW05-3** Hands on Practice  
  **Seung Hyun Yong** (Yonsei University College of Medicine, Republic of Korea)

### Pre-congress Workshop 6
**Pulmonary Circulation**

**Chairs:** Yee Hyung Kim (Kyung Hee University School of Medicine, Republic of Korea), Hun-Gyu Hwang (Soon Chun Hyang University Gumi’s Hospital, Republic of Korea)

**14:00-14:30**
- **PW06-1** Natural History and Pathophysiology of VTE  
  **Jung-Wan Yoo** (Gyeongsang National University Hospital, Republic of Korea)

**14:30-15:00**
- **PW06-2** Diagnosis and Management Algorithm for Acute PE  
  **Talant Sooronbaev** (National Center of Cardiology and Internal Medicine, Kyrgyzstan)

**15:00-15:30**
- **PW06-3** Practical Guidance for Anticoagulation in the Treatment of VTE  
  **Hang Jea Jang** (Inje University Haeundae Paik Hospital, Republic of Korea)

**15:30-16:00**
- **PW06-4** Evolution of PAH and CTEPH  
  **Nick Kim** (Critical Care & Sleep Medicine, University of California San Diego, U.S.A.)

**16:00-16:30**
- **PW06-5** Pulmonary Hypertension in Chronic Lung Disease  
  **Jae Seung Lee** (University of Ulsan College of Medicine, Republic of Korea)

**16:30-17:00**
- **PW06-6** Pulmonary Arteriovenous Malformation  
  **Won-Young Kim** (Chung-Ang University Hospital, Republic of Korea)
### Pre-congress Workshop 7
**Asthma**

**Chair**: Ji-Young Moon (Hanyang University College of Medicine, Republic of Korea)

- **14:00-14:30**
  - PW07-1: Biomarkers of Asthma
    - So Ri Kim (Chonbuk National University Medical School, Republic of Korea)
  - PW07-2: Immunotherapy in Allergic Asthma
    - Ga-Young Ban (Hallym University College of Medicine, Republic of Korea)
  - PW07-3: Microbiome in Asthma
    - Kyoung-Hee Sohn (Kyung Hee University School of Medicine, Republic of Korea)
  - PW07-4: Asthma-COPD Overlap
    - Hye Jung Park (Gangnam Severance Hospital, Republic of Korea)
  - PW07-5: Biologic Therapy in Severe Asthma
    - Joo-Hee Kim (Hallym University College of Medicine, Republic of Korea)
  - PW07-6: Treatment Beyond Biologics in Severe Asthma
    - Woo-Jung Song (University of Ulsan College of Medicine, Republic of Korea)

### Pre-congress Workshop 8
**Interstitial Lung Disease**

**Chair**: Jong Sun Park (Seoul National University College of Medicine, Republic of Korea)

- **14:00-14:30**
  - PW08-1: How to Approach to Patients with ILD?
    - Byoungsoo Kwon (Seoul National University College of Medicine, Republic of Korea)
  - PW08-2: Key HRCT Findings in ILDs for Pulmonologist
    - Jung Hwa Hwang (Soonchunhyang University College of Medicine, Republic of Korea)
  - PW08-3: Update of IPF: Diagnosis and Management
    - Jae Ha Lee (Inje University College of Medicine, Republic of Korea)
  - PW08-4: New Concept of Progressive Pulmonary Fibrosis: Definition and Management
    - Won Il Choi (Myongji Hospital, Republic of Korea)
  - PW08-5: Update of Hypersensitivity Pneumonitis
    - Hongseok Yoo (Sungkyunkwan University School of Medicine, Republic of Korea)
  - PW08-6: Treatment Strategies for CTD Associated ILD
    - Hye Sook Choi (Kyung Hee University School of Medicine, Republic of Korea)
<table>
<thead>
<tr>
<th>Symposium 4</th>
<th>09:20-10:50</th>
<th>Grand Ballroom 103 (1F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lung Cancer - Meet the Professor</td>
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<tr>
<td><strong>Chair</strong></td>
<td>Sita Andarini (University of Indonesia; Persahabatan Hospital, Indonesia)</td>
<td></td>
</tr>
<tr>
<td><strong>SO4-1</strong></td>
<td>Natural history, diagnosis and treatment of driver mutations</td>
<td>Kwun Fong (The University of Queensland, Australia)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symposium 5</th>
<th>11:10-12:40</th>
<th>Auditorium (3F)</th>
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<tbody>
<tr>
<td>Asthma - ISAR in Asia Pacific</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Diahn-Warng Perng (Taipei Veterans General Hospital, Taiwan)</td>
<td>Kwang Ha Yoo (Konkuk University School of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO5-1</strong></td>
<td>Current ISAR State in Korea</td>
<td>Kwang Ha Yoo (Konkuk University School of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO5-2</strong></td>
<td>Current ISAR State in Taiwan</td>
<td>Diahn-Warng Perng (Taipei Veterans General Hospital, Taiwan)</td>
</tr>
<tr>
<td><strong>SO5-3</strong></td>
<td>Current ISAR State in the World</td>
<td>Ruth Murray (Director Medscript Ltd NZ &amp; Research Fellow, OPC, New Zealand)</td>
</tr>
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<tr>
<th>Symposium 6</th>
<th>11:10-12:40</th>
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<tbody>
<tr>
<td>Bronchoscopy and Interventional Techniques - Bronchoscopy; Present and Future</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Phan Nguyen (The Royal Brisbane and Women’s Hospital, Australia)</td>
<td>Hojoong Kim (Sungkyunkwan University School of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO6-1</strong></td>
<td>Rigid Bronchoscopy for Benign and Malignant Diseases</td>
<td>Hojoong Kim (Sungkyunkwan University School of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO6-2</strong></td>
<td>EBUS-TBNA for Lung Cancer Staging: An Update</td>
<td>Bin Hwangbo (National Cancer Center, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO6-3</strong></td>
<td>Advanced Bronchoscopy for the Peripheral Lesions</td>
<td>Fumihiro Asano (Gifu Prefectural General Medical Center, Japan)</td>
</tr>
</tbody>
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<th>Symposium 7</th>
<th>11:10-12:40</th>
<th>Grand Ballroom 102 (1F)</th>
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<tbody>
<tr>
<td>Pulmonary Circulation - COVID-19 and Pulmonary Circulation</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Talant Sooronbaev (National Center of Cardiology and Internal Medicine, Kyrgyzstan)</td>
<td>Yang-Ki Kim (Sungkyunkwan University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO7-1</strong></td>
<td>COVID-19 Associated Coagulopathy</td>
<td>Hun-Gyu Hwang (Sungkyunkwan University Gumi’s Hospital, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO7-2</strong></td>
<td>Prevention and Therapeutic Strategies for VTE in Patients with COVID-19</td>
<td>Nick Kim (Critical Cares &amp; Sleep Medicine, University of California San Diego, USA)</td>
</tr>
<tr>
<td><strong>SO7-3</strong></td>
<td>Differences in Pulmonary Circulation among COVID-19, HAPE (High Altitude Pulmonary Edema) and ARDS</td>
<td>Talant Sooronbaev (National Center of Cardiology and Internal Medicine, Kyrgyzstan)</td>
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<th>Symposium 8</th>
<th>11:10-12:40</th>
<th>Grand Ballroom 103 (1F)</th>
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<tbody>
<tr>
<td>Interstitial Lung Disease - Hot and Current Topics in ILD</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Takashi Ogura (Kanagawa Cardiovascular and Respiratory Center, Japan)</td>
<td>Yangjin Jegal (University of Ulsan College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO8-1</strong></td>
<td>Health Effect of Air Pollution in ILD</td>
<td>Sun-Young Kim (National Cancer Center, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO8-2</strong></td>
<td>The Impact of COVID-19 on Patients with Underlying Interstitial Lung Disease (ILD)</td>
<td>Takashi Ogura (Kanagawa Cardiovascular and Respiratory Center, Japan)</td>
</tr>
<tr>
<td><strong>SO8-3</strong></td>
<td>Progressive Pulmonary Fibrosis: Where are We Now?</td>
<td>Jin Woo Song (University of Ulsan College of Medicine, Republic of Korea)</td>
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</tbody>
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<tr>
<th>Symposium 9</th>
<th>14:00-15:30</th>
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<tbody>
<tr>
<td>Clinical Respiratory Medicine - with COVID-19</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Ki-Suck Jung (Hallym University College of Medicine, Republic of Korea)</td>
<td>Jae Yeol Kim (Chung-Ang University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO9-1</strong></td>
<td>Post-Covid Sequelae</td>
<td>Eun Young Heo (Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO9-2</strong></td>
<td>COVID-19 and Lung fibrosis</td>
<td>Hee-Young Yoon (Sungkyunkwan University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO9-3</strong></td>
<td>Covid &amp; Airway Diseases</td>
<td>Seok Jeong Lee (Yonsei University Wonju College of Medicine, Republic of Korea)</td>
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<tr>
<th>Symposium 10</th>
<th>14:00-15:30</th>
<th>Grand Ballroom 101 (1F)</th>
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<tbody>
<tr>
<td>Environmental &amp; Occupational Health and Epidemiology - Climate Change and Respiratory Diseases</td>
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<tr>
<td><strong>Chairs</strong></td>
<td>Yuming Guo (School of Public Health and Preventive Medicine, Monash University, Australia)</td>
<td>HyoungKyu Yoon (The Catholic University of Korea College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO10-1</strong></td>
<td>Global Trends in Climate Change</td>
<td>Ho Kim (Graduate School of Public Health, Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td><strong>SO10-2</strong></td>
<td>Role of Climate Change and Viral Infection on Seasonality of Mortality</td>
<td>Lina Madaniyazi (Nagasaki University, Japan)</td>
</tr>
<tr>
<td><strong>SO10-3</strong></td>
<td>Asia-Pacific Aspect of Climate Change</td>
<td>Yuming Guo (School of Public Health and Preventive Medicine, Monash University, Australia)</td>
</tr>
</tbody>
</table>
Symposium 11 14:00-15:30 Grand Ballroom 102 (1F)
Respiratory Neurobiology and Sleep - Personalised Approach to Treatment of Sleep Apnea
Chair Chol Shin (Korea University College of Medicine, Republic of Korea)

14:00-14:30 S11-1 Treatment strategies for asymptomatic OSA
Sei Won Kim (The Catholic University of Korea College of Medicine, Republic of Korea)

14:30-15:00 S11-2 Current Practice and Future Directions in Sleep Apnea Treatment
Motoo Yamauchi (Nara Medical University, Japan)

15:00-15:30 S11-3 Is the Apnea-Hypopnea Index Sufficient to Predict the Severity of Sleep Apnea? And What Else?
Sang Haak Lee (Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Republic of Korea)

Symposium 12 14:00-15:30 Grand Ballroom 103 (1F)
Respiratory Infections (non-tuberculous) - Frontiers in Respiratory Infection
Chairs Jung-Yien Chien (National Taiwan University Hospital, National Taiwan University College of Medicine, Taiwan)
Soo-Jung Um (Dong A University College of Medicine, Republic of Korea)

14:00-14:30 S12-1 Effect of AI-Chest PA Diagnosis on Emergency Physicians
Won Chul Cha (Samsung Medical Center, Sungkyunkwan University School of Medicine, Republic of Korea)

14:30-15:00 S12-2 The Role of Multiplex PCR on the Management of Ventilator Associated Pneumonia?
Jung-Yien Chien (National Taiwan University Hospital, National Taiwan University College of Medicine, Taiwan)

15:00-15:30 S12-3 Phages and Endolysins as Novel Antibacterials
Hee Joon Myung (Lyntech, Republic of Korea)

Symposium 13 15:50-17:10 Auditorium (3F)
Asthma - Pro/Con: As Needed ICS-Formoterol in Step 2 Treatment of Asthma
Chair Yeen-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)

15:50-15:55 Introduction & Voting

15:55-16:15 S13-1 Pro: As Needed ICS-Formoterol in Step 2 Treatment of Asthma
Phuong Phan Thu (Bach Mai Hospital, Vietnam)

16:15-16:35 S13-2 Con: As Needed ICS-Formoterol in Step 2 Treatment of Asthma
Mi-Ae Kim (CHA University, Republic of Korea)

16:35-16:50 Comment

16:50-17:05 Q&A

17:05-17:10 Voting & Closing

Symposium 14 15:50-17:20 Grand Ballroom 101 (1F)
Cell and Molecular Biology - New Potential Therapeutics in Respiratory Diseases: From Bench to Clinic
Chairs Gregory P. Downey (University of Colorado School of Medicine, U.S.A.)
Chul-Gyu Yoo (Seoul National University College of Medicine, Republic of Korea)

15:50-16:20 S14-1 Mitochondrial Regulation of Innate Immune Signaling and Pulmonary Diseases
Min-Jong Kang (Korea University College of Medicine, Republic of Korea)

16:20-16:50 S14-2 Immune Mechanisms Driving Pulmonary and Systemic Inflammation in COVID-19
Gregory P. Downey (University of Colorado School of Medicine, U.S.A.)

16:50-17:20 S14-3 When Bronchoscopy Meet Cancer Immunotherapy: Photoimmunotherapy in Lung Cancer
Kazuhide Sato (Kagawa University, Japan)

Symposium 15 15:50-17:20 Grand Ballroom 102 (1F)
Lung Cancer - Recent Updated Immunotherapy
Chairs Patricia Rivera (University of Rochester Medical Center, U.S.A.)
Sei Hoon Yang (Wonkwang University School of Medicine, Republic of Korea)

15:50-16:20 S15-1 Immunotherapy Related Pneumonitis
Patricia Rivera (University of Rochester Medical Center, U.S.A.)

16:20-16:50 S15-2 Integration of Radiotherapy with Immunotherapy for Non-Small Cell Lung Cancer: A Radiation Oncologist’s Perspective
Sungjune Kim (H. Lee Moffitt Cancer Center, U.S.A.)

16:50-17:20 S15-3 The Role of Immune Checkpoint Inhibitors in Small Cell Lung Cancer
In-Jae Oh (Chonnam National University, Republic of Korea)

Symposium 16 15:50-17:10 Grand Ballroom 103 (1F)
Interstitial Lung Disease - Pro/Con: Controversy in Corticosteroid Pulse Therapy for the Treatment of AE of IPF
Chair Sung-Woo Park (Sungchunhyang University College of Medicine, Republic of Korea)

15:50-15:55 Introduction & Voting

15:55-16:15 S16-1 Pro: Corticosteroid Pulse Therapy Should be Included in Treatment of Acute Exacerbation of IPF
Yasuhiro Kondoh (Tosei General Hospital, Japan)

16:15-16:35 S16-2 Con: Corticosteroid Pulse Therapy is Not Necessary in Treatment of Acute Exacerbation of IPF
Moo Suk Park (Yonsei University College of Medicine, Republic of Korea)

16:35-16:50 Comment

16:50-17:05 Q&A

17:05-17:10 Voting & Closing
### Luncheon Symposium 1
**12:50-13:50**  Grand Ballroom 101 (1F)
Sponsored by DAEWON Pharmaceutical Co., Ltd.

**Acute Bronchitis**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:50-13:50</td>
<td>Clinical Value and Advantages of New Antitussive</td>
<td>Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)</td>
</tr>
</tbody>
</table>

### Luncheon Symposium 2
**12:50-13:50**  Grand Ballroom 102 (1F)
Sponsored by Boehringer Ingelheim Korea

**IPF - Evidence-Based Approach in Early Treatment for IPF**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>12:50-12:55</td>
<td>Welcome &amp; Introduction</td>
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</tr>
<tr>
<td>12:55-13:25</td>
<td>Clinical Course of IPF &amp; Evidence Based Approach in Early Treatment for IPF with RWE Patient Cases</td>
<td>Martin Kolb (McMaster University, Canada)</td>
</tr>
</tbody>
</table>
| 13:25-13:45 | Discussion                                                              | Man Pyo Chung (Sungkyunkwan University School of Medicine, Republic of Korea)  
|              |                                                                        | Amornpun Wonqkarnjana (King Chualongkorn Memorial Hospital, Thailand)  
|              |                                                                        | Martin Kolb (McMaster University, Canada)  
| 13:45-13:50 | Summary & Conclusion                                                    |                                                     |

### Luncheon Symposium 3
**12:50-13:50**  Grand Ballroom 103 (1F)
Sponsored by OSK

**COPD**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>12:50-13:15</td>
<td>Importance of Maximal Bronchodilation from the Start</td>
<td>Hye Yun Park (Sungkyunkwan University School of Medicine, Republic of Korea)</td>
</tr>
</tbody>
</table>
| 13:15-13:40 | The Real World Evidence of Single Inhaler Triple Therapy              | Gregory King (Royal North Shore Hospital, Australia)  
| 13:40-13:50 | Q&A                                                                    |                                                     |

### Luncheon Symposium 4
**12:50-13:50**  Grand Ballroom 104 (1F)
Sponsored by AstraZeneca Korea

**COPD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>12:50-13:50</td>
<td>Management Strategies to Reduce the Clinical Burden of COPD</td>
<td>Mona Bafadhel (King's College London, United Kingdom)</td>
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</tbody>
</table>

### Luncheon Symposium 5
**12:50-13:50**  Grand Ballroom 105 (1F)
Sponsored by sanofi

**Asthma**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>12:50-13:50</td>
<td>Evolution in the Management of Severe Asthma</td>
<td>Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)</td>
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</tbody>
</table>

### Luncheon Symposium 6
**12:50-13:50**  ASEM Ballroom 202+203 (2F)
Sponsored by YUHAN

**Cancer**

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<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>12:50-13:50</td>
<td>New Era of NSCLC EGFR Mutation Treatment Updated Overall Survival Analysis: 3G EGFR TKI Lazertinib</td>
<td>Sung Yong Lee (Korea University College of Medicine, Republic of Korea)</td>
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</tbody>
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**APSR 2022**
The 28th Congress of the Asian Pacific Society of Respirology

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**SCIENTIFIC PROGRAM**
**Evening Symposium 1**

17:30-18:30 Grand Ballroom 101 (1F)

Sponsored by OLYMPUS KOREA CO., LTD

**Bronchoscopy and Interventional Techniques**

**Chair** Bin Hwangbo (National Cancer Center, Republic of Korea)

17:30-18:30

- ES01-1 Clinical Tips for Transbronchial Biopsy Using Radial Probe EBUS
  Jung Seop Eom (Pusan National University Hospital, Republic of Korea)

**Evening Symposium 2**

17:30-18:30 Grand Ballroom 102 (1F)

Sponsored by Thermo Fisher Scientific Korea

**Procalcitonin**

**Chair** Gee Young Suh (Department of Pulmonology and Critical Care Medicine, Samsung Medical Center, Republic of Korea)

17:30-18:30

- ES02-1 Procalcitonin Usefulness to Monitor ABx for Pneumonia Patients
  Stefano Alberti (University of Milan, Italy)

**Evening Symposium 3**

17:30-18:30 Grand Ballroom 103 (1F)

Sponsored by Boryung Co.

**Carbapenem Sparing**

**Chair** Sang Bum Hong (University of Ulsan College of Medicine, Republic of Korea)

17:30-18:30

- ES03-1 HAP & VAP: Importance of Carbapenem-sparing Strategy
  Bong Young Kim (Hanyang University Hospital, Republic of Korea)

**Evening Symposium 4**

17:30-18:30 Grand Ballroom 104 (1F)

Sponsored by GSK

**Severe Asthma**

**Chair** Yeon-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)

17:30-17:55

- ES04-1 The Clinical Development of Mepolizumab in Severe Asthma: The First Treatment Targeting a Specific Treatable Trait
  Ian Pavord (University of Oxford, United Kingdom)

17:55-18:20

- ES04-02 The Clinical Benefits of Mepolizumab for Severe Eosinophilic Asthma in Real-World Study
  Gregory King (Royal North Shore Hospital, Australia)

18:20-18:30 Q&A

**Evening Symposium 5**

17:30-18:30 Grand Ballroom 105 (1F)

Sponsored by GSK

**Infectious Diseases**

**Chair** Eunjo Choo (Soonchunhyang University Hospital Bucheon, Republic of Korea)

17:30-18:30

- ES05-1 Shingles Vaccine in COPD, Asthma Patient (Infectious Diseases)
  Sunhee Park (Soonchunhyang University Hospital Bucheon, Republic of Korea)

**Evening Symposium 6**

17:30-18:30 ASEM Ballroom 202 + 203 (2F)

Sponsored by Boehringer Ingelheim Korea

**COPD - Current Pharmacological Approaches in COPD**

**Chair** Yong Bum Park (Hallym University College of Medicine, Republic of Korea)

17:30-17:35 Opening

17:35-17:50

- ES06-1 Current Therapeutic Approaches in COPD
  Youlim Kim (Kongsik University School of Medicine, Republic of Korea)

17:50-18:05

- ES06-2 Device Selection for COPD
  James Chalmers (University of Dundee, United Kingdom)

18:05-18:20

- ES06-3 “Keep the Balance” in ICS Containing Regimens
  James Chalmers (University of Dundee, United Kingdom)

18:20-18:30 Q&A
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<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Chair/Authors</th>
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<tr>
<td>15:50-17:20</td>
<td>Young Investigator Awards 1</td>
<td>Grand Ballroom 104 (1F)</td>
<td>Chair: Albert Yick-Hou Lim (Tan Tock Seng Hospital, Singapore)</td>
</tr>
<tr>
<td>15:50-15:58</td>
<td>YIA-1-1</td>
<td></td>
<td>Alejandro A Pezzullo (U.S.A.), Miles Hagney, Brandon Bettis, Huyu Gong, Andrew Thurman, Naveel Hamzaeh</td>
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<tr>
<td>15:58-16:06</td>
<td>YIA-1-2</td>
<td></td>
<td>Loss of Endothelial Sphingosine-1-Phosphate Receptor 1 (SIPR1)</td>
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<td>Exacerbates Injury-Induced Pulmonary Fibrosis</td>
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<td>Rachel S. Knipe (U.S.A.), Patricia L. Breeze, Clemens K. Probst, Jason Griffith, Lida Hanri, Timothy Ha, Benjamin D. Meroff</td>
</tr>
<tr>
<td>16:06-16:14</td>
<td>YIA-1-3</td>
<td></td>
<td>Correlation between hand grip strength and peak inspiratory flow rate in patients with stable chronic obstructive pulmonary disease</td>
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<td>Apisara Suriyakul (Thailand), Narongkim Saiphoklang, Igor Barlagaterev, Christopher Cooper</td>
</tr>
<tr>
<td>16:14-16:22</td>
<td>YIA-1-4</td>
<td></td>
<td>Prevention, Characteristics, and Risk of Exacerbation in Young patients with Chronic Obstructive Pulmonary Disease</td>
</tr>
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<td>Yong Suk Jo (Republic of Korea), Kyung Joo Kim, Choon Kook Rhee, Kwang Hyo Yoo, Ki-Suck Jang, Yong-Sun Park</td>
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<tr>
<td>16:22-16:30</td>
<td>YIA-1-5</td>
<td></td>
<td>A Relationship between Female Sex Hormones, Cellular Metabolism, and Asthma</td>
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<td></td>
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<td>Olivia Carrol (Australia), Alexandra Brown, Jamima Mayall, Henry Gomez, Richard Kim, Chantal Donovan, Evan Williams, Bronwyn Berthon, James Pinkerton, Philip Hanrsta, Paul Foster, Kate Wynne, Hayley Scott, Lisa Wood, Jay Honnat</td>
</tr>
<tr>
<td>16:30-16:38</td>
<td>YIA-1-6</td>
<td></td>
<td>Distinct impacts of centrilobular vs. paraseptal emphysema on annual decline in pulmonary function in COPD</td>
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<td>Yusuke Shiraiishi (Japan), Neza Tanabe, Keizo, Shimizu, Akira Oguma, Ryo Sakamoto, Tsuyoshi Ogushi, Atsuya Sato, Masaru Suzuki, Hiroshi Maika, Shigeo Mura, Masaharu Mihara, Masaharu Mihara, Tsuyoshi Hiro, Nozomi Kanamori, Yui Horiaki</td>
</tr>
<tr>
<td>16:38-16:46</td>
<td>YIA-1-7</td>
<td></td>
<td>Genome-wide association study in patients with pulmonary Mycobacterium avium complex disease</td>
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<td>Ho Namkoong (Japan)*</td>
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<tr>
<td>16:46-16:54</td>
<td>YIA-1-8</td>
<td></td>
<td>Non-cystic Fibrosis Bronchiectasis (NCFB) is a Bronchiectatic Disease Characterized by MUC5B-dominated Mucus Hyperproduction</td>
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<td>Takanori Asakura (United States of America), Kulkarni Okuda, Giang Chen, Takafumi Katoh, Yu Mikami, Rodney Gilmore, Selene Margarita Barbosa Cardona, Michael Chan, Yohi Matsug, Peardr Nonne, Caro Maria Pedrosa Ribeiro, Kenneth Oliver, Naoko Hasegawa, Scott Randell, Wanda O’Neal, Richard Boucher</td>
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<td>16:54-17:02</td>
<td>YIA-1-9</td>
<td></td>
<td>The lung microbiota in nontuberculous mycobacterial pulmonary disease</td>
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<td>Be-Guen Kim (Republic of Korea), Naeul Kang, Su-Young Kim, Dae Huh Kim, Hyeong Kim, O. Jung Keum, Hae-Jae Huh, Nam Yong Lee, Jonghook Kim, Byung Woo, Jhun</td>
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<td>17:02-17:10</td>
<td>YIA-1-10</td>
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<td>Diagnostic Utility of Adenosine Deaminase in Differentiating Tuberculous and Non-Tuberculous Exudative Pleural Effusions</td>
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<td>Boon Hau Ng (Malaysia), Huei Jing Low, Andrea Yu Lin Ban, Nik Nurulatiq Nik Abiditi, Mohamed Faisal Abdul Hamid</td>
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<td>17:10-17:18</td>
<td>YIA-1-11</td>
<td></td>
<td>Risk factors associated with treatment response in patients with idiopathic nonspecific interstitial pneumonia</td>
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<td></td>
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<td></td>
<td>Dong-Hyun Joo (Republic of Korea), Sun Mi Choi</td>
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**Symposium 17**

**COPD - Microbiome/Infection**

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<th>Time</th>
<th>Session</th>
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<th>Chair/Authors</th>
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<tbody>
<tr>
<td>09:20-10:50</td>
<td>Symposium 17</td>
<td>Auditorium (3F)</td>
<td>Chairs: Richard Russell (University of Oxford, United Kingdom)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Up-To-Date Research of Microbiome in COPD and Clinical Implication</td>
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<tr>
<td>09:20-09:50</td>
<td>S17-1</td>
<td></td>
<td>Don Sin (University of British Columbia, St. Paul, Hospital, Canada)</td>
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<tr>
<td>09:50-10:20</td>
<td>S17-2</td>
<td></td>
<td>Who Needs ICS in COPD</td>
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<td></td>
<td>Richard Russell (University of Oxford, United Kingdom)</td>
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<tr>
<td>10:20-10:50</td>
<td>S17-3</td>
<td></td>
<td>BCO (Bronchiectasis COPD Overlap): Severe Phenotype or Simple Comorbidity?</td>
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<td></td>
<td>Ji Ye Jung (Korean University College of Medicine, Republic of Korea)</td>
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**Symposium 18**

**Tuberculosis - Towards TB Elimination Post-Pandemic Era in APSR Members’ Countries**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Chair/Authors</th>
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<tbody>
<tr>
<td>09:20-10:50</td>
<td>Symposium 18</td>
<td>Grand Ballroom 101 (1F)</td>
<td>Chairs: Jennifer Ann Wi (Dayagian Doctors Welfare Memorial Hospital, Philippines)</td>
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<td>Tae Sun Shin (University of Ulsan College of Medicine, Republic of Korea)</td>
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<tr>
<td>09:20-09:50</td>
<td>S18-1</td>
<td></td>
<td>Experience Sharing from High Burden Country: Challenges and Strategies</td>
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<tr>
<td>09:50-10:20</td>
<td>S18-2</td>
<td></td>
<td>Lessons Learned from Intermediate Burden Countries: Success Story of Each Country 1</td>
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<td></td>
<td>Selya Kato (The Research Institute of Tuberculosis, Japan)</td>
</tr>
<tr>
<td>10:20-10:50</td>
<td>S18-3</td>
<td></td>
<td>Lessons Learned from Intermediate Burden Countries: Success Story of Each Country 2</td>
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<td></td>
<td>Hee Jin Kim (Korean National Tuberculosis Association, Republic of Korea)</td>
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</table>
### Symposium 19
**Paediatric Lung Disease - Rare but Becoming Prevalent Pediatric Chronic Lung Disease**

**Chairs**
- Anne Goh Eng Neo (KK Women’s and Children’s Hospital, Singapore)
- Soo-Jong Hong (University of Ulsan College of Medicine, Republic of Korea)

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<th>Time</th>
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<tr>
<td>09:20-09:50</td>
<td>S19-1</td>
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<tr>
<td>09:50-10:20</td>
<td>S19-2</td>
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<tr>
<td>10:20-10:50</td>
<td>S19-3</td>
<td>Grand Ballroom 102 (1F)</td>
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</table>

**Program**
- 09:20-09:50: What Should We Focus on Managing Children with Non-CF Bronchiectasis? (Anne Goh Eng Neo, KK Women’s and Children’s Hospital, Singapore)
- 09:50-10:20: Measures to Prevent Bronchopulmonary Dysplasia in Premature Neonates (Tsu F. Yeh, Taipei Medical University, Taiwan)
- 10:20-10:50: Still Ongoing Issues of Pediatric Humidifier Disinfectant-Related Lung Injury (Soo-Jong Hong, University of Ulsan College of Medicine, Republic of Korea)

### Symposium 20
**Lung Cancer - Pro/Con: Sequential Treatment for Advanced EGFR M(+) NSCLC**

**Chair**
- Kaun Fong (The University of Queensland, Australia)

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<tr>
<th>Time</th>
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<tr>
<td>09:20-09:25</td>
<td>Introduction &amp; Voting</td>
<td>Grand Ballroom 103 (1F)</td>
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<td>09:25-09:45</td>
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<td>Grand Ballroom 103 (1F)</td>
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<td>09:45-10:05</td>
<td>S20-2</td>
<td>Grand Ballroom 103 (1F)</td>
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<td>10:05-10:20</td>
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<td>10:20-10:35</td>
<td>Q&amp;A</td>
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<td>10:35-10:40</td>
<td>Q&amp;A</td>
<td>Grand Ballroom 103 (1F)</td>
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</table>

**Program**
- 09:20-09:25: Introduction & Voting
- 09:25-09:45: Pro: Sequential Treatment for Advanced EGFR M(+) NSCLC (Jeong Eun Lee, Chungnam National University School of Medicine, Republic of Korea)
- 09:45-10:05: Con: Sequential Treatment for Advanced EGFR M(+) NSCLC (Diana Yuwung Yeh, School of Medicine, Fu Jen Catholic University, Taiwan)

### Symposium 21
**Respiratory Structure and Function - Physiologic Phenotype of Respiratory Disease**

**Chair**
- Martijn A. Spruit (Maastricht University Medical Center, Kingdom of the Netherlands)
- Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)

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<th>Time</th>
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<tr>
<td>11:10-11:40</td>
<td>S23-1</td>
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<td>11:40-12:10</td>
<td>S23-2</td>
<td>Grand Ballroom 102 (1F)</td>
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<tr>
<td>12:10-12:40</td>
<td>S23-3</td>
<td>Grand Ballroom 102 (1F)</td>
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**Program**
- 11:10-11:40: The Role of the Physiome: Physiologic Phenotyping and Treatable Traits in Pulmonary Disease (Martijn A. Spruit, Maastricht University Medical Center, Kingdom of the Netherlands)
- 11:40-12:10: Challenging Spirometry: Newer Lung Function Test Other than FEV1 (David G. Chapman, University of Technology Sydney, Australia)
- 12:10-12:40: States of Art: Recent Update of Pulmonary Rehabilitation (Seung Won Ra, Ulsan University Hospital, Republic of Korea)

### Symposium 22
**Clinical Respiratory Medicine - Lung Aging and Chronic Lung Diseases**

**Chairs**
- David A. Schwartz (University of Colorado School of Medicine, U.S.A.)
- Man Pyo Chung (Sungkyunkwan University School of Medicine, Republic of Korea)

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<td>11:40-12:10</td>
<td>S22-2</td>
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<tr>
<td>12:10-12:40</td>
<td>S22-3</td>
<td>Grand Ballroom 101 (1F)</td>
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**Program**
- 11:10-11:40: Physiologic and Structural Consideration in the Aging Lung (Won-II Choi, Myongji Hospital, Republic of Korea)
- 11:40-12:10: An Airway Centric View of Idiopathic Pulmonary Fibrosis (David A. Schwartz, University of Colorado School of Medicine, U.S.A.)
- 12:10-12:40: Similarity Dissimilarity between Aging and ILD/IPF (or Chronic Lung Diseases) (Yasuhiro Kondoh, Tosei General Hospital, Japan)

### JRS Symposium
**Asthma - Meet the Professor**

**Chair**
- Yong Chul Lee (Chonbuk National University Medical School, Republic of Korea)

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<td>11:10-12:40</td>
<td>S21-1</td>
<td>ASEM Ballroom 202 + 203 (2F)</td>
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**Program**
- 11:10-12:40: Challenge to overcome drug resistance in non-small cell lung cancer (Video Recording)
  - Kazuhisa Takahashi (Juntendo University, Japan)
  - Role of airway mucus hypersecretion in the pathogenesis of COPD: implications for therapy (Video Recording)
  - Takeshi Kaneko (Yokohama City University, Japan)

- 11:10-11:40: The Role of the Physiome: Physiologic Phenotyping and Treatable Traits in Pulmonary Disease
  - Martijn A. Spruit (Maastricht University Medical Center, Kingdom of the Netherlands)
- 11:40-12:10: Challenging Spirometry: Newer Lung Function Test Other than FEV1
  - David G. Chapman (University of Technology Sydney, Australia)
- 12:10-12:40: States of Art: Recent Update of Pulmonary Rehabilitation
  - Seung Won Ra (Ulsan University Hospital, Republic of Korea)
### Symposium 24
**14:00-15:20**  
**Auditorium (3F)**  
**COPD - Pro/Con: Application of Bioinformatic Artificial Intelligence to Current Clinical Practice in the Management of COPD**

**Chair**  
Alejandro A Pezzulo (University of Iowa, U.S.A.)

**14:00-14:05**  
Introduction & Voting

**14:05-14:25**  
S24-1  
Pro: Application of Bioinformatic Artificial Intelligence to Current Clinical Practice in the Management of COPD  
Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)

**14:25-14:45**  
S24-2  
Con: Application of Bioinformatic Artificial Intelligence to Current Clinical Practice in the Management of COPD  
Konstantinos Kostikas (University of Ioannina, Greece)

**14:45-15:00**  
Comment

**15:00-15:15**  
Q&A

**15:15-15:20**  
Voting & Closing

### Symposium 25
**14:00-15:30**  
**Grand Ballroom 101 (1F)**  
**Respiratory Infections (non-tuberculous) - Updated Clinical Approach in Respiratory Infection**

**Chair**  
Chieh-Liang Wu (Taichung Veterans General Hospital, Taiwan)  
Jae Hwa Cho (Korea University College of Medicine, Republic of Korea)

**14:00-14:30**  
S25-1  
Treatment of miscellaneous pulmonary infections: actinomycosis and cryptococcosis  
Hyun Lee (Hanyang University College of Medicine, Republic of Korea)

**14:30-15:00**  
S25-2  
Recent Advances in the Aspiration Pneumonia  
Chieh-Liang Wu (Taichung Veterans General Hospital, Taiwan)

**15:00-15:30**  
S25-3  
Advances in the Management of Fungal Pneumonia in Critically Ill Patients  
Jin-won Huh (University of Ulsan College of Medicine, Republic of Korea)

### Symposium 26
**14:00-15:30**  
**Grand Ballroom 102 (1F)**  
**Critical Care Medicine - Meet the Professor**

**Chair**  
Sang Bum Hong (University of Ulsan College of Medicine, Republic of Korea)

**14:00-14:40**  
S26-1  
ARDS, Beyond & Next  
Carolyn S. Calfee (University of California, San Francisco, U.S.A.)

**14:40-15:30**  
Discussion

### Symposium 27
**15:50-17:20**  
**Auditorium (3F)**  
**Interstitial Lung Disease - Interstitial Lung Abnormalities: State of the Art**

**Chair**  
Grace H. Kim (UCLA, U.S.A.)  
Jin Woo Song (University of Ulsan College of Medicine, Republic of Korea)

**15:50-16:20**  
S27-1  
ILA: Natural Course and Clinical Implication  
Takeshi Johkoh (Kansai Rosai Hospital, Japan)

**16:20-16:50**  
S27-2  
Evaluation of ILA by Automatic Quantification System  
Grace H. Kim (UCLA, U.S.A.)

**16:50-17:20**  
S27-3  
ILA in Asian Population  
Gong Yong Jin (Jeonbuk National University, Republic of Korea)

### Symposium 28
**15:50-17:20**  
**Grand Ballroom 101 (1F)**  
**Environmental & Occupational Health and Epidemiology - The Past, Present, and Future of Occupational Health Surveillance**

**Chair**  
Martie Van Tongeren (The University of Manchester, United Kingdom)  
Woo Jin Kim (Kingston National University School of Medicine, Republic of Korea)

**15:50-16:20**  
S28-1  
UK Occupational and Environmental Surveillance Program  
Martie Van Tongeren (The University of Manchester, United Kingdom)

**16:20-16:50**  
S28-2  
A Surveillance of Nanoparticle Exposed Workers and Their Respiratory Function, Japan Experience  
Akira Ogami (University of Occupational and Environmental Health, Japan)

**16:50-17:20**  
S28-3  
Hospital Based Nation-Wide Surveillance of Asbestos Related Diseases in Korea  
Jun-Pyo Myong (The Catholic University of Korea College of Medicine, Republic of Korea)

### Symposium 29
**15:50-17:20**  
**Grand Ballroom 102 (1F)**  
**Clinical Allergy & Immunology - Advances in Clinical Allergy and Immunology**

**Chair**  
Koichiro Asano (Tokai University School of Medicine, Japan)  
Chang-Keung Kim (Inje University College of Medicine, Republic of Korea)

**15:50-16:20**  
S29-1  
The Effect of Tezepelumab in Asthma  
Asger Sverrild (University Hospital Rostock, Denmark)

**16:20-16:50**  
S29-2  
Diagnosis and Treatment of ABPA  
Koichiro Asano (Tokai University School of Medicine, Japan)

**16:50-17:20**  
S29-3  
Treatment of Biologics in Comorbidities of Asthma  
Ji-yong Moon (Hanyang University College of Medicine, Republic of Korea)
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<th>Luncheon Symposium 7</th>
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<tr>
<td><strong>Chair</strong></td>
<td>Hyoungkyu Yoon</td>
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<td>(Yeouido ST. Mary’s Hospital, The Catholic University of Korea College of Medicine, Republic of Korea)</td>
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<td>12:50-12:55</td>
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<td>Luncheon Symposium 9</td>
<td>12:50-13:50</td>
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<tr>
<td>Airway Disease - In-depth Review of Mucus</td>
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<tr>
<td><strong>Chair</strong></td>
<td>Seong Yong Lim</td>
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<td>(Sungkyunkwan University School of Medicine, Republic of Korea)</td>
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<tr>
<td>Progressive Fibrosing Interstitial Lung Diseases (PF-ILD) - Management Strategies in Clinical Practice</td>
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<tr>
<td><strong>Chair</strong></td>
<td>Jin Woo Song</td>
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<tr>
<td></td>
<td>(University of Ulsan College of Medicine, Republic of Korea)</td>
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<td>12:50-12:55</td>
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<tr>
<td>13:45-13:50</td>
<td>Summary &amp; Conclusion</td>
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<th>12:50-13:50</th>
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<tr>
<td>Severe Asthma</td>
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<td><strong>Chair</strong></td>
<td>Joo Hun Park</td>
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<td>(Ajou University School of Medicine, Republic of Korea)</td>
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<td>12:50-12:55</td>
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<td>Cancer</td>
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<td><strong>Chair</strong></td>
<td>Sung Yong Lee</td>
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<td>(Korea University College of Medicine, Republic of Korea)</td>
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<td>Yeon-Mok Oh</td>
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<td>(University of Ulsan College of Medicine, Republic of Korea)</td>
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<td>12:50-12:50</td>
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<td>13:40-13:50</td>
<td>Q&amp;A</td>
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Evening Symposium 7  17:30-18:30 Grand Ballroom 101 (1F)
Sponsored by bioMerieux Asia Pacific Pte Ltd
Chair: Young Sam Kim (Yonsei University College of Medicine, Republic of Korea)
17:30-18:30  ES07-1  How Rapid Multiplex PCR Technology Revolutionizes Antimicrobial Stewardship for Pneumonia Management and Values in Post-pandemic Era
Vanya Gant (University College London Hospital, United Kingdom)

Evening Symposium 8  17:30-18:30 Grand Ballroom 102 (1F)
Sponsored by Abbott Korea
Asthma
Chair: Do-Jin Kim (Soon Chun Hyang University College of Medicine, Republic of Korea)
17:30-18:30  ES08-1  The Role of Sublingual Allergen Specific Immunotherapy in the Treatment of House Dust Mite Driven Asthma
Eike Wüstenberg (ALK Corporate Headquarter, Vice President Medical Affairs, Denmark)

Evening Symposium 9  17:30-18:30 Grand Ballroom 103 (1F)
Sponsored by GSK
Asthma
Chair: Yong Bum Park (Hallym University College of Medicine, Republic of Korea)
17:30-17:55  ES09-1  A Benefit/Risk Analysis of Regular Maintenance vs. Infrequent or As-needed Inhaled Corticosteroid Use in Asthma
Robert Berend (University of Sydney, Australia)
17:55-18:20  ES09-2  Role of Ima and benefit of single inhaler triple therapy in Asthma
Gregory King (Royal North Shore Hospital, Australia)
18:20-18:30  Q&A

Evening Symposium 10  17:30-18:30 Grand Ballroom 104 (1F)
Sponsored by Ildong Pharmaceutical
IPF
Chair: Moo Suk Park (Yonsei University College of Medicine, Republic of Korea)
17:30-18:05  ES10-1  Pirfenidone in Progressive Fibrosing ILD
Takafumi Suda (Hamamatsu University School of Medicine, Japan)
18:05-18:30  ES10-2  Efficacy of Low Dose Pirfenidone for the Treatment of IPF
Yong Hyun Kim (Bucheon St. Mary’s Hospital, The Catholic University of Korea College of Medicine, Republic of Korea)

Evening Symposium 11  17:30-18:30 Grand Ballroom 105 (1F)
Sponsored by sanofi
Asthma
Chair: Kwang Ha Yoo (Konkuk University School of Medicine, Republic of Korea)
17:30-18:30  ES11-1  Biological Treatment for Type 2 Severe Asthma: The Role and Contribution of IL-4/IL-13
Nicola Hananiah (Baylor College of Medicine, U.S.A.)

Evening Symposium 12  17:30-18:30 ASEM Ballroom 202 + 203 (2F)
Sponsored by YUHAN
Cancer
Chair: Kye Young Lee (Konkuk University School of Medicine, Republic of Korea)
17:30-18:30  ES12-1  Oncogene Driven NSCLC: Targeted Therapies, Lessons Learnt & Future Directions
Sai-Hong Ignatius (University of California, U.S.A.)
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<th>Time</th>
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<th>Chairs</th>
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<tr>
<td>08:10-09:10</td>
<td><strong>Keynote &amp; Invited Lecture</strong></td>
<td>Auditorium (3F)</td>
<td>Young Whan Kim (Konkuk University School of Medicine, Republic of Korea) Jee Ho Lee (Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>08:40-09:10</td>
<td><strong>PL03-1</strong> [Keynote Lecture] Shorter Treatment for Tuberculosis: Where Do We Stand?</td>
<td>Grand Ballroom 104</td>
<td>Jae-Joon Yim (Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>08:40-09:10</td>
<td><strong>PL03-2</strong> [Invited Lecture] Role of Proteinases and the Extracellular Matrix in ARDS Pathobiology</td>
<td>Grand Ballroom 104</td>
<td>Gregory P. Downey (University of Colorado School of Medicine, U.S.A.)</td>
</tr>
<tr>
<td>09:20-10:50</td>
<td><strong>Symposium 30</strong> Critical Care Medicine - Reorganizing ICU after COVID-19 Pandemic</td>
<td>Grand Ballroom 101</td>
<td>Jason Phua (National University Hospital, Singapore) Sang-Min Lee (Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>09:20-09:50</td>
<td><strong>S30-1</strong> Therapeutics of Critical COVID-19 Patients</td>
<td>Grand Ballroom 101</td>
<td>Carolyn S. Calfee (University of California, San Francisco, U.S.A.)</td>
</tr>
<tr>
<td>09:50-10:20</td>
<td><strong>S30-2</strong> Management of Acute Respiratory Failure in COVID-19</td>
<td>Grand Ballroom 101</td>
<td>Jason Phua (National University Hospital, Singapore)</td>
</tr>
<tr>
<td>10:20-10:50</td>
<td><strong>S30-3</strong> Reorganizing ICU after COVID-19 Pandemic</td>
<td>Grand Ballroom 101</td>
<td>Young-Jae Cho (Seoul National University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>09:20-10:50</td>
<td><strong>Symposium 31</strong> Lung Cancer - Palliative Care in Patients with Lung Cancer</td>
<td>Grand Ballroom 102</td>
<td>Sita Andarini (University of Indonesia, Persahabatan Hospital, Indonesia) Chang-Min Choi (Inventy University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>09:20-09:50</td>
<td><strong>S31-1</strong> Evolution of Palliative Care and Models of Care Delivery</td>
<td>Grand Ballroom 102</td>
<td>David Hui (MD Anderson Cancer Center U.S.A.)</td>
</tr>
<tr>
<td>09:50-10:20</td>
<td><strong>S31-2</strong> Benefits and Barriers of Early Integrated Palliative Care in Lung Cancer Patients</td>
<td>Grand Ballroom 102</td>
<td>Hye Ryon Kim (Korea Institute of Radiological and Medical Sciences, Republic of Korea)</td>
</tr>
<tr>
<td>10:20-10:50</td>
<td><strong>S31-3</strong> Symptom Relief Management in End-of Life Care</td>
<td>Grand Ballroom 102</td>
<td>So Young Park (Hallym University College of Medicine, Republic of Korea)</td>
</tr>
</tbody>
</table>

**Young Investigator Awards 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:50-16:00</td>
<td><strong>YIA-2-1</strong> Determination of Ability of Individual Inflammatory Markers in Predicting Critical COVID and Mortality: a Retrospective Cohort Study</td>
<td>Grand Ballroom 104</td>
<td>Catherine Jordan (Philippines)*, Ma. Janet Samson</td>
</tr>
<tr>
<td>15:58-16:06</td>
<td><strong>YIA-2-2</strong> Comparison of electromagnetic navigation bronchoscopy and transthoracic needle biopsy for diagnosing bronchus sign positive pulmonary lesions</td>
<td>Grand Ballroom 104</td>
<td>Yeon Wook Kim (Republic of Korea)*, Hyung-Jun Kim, Sung Hyun Yoon, Myung Jin Song, Byung Soo Keon, Sung Yoon Lim, Yeon Jae Lee, Jong Sun Park, Young Jae Cho, Jae Ho Lee, Choon Taek Lee</td>
</tr>
<tr>
<td>16:06-16:14</td>
<td><strong>YIA-2-3</strong> Analysis of brain functional connectivity in COPD patients with functional brain MRI</td>
<td>Grand Ballroom 104</td>
<td>Yoomi Yeo (Republic of Korea)*, Ji Tak Rhu, Hanjoon Jo, Sung Ho Jang, Jongho Choi, Dang Woo Park, Tae Hyung Kim</td>
</tr>
<tr>
<td>16:14-16:22</td>
<td><strong>YIA-2-4</strong> Children respiratory health during Covid-19 lockdown and after 6-month re-exposure to poor air quality.</td>
<td>Grand Ballroom 104</td>
<td>Hong Le (Australia)*, An Pham, Vinh Nguyen, Robert War, Dung Phuang, Phong Thai, Sarah Ranganathan, Dang Tran, Hien To, Peter Sly</td>
</tr>
<tr>
<td>16:22-16:30</td>
<td><strong>YIA-2-5</strong> Clinical Significance of Normalized FEV1/FVC in the Patients Diagnosed with Chronic Obstructive Pulmonary Disease (COPD).</td>
<td>Grand Ballroom 104</td>
<td>Yun Seok Kim (Republic of Korea)*, Kwang Ha Yoo, Chin Kook Rhee, Ki Suk Jung, Yong Bum Park, Jongsoon Lee, Young-Choon Choi</td>
</tr>
<tr>
<td>16:30-16:38</td>
<td><strong>YIA-2-6</strong> Late diagnosis of Congenital Pulmonary Airway Malformation (CPAM) in a child with recurrent respiratory symptoms</td>
<td>Grand Ballroom 104</td>
<td>Sokchinda Kong (Cambodia)*, Khlumyoo Lim, Michael Wolf</td>
</tr>
<tr>
<td>16:38-16:46</td>
<td><strong>YIA-2-7</strong> Tuberculous Lymphadenitis in Children: Experience From a Referral Tertiary Hospital in a High-Burden Country</td>
<td>Grand Ballroom 104</td>
<td>Muhammad Akbar Tirtosudiro (Indonesia)*, Ustman Hermis Amranah, Celia Citra, Natapravara, Heda Melinda</td>
</tr>
<tr>
<td>16:46-16:54</td>
<td><strong>YIA-2-8</strong> The stability of blood eosinophil count and clinical outcomes in Thai chronic obstructive pulmonary disease patients: A prospective study</td>
<td>Grand Ballroom 104</td>
<td>Punchalee Kaenmuang (Thailand)*, Swisakul Juthong, Sinkorn Dennermeeul</td>
</tr>
<tr>
<td>16:54-17:02</td>
<td><strong>YIA-2-9</strong> Low compliance factors of NSCLC patients who refuse chemotherapy at dr. zainoel abidin hospital banda aceh</td>
<td>Grand Ballroom 104</td>
<td>Juvenita Sartika Dewi (Indonesia)*, Ferry Dewi Kurnawan, Imam Imani, Noxita Andayani</td>
</tr>
<tr>
<td>17:02-17:10</td>
<td><strong>YIA-2-10</strong> Remote telemonitoring among patients on home non-invasive ventilation (NIV): the Sarawak experience</td>
<td>Grand Ballroom 104</td>
<td>Mei Ching Yong (Malaysia)*, Sze Shyang Kho, Swee Kim Chan, Siew Teck Tie</td>
</tr>
</tbody>
</table>
### Symposium 32
**Interstitial Lung Disease - Meet the Professor**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>09:20-10:50</td>
<td>Moo Suk PARK (Yonsei University College of Medicine, Republic of Korea)</td>
</tr>
</tbody>
</table>

### Symposium 33
**Asthma - Biomarker and Genetic Marker in Severe Asthma**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:10-11:40</td>
<td>Nicola Hanania (Baylor College of Medicine, U.S.A.)</td>
</tr>
<tr>
<td>11:40-12:10</td>
<td>Jung-Kyu Lee (Seoul National University, Republic of Korea)</td>
</tr>
<tr>
<td>12:10-12:40</td>
<td>Parameswaran Nair (McMaster University, Canada)</td>
</tr>
</tbody>
</table>

### Symposium 34
**Clinical Respiratory Medicine - From Cough to Exacerbation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>11:10-11:40</td>
<td>Hyeon-Kyoung Koo (Inje University College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>11:40-12:10</td>
<td>Mona Bafadhel (King’s College London, United Kingdom)</td>
</tr>
<tr>
<td>12:10-12:40</td>
<td>Anne E. Vertigan (The University of Newcastle, Australia)</td>
</tr>
</tbody>
</table>

### Symposium 35
**COPD - Early COPD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>11:10-11:40</td>
<td>Don Sin (University of British Columbia, St. Paul Hospital, Canada)</td>
</tr>
<tr>
<td>11:40-12:10</td>
<td>Youlim Kim (Konkuk University School of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>12:10-12:40</td>
<td>Diahn-Wang Perng (Taipei Veterans General Hospital, Taiwan)</td>
</tr>
</tbody>
</table>

### APSR-GOLD Joint Session
**Updates of the GOLD Strategy and Its Implementation into Asia**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:20-09:50</td>
<td>Don Sin (University of British Columbia, St. Paul Hospital, Canada)</td>
</tr>
<tr>
<td>09:50-10:15</td>
<td>Yeon-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)</td>
</tr>
<tr>
<td>10:15-11:00</td>
<td>Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)</td>
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</table>
ORAL PRESENTATION & POSTER EXHIBITION

18 November 80
19 November 123
20 November 165
## ORAL PRESENTATION

### Oral 1

**Asthma**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</thead>
<tbody>
<tr>
<td>09:20-09:30</td>
<td>AO01-1</td>
</tr>
<tr>
<td>09:30-09:40</td>
<td>AO01-2</td>
</tr>
<tr>
<td>09:40-09:50</td>
<td>AO01-3</td>
</tr>
<tr>
<td>09:50-10:00</td>
<td>AO01-4</td>
</tr>
<tr>
<td>10:00-10:10</td>
<td>AO01-5</td>
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### Oral 2

**Cell and Molecular Biology**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>09:20-09:30</td>
<td>AO02-1</td>
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<tr>
<td>09:30-09:40</td>
<td>AO02-2</td>
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<tr>
<td>09:40-09:50</td>
<td>AO02-3</td>
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<tr>
<td>09:50-10:00</td>
<td>AO02-4</td>
</tr>
<tr>
<td>10:00-10:10</td>
<td>AO02-5</td>
</tr>
<tr>
<td>10:10-10:20</td>
<td>AO02-6</td>
</tr>
</tbody>
</table>
Interstitial Lung Disease

Chair: Yong Hyun Kim (The Catholic University of Korea College of Medicine, Republic of Korea)

09:20-10:50 ASEM Ballroom 202 + 203 (2F)

**AO03-1**
Short leukocyte telomere lengths correlate with poorer survival and absolute FVC decline from baseline independent of ILD diagnosis
Michelle Li Wei Kam (Singapore)*, Siao Ting Chong, Ba Jing Chew, Sock Hoai Chan, Nur Dania Bincahak, Su Ying Loi, Joanna Yuen Yia Ngan

**AO03-2**
Role of ornithine aminotransferase in idiopathic pulmonary fibrosis: lung function decline and fibrogenesis
Sung Woo Park (Republic of Korea)*, Jong Uk Lee, Jesu Hong, Hyunsun Shin, Ah-Rin Baek, An Soo Jang, Da Jin Kim

**AO03-3**
Direct hemoperfusion with polymyxin B-immobilized fibre column for acute exacerbation of idiopathic pulmonary fibrosis: A nationwide observational study
Nobuyasu Awano (Japan)*, Taisuke Jo, Takehiro Izumo, Minoru Inomata, Naoyuki Kose, Kei Sakamoto, Yutaka Muto, Kazushi Fujimoto, Yoshihiro Furukawa, Kohei Manta, Hideki Matsui, Kyoko Fusimoto, Takahide Nagaoka, Hisao Yasunaga

**AO03-4**
Impact of initial dose of corticosteroid on clinical outcomes in acute exacerbation of idiopathic pulmonary fibrosis
Kwonhyung Hyung (Republic of Korea)*, Jimyung Park, Sun Mi Choi

10:00-11:00

**AO03-5**
Monocyte Counts and the Clinical Outcomes in the Idiopathic Nonspecific Interstitial Pneumonia
Tae Hun Kim (Republic of Korea)*, Hyung Jun Kim, Myung Jin Song, Byoung Seo Kwon, Yeon Wook Kim, Sung Yoon Lim, Yeon Joo Lee, Young Jae Cho, Jae Ho Lee, Choon Taek Lee, Jung Sun Park

**AO03-6**
Therapeutic potential of an indole derivative in fatal fibrosing interstitial lung diseases
Yeokgha Yoon (Republic of Korea)*, Wai Pui Kim, Hae Jin Park, Kyung Hwa Park, So Ri Kim, Yeong Hun Cho, Jae Seok Jeong, Yong Chul Lee

**AO03-7**
Effect of aspirin on mortality in patients with idiopathic pulmonary fibrosis: An analysis using the Korean National Health Insurance Service database from 2010 to 2020
Eun Young Kim (Republic of Korea)*, A La Wua, Song Yee Kim, Chang Hoon Han, Moon Suk Park

**AO03-8**
Immunogenicity and safety of ChAdOx1 nCoV-19 vaccine in interstitial lung disease patients with immunosuppressive therapy
Tinn Hongboontry (Thailand)*, Sapsak Nithworanant, Amornpun Wongkamjana, Picha Patthasupha, Suppanenki Duayalbut
### Oral 5

**Lung Cancer - Basic research and Screening**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:10-11:20</td>
<td>A005-1</td>
<td>Study on the mechanism of msc-mirna-198-exos regulating mapk1 in malignant pleural effusion associated with non-small cell lung cancer</td>
<td>Yanan Wang (China (Mainland)), Yan Gu</td>
</tr>
<tr>
<td>11:20-11:30</td>
<td>A005-2</td>
<td>KCNK3 inhibits proliferation and glucose metabolism of lung adenocarcinoma via activation of AMPK-TXNIP pathway</td>
<td>Lanlan Lin (China (Mainland)), Xiaohui Chen, Guofu Lin, Yuan Xu, Yiming Zeng</td>
</tr>
<tr>
<td>11:30-11:40</td>
<td>A005-3</td>
<td>Integrated profiling of endoplasmic reticulum stress-related DERL3 in prognostic and immune features of lung adenocarcinoma</td>
<td>Lanlan Lin (China (Mainland)), Guofu Lin, Xiaohui Chen, Yuan Xu, Yiming Zeng</td>
</tr>
<tr>
<td>11:40-11:50</td>
<td>A005-4</td>
<td>Pilot study: comparative analysis of immune related gene expression in lung adenocarcinoma tissues between never smokers, non-ethylhypusmatous smokers and emphysematous lungs</td>
<td>Jeong Uk Lim (Republic of Korea), Tai Joon An, Young Jo Sa, Chan Hoon Park, Hyoung Kyu Yoon, Tae-Jung Kim</td>
</tr>
<tr>
<td>11:50-12:00</td>
<td>A005-5</td>
<td>Single-cell RNA sequencing reveals distinct molecular features of high-grade lung adenocarcinoma subtypes</td>
<td>Shin Yup Lee (Republic of Korea), Jungsung Lee, Ji Yoon Jeong, Jung Kyung Kim, Mi Jeong Hong, Jieun Park, Sun Hwa Cho, Hyeyoung Soo, Seung Soon Yoo, Jaeha Lim, Seung Hye Ok, Chang Ho Kim, Jae Yong Park</td>
</tr>
<tr>
<td>12:00-12:10</td>
<td>A005-6</td>
<td>Artificial intelligence-based personalized survival prediction using clinical and radiomics features in patients with advanced non-small cell lung cancer</td>
<td>Junji Koyama (Japan), Masahiro Morise, Take Furukawa, Shintaro Goya, Reiko Matsumura, Tatsuya Tanaka, Keiko Wakahara, Hideko Yokota, Tomoki Kimura, Yoshinori Shirato, Yasuo Kondoh, Naoko Hashimoto</td>
</tr>
<tr>
<td>12:10-12:20</td>
<td>A005-7</td>
<td>Lung Cancer Screening with Low-Dose CT in Never Smokers and Smokers: the real-world data in South Korea</td>
<td>Yunjoo Im (Republic of Korea), Choohee Kim, Jinyoung Lee, Jung Hye Hwang, Sun Hye Shin, Byong Ho Jeong, Kyunglong Lee, Hyeongjung Kim, Ho Yun Lee, Sang Won Lim</td>
</tr>
<tr>
<td>12:20-12:30</td>
<td>A005-8</td>
<td>Assessment of traditional risk factors in Lung Cancer Patients who do not fit into NLST criteria</td>
<td>Sean Chee Hong Loh (Singapore), Jashen Zhao, Daniel Ja Ming Ang, Wu Mei Chew, Jansen Meng Kwang Koh</td>
</tr>
</tbody>
</table>
### Oral 7 14:00-15:30 Grand Ballroom 104 (1F)

**COPD**

<table>
<thead>
<tr>
<th>Chair</th>
<th>So Ri Kim (Chonbuk National University Medical School, Republic of Korea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:10</td>
<td>AO07-1 The effect of N-acetylcysteine nebulizer therapy on chronic obstructive pulmonary disease Chin Kook Rhee (Republic of Korea)*, Seong Yong Lim, Won-Yeon Lee, Ji Ye Jung, Yong Bum Park, Chang Youl Lee, Yong H Kwang, Jin Woo Song, Won-II Choi, Kwang Ha Yoo</td>
</tr>
<tr>
<td>14:10-14:20</td>
<td>AO07-2 Association of N-terminal pro-B-type Natriuretic Peptide (NT-proBNP) with airflow limitation and exacerbation in COPD Hey Soo Kim (Republic of Korea)*, Youlim Kim, Ji Yeong Moon, Yong Bum Park, Kyeong-Choi Shin, Dong Kyu Kim, Yong H Kwang, Kyung Hoon Min, Su Jung Um, Woo Jin Kim, Hyung Gyu Yoon, Kwang Ha Yoo, Ki Suk Kwon, Jun Kuk Lee, Ji Ye Jung</td>
</tr>
<tr>
<td>14:20-14:30</td>
<td>AO07-3 Development of a scoring model for the prediction of the effects of discontinuation or addition of inhaled corticosteroid in chronic obstructive pulmonary disease patients Jang Ho Lee (Republic of Korea)*, Sehee Kim, Yeon-Mok Oh</td>
</tr>
<tr>
<td>14:30-14:40</td>
<td>AO07-4 Identification of hub genes of airway epithelial cells in chronic obstructive pulmonary disease Lanlan Lin (China (Mainland))*, Xiaohui Chen, Yuan Xi, Yiming Zeng</td>
</tr>
<tr>
<td>14:40-14:50</td>
<td>AO07-5 Image standardization through kernel conversion of CT in KOCOSS cohort Youlim Kim (Republic of Korea)*, Seung Shin, Hyun Lee, Chin Kook Rhee, Yong Bum Park, Ki Suk, Jung, Kwang Ha Yoo, Kum Ju Chae</td>
</tr>
<tr>
<td>14:50-15:00</td>
<td>AO07-6 Risk of tuberculosis caused by fluticasone propionate versus budesonide in chronic obstructive pulmonary disease: a nationwide population based study Insoo Yu (Republic of Korea)*, Se Hwa Hong, Sunmin Park, Min-Sook Chang, Seok Jeong Lee, Suk Jeong Yang, Won-Yeon Lee, Sang-Ha Kim, Ji HEe Lee</td>
</tr>
<tr>
<td>15:00-15:10</td>
<td>AO07-7 Association of 18F-FDG uptake in semi-quantitative PET/CT with emphysema progression in smokers: a retrospective observational study Kensuke Fukuda (Japan)*, Hirokata Matsuzaki, Yukihiro Namura, Takahiro Nakao, Toshiko Yamauchi, Shuhei Hanada, Akira Sato, Takahide Nagaya, Takeshi Yoshikawa</td>
</tr>
<tr>
<td>15:10-15:20</td>
<td>AO07-8 COPD is a risk factor for COVID-19, but does not confer increased severity of the disease Jong Seung Kim (Republic of Korea)*, Jae Seok Jeong, Yoon Suk You, Jong Hwan Lee, Sang Woo Yeom, Yong Chul Lee</td>
</tr>
</tbody>
</table>

### Oral 8 14:00-15:30 Grand Ballroom 105 (1F)

**Lung Cancer - Diagnosis and Epidemiology**

<table>
<thead>
<tr>
<th>Chair</th>
<th>Seung Joon Kim (The Catholic University of Korea College of Medicine, Republic of Korea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:10</td>
<td>AO08-1 Clinical utility of endobronchial ultrasound-guided transbronchial needle aspiration in clinical N1 non-small cell lung cancer patients Bo-Guen Kim (Republic of Korea)*, Sun Hye Shin, Hongsook Yoo, Kyung-Sung Lee, Sang-Won Um, Hojeong Kim, Jong Ho Cho, Jangsook Kim, Yong Mg Shim, Byung-Ho Jeong</td>
</tr>
<tr>
<td>14:10-14:20</td>
<td>AO08-2 The superiority of bronchial washing fluid for detection of EGFR mutations by droplet digital PCR in lung adenocarcinoma Woo Kyung Ryu (Republic of Korea)*, Seung Hyun Yong, Sang Ho Moon, Hye Rim Gwon, Chi Young Kim, Yeon Soo Chang, Eun Young Kim</td>
</tr>
<tr>
<td>14:20-14:30</td>
<td>AO08-3 A Prospective Phase 2 Study of Rapid Detection and EGFR-TKI Initiation by EV-based BALF Liquid biopsy in Advanced NSCLC Patients In Ae Kim (Republic of Korea)*, Sehee Kim, Yeon-Mok Oh</td>
</tr>
<tr>
<td>14:30-14:40</td>
<td>AO08-4 Diff-Quik smears from EBUS-TBNA procedures: evaluating measures of tumourcellularity and feasibility of whole genome sequencing (WGS) David Fielding (Australia)*, Andrew Oakey, Manindra Singh, Lakshmy Nandakumar, Vanessa Lukis, Haasia Chirnside, Faezad Bashirzadeh, Michael Bint, Carl Pahoff, Junq Son, Alan Hodgson, Swarnya Sharma, David Godbold, Kyle Coleman, Lenore Whitfield, Nicola Waddell, Sunil Lakhani, Koba Nomes, Gunter Hartel, Peter Simpson</td>
</tr>
<tr>
<td>14:40-14:50</td>
<td>AO08-5 Successful culture of lung cancer organoid derived from cryo-biopsy sample of lung cancer Chaekung Chung (Republic of Korea)*, Dongil Park, Da Hyuk Lee, Young Jaee Lee, Younja Kim, Da Hyun Kang, Jeong Eun Lee, Min Hyung Yoo</td>
</tr>
<tr>
<td>14:50-15:00</td>
<td>AO08-6 Establishment of human lung cancer organoids using EBUS-TBNA specimens and surgical tissues Sang-Won Um (Republic of Korea)*, Mina Hwang, Seonae Jang, Hee-Jun Choi</td>
</tr>
<tr>
<td>15:00-15:10</td>
<td>AO08-7 COX-2 and IL-6 are associated with progressive stages and metastasis process in advanced NSCLC Santoso Arif (Indonesia)*, Mustang Ahmad, Munawarrah Sitti</td>
</tr>
<tr>
<td>15:10-15:20</td>
<td>AO08-8 The Associations of Hypertension Medication with Lung Cancer Risk and related Mortality Juwhan Choi (Republic of Korea)*, Sue In Choi, Dong Won Park, Sung Yong Lee</td>
</tr>
</tbody>
</table>
### Oral 9
#### Interstitial Lung Disease

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:10</td>
<td>AO09-1</td>
<td>The preventive effects of statin on lung cancer development in patients with idiopathic pulmonary fibrosis using National Health Insurance Service Database in Korea</td>
<td>Yoo Jung Lee (Republic of Korea)*, Junghyun Nam, Eung Gu Lee, Jeon Ryoo, Soon Seog Kwon, Jong Hyun Kim, Hye Seon Kang</td>
</tr>
<tr>
<td>14:10-14:20</td>
<td>AO09-2</td>
<td>Health-related quality of life in a multi-ethnic Asian interstitial lung disease cohort</td>
<td>Gin Tsen Chai (Singapore)*, Gek Poh Tan, Grace Phua, Hwee Pin Phua, Wei-Yen Lim, Han Yee Neo</td>
</tr>
<tr>
<td>14:20-14:30</td>
<td>AO09-3</td>
<td>Monitoring of cough in patients with ILD by smartphone application: Preliminary results</td>
<td>Jong Sun Park (Republic of Korea)*, Byoung Soo Kwon, Cathy Song, Jiyoung Jung</td>
</tr>
<tr>
<td>14:30-14:40</td>
<td>AO09-4</td>
<td>Prognostic implication of 1-year decline in diffusing capacity in newly diagnosed IPF</td>
<td>Hyewon Seo (Republic of Korea)*, Jinyung Park, Sun Mi Choi</td>
</tr>
<tr>
<td>14:40-14:50</td>
<td>AO09-5</td>
<td>Clinical characteristics and outcomes of hypersensitivity pneumonitis in South Korea</td>
<td>Sungmin Zo (Republic of Korea)*, Min Pyo Chung, Hongseok Yoo</td>
</tr>
<tr>
<td>14:50-15:00</td>
<td>AO09-6</td>
<td>The incidence and risk factors of persistent pulmonary fibrotic change after COVID-19 infection</td>
<td>Yongjung Choi (Republic of Korea)*, Ganghee Chae, Chai Yong Park, Jin Hyeong Kim, Kwang Yon Seo, Seung Won Ra, Jong, Jin Ahn, Yangjin Kang</td>
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<td>Quantitative evaluation of changes in three-dimensional CT density distributions in pulmonary alveolar proteinosis after GM-CSF inhalation</td>
<td>Miki Oda (Japan)*, Kenta Yamaoka, Hidemichi Kih, Hitutaka Nomura, Takeshi Tanaka, Yoshikazu Inoue, Shinji Ohtsuki, Nobutaka Kitamura, Koji Nakata</td>
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<td>Acute exacerbation of progressive fibrosing interstitial lung disease: incidence and outcomes</td>
<td>Jiyoung Yang (Republic of Korea)*, Jin Woo Song</td>
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### Oral 10
#### COPD

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<td>Shih-Yu Chen (Taiwan)*, Chun-Kai Huang, Chia-Ling Wu, Hui-Chuan Peng, Chong-Jen Yu, Jung-Yien Chen</td>
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**Critical Care Medicine - COVID**

**Chair**
Chi Ryang Chung  (Sungkyunkwan University School of Medicine, Republic of Korea)

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The interest of bronchoscopy in diagnosis of the patients with non-resolving pneumonia in Calmette Hospital, Phnom Penh, Cambodia

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AP05-117  Japan COVID-19 Task Force: a nation-wide consortium to elucidate host genetics of COVID-19 pandemic in Japan

He Namkoong (Japan*), Japan COVID-19 Task Force members

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Md Azharuddin (Indonesia*), Manju Sharma

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Tumen-Od Dagva (Mongolia*), Sarumtuya Gidaayava, Murunkhtuya Enchimedee, Khulan Khurelsukh

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Heidi Avediz Del Fuerte (Philippines*), Nacario Macalintal

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Muchamad Regi Sonjaya (Indonesia*), Mohamad Isa, Ira Nurasyidah

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Haly Rozie Ahmad (Malaysia*), Sri Rohani Mohd Yakop, Mohd Syahin Syahira, Syazatul Syakirin Siro Alih

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The Tropical Masquerader: Tropical Pulmonary Eosinophilia masquerading as military tuberculosis
Malika Udugama (Sri Lanka)*, Nirsha Jayathilaka, Bandu Gunasekara

Oxidative stress and cataract in patients with COVID-19
Eugene Borodin (Russia)*, Leiia Nageeva

Post COVID-19 symptoms at one month of discharge among a vaccinated population
Lakshani Kausalya (Sri Lanka)*, Gajan Boaville, Duminda Yasaratne, Prasadih Priyera, Thusani Sirisanka, Saffa Farzni Mohammad Shafee

Effectiveness of Corticosteroid Administration (Dexamethasone, Methylprednisolone, and Hydrocortison) on LDH, CRP, D-Dimer and PaO2/FiO2 Ratio in COVID 19 Confirmed Critical Degree
Ira Nurrasyidah (Indonesia)*, Muhammad Zubaidi, Mohamad Ioa

Geriatric with Atypical COVID-19 Symptoms
Sil Ji Chandra Widjantari (Indonesia)*, Iwan Tedja, Muhammad Akhif, Krisnugra Ramadhan, Davi Astiny, Cahya Rini, Agus Dewi Sapari

A COVID 19 confirmed patient who presented with cough and unilateral scrotal pain: A case report
Catherine Joy Tubig (Philippines)*

Chronic aspergillosis causing eosinophilia and invasive aspergillosis with bronchopleural fistula, a case report
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An unusual complication in a case of COVID-19: large para-aortic haematoma representing significant internal organ bleeding
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An Analysis of Antibody Positive Rate after COVID-19 Vaccination in a Homeless nursing facility
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Lung Abscess development after administration of methylprednisolone in a critically-ill COVID-19 patient
Evelyn Joy Balino (Philippines)*

COVID-19 outcomes associated with clinical and demographic characteristics in patients hospitalized with severe and critical disease in Peshawar
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The influence of Gender on Characteristics and Outcomes of Coronavirus-19 Patients
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Pulmonary Rhizopus in an Immunocompetent Adult Filipino: A Case Report
Shelia Graft Ganangan-Mandalayani (Philippines)*, Joven Roque Gontong, Sullan Naval

Effect of vitamin D on the synthesis of cathelicidin in elderly patients with lung infections
Tatiana Luchnikova (Russia)*

The Association Of Inflammatory Markers with Acute Respiratory Distress Syndrome in COVID-19 Patients
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Prevalence and outcome of silent hypoxia in COVID-19 leading to intubation, A single-center retrospective cohort study.
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Jacky Tu (Australia)*, Mohammed Ali Harani, Michael Palny, Christopher Daley, Ben Rogers, Paul King

A Case Report of a 29 year old male with Primary Extragonadal Germ Cell Tumor Presenting as anterior Mediastinal mass
Jay Andrew Iliang (Philippines)*, Hermogens Masangkay Jr, Stella Carmelle Simon, Maria Alyso Manahan

Clinical experience and outcomes of critically-ill patients in a tertiary hospital who received Lonelimbax for compassionate use as an adjunct therapy for COVID-19
Catherine Jordan (Philippines)*, Ma. Joneth Samson, Celeste Mae Campiones

Pyropneumothorax - a rare complication of tricuspid valve infective endocarditis with septic pulmonary embolism
Arthinal Saringan (Sri Lanka)*, Sameera Gamkhai, Naranjan Chandramal, Asha Samarayake, Razani Karunathilaka

Severe COVID-19 pneumonia and pneumomediastinum case that complicated with CMV infection
Nurgil Naurzalay (Russia)*

Relationship between Serum Levels of TGF-β, CTGF and Brixia Score in Covid-19 Pneumonia Patients
Herley Windo Setiawan (Indonesia)*, Alfian Nur Rosyid, Wivin Is Eiffond, Prastuti Asta Wulangur, Resti Yudhawati Meihana, Anet Bakhtiar, Anggani Davi Sensusati, Yessy Puspitasari

Role of MMP-9, TIMP-1 in Lung Abnormality and Functional Respiratory Disturbance of COVID-19

Characteristics and treatment outcomes of patients with Mycobacterium abscessus in Hong Kong
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| AP05-162 | The effect of vitamin D and Vitamin D binding protein on the course of community-acquired pneumonia | Tatiana Luchnikova (Russia)* |
| AP05-163 | A case of glucocorticoid pulse therapy for post-COVID-19 acute respiratory distress syndrome | Youngeun Jang (Republic of Korea)*, Soo-Taek Uh, Ki-Up Kim, Yang-Ki Kim, So-Myeong, Bo Young Lee, Hee-Young Yoon |
| AP05-164 | Profile of COVID-19 Patients Based on Vaccination Status at Ulin General Hospital Banjarmasin | Dewita Rahmantisa |
| AP05-165 | Prognostic role of 25-OH Vitamin D levels on symptom duration in patients with post-acute COVID-19 visiting outpatient department | Myeong Geun Choi (Republic of Korea)*, Sojung Park, Yune-Young Shin, Jung-Hyun Chang, Eun Mi Chun |
| AP05-166 | Case of multisystem inflammatory syndrome following covid infection- Teenager presenting with acute heart failure | Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Alfah Sadieen, Ruwanti Jayasekara, Madushanka Rathnayake |
| AP05-167 | Endurance and Cognitive Improvement in a severe case of COVID-19 patient | Tengku Misdalia (Indonesia)*, Laurentia Cindy Gani Wijaya, Dan Marta Sari |
| AP05-168 | High serum CRP and procalcitonin levels are associated with severity in patients with COVID-19 infection | Agus Alim (Indonesia)*, Djalmakuddin M molangan, Irawaty Djaharuddin, Muhammad Ilyas |
| AP05-169 | Case Report: Multisystem Inflammatory Syndrome in Adults | Ryan Cinco (Philippines)*, Lei Lani |
| AP05-170 | Not all that cavitates is cancer - a case of delayed diagnosis! | Kundan Reddy Saripalli (Singapore)*, Timothy Toh, Youen Puan, Brian Chua, Isaac Fong, Yi Hon Ten |
| AP05-171 | A case of organizing pneumonia complicated with spontaneous pneumothorax following a mild coronavirus disease | Madushanka Rathnayake (Sri Lanka)*, Ruwani Perera, Sampath Liyanage, Amitha Fernando, Ramani Punchiweera, Waruna Karunarathna |
| AP05-172 | Disseminated Melioidosis infection mimicking Tuberculosis | Chandana Dahanayake (Sri Lanka)*, Madhusha Nanayakkara, Ayeshra Jayawardena, Sandarco De Silva, Malinda Hettiarachchi, Eshanth Perera |
| AP06-173 | Secular Trends and Determinants of Influenza Vaccination Uptake Among Patients with Cardiovascular Disease in Korea: Analysis Using a Nationwide Database | So Rae Kim (Republic of Korea)*, Bumhee Yang, Min Kim, Seonhye Gu, Eung-Gook Kim, Woong Gil Choi, Hyun Lee, De-ar Lee |
| AP05-174 | "Quality of life and persistent symptoms of recovered COVID-19 patients at Osipital ng Maynila Medical Center: a retrospective cohort study" | Caryn Louise De Mesa (Philippines)*, Jan Empino, Noel Dimanadla |
| AP05-175 | The Correlation C-Reactive Protein and Lactate Dehydrogenase Levels with Severity and Outcome in Confirmed Covid-19 Patients at Arifin Achmad Regional General Hospital Riau Province | Jendriella Masyhur (Indonesia)*, Sri Melat, Dewi Wijaya |
| AP05-176 | Health Status of Newborn from Mothers with Chronic Bronchitis | Tatiana Luchnikova (Russia)*, Olga Prikhodko, Elena Romanitskva |
| AP05-177 | Prediction of disease progression by fever patterns in patients with COVID-19 | Ryosuke Imai (Japan)*, Upani, Yuki Matsui, Tomomi Nakamura, Clara So, Shohei Ro, Kohei Okafuyi, Atsushi Kitamura, Yutaka Tomishima, Tsuneko Jinta, Naki Nishimura |
| AP05-178 | Profile complete peripheral blood results in suspect and confirmed patients in the Emergency Rooms of Persahabatan Hospital Jakarta, Indonesia | Vincencia Monica Renata Laurent (Indonesia)*, Menadi Rasmim, Elisha Syahrudin |
| AP05-179 | Development of a Loop-Mediated Isothermal Amplification assay for direct detection of carbapenem-resistant Acinetobacter baumannii from sputum specimens | Bao Yen Pham (Viet Nam)*, Thi Hai Anh Chu, Thi Kieu Duyen Pham, Van Hung Nguyen, Thi Hai Ho Doan |
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| AP06-243 | Clinical and bacteriological status of pulmonary tuberculosis (TB) based on CD4 level, viral load, body mass index (BMI), and radiological features in HIV patient | Titiin Dani Martwi (Indonesia)*, Eppy Eppy, Putu Permata Sari, Erina Burhan, Heidy Agustian, Dewi Yenta Sari |
| AP06-244 | Antibody anti-Histoplasma among Rifampicin-Resistant Pulmonary Tuberculosis patients in North Sumatera population | Seffi Khairunnisa (Indonesia)*, Noni Novianto Soeroso, Raden Aji Hendy Anggriani, Muntasir Abdullah, Aida Aida, Lambok Siahaan, Putri Chaniara Ewaner, Anna Razkayani, Robertus Romy, Rebusl Alawiyah, David Demring, Retno Wahyuningih |
| AP06-245 | Multiple Adverse Effects of Anti Tuberculosis Drugs | Ramayani Batjun (Indonesia)*, Irawaty Djaharuddin |
| AP06-246 | The effects of Curcuma longa supplementation on IL-10 and sputum conversion in drug resistance tuberculosis patients receiving short time regimen  
Yuliza Yuliza (Indonesia)*, Tutik Kusmiati, Soedarsono Soedarsono | AP06-259 | Paradoxical reaction to tuberculosis treatment in the form of a new pleural effusion  
Ki Hui Lim (Singapore)*, Caroline Victoria Chooning |
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| AP06-247 | Lumbosacral spinal tuberculosis- An uncommon case of spinal tuberculosis with involvement of an unusual site  
Sameera Gamlath (Sri Lanka)* | AP06-260 | Rehabilitation Programs in Decrease Chest Expansion and Low Cardiorespiratory Endurance in Secondary Spontaneous Pneumothorax due to History of Pulmonary Tuberculosis with Hospital Readmission  
Siti Chandra Widjanantie (Indonesia)*, Laura Bertha Rachael, Dina Sawitri Utomo, Nury Nusakunungtyas, Erina Burhan, Agus Dwi Susanto, Faisal Yunus |
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Jay-Lord Saniatan (Philippines)* | AP06-261 | Severe Pulmonary Hypertension in Tuberculosis Pulmonary Sequelae  
Nina Purnamasari (Indonesia)*, Budi Yanti, Yunita Airmy |
| AP06-249 | A case report : Tuberculous spondylitis without pulmonary tuberculosis  
Rosdiana Yusuf (Indonesia)*, Irawaty Djaharuddin | AP06-257 | Multiple Adverse Effects of Anti Tuberculosis Drugs  
Ramayani Batjun (Indonesia)*, Irawaty Djaharuddin |
| AP06-249 | 56 Years Old Healthy Foreigner Male with Loculated Pleural Effusion Secondary To Tuberculosis:  
A Case Report  
Jay-Lord Saniatan (Philippines)* | AP06-267 | Co-existing bronchopleural fistula and lung entrapment as a rare complication of bacteriologically confirmed pleuro-pulmonary tuberculosis  
Jan Christian Feliciano (Philippines)*, Rachelle Kaye dela Torre-Mangente, Daniel Macchohon, Ralph Elvi Villabos |
| AP06-250 | Report a case with coexistence of active pulmonary tuberculosis and lung cancer in vietnam national lung hospital  
Tuan Anh Tran Thai (Viet Nam)*, Thanh Tuan Phan | AP06-268 | Series of Misfortunes: Tuberculosis in Cyanotic CHD  
Joseph Raevin Pelayo (Philippines)*, Sheena Cecilia Caputol-Dajab |
| AP06-250 | Secondary Multidrug-Resistant Tuberculosis with HIV and Pnumothoraks complication:  
Case Report  
Ronni Permana (Indonesia)*, Nastha Aulia, Dzaki Murtadho | AP06-269 | Factors associated with false-negative for T-SPOT.TB in patients with active tuberculosis  
Dararat Ekombatchai (Thailand)*, Chanaporn Tochaeng, Viboon Boonsarngsuk |
| AP06-251 | Tuberculosis of the tongue : A mimic of lingual carcinoma  
Heshani De Silva (Sri Lanka)*, Saman Kularatne, Thanuja Tissera | AP06-266 | Severe Pulmonary Hypertension in Tuberculosis Pulmonary Sequelae  
Nina Purnamasari (Indonesia)*, Budi Yanti, Yunita Airmy |
Niranjani Chandramal (Sri Lanka)*, Aisha Samaranayake, Dilshan Priyankara, Arthihai Srirangan, Sameera Gamith, Ravini Karunathilaka | AP06-266 | A case with coexistence of active pulmonary tuberculosis and lung cancer in vietnam national lung hospital  
Tuan Anh Tran Thai (Viet Nam)*, Thanh Tuan Phan |
| AP06-252 | Secondary Multidrug-Resistant Tuberculosis with HIV and Pnumothoraks complication:  
Case Report  
Ronni Permana (Indonesia)*, Nastha Aulia, Dzaki Murtadho | AP06-266 | A rare case of bilateral spontaneous pneumothorax  
Indah Nurwati (Indonesia)*, Irawaty Djaharuddin, Hary Akza Putrawan |
| AP06-253 | Tuberculosis of the tongue : A mimic of lingual carcinoma  
Heshani De Silva (Sri Lanka)*, Saman Kularatne, Thanuja Tissera | AP06-267 | Co-existing bronchopleural fistula and lung entrapment as a rare complication of bacteriologically confirmed pleuro-pulmonary tuberculosis  
Jan Christian Feliciano (Philippines)*, Rachelle Kaye dela Torre-Mangente, Daniel Macchohon, Ralph Elvi Villabos |
Niranjani Chandramal (Sri Lanka)*, Aisha Samaranayake, Dilshan Priyankara, Arthihai Srirangan, Sameera Gamith, Ravini Karunathilaka | AP06-268 | Series of Misfortunes: Tuberculosis in Cyanotic CHD  
Joseph Raevin Pelayo (Philippines)*, Sheena Cecilia Caputol-Dajab |
| AP06-255 | Spontaneous regression of RasmussenÆs aneurysm causing massive hemoptysis in a patient with pulmonary tuberculosis: a case report  
Patricia Pintac (Philippines)*, Joven Jeremius Tanchuco | AP06-269 | Factors associated with false-negative for T-SPOT.TB in patients with active tuberculosis  
Dararat Ekombatchai (Thailand)*, Chanaporn Tochaeng, Viboon Boonsarngsuk |
| AP06-256 | Multiple Adverse Effects of Anti Tuberculosis Drugs  
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Arthihai Srirangan (Sri Lanka)*, Niranjani Chandramal, Sameera Gamith, Aisha Samaranayake, Ravini Karunathilaka |
| AP06-257 | Neutrophil - lymphocyte ratio and interferon gamma release assay results  
Pradita Sri Mitasari (Indonesia)*, Umi Solekhah Intansari | AP06-267 | Co-existing bronchopleural fistula and lung entrapment as a rare complication of bacteriologically confirmed pleuro-pulmonary tuberculosis  
Jan Christian Feliciano (Philippines)*, Rachelle Kaye dela Torre-Mangente, Daniel Macchohon, Ralph Elvi Villabos |
| AP06-258 | Complete atelectasis after anti-Koch’s therapy: a case report  
Raphael Ryan Mailay (Philippines)*, Gian Carlo Aranda, Cristette Garcia | AP06-267 | Co-existing bronchopleural fistula and lung entrapment as a rare complication of bacteriologically confirmed pleuro-pulmonary tuberculosis  
Jan Christian Feliciano (Philippines)*, Rachelle Kaye dela Torre-Mangente, Daniel Macchohon, Ralph Elvi Villabos |

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Note: The above table is a summary of the presentations and posters from the 26th Congress of the Asian Pacific Society of Respirology. Each entry includes the presentation number, the title, and the authors of the presentation.
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AP06-270
Rifampicin induced acute interstitial nephritis in a patient with disseminated tuberculosis: A case report.
Sae Kye Teoh (Malaysia)*, Azza Omar, Suzita Che Sayuti, Mat Zuki Mat Jaaf, Hui Pheng Neo, Mumi Hartini Jans, Wan Hasrun Halim, Wan Hasrun, Adina Daeng.

AP06-271
Tuberculosis in the hip joint in a patient with smear-positive Pulmonary TB
Chandana Dahanayake (Sri Lanka)*, Madhushi Nanayakkara, Ayeesha Jayawardena, Malinda Hettiarachchi, Sandanap De Silva, Eshanth Perera.

AP06-272
Tuberculosis and Covid 19 co-infection: Retrospective analysis from a tertiary care hospital in Central India
Alkesh Kumar Khurana (India)*, Abhishek Goyal, Sagar Khadanga, Sai Tej Parvala, Gaurav Sahu.

AP06-273
A double edged sword. Anti-tuberculous drugs induced autoimmune hemolytic anemia
Madhushi Nanayakkara (Sri Lanka)*, Chandana Dahanayaka, Ayeesha Jayawardena, Malinda Hettiarachchi, Saman Kapilavatcha, Eshanth Perera.

AP06-274
Disseminated tuberculosis: a rare case report
Marscha Idrayta Ais (Indonesia)*, Heidy Agustina, Efriadi Ismail.

AP06-275
A case of sarcoidosis in a patient with a history of extrapulmonary tuberculosis - A possible trigger
Sampath Liyanage (Sri Lanka)*, Heshini De Silva, Harshana Bandara, Saman Kularatne.

AP06-276
Tuberculosis (TB), HIV and Covid 19 : Three in One : A case report
Niranjani Chandramal (Sri Lanka)*, Chandana Dahanayaka, Madhushi Nanayakkara, Ravini Karunathilaka, Eshanth Perera.

AP06-277
Discordant rifampicin susceptibility in tuberculosis causing clinical dilemmas
Sampath Liyanage (Sri Lanka)*, Heshini De Silva, Saman Kularatne, Bandu Gunasekara, Dushani Jayawardana.

AP06-278
Chronic diarrhea, Inflammatory Bowel Disease, and the great mimicker of all time, Tuberculosis.

AP06-279
Post-tuberculous bronchostenosis: A rare case of complete obliteration of left mainstem bronchus in a patient with history of tuberculosis
Jan Christian Feliciano (Philippines)*, Karen Anne Claudad, Ria Katrina Cortez, Manuel Jorge.

AP06-280
Be aware of COVID-19 case with Co-morbidity HIV/MTB can be lead to death
Mohammed Chaidir Maricar (Indonesia)*, Irwany Djaharuddin.

AP06-281
Mycobacterial kansasii infection mimicking lung cancer with secondary myelofibrosis
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<td>Lung adenocarcinoma diagnosed by pleuroscopy with flexible bronchoscopy in patient massive pleural effusion</td>
<td>Riffan Armanda (Indonesia)*, Henry Priyanto, Novita Andayani, Yunita Arliy, Imam Ali, Fati Dewi Ismida</td>
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<td>AP12-603</td>
<td>Rare Foreign Body in The Lung</td>
<td>Roshan Kumar Manoharlal (India)*, Harikishan Gonuguntla, Don Gregory Mascarenhas, Srawi Reddy Munagala, Harshini Ernabell, Kishan Shrikant Juvva, Preethi Vidyasagar</td>
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<td>AP12-604</td>
<td>Hemotorax: A Limited Presentation of COVID-19</td>
<td>Cut Asmaul Husna (Indonesia)*, Cut Asmaul Husna, Budi Yanti, Budi Yanti, Ferry Dei Kurniawan</td>
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<td>AP12-605</td>
<td>Individualised management of bronchopleural fistula: a case series</td>
<td>Vishnu Gireesh (India)*, Sneha Tripude, Mahavir Modi, Saumya Gupta</td>
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<td>AP12-606</td>
<td>Through the looking glass: a case report of exogenous lipoid pneumonia in a 4-month old infant</td>
<td>Pristine Marie C. Bernardo (Philippines)*, Maron G. Sanchez, Anna Marie S. Putula, Anthony C. Calbo, Stephanie G. Balasing</td>
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<td>Pneumonitis, Thoracic Lymphadenopathy and Black Bronchoalveolar Lavage in a Young Lady with Heavy Marijuana Smoking History</td>
<td>Nai-Chien Huan (Australia)*, Adrian Hernet, Sobhan Dommer, Sue Morey, Rajesh Thomas</td>
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<td>Retrograde Dilatation - a novel technique for complete tracheal stenosis management</td>
<td>Hari Kishan Gonuguntla (India)*, Preethi Vidyasagar Belguindi</td>
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<td>AP12-609</td>
<td>The Triple Terrific - The successful combination of blood patch, ambulatory pneumothorax device and talc pleurodesis in treating complex pneumothorax in a patient with underlying Systemic Sclerosis - Interstitial Lung Disease (SSc-ILD)</td>
<td>Mas Fazlin Mohamad Jailani (Malaysia)*, Mohamad Faizal Abdul Hamid, Andrea Yu-Lin Ban, Boon Hau Ng, Nik Nuratarqah Nik Amanah</td>
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<td>AP12-610</td>
<td>Endobronchial dieulafoy</td>
<td>Jae Deog Ahn (Republic of Korea)*, Ho Jong Kim</td>
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<td>AP12-611</td>
<td>Utility of Bronchoscopy with Bronchoalveolar Lavage in Post Renal Transplant Patients Admitted at The National Kidney and Transplant Institute from January 2008 to December 2018</td>
<td>Allyce Joana de Leon (Philippines)*, Joanne Kathleen Grete-Gansa</td>
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<td>AP12-612</td>
<td>Airway foreign body - a preliminary report from a tertiary care referral hospital in Bangladesh</td>
<td>Nirmal Kanti Sarkar (Bangladesh)*, Mohammad Anamul Hoque, Md Mostafar Rahman Ma</td>
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### Respiratory Structure and Function

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<td>Case of a 48-year-old male, with bronchopulmonary sequestration presenting with recurrent pneumonia</td>
<td>Zeara Anjelica Calma (Philippines)*, Catherine Jordan, Franklin Yu</td>
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<td>AP14-635</td>
<td>A Case Report on Subglottic Hemangioma on a 4-month-old Female Infant</td>
<td>Julienne Blaise Legaspi (Philippines)*</td>
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<td>Lung restriction in children with marfan syndrome and severe scoliosis: a case report</td>
<td>Melda Warliani (Indonesia)*, Anni Amri Ribeka</td>
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<td>AP14-637</td>
<td>A rare manifestation of benign tumour: Endobronchial hamartoma</td>
<td>Noor Izyani Zakaria (Malaysia)*, Jin Lee Lim, Syazalial Syakirin Siroh Afifah, Aneez Aslan, Jen Lee Wan, Mona Zara Nasuruddin, Jamalal Aziz Abdul Rahman</td>
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<td>Michelle Angela Tan-Reyes (Philippines)*</td>
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<td>Improvement of peak cough flow score in post-stroke with Guillain-Barr Syndrome patient</td>
<td>Putri Alfaridy Lusia (Indonesia)*, Laurentina Cindy Gani Wijaya, Dan Marta San</td>
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<td>Reconstructive Airway Surgery in a Penetrating Neck Trauma with Laryngotracheal Injury: Achieving an Adequate Airway, Voice, and Swallowing Outcomes</td>
<td>Khoirul Anam (Indonesia)*, Fauziah Farida, Bambang Hemainti</td>
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<td>AP14-641</td>
<td>One More Chance: A Case of Recurrent Congenital Diaphragmatic Hernia</td>
<td>Adji Khan (Philippines)*, Mareil Bitoon, Margaret Anne Habawel, Tito Apollo Quitoriano</td>
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### Pulmonary Circulation

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<td>Acute right lung abscess secondary to pulmonary thromboembolism with left lower limb deep vein thrombosis in a case of left-sided cerebrovascular accident</td>
<td>Anish R (India)*, Kriti Agramwali, Anjali Kanath</td>
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<td>Pulmonary embolism as a clinical manifestation of hematogenic thrombophilia</td>
<td>Tatiana Luchnikova (Russia)*, Valeri Vorobievsky, Tatiana Zabrotskaya, Diga Priloshko, Inna Sayanova, Inna Korstova, Evgeni Ramantsova</td>
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<td>AP15-648</td>
<td>Incidental Finding of CTEPH in a Patient Presenting with Seizure, Acquired Arteriovenous Fistula, and Obstructive Sleep Apnea</td>
<td>Aprille Anne Octaviano (Philippines)*, Franklin Yu</td>
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<td>AP15-649</td>
<td>&quot;Double edged sword&quot;: Bilateral Myotic Pulmonary Artery Aneurysm with Acute Deep Venous Thrombosis Presenting With Massive Hemoptysis with Marfanoid Features</td>
<td>Catherine Joy Tubig (Philippines)*, Sherina Juliana, Lucas Emir Sheikh Sruthan, Fernando Ayyalga, Mona Paz Mateo</td>
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AP016-656  Interstitial lung abnormality in health screening examinees: prevalence and progression
Jooae Chee (Republic of Korea)*, Ji Hyun Oh, Han Na Noh, Eun Jin Choe, Jin Woo Song

AP016-657  Comparison of the efficacy of pirfenidone in patients with combined pulmonary fibrosis and emphysema and idiopathic pulmonary fibrosis without emphysema
Hye Ran Gwon (Republic of Korea)*, Song Yee Kim, Jong Sun Park, Moo Suk Park, on behalf of Korean ILD study group

AP016-658  Pulmonary langerhans’ cell histiocytosis in a non-smoker
Malika Udugama (Sri Lanka)*, Nirasha Jayathilaka, Bandu Gunasena

AP016-659  A rare case of interstitial lung disease presenting with intractable shortness of breathing
Sameera Gamlath (Sri Lanka)*, Tharmini Ethirnammannangam, Arthihai Srirangan, Ravi Karunathilake

AP016-660  Heading: Familial interstitial lung disease in four members of one family in Bangladesh A case series
Sadia Sultana Resma (Bangladesh)*, Kazi Saffuddin Bennoor, Taerin Farhana, Sheikh Shahnur Hossain, Mohammad Ali Hossain, Abdus Shaker Khan, Ferdous Wahid

AP016-661  Characteristics of dyspnea in patients with progressive fibrotic phenotype of interstitial lung diseases (ILD) associated with coronary heart disease (CHD).
Alexander Medvedev (Russia)*, Anver Abubikirov, Mikhail Chushkin, Larisa Masanova, Evgeniy Smely

AP016-662  An unusual presentation of a known entity - The great masquerader
Sugeesha Wickrasmasinghe (United Kingdom)*, Syed Ahmad, Syed Mehdi, Mohammed Munavvar, Susan Keeney, Larri Narayan Gudur

AP016-663  The triple trouble - severe connective tissue disease related interstitial lung disease complicated with pneumoemiastinum and pulmonary embolism
Sampath Liyanage (Sri Lanka)*, Harshana Bandara, Dawpadee Dharmasena, Saman Kularatne, Amrith Rathnapala, Sumudu Palihawadana

AP016-664  Case of idiopathic pleuroparenchymal fibroelastosis with pneumoemiastinum
Lakmini Dasanayake (Sri Lanka)*, Amirtha Fernando, Madushanka Rathnayake

AP016-665  Rapidly progressive Interstitial Lung Disease (ILD) in a patient with features of Dermatomyositis - A case report
Malinda Hettiarachchi (Sri Lanka)*, Dinika Tilkanatne, Chandana Dahanayake, Madhusha Nanayakkara, Ayesha Jayawardhana, Saman Perera, Sumudu Palihawadana, Eshanth Perera

AP016-666  Lung cancer emerging in a case of fibrotic interstitial lung disease
Benjamin Gan (Malaysia)*, Syazatul Syakirin Suri Allah, Zuhans Abul Hamid

AP016-667  Challenges in management of lung cancer coexisting with idiopathic pulmonary fibrosis
Minalosani Arumugam (Malaysia)*, Albert Iruthaing Lourdesamy Anthony

AP016-668  Rituximab induced pneumonitis in a patient with Sero-positive Rheumatoid arthritis - A rare complication
Sugeesha Wickrasmasinghe (United Kingdom)*, Sakeel Punnithal, Thyusha Doveneni, Mohammed Munavvar, Syed Mehdi

AP016-669  Organizing pneumonia following neoadjuvant chemotherapy in a patient with breast carcinoma: A diagnostic challenge
Madushanka Rathnayake (Sri Lanka)*, Lakmini Dassanayake, Ruvanthi Jayasekara, Amritha Fernando

AP016-670  A Rare Cause of Rapidly Progressive Respiratory Failure
Vichaya Aruntharit (United States of America)*, Brandon Colaco

AP016-671  A rare case of Combined pulmonary fibrosis and emphysema associated with systemic sclerosis
Lakmini Dassanayake (Sri Lanka)*, Amritha Fernando, Madushanka Rathnayake, Ruvanthi Jayasekara

AP016-672  Methotrexate induced acute interstitial pneumonia in a patient with seronegative rheumatoid arthritis - a case report
Yasith Abeysekera (Sri Lanka)*, Shin Dee Ar, Aritha Rathnapala, Chandra Sapurugula

AP016-673  A Lady with rough hands and a rash presenting with exertional shortness of breath
Chandana Dahanayake (Sri Lanka)*, Madhush Nanayakkara, Ayeshwa Jayawardana, Sandaru Don Silva, Malinda Hettiarachchi, Eshanth Perera

AP016-674  The tale of a dyspneic lady with cystic lungs. A case of primary Sjgren syndrome complicated with lymphoid interstitial pneumonia
Madushanka Rathnayake (Sri Lanka)*, Ruvanthi Jayasekara, Sandimal Serasinghe, Ruvanthi Jayasekara, Amritha Fernando, Monika de Silva

AP016-675  Pleuroparenchymal fibroelastosis associated with invasive aspergillosis
Malika Udugama (Sri Lanka)*, Nirasha Jayathilaka, Bandu Gunasena

AP016-676  A case of a mixed connective tissue disease presenting with features of interstitial lung disease and underlying pulmonary tuberculosis
Sameera Gamlath (Sri Lanka)*

AP016-677  Pneumocystis jirovecii pneumonia in a patient with Amyloidosis
Kazi Saffuddin Bennoor, Taerin Farhana, Asmaa Ali, Mohammad Ali Hossain, Abdus Shaker Khan, Ferdous Wahid

AP016-678  Brigatinib induced severe interstitial pneumonitis
Daawadee Dharmasena (United Kingdom)*, Sanka Vijayabandara, Osei Kankam, Agnes Hurter

AP016-679  Interstitial Lung Disease in association with Anti myositis antibodies: a series of 6 cases,
Gaurav Sahu (India)*, Alkesh Kumar Khurana, Abhishek Goyal, Sai Tej Pavitra, Bhupinder Kumar Rajak, Amit Singh

AP016-680  Diagnosis Dilemma: Pulmonary Veno-occlusive disease- A rare cause of pulmonary hypertension
Sugeesha Wickrasmasinghe (Sri Lanka)*, Nanjan Chandramal, Aisha Samaranayake, Ravi Karunathilake

AP016-681  A rare cause of interstitial lung disease associated with anti-JO-1 antibody
Sameera Gamlath (Sri Lanka)*, Tharmini Ethirnammangham, Arthihai Srirangan, Amitha Fernando
Hemoptysis with progressive breathlessness in an otherwise healthy adult, a common presentation of a rare disease
Sanjeewa Malinda Hettiarachchi (Sri Lanka)*, Chandana Dahanyake, Madhusha Nanayakkara, Ayeshia Jayawardana, Sumudu Palihawadana, Eshanth Perera

Erasmus Syndrome: A Case Report and Review of Literature
Jan Michael Jesse Lomanta (Philippines)*, Mary Antonette Abjaiko, Juan Raphael Gonzales, Erc Jason Amante, Sheen Urquiza, Hanna Lucero-Oria, Joel Santiago

Using antifibrotic drugs as an add-on treatment for lung fibrosis after Covid-19 infection: Two case reports from Vietnam
Huy Le Ngoc (Viet Nam)*, Luong Dinh Van, Ngoc Nguyen Thi Bich, Thinh Nguyen Hoang

Prevalence and risk factors of uveitis in patients with newly diagnosed sarcoidosis in Korea
Jang Ho Lee (Republic of Korea)*, Jayou Yang, Junyeong Lee, Ho Cheol Kim

Metastatic gastric signet ring cell carcinoma presenting as interstitial lung disease
Margie Angelica Sigue (Philippines)*, Daniel Tan, Roberto De Guzman, Katrina Luna, Renelene Macabeo

The clinical efficacy of a Mixture of Ivy Leaf Extract and Coptidis rhizome in patients with idiopathic pulmonary fibrosis
Ji Hoon Jang (Republic of Korea)*, Hang-Jae Jang, Jae Ha Lee

Description of Monocyte Counts and Interstitial Lung Disease: A Single ILD Referral Centre in Malaysia,
Jin Lee Lim (Malaysia)*, Normaszuhaila Ab Hamid, Norashah Salaman, Syazatul Syakirin Sirat Allah

Asthma

Chair: Tae-Hyung Kim (Hanyang University College of Medicine, Republic of Korea)

09:20-09:30 AO12-1
CSN5 is involved in asthma via interaction with PD-L1
An-Soo Jang (Republic of Korea)*, Seon-Muk Choi, Purun-Heeul Lee, Da Yeon Hwang, Shinhee Park, Ae Rim Baek, Min-Hyeock Ahn

09:30-09:40 AO12-2
Effects of human adipose tissue- and bone marrow-derived mesenchymal stem cells on airway inflammation and remodeling in a murine model of chronic asthma
Joon Young Choi (Republic of Korea)*, Jung Hwi, Sora Jeon, Chang Won Jung, Chin Kook Rhee

09:40-09:50 AO12-3
Candidate miRNA genes as biomarker in allergic asthma disease
Halime Yildirim (Turkey)*, Ender Coskunpinar, Betul Akcesme, Sevgi Kalkanli Tan, Erzin Aynaci

09:50-10:00 AO12-4
Septal deviation could be associated with the development of bronchial asthma: a nationwide cohort study
Jong Seung Kim (Republic of Korea)*, Sam Hyun Kwon, Jae Seok Jeong, Yeon Seok You, Jong Hwan Lee, Sang Wook Yeo, Doo Hwan Kim, Yong Chul Lee

10:00-10:10 AO12-5
Montelukast and pranlukast related neuropsychiatric events in adults with asthma and rhinitis
Jae-Woo Kwon (Republic of Korea)*, Young-Woo Jo, Hyun-Soo Seo, Joonhong Min, Young Her

10:10-10:20 AO12-6
Improvements of Clinical Symptoms and Lung Function in Asthma Patients After Montelukast Therapy at Harum Melati Clinic, Pringsewu Regency, Lampung Province, Indonesia 2017-2020
Dimas Trend Pinaka Baladika (Indonesia)*, Retno Ariza Soeprihatni Soemanwoto, Hetti Rusmin, Jordan Okonkwo, Siti Indriyani, Diyan Erawati, Adhyya Wibowo

10:20-10:30 AO12-7
Selecting representative questions in Asthma Control Test
Min Seok Chang (Republic of Korea)*, Heul Yu, Sunmin Park, Ji Hoo Lee, Seok Jeong Lee, Won-Yeon Lee, Suk Joon Yang, Sang-Bae Ko, Sang-Ho Kim

10:30-10:40 AO12-8
Dupilumab improved lung function and reduced exacerbation rates in patients with moderate-to-severe asthma and prior exacerbations. LIBERTY ASTHMA TRAVERSE study
### Oral 13 09:20-10:50

**Pulmonary Circulation - VTE and PH (venous thromboembolism and pulmonary hypertension)**

**Chair:** Masayuki Hanaoka (Japan)

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<td>09:20-09:30</td>
<td>Culins/TRAF6/NF-κB/VEGF-mediated endothelial dysfunction aggravates hypoxic pulmonary hypertension</td>
<td>Lei Wang (China [Mainland]), Jie Lu</td>
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<td>09:30-09:40</td>
<td>Combination of CARSKKNDCC (CAR) peptide with sildenafil in the treatment of pulmonary hypertension associated with emphysema induced by SUSA-16 in rats</td>
<td>Norihiko Goto (Japan), Toshihito Yada, Yoshiki Koguch, Masanori Yatsumi, Masayuki Hanaoka</td>
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<td>09:40-09:50</td>
<td>Clinical experiences of high-risk pulmonary thromboembolism receiving extracorporeal membrane oxygenation in single institution</td>
<td>Joonyong Jang (Republic of Korea), Bo Young Lee, Ki Up Kim, Yang Ki Kim, Soo Myoung, Youngeun Jang, Wonho Chang</td>
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<td>09:50-10:00</td>
<td>Anticoagulation in Patients with Antiphospholipid Syndrome-associated Venous Thromboembolism: A Nationwide Study</td>
<td>Hun-Gyu Hwang (Republic of Korea), Ju Hyun Lee, Sang-A Kim, Yang-Ki Kim, Myung-Shin Kim, Junhwi Hong, Ho Young Yim, Soo-Mee Bang</td>
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<td>10:00-10:10</td>
<td>Correlation of pulmonary artery enlargement in chest CT with Mortality of COVID-19 patients admitted at Manila Doctors Hospital from March-August 2020: A Retrospective Cohort</td>
<td>Olivia Faye Listanco (Philippines), Juhelmin Veerash Galang, Albert Alias, Jr</td>
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<td>10:20-10:30</td>
<td>Submassive Pulmonary Embolism Case Series - A Single Tertiary Experience</td>
<td>Hu Xin Tan (Malaysia), Nurafiza binti Mohd Jaafar, Syaiza Noorbakhsh Mohamed Noor Rahim, Yun Shen Weng, Mohd Zhafri Far Zainal Abidin, Muhammad Amin Ibrahim, Aisyah Natasha Musa, Mohd Adil Mohd Zin</td>
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<td>10:30-10:40</td>
<td>Clinical characteristics and outcomes of pulmonary hypertension patients who underwent right heart catheterization in Thailand: 5-year retrospective single-center study</td>
<td>Nichanun Chansirirukvuti (Thailand), Tunanat Sapankaew, Pattarim Prompanich</td>
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### Oral 14 09:20-10:50

**Critical Care Medicine - Non-covid**

**Chair:** Young-Jae Cho (Seoul National University College of Medicine, Republic of Korea)

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<td>Association of Clonal Hematopoiesis of Indeterminate Potential with Increased Risk of Acute Respiratory Distress Syndrome</td>
<td>Eunhye Bae (Republic of Korea), Jung Ki Yoon, Su-Gyeong Kim, Jeyoung Cho, Nokhoon Kwak, Sun Mi Cho, Jinwo Lee, Young Sik Park, Chang Hoon Lee, Chul Gyu Yoo, Sang Min Lee</td>
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<td>09:30-09:40</td>
<td>Diaphragm thickening fraction for predicting weaning success in COPD patients</td>
<td>Pongpat Klumkum (Thailand), Apichart Kantosap, Pattarim Prompanich, Pitchaya Rachwit, Nonnroint Saphokkang, Thit Sirachanachai</td>
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<td>09:40-09:50</td>
<td>Association between mechanical power and intensive care unit mortality according to the use of neuromuscular blockade in patients under pressure-controlled ventilation</td>
<td>Jae Kyeom Sim (Republic of Korea), Sang Min Lee, Hyung Koo Kang, Yong Chan Kim, Young Sam Kim, Yoon Seong Kim, Won Hee Lee, Song Hoon Park, So Young Park, Jin Hee Lee, Yun Su Kim, Kang Ho Lee, Yoon Joo Lee, Jin Hea Lee, Heung Bum Lee, Chae Man Lim, Won Il Choi, Ji Young Hong, Won Jun Song, Gee Young Suh</td>
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<td>09:50-10:00</td>
<td>Influences of do-not-resuscitate orders and physician orders for life-sustaining treatment of patients in the medical intensive care unit</td>
<td>Song Ji Lee (Republic of Korea), Chaeuk Chung, Dongil Park, Da Hyun Kang, Ye Jin Ju, Jeong Eun Lee</td>
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<td>10:00-10:10</td>
<td>Mechanical ventilation in idiopathic pulmonary fibrosis patients in Korea: a nationwide population-based study</td>
<td>Jae Kyeom Sim (Republic of Korea), Seok Joo Moon, Jae Jeong Shin</td>
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<td>10:10-10:20</td>
<td>Epidemic infection and the effect of early sedation depth on clinical outcomes in mechanically ventilated patients in Korean intensive care units</td>
<td>Dong-geon Hyun (Republic of Korea), Jee Han Ahn, Ha Yeong Gil, Chung Mo Nam, Choa Yun, Chae Man Lim</td>
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<td>10:20-10:30</td>
<td>Endothelial Fgfr1 deficiency worsen LPS induced ALI/ARDS,</td>
<td>Yue Deng (China [Mainland]), Yan Hu, Bisen Ding, Chen Wang</td>
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<td>10:30-10:40</td>
<td>A survey of the awareness and understanding of healthcare staff on rehabilitation for critically ill patients</td>
<td>Won Jin Lee (Republic of Korea), Eunyong Son, Jin Ho Jang, Taehwa Kim, Doosoo Jeon, Hye Ju Yoo, Woo Hyun Cho, Seung Eun Lee, Yun Seong Kim</td>
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Oral 15 | 11:10-12:40 | Grand Ballroom 103 (1F)

**Respiratory Infections (non-tuberculous) - COVID-19 infection - Treatment and Post recovery**

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<td>AO15-1 A community-based pulmonary rehabilitation programme for the elderly recovered from Coronavirus 2019 (COVID-19) Ching Man Tiffany Choi (Hong Kong), Kim Kenneth Au Yeung, Kwok Cheong George Wong</td>
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<td>11:20-11:30</td>
<td>AO15-2 Steroid and/or Antifibrotic Treatment on Improvement of Post Covid Lung Function Ahmed Masum (Bangladesh), Md Zahir Kamruzzaman, Bajqui Bilaq Syed Muhammad, Kaysheh A J M Emil, Hosen Mohammad Shahidat, Khan F R, Alam Md Hasbul</td>
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<td>11:30-11:40</td>
<td>AO15-3 Remdesivir Efficacy in Coronavirus Disease: A Randomized trial Ibrahim Salaheldin Ibrahim (Egypt), Mohammed Hantera, Mohammed Tork, Sherif Abdeldaim</td>
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<td>11:40-11:50</td>
<td>AO15-4 Combining Fluvoxamine with Bromhexine prevents clinical deterioration in outpatients with mild to moderate symptomatic SARS-CoV-2, A Randomized Clinical Trial Dhammika Leshan Wannigama (Thailand), Cameron Hurst, Phattacharit Phatharanai, Peter N Monk, Shuchi Abe, Paul G Hoggins, Katika Akkolsi, Natchakorn Sinchumroonwit, Kanokpong Charaanwit, Angela M Reimen, Fandi Jali, Stephen M Stick, Anthony Koz, Panchart Hongsing, Tanittha Chatsuwan</td>
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<td>11:50-12:00</td>
<td>AO15-5 Different treatment response to systemic corticosteroids according to white blood cell counts in severe COVID-19 patients Kwang Yong Choi (Republic of Korea), Dong Hyun Kim, Kwang Nam Jin, Hyo Jin Lee, Tae Yun Park, Beom Ryu, Jung Kyu Lee, Eun Young Heo, Deog Kyeom Kim, Hyun Woo Lee</td>
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<td>12:00-12:10</td>
<td>AO15-6 The effect of nintedanib in post-COVID-19 lung fibrosis: an observational study Pimchanok Patanyindee (Thailand), Narongkom Saphokkiat, Pitchaya Ruchwad</td>
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<td>AO15-7 Short Term Effects in Pulmonary Function and Chest High Resolution Computed Tomography Scan Among COVID-19 Recovered Adults in a Tertiary Hospital in Davao City Bengi Ato (Philippines), Christoper John Quiarda, Jesse Orcasitas, Mana Theresa Sanchez, Al Patrick Alajas</td>
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<td>12:20-12:30</td>
<td>AO15-8 Characteristics, Management, and Outcomes of COVID-19 Patients Admitted in a Tertiary Private Hospital in Naga City, Camarines Sur: A Retrospective Cohort Study Angelo Roveo Battung (Philippines), James Omana, Jose Manuel Randol Il</td>
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<td>12:30-12:40</td>
<td>AO15-9 Methylprednisolone versus Dexamethasone for severe COVID-19 infection: A retrospective comparative analysis of our early experience. Chun Ian Soo (Malaysia), Khai Vern Poont, Atigh Ayub, Hai Wen You, Cai Xian Tan, Jia Jun Kenneth Loh, Hai Hui Carolyn Eng, Leng Cheng Sia, Nur Husna Ibrahim, Kj Kiat Chin, Thian Chee Lee, Wayyan Munusamy, Mau Em Poh, Yun Liang Tan, Yong Kioh Pang, Chong Kim Lim, Chee Kuan Wong</td>
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Oral 16 | 11:10-12:40 | Grand Ballroom 104 (1F)

**Tuberculosis - Tuberculosis and Others**

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<td>11:10-11:20</td>
<td>AO16-1 Comparison between phenotypic and whole-genome sequencing drug susceptibility testing in multi-drug resistant Mycobacterium tuberculosis isolates from South Korea Seung Heon Lee (Republic of Korea), Jee Youn Lim, Taehye Woo, Jake Whang, Sungkyoung Chun, Sungwon Ryu, Hyung Seok Kang, Jungman Choi, Shinhye Park, Eung Gu Lee, Joon Hyuk Lim, Yon Ji Ryu, Yong Il Hwang, Jaeik Lee</td>
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<td>AO16-2 False positive rifampicin resistant results by Xpert MTB/RIF point-of-care testing at the Singapore Tuberculosis Control Unit Caroline Victoria Choong (Singapore), Jerlyn Huxian Woo, Lovel Galamay, Cynthia Bing Choo</td>
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<td>AO16-3 Frequency and probe distribution of rpoB mutations detected by Xpert MTB/RIF in Tuberculosis Control Unit Singapore Jerlyn Huxian Woo (Singapore), Caroline Victoria Choong, Lovel Galamay, Cynthia Bing Choo</td>
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<td>AO16-5 Isoniazid-resistant tuberculosis is associated with hepatotoxicity: a prospective multicenter cohort study of pulmonary tuberculosis Jiwon Ryoo (Republic of Korea), Yeonhee Park, Ju Sang Kim, Hyung Wook Kim, Sung Kyung Jun, Jin Woo Kim, Bong Hyun Kim, Sang Haak Lee, Jinsoo Min</td>
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<td>AO16-6 The proportion of latent tuberculosis infection using interferon gamma release assay in household contact with drug-resistant tuberculosis patients at persahabatan hospital: Preliminary report Cahyo Guntoro (Indonesia), Fahizah Ibniab, Hendy Agustin</td>
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<td>AO16-7 Cardiac dysfunction in Active Pulmonary Tuberculosis: Prospective, Observational and Interventional study in tertiary care setting in India Shital Patil (India), Rajesh Patil, Gajanan Gondhali, Lavman Kasture, Abhijit Acharya</td>
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<td>AO16-8 Nutritional Status of Hospitalized Tuberculosis Patients In South Kalimantan, Indonesia Eliek Hikmatun Nikmah (Indonesia), Mohammad Icha Juna Nuryadi, Ali Aussani, Harjati Harbati, Erna Kusuma Wardhani, Desi Rahmawan</td>
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<td>AO16-9 Clinical Profile and Outcomes of Covid 19 Patients with Concomitant Pulmonary Tuberculosis: A Cross Sectional Study at Veterans Memorial Medical Center Geramie Acebuque (Philippines), Chona De Vera</td>
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### Oral 17: Lung Cancer - Treatment and Biomarker

**Chair:** Seung Hun Jang (Hallym University College of Medicine, Republic of Korea)

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<td>Jung Hyun Nam (Republic of Korea), Chang Dong Ye, Chan Seon Park, Sung Kyung Kim, Ju Sang Kim, Jeong Hyeon Kim, Jin Woo Kim, Seung Jin Kim, Sang Hak Lee, Hye Soon Kang</td>
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<td>Da Hyun Kang (Republic of Korea), Jeong Suk Koh, Chaeuk Chung, Dangal Park, Song-Ji Lee, Jeong Eun Lee</td>
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<td>Eun Hye Lee (Republic of Korea), Se Hyun Kwak, Chi young Kim, Sung Hoon Lee, Eun Young Kim, Yoon Soo Chang</td>
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<td>Clinicopathologic characteristics of NSCLC patients with uncommon EGFR mutations in Korea</td>
<td>Hye Seon Kang (Republic of Korea), Kyu Yeon Kim, Jeong Uk Lim, Chang Dong Ye, Ju Sang Kim, Seung Jin Kim, Sang Haak Lee</td>
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<td>The clinical outcomes of different first-line treatment strategies in advanced non-small cell lung cancer patients with EGFR exon 20 insertion mutation</td>
<td>Wei-Fan Ou (Taiwan), Yin-Hsiang Huang, Kuo-Hsuan Hsu, Jung-Sen Tseng, Po-Hsin Lee, Tsung-Ying Yang</td>
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### Oral 18: Environmental & Occupational Health and Epidemiology

**Chair:** Jun-Pyo Myong (The Catholic University of Korea College of Medicine, Republic of Korea)

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<td>Stephanie Palacios (Philippines)*, Glenford Refre, Patricio Palmaes</td>
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<td>Ji-Young Lee (Republic of Korea), Eun Ji Lee, Jong Min Oh, Darya Kumar Lamichhane, Yun Chul Hong, Hye Sook Park, Yoon Ho Kim, Min Hwa Eunbee Hsa, Jin Hea Lee</td>
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<td>Jung Yeon Shim (Republic of Korea), Chae Hyeun Park, Sin Ae Kim, Myeon Lee</td>
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<td>Incidence of silicosis and dust exposure among small-scale gold miners in Mongolia</td>
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**Tuberculosis - Drug Resistant Tuberculosis**

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Dmytro Butov (Ukraine)*, Mykhailo Ruzhko, Mykola Gumienuk, Nadiya Sapetnik, Ziana Borscova, Tatiana Botrova  
Chair: Yong Soo Kwon (Chonnam National University Medical School, Republic of Korea) | Dmytro Butov (Ukraine)*, Mykhailo Ruzhko, Mykola Gumienuk, Nadiya Sapetnik, Ziana Borscova, Tatiana Botrova  |
| 14:10-14:20| **AO19-2** Infiltrate lesion area as a predictor of the likelihood of drug resistance tuberculosis in Indonesia South Sumatera  
Alif Fathurrahman (Indonesia)*, Myuki Sari, Zen Ahmad, Linda Andriani, Sudarto Sudarto, Roely Pasaribu, Ahmad Rasyid, Erlal Bahar, Yuni Muhammad | Alif Fathurrahman (Indonesia)*, Myuki Sari, Zen Ahmad, Linda Andriani, Sudarto Sudarto, Roely Pasaribu, Ahmad Rasyid, Erlal Bahar, Yuni Muhammad  |
| 14:20-14:30| **AO19-3** Treatment outcomes of multidrug-resistant tuberculosis with selective use of bedaquiline/delamanid guided by an expert committee: a nationwide cohort study in South Korea  
Yong-Soo Kwon (Republic of Korea)*, Jung Eun Shin, Hyungwook Kang, Doosoo Jeon, Jae-Joon Yim, Tae Sun Shin | Yong-Soo Kwon (Republic of Korea)*, Jung Eun Shin, Hyungwook Kang, Doosoo Jeon, Jae-Joon Yim, Tae Sun Shin  |
| 14:40-14:50| **AO19-5** Effectiveness and safety of Bedaquiline-based, modified shorter treatment regimen for Rifampicin resistant Tuberculosis in Vietnam  
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**Clinical Allergy & Immunology**

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Jamaluddin Madolangan (Indonesia)*, Irwaty Djaharuddin | Jamaluddin Madolangan (Indonesia)*, Irwaty Djaharuddin  |
| 14:10-14:20| **AO20-2** Bronchial Thermoplasty or Biologics for Severe Asthma: A Systematic Review and Network Meta-Analysis  
Pnyng Lee (Singapore)*, Khin Yung Fong, Nicholas Syn, Joseph Zhao | Pnyng Lee (Singapore)*, Khin Yung Fong, Nicholas Syn, Joseph Zhao  |
| 14:20-14:30| **AO20-3** The effectiveness of IL-6 and PD-1 antibody blockade combination therapy in a murine model of sepsis  
Song-Y Lee (Republic of Korea)*, Nayoung Kim, Chaeuk Chung, Dongi Park, Da Hyun Kang, Jong Bum Lee | Song-Y Lee (Republic of Korea)*, Nayoung Kim, Chaeuk Chung, Dongi Park, Da Hyun Kang, Jong Bum Lee  |
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**Respiratory Neurobiology and Sleep**

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<td>Effects of chronic intermittent hypoxia on bleomycin induced interstitial pulmonary fibrosis elderly mouse model</td>
<td>Heayon Lee (Republic of Korea)*, Sei Won Kim, Haein Hee Kim, Sukjin Bae, In Young Kim, Chang Dong Yoo, Sang Haak Lee</td>
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<td>Prevalence of cognitive impairment and the effect of continuous positive airway pressure (CPAP) towards cognition among patients with obstructive sleep apnoea (OSA)</td>
<td>Muhammad Farid Mohd Faaud (Malaysia)*, Ahmad Izuanuddin Ismail, Shalini Bhaskar, Noor Azreen Ahmad Tarmizi</td>
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**Respiratory Infections (non-tuberculous) - NTM**

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<td>Hyoontaeck Hwang (Republic of Korea)*, Jung-Kyu Lee, Eun Young Hyeo, Deog Kyeom Kim, Hui Chi Woon Lee</td>
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<td>Risk of Mycobacterium avium complex lung disease and single nucleotide polymorphisms in programmed cell death-1 gene</td>
<td>Sheng-Wei Pan (Taiwan)*, Chen-Chung Shu, Ja-Yih Feng, Lawrence Shih-Hsin Wu, Jann-Yuan Wang, Wei Jun Su, Yu-Hsin Chen, Hao-Chen Wang, Chung-Jun Yu</td>
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<td>Spatial analysis and population genomics study of Mycobacterium kansasi in southern Taiwan</td>
<td>Bo-Chen Liu (Taiwan)*, Hung-Ling Huang, Po-Liang Li, Inn-Wen Chong, Jann-Yuan Wang, Hsien-Ho Lee</td>
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<td>Animesh Ray (India)*</td>
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**Oral 23** 15:50-17:20  Grand Ballroom 105 (1F)

**COPD**

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**Oral 24** 15:50-17:20  ASEM Ballroom 202+203 (2F)

**Bronchoscopy and Interventional Techniques**

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<td>Trends and an online survey on the use of rigid bronchoscopy in Korea: Too old style to be used recently?</td>
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Thomas Simon FitzMaurice (United Kingdom)*, Caroline McCann, Rom Bedi, Dilip Nazareth, Martin Walsh

AP01-50  A lady with blistering skin rash and “Lungs on Fire”  
Niranjani Chandramall (Sri Lanka)*, Asha Samaranayake, Buddhika Alahakoon, Ananda Jayanaga, Hannda Karunathilaka, Rawin Karunathilaka

AP01-51  The impact of colony morphology on clinical courses of patients with Mycobacterium avium complex pulmonary disease  
Jihoo Lee (Republic of Korea)*, Jaejoo Yim, Nakwon Kwak, Hyeyung Oh, Joosung Yoon, Jake Whang

AP01-52  Understanding the implementation of PR in Bangladesh using Normalization Process Theory  
GM Monsur Habib (Bangladesh)*, Roberto Rabino, Nazim Uzzaman, Abilul Uddin, Hilary Pinnock

AP01-53  Can we combine advances in evidence based medicine and behavioural economics strategies to improve diagnosis in respiratory medicine?  
Tow Keong Lim (Singapore)*, Chia Meng Teh, Mei Ying Chew, Jeff Ng

AP01-54  Clinical outcome and patient characteristics of community acquired pneumonia in a secondary care hospital in central Sri Lanka; are severity indexes and scores universally applicable?  
Sanjaya Sumanasinghe (Sri Lanka)*, Haritha Dissanayake, Thilina Munasinghe, Kokila Wijetinne, Semeedha Samankanthiya

AP01-55  Impacts of clinical training on experience and knowledge of respiratory diseases among post-graduate year (PGY) 1 and 2 residents.  
Yoko Hamakawa (Japan)*, Satoshi Marumo, Ryo Yamanaka, Hiromitsu Ueki, Ryota Kishi, Yuta Sakano, Hirotaka Tamaiya, Shiori Jinno, Chie Morimoto, Takamitsu Imoto, Takamasa Kitajima, Daki Inoue, Motonari Fukui

AP01-56  MALT Lymphoma Masquerading as Organizing Pneumonia as the First Manifestation  
Moh Zohran Zainal Abidin (Malaysia)*, Hui Xin Tan, Yen Shen Wong, Affifa Ahmad, Ainy Nadita Mu, Mohd Anf Mohd Zin

AP01-57  Clinical audit on Discharge Summary Post-Non invasive ventilation  
Dawpadee Dharmasena (United Kingdom)*, Sanka Vijayasundara, Osei Kankam, Theresa Christopherson

AP01-58  Oxygenation Parameters as Predictors of Clinical Outcomes among Non-oxygenated Hospitalized Adult Patients with Moderate Covid-19 infection  
Eliezer James Aguila (Philippines)*, Trinidad Tim

AP01-59  Recurrent spontaneous pneumomediastinum in adolescents: a rare case in healthy adolescents with an infrequently reported entity.  
Wutthichai Sae Chen (Thailand)*, Virissorn Wongsrichanalai

AP01-60  Compliance of non-invasive ventilation among patients with myotonic dystrophy complicated with type 2 respiratory failure  
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Low diffusion capacity predicts poor prognosis in extensive stage small cell lung cancer
Seung-Sik Hwang, Chang-Min Choi, Jeong Uk Lim, Jae Hyun Jeon, Kyu-won Jung, Chi Young Jung, Jeong Su Cho, Yoo-Duk Choi, Da Som Jeon
Results from the Korean Association of Lung Cancer Registry (KALC-R) 2015

Five-year overall survival and prognostic factors in patients with lung cancer:
So Yeon Kim
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Overdiagnosis of lung cancer in never-smokers with low-dose computed tomography in Korean women
So Yeon Kim (Republic of Korea)*, Yong Sik Park, Seung Ho Choi, Seung Hun Jang, Yeol Kim

Low diffusion capacity predicts poor prognosis in extensive stage small cell lung cancer
Heeun Ahn (Republic of Korea)*, Jee Soo Kim, Kyung Soo Hong, Hwan Ho Lee, Jin Hoon Chung, Kyeong Cheol Shin, Eun Young Choi, Hyun Jung Jin, Jong Geol Jang, June Hong Ahn

Exonuclease 1 genetic variant is associated with clinical outcomes of pemetrexed chemotherapy in lung adenocarcinoma
Ji Eun Park (Republic of Korea)*, Mi Jeong Hong, Shin Yup Lee, Jang Hyuck Lee, Jin Eun Choi, Hyo-Gyung Kang, Sook Kyung Do, Ji Yun Jeong, Kyung Min Shin, Won Ki Lee, Sun Ha Choi, Yang Hoon Lee, Hye Won Seo, Seung Soo Yoo, Jaehee Lee, Seung Ick Ha, Chang Ho Kim, Jae Young Park

Nivolumab as maintenance therapy following platinum-based chemotherapy in non-small cell lung cancer patients by tyrosine kinase inhibitor therapy: a single-arm, open-label, phase 2 trial
Jiwon Kim (Republic of Korea)*, Wonsun Ji, Chang Min Choi, Jee Cheol Lee

Full-text abstracts for the session on respiratory neurobiology and sleep are as follows:

**ORAL PRESENTATION & POSTER EXHIBITION**

**Respiratory Neurobiology and Sleep**

**AP09-525**
The measurement of obesity associated with the levels of asthma control among Thai female asthmatic populations
Ketsarin Votmon (Thailand)*, Boonwarn Luckhongthaweew, Orshan Poopachanukoon

**AP09-526**
Clinical features of Aspergillus sensitisation in controlled asthma patients: a pilot study in Indonesia
Wulansari Rumanda (Indonesia)*, Triya Danayanti, Anna Roseliani

**AP09-527**
FEF 25-75% and its correlation with markers of allergic inflammation
Mateen Uzebek (United Arab Emirates)*, Ali Wahla, Zaid Zoumot, Sad Isse, Mohammad Abuzakouk, Nasser Papparut, Hani Qafza

**AP09-528**
Bronchoalveolar Lavage Fluid Cytokines Changes After Bronchial Thermoplasty
Nophol Leelayuwatanakul (Thailand)*, Pimpayao Sodita, Vorawut Thamthaweewat, Vinsom Wongprananchusa, Thitwat Srirasart

**AP09-529**
Vitamin D content in pregnant women with bronchial asthma in a sharply continental climate
Tatiana Luchnikova (Russia)*, Olga Prikhodko

**AP09-530**
Eosinophilic inflammation in asthma patients with various types of airway hyperresponsiveness
Jully Perelman (Russia)*, Aleksey Progug, Anna Prikhodko, Leonid Nakhromchen

**AP09-519**
Real-world efficacy of ‘fixed triple’ single-inhaler combinations in COPD and asthma patients
Taichi Mochizuki (Japan)*, Hensuki Ara, Yasushi Inoue, Ryuta Ueda, Sensuke Nagase, Akira Umeda, Yasuo To, Kenji Tsushima

**AP09-520**
Validity and responsiveness of EuroQol-5 dimensions in asthma: a systematic review and meta-analysis
Ai-Ping Chua (Singapore)*, Sonia Soh, Le-Ann Chen, Ling-Je Cheng, Nan Luo

**AP09-521**
The asthma some risks of adults in the Industrial city
Densenal Dansran (Mongolia)*, Ichinonoor Dashberdz, Sarantuya Jav

**AP09-522**
The significance of soluble ST2 in patients with bronchial asthma
Keitaro Nakamoto (Japan)*, Misato Watanabe, Utska Miyakawa, Yuki Yoshida, Aya Hiraoka, Manabu Ishida, Kojro Honda, Soom Takaka, Takeshi Saraya, Haruyo Ichi

**AP09-523**
Association between house dust mite specific Immunoglobulin E and fractionated exhaled nitric oxide in uncontrolled asthma patients
Nidya Sandi Bahana (Indonesia)*, Triya Danayanti, Budhi Antarksa, Heni Wibawa

**AP09-524**
Assessment of quality of life in asthmatic patients and influencing factors
Tumen-Odii Gankhuyag (Mongolia)*, Densenal Dansran, Uulduljamsureen, Solongo Khurts, Nadamasuren Tsedeehhu, Oyunchimeg Magvanormor, Manajav Tseden-Ish, Amantsureg Gantbold, Nariya Namran, Solongo Khurts
The 26th Congress of the Asian-Pacific Society of Respiration

ORAL PRESENTATION & POSTER EXHIBITION

Clinical presentation and treatment adherence of older adults referred for obstructive sleep apnoea

Ya Hui Jan Lee (Singapore)*, Wang Ji Tan, Jennifer Abad Trinidad, Chuen Peng Lee, John Arputhan Abishagaden, Geok Poh Tan

Cohort profile: the Korean Obstructive Sleep apnea Morbidity Study (KOSMOS)

Sei Won Kim (Republic of Korea)*, Hyeon Hui Kang, Sang Haak Lee

Acquired central alveolar hypoventilation as a sequelae of brainstem tuberculoma

Boon Hau Ng (Malaysia)*, Huah多彩 Ing, Low, Andrea Yu-Lin Ban, Nik Nuratipah Nik Abced, Mohamed Faisal Abdul Hamid

A Meta-analysis on Preoperative Incentive Spirometry in Preventing Pulmonary Atelectasis in Post-Coronary Artery Bypass Grafting Patients

Rachelle Kay Dela torre-Mangente (Philippines)*, Ria Katrina Cortez

Case of Post hypercapnic metabolic alkalosis

Lakmini Dassanayake (Sri Lanka)*, Arintha Fernando, Aflah Sadikeen, Pasanaene Jayasinghe

Predictors of consciousness recovery improvement in patients with hypoglycemic encephalopathy.

Jinkeyong Park (Republic of Korea)*, Seung Eun Lee, Eun Ja Lee, YeEhyung Kim

Survival time of coronavirus disease (COVID-19) patients using mechanical ventilation during first wave pandemi at National Respiratory Referral Hospital, Jakarta

Muhamad Iman Nugraha (Indonesia)*, Prasenohadi Prasenohadi, Mohamed Fahmi Alatas

A patient with COVID pneumonia presenting with bilateral lower limb weakness

Sameera Gamalath (Sri Lanka)*, Ravini Karunathilake

Doege-Potter Syndrome: A Rare Paraneoplastic Syndrome of Solid Fibrous Tumors Reported in Indonesia

Evelyn Nathania (Indonesia)*, Evelyn Nathania, Jaha Teguh Widjaja, Peter Syarief

Case of Re expansion pulmonary edema

Lakmini Dassanayake (Sri Lanka)*, Arintha Fernando, Aflah Sadikeen, Ruwanthi Jayasekara, Madushanka Rathnayake

Development and validation of knowledge, attitudes and practices questionnaire on venous thromboembolism prophylaxis of internists in a tertiary hospital in the Philippines

Jellicoe Maine Asuncion-Lugtu (Philippines)*, Dayan Kristel Guce, Angela Apostol-Alday

Clinical outcomes and health-related quality of life of patients admitted at the medical intensive care unit of Baguio General Hospital and Medical Center

Kelly Ann Suanding (Philippines)*, Mana Lowella De Leon

Association between ICU outcomes of prior systemic corticosteroids in pneumonia

Seohyun Kim (Republic of Korea)*, Ta Joon An, Yun-Hee Lee, Sung Hwan Jeong, Jun-Pyo Myong, Hyung Kyu Yoon

Risk of incident atrial fibrillation after a prior critical illness: novel insights into psychocardiology

Weisun Yu (Taiwan)*

Porcine simulation model for training ECMO for severe acute respiratory failure

Joon Han Kim (Republic of Korea)*, Myung Jin Song, Sung Yoon Lim, Yoon-Joo Lee, Young-Jae Cho

Impact of Remote Antibiotic Consultations in Critically Ill Patients during COVID-19 Pandemic in Korea

Sung Wook Kang (Republic of Korea)*, Cheon Woong Choi, Eun Kyung Chung, Yeo Jin Cho, Hyung Geun Jo

Clinical features and outcomes of aspiration pneumonia compared with non-aspiration pneumonia in nosocomial settings


Corrosive tracheobronchial tree in an alcohol abuser with neglected drowning-associated-lung injury: a case report

Nina Eristiana (Indonesia)*, Tina Rasa, Thang Emly Taufik Hasbuan

Clinical Profile and Outcomes of COVID19 confirmed cases with Acute Respiratory Distress Syndrome Undergoing Prone Positioning at Lung Center of the Philippines (LCP) from May 1, 2020 to April 30, 2021

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Epiglottic Retroversion

Seung Jun Lee (Republic of Korea)*, Manbong Heo, Jong Hwan Jeong, Jung Wan You, Sumi Ji, Yu J Cho, Yi Yeong, Jeong, Jong Dong Lee

Audit on oxygen use in covid hdu and non-hdu wards at a tertiary care centre

Lakmini Dassanayake (Sri Lanka)*, Arintha Fernando, Ruwanthi Jayasekara, Himal Vitharana

Bronchoscopy and Interventional Techniques

A Novel Technique For Tracheoesophageal Fistula Closure

Don Gregory Mascarenhas (India)*, Hari Krishan Gunuguntla, Rohan kumar Manohar, Noottani Bhanuteja, Medhat Nabih Elnamaky

Interventional bronchoscopy for stent placement by rigid bronchoscopy through tracheostomy, A case reports

Anh Duc Hoang (Viet Nam)*, Van Giap Vu, Ngoc Du Nguyen, Ngoc Phu Dao

Balloon Bronchoplasty under conscious sedation and flexible bronchoscope: A feasible approach from initial experience of Malaysia

Arvindran Alaga (Malaysia)*, Nurul Aishah Ahmad Nizam, Izatul Nadrahan Ismail

Endobronchial removal of the peripherally located foreign body with the ultrathin bronchoscopy and ultrathin cryoprobe guided by a manual navigating method

Mingli Yuan (China (Mainland))*, Yang Xiao, Fang Ni, Wen Yin, Yi Hu
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AP12-618 The diagnostic yield of transbronchial lung biopsy (TBB) using both radial endobronchial ultrasound (radial EBUS) and fluoroscopy in peripheral small lung nodule below 20mm. Eun Young Kim (Republic of Korea)*, Seung-Hyun Yong

AP12-619 Tracheopathia osteochondroplastica - to biopsy or not to biopsy? A relook at the rare disease Avinash Anil Nair (Indiia)*, Richa Gupta, Aparna Indi, Ashwin Oliver, Divya Chander, Prince James

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AP12-621 Feasibility and safety of electromagnetic navigation transbronchic needle aspiration under moderate sedation for the diagnosis of pulmonary nodules So Jeong Kim (Republic of Korea)*, Na Young Kim, Soo-Pye Chun, Jeong Hee Choi, In Gyu Hyun, Hee-Sung Lee

AP12-622 Intraperuveal Streptokinase and DNase: A cheaper alternative? Hema Yamini Ramamuty (Malaysia)*, Sarvin Vignere, Shun Mei Lo, Kannan Sivaraman Kannan

AP12-623 Effects of patient-selected music and deep meditation music during bronchoscopy Napprika Kongsoprom (Thailand)*, Chayanon Viddhware, Supinya Sukjit, Paphawee Charakat, Patcharee Chanthawiset, Supawich Somwane, Nattaporn Sriputipaswan

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AP12-625 Transbronchial lung cryobiopsy for diffuse and localized peripheral pulmonary lesions: A retrospective review of our early experience Chun Ian Soo (Malaysia)*, Boon Hau Ng, Monzi Zara Nansuruddin, Ummi Nadza Daut, Noorul Afidza Muhammad, Khai Lip Ng, Nur Husna Mohd Aminuddin, Nai Chen Huan, Fatimah Azahm Mohammad, Samus Ziulkifli, Hafiz Fui Luz, Muhammad Asyraf Abdul Omry, Andina Yu-Lin Ban, Jamalul Azizi Abdul R

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AP12-628 Virtual bronchoscopy navigation combined with thin bronchoscope to diagnose pulmonary tuberculosis: A randomised trial Jeongha Mok (Republic of Korea)*, Jung Seop Eom, Seeyeon Park

AP12-629 Utility of endobronchial ultrasound guided re-biopsy of non-small cell lung cancer with acquired resistance after EGFR tyrosine kinase inhibitor Jin Mo Cho (Republic of Korea)*, Kyung Soo Hong, Kwan He Lee, Jin Hong Chung, Kyeanng Cheol Shin, Eun Young Choi, Hyun Jung Jin, Jong Geol Jang, June Hong Ahn

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AP13-631 Lund metastatic of rhabdomyosarcoma: report a case with delayed diagnosis of primary tumor due to COVID Andash; 19 Tuan Anh Tran Thi (Viet Nam)*, Thanh Tuan Phan, Trung Tho Le

AP13-632 Multiple rib destructions as an extremely rare complication of Kasabach-Merritt syndrome in a 2-year-old female child: A case report Citra Cesilia (Indonesia)*, Eimi Rida, Haruadi Hatta, Andreas Makmur, Widi Ade Fxi, Heida Malanda N Nataaprawi

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AP14-644 The airway occlusion pressure (PD. 1) after COVID-19 Olga Savushkina (Russia)*, Alexander Chernyuk

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Pulmonary fibrosis in critically ill patients with COVID-19: prevalence and outcome : A multicentre retrospective cohort study in South Korea
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Assessment of Dysfunctional Breathing in a cohort of post covid patients and the impact of Breathing Retraining Physiotherapy
Ruwanti Jayasekara (Sri Lanka)*, Suresh Chandrasinha, Anntha Fernandez

SUPER to Characterize Pleural Effusion
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**Paediatric Lung Disease**

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| 09:20-09:30 | AO26-1  
The effect of the coronavirus disease (COVID-19) pandemic on hospital admissions among children due to the respiratory illnesses and the respiratory pathogens.  
Sze Chiang Lui (Malaysia)*, Fauziah Ripin, Nor Diazma Ismail, N FAFWATI FANDATUL AMAR MOHAMMAD, W OCEA W CHIA, HADFIZAWI HUSSEIN, MARA KARIM, SOBERA BEGUM KADER IBRAHIM, ASITA KARIM |
| 09:30-09:40 | AO26-2  
Pulmonary function and complications in children who have received hematopoietic stem cell transplantation  
Panuwat Srichaisawat (Thailand)*, Jitiadda Deenanawong, Chantha Hanmunthakorn |
| 09:40-09:50 | AO26-3  
Correlation of lung function using forced oscillation technique with spirometry in children aged (4-18 years) with cystic fibrosis (CF)  
Sachin Singh (India)*, Meenu Singh, Joseph Mathew |
| 09:50-10:00 | AO26-4  
Pneumorrhachis Complicated by Spontaneous Pneumomediastinum in Pediatric Patients: An 11-year Retrospective Study in Taiwan  
Yu-Wei Liu (Taiwan)*, Yu-Tang Chang, Chieh-Ni Kao, Yu-Ling Huang, Hung-Hsiang Chang, Ju-Yin Lee, Hsien-Pin Lu, Po-Chih Chang, Shah-Hwa Chou |
| 10:00-10:10 | AO26-5  
Risk factors of adverse respiratory outcome after scoliosis surgery in neuromuscular disorder patients  
Kyeong Hun Lee (Republic of Korea)*, Ji Hye Kim, Dong In Suh, Ji Soo Park |
| 10:10-10:20 | AO26-6  
Multicenter Surveillance of Cystic Fibrosis in Korean Children  
Kyung Won Kim (Republic of Korea)*, Hyung Young Kim, Soo-Jong Hong, Kang-Gyo Ahn, Dong In Suh, Shin Hye Noh, Soo Yeon Kim, Jinho Yu, Jung Min Koo, Min Ge Lee |

Oral 27  11:10-12:40  Grand Ballroom 104 (1F)

**Respiratory Structure and Function**

<table>
<thead>
<tr>
<th>Chair</th>
<th>Sang-Ha Kim (Yonsei University Wonju College of Medicine, Republic of Korea)</th>
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</thead>
</table>
| 11:10-11:20 | AO27-1  
Lung fuction and bronchiectasis incidence: nationwide population-based cohort study  
Shinyaung Kim (Republic of Korea)*, Sungkyoung Kim, Chihong Kim, Sohyang Song, Seungklark Kim, Kyungsun Han |
| 11:20-11:30 | AO27-2  
Impact of Bronchopulmonary Dysplasia on Functional and Structural Changes in the Lungs of School-aged Children  
Ji Ye Jung (Republic of Korea)*, Jeong Eun Shin, Jung-yo Shin, Joohye Leo, Haern Jang, Ho Seon Eun, Min Soo Park, Soo Yeon Kim, Myung Hye Seo, Min Jung Lee, Kyung Won Kim |
| 11:30-11:40 | AO27-3  
Characterising the effect of body mass index on thoracic mechanics in adults with cystic fibrosis using dynamic chest radiography  
Thomas Simon FitzMaurice (United Kingdom)*, Caroline McCann, Dilip Nazareth, Martin Walshaw, Paul Stephen McNamara |
| 11:40-11:50 | AO27-4  
Standalone electrical impedance tomography system can infer spirometric indices providing global and regional lung function assessment  
Wang Chun Kwok (Hong Kong)*, Fedi Zouari, Wei Yi Oon, Dayiaman Mudali, Peng Cao, Wei-Ning Lee, Tenence Chi ChunTam, Eddie C. Wong, Russell W. Chan |
| 11:50-12:00 | AO27-5  
The anatomical variations in tracheobronchial tree through videobronchoscope  
Samruddhi Chougale (India)*, Amr Khoga |
| 12:00-12:10 | AO27-6  
Prevalence of positive bronchodilator response in a real-world clinical setting.  
Geak Poh Tan (Singapore)*, Gin Tsin Chai, Danqing Q, John Arputhan Abisheganaden |
## Oral 28

### Respiratory Infections (non-tuberculous) - Pneumonia

<table>
<thead>
<tr>
<th>Time</th>
<th>AO28-3</th>
<th>AO28-4</th>
<th>AO28-5</th>
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<th>AO28-7</th>
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<tr>
<td>11:10-11:20</td>
<td>Changes in respiratory infection trends during the COVID-19 pandemic in the hematologic malignancy patients</td>
<td>Long Term Predictors of Fatal Pneumonia in a Japanese population</td>
<td>Combining a novel cyclic peptide with antibiotics to treat acute and chronic pulmonary infections with multidrug resistance gram-negative bacteria</td>
<td>A hybrid AI model with the first 3-day features of CXR and clinical data to predict the survival discharge of pneumonia patients within seven hospital days</td>
<td>Comparison of beta-lactam monotherapy and combination with fluoroquinolone therapy as initial empiric treatment in patients with hospital-acquired pneumonia: a Korean multicenter cohort study</td>
<td>Correlation of fungal infection risk factor on fungal colonization in pulmonary tuberculosis sequelae patients with recurrent hemoptysis in labuang baji hospital</td>
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<td>11:30-11:40</td>
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<td>12:00-12:10</td>
<td>AO28-8</td>
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Acknowledgments

The Organizing Committee would like to recognize the following sponsors and collaborating organizations for their generous contributions and support of APSR 2022.

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The 26th Congress of the Asian Pacific Society of Respirology

SPONSORSHIP & EXHIBITION

ORAL PRESENTATION & POSTER EXHIBITION

Exhibit Floor Plan and Listing

During the APSR 2022, all participants have access to the industry exhibition, which is located in Hall D1 Lobby, Hall D3F and Grand Ballroom Lobby, 1F Coex. Coffee Break will be served in the exhibition area.

Exhibit Hours

Friday 18 November 09:00-17:00
Saturday 19 November 09:00-17:00
Sunday 20 November 09:00-12:30

Industrial CHAT Hours

Friday 18 November
Daewon 5
10:55-11:05
Codaewon
Clinical Value and Advantages of New Antitussive Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)

Saturday 19 November
Bronpass Tab.
10:55-11:05
Experimental and Clinical Evidence of Bronpass® Joon Young Choi (Incheon St. Mary Hospital, Catholic University of Korea, Republic of Korea)

Ulistin Inj.
15:35-15:45
Ulinastatin in ICU Dong-Hyun Lee (Dong-A University Hospital, Republic of Korea)

Exhibit Hours

Friday 18 November 09:00-17:00
Saturday 19 November 09:00-17:00
Sunday 20 November 09:00-12:30

Exhibitor Booth No.

Boryung Co.
D-1 (3F, Hall D Lobby)

GSK
D-2 (3F, Auditorium Lobby)

YUHAN
D-3 (1F, Grand Ballroom Lobby)

DAEWON Pharmaceutical Co., Ltd.
P-1

Novartis
P-2

AstraZeneca Korea
G-1

Boehringer Ingelheim Korea
G-2

Hanmi Pharm.Co.,Ltd.
G-3

Idong Pharmaceutical
G-4

KOLON PHARMA
G-5

ORGANON KOREA Co., Ltd.
G-6

SAMA PHARM Co., Ltd.
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Sanofi
G-8

Ahngook Pharm
S-1

Chong Kun Dang pharmaceutical
S-2

GeneX Inc.
S-3

MEKICS Co., Ltd.
S-4

MSD Korea
S-5

Pfizer Korea
S-6

Shinhun Medical Co., Ltd.
S-7

Takeda Pharmaceuticals Korea Co., Ltd.
S-8

AJU PHARM CO., LTD.
B-1

BUKWANG PHARM. CO., LTD.
B-2

DaeWoong Pharmaceuticals Korea Co., Ltd.
B-3

HANLIM Pharm. CO., LTD.
B-4

Janssen Korea
B-5

Roche Korea Co., Ltd
B-6

Teva-Handok
B-7

Abbott Korea
E-1

Biworld Pharm.
E-2

Broncus Medical
E-3

Erbe Medical
E-4

FCU Co., Ltd.
E-5

Fisher & Paykel Healthcare Asia Ltd.
E-6

GE Healthcare Korea
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Handok
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Hunan Vathin Medical Instrument Co., Ltd.
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Korea Otsuka Pharmaceutical Co.,Ltd
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National Hospice Center
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NAUMED Inc.
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European Respiratory Society
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Japanese Respiratory Society
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KATRD
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Respirology Editorial Office
E-26
Profiles

BORYUNG

Boryung Co.
Booth No. D-1 (3F, Hall D Lobby)
The history of Boryung began in 1957 with the opening of the Boryung Pharmacy in Jongno 5-ga, based on the spirit of the founder Kim Seung-ho, who used to ride his bicycle around the city to get medicines for sick people no matter how hard they were to find. The founder’s deep devotion with great sincerity to provide “medicine for the sick” has been expanded since 1957 and passed onto our current mission to become an indispensable to human health. We kindly ask for your consistent attention to our new challenges and journey under the new name Boryung in 2022.

GSK

GSK
Booth No. D-2 (3F, Auditorium Lobby)
GSK is a global biopharma company with a purpose to unite science, technology and talent to get ahead of disease, aiming to impact the health of 2.5 billion people over the next 10 years.

YUHAN

Yuhan corporation, a group loved by the people and grown together with the people for the last 90 years, the corporate culture of honesty and integrity, and the strong beliefs in social responsibility are what made Yuhan what it is today. Looking back on the path that we moved on and thinking of the path ahead, Yuhan will make the leap as a global pharmaceutical company through innovative new drug development, and by enabling healthiness and happiness for all the people in the world. In the next 100 years, Yuhan Corporation will follow the noble spirit of our founder, Dr. New Iihwan, and write the history of challenge and development moving forward. Our challenge has already begun.

DAEWON Pharmaceutical Co., Ltd.
Booth No. P-1
Founded in 1958, Daewon Pharmaceutical has always been a reliable companion for medical professionals and patients. As one of the largest therapeutic agent manufacturer in Korea, Daewon will always be your unchanging partner, wherever and whenever.

NOVARTIS

Novartis
Booth No. P-2
Novartis - Reimagine Medicine
Across 142 countries worldwide, 110,738 persons work at Novartis and 769m patients are treated with Novartis products. Novartis is building therapeutic area depth as no. of drugs in pipeline from 2018 to 2020 among the top 25 global pharmaceutical firms in the world.
In Korea, Novartis contributes to innovation through scientific collaboration and networking and continues to support neighbors in need with local communities.

AstraZeneca Korea
Booth No. G-1
We are focused on creating genuinely innovative medicines and improving access to them. In this way, we deliver the greatest benefit to patients, healthcare systems and societies globally. We have three priorities designed to deliver our growth through innovation strategy.

Boehringer Ingelheim Korea
Booth No. G-2
The pharmaceutical company Boehringer Ingelheim was founded in 1885 by Albert Boehringer in Ingelheim. The company has contributed to human health by continuing to research and develop innovate drugs over the past 130 years. Day by day, the 50,000 employees of Boehringer Ingelheim create value through innovation with a clear goal to provide more health and improve the lives of both humans and animals. As part of research and development activities for innovative drugs, the company focuses primarily on the therapeutic areas of cardiovascular disease, respiratory diseases, diseases of the central nervous system, metabolic diseases, and oncology. Boehringer Ingelheim Korea was founded in 1976 and creates value through innovation in the business areas: human medicine, animal medicine. Among the human pharmaceutical department, anti-cancer drug department is dedicated to shedding light on the unresolved problems of oncology and improving quality of life of patients through steady research based on scientific evidence.
Creativity & Innovation

Hanmi jumps up to be a global leading pharmaceutical company with development of new biologics, new chemical entities, and innovative new drugs. The slogan of Hanmi is ‘creation and challenge’ as Hanmi tries to make new ways for the domestic pharmaceutical market. We have started a distribution revolution with RFID technology, the nation’s very first success of US expansion with IMD, and R&D collaboration with global companies.

No.1 R&D

In 2014, Hanmi invested over 150 billion won in R&D for the first time. Based on this, Hanmi focuses on developing new drug projects such as LAPSCOVERY and anticancer drugs targeting the global market. The synergy effect of research and development is expected from our “Open Innovation” strategy, which opened other excellent R&D capabilities.

Ildong Pharmaceutical

Since Ildong Pharmaceutical Group was founded in 1941 under the philosophy of ‘pharmaceuticals are rooted in humans’, we have strived for the healthier lives of people placing our highest value on humanity and lives.

It is our belief that we at Ildong Group exist to bring health and well-being to people around the world. We have created and shared significant value for health and prosperity throughout many years and will continue this endeavor.

Ildong has become one of the leading pharmaceuticals in South Korea with powerful brand lineups including Aronamin, Biovia, and other major OTC products. We developed robust product pipelines for ethical drugs using our advanced technologies and diverse strategic partnerships.

Following the successful development of Besivo, a new drug for chronic hepatitis B treatment, we are focusing our resources and efforts on the success of various ongoing R&D projects and pipelines.

At Ildong Pharmaceutical Group, we continue to make our utmost efforts to create a healthier and brighter tomorrow and adhere to our corporate philosophy of ‘being a leading global organization that helps people live healthier and happier lives.’

KOLON PHARMA

KOLON PHARMA is striving to become the most trusted company by customers based on transparent and ethical management in a rapidly changing pharmaceutical environment.

In addition, we are concentrating our competencies to develop new excellent brand new products and leading health care products that will lead future growth, and to supply high-quality products, and are making continuous achievements.

ORGANON

Organon is a global healthcare company formed through a spinoff from Merck (known as MSD outside of the U.S. and Canada) with a mission to deliver impactful medicines and solutions for a healthier every day. We build upon our strong foundation of more than 60 medicines and other products across a range of areas including reproductive health, heart disease, dermatology, allergies and asthma.

We bring these important therapies around the world, with an international footprint that serves people in more than 140 markets. We believe the diversity of our business provides a sustainable engine of growth so we can continue to invest in and advance new medicines and treatments for women that are so urgently needed.

We are here for her health.

SAMA PHARM

Since SAMA was founded in 1945, we have continuously committed to researching and working to improve the health and the quality of life of people with a core belief in our Respect for Human Dignity and Life. At the same time, we have been practicing precision management as an exemplary pharmaceutical company.

SAMA will continue our utmost efforts in research and development to improve the quality of life through our constant change and innovation. We will also continue to practice our business based on our core value of Respect for Human Dignity.

We wish all of you the good health and happiness.

SANOFI

Sanofi’s specialty care business unit focuses on rare diseases, rare blood disorders, neurology, immunology, and oncology. Sanofi’s ambition is to leverage science and innovation to improve people’s lives and be the industry leader in immunology and oncology. Its approach is shaped by a long history of developing highly specialized treatments and forging close relationships with physician and patient communities.

Ahngook

For a better life! Realizing human health and happiness through the development of excellent pharmaceuticals

1. We offer safer and more differentiated health care products to our customers by integrating medical technology and digital information.
2. We leap forward as a K-Health company that improves the quality of life for people who take advantage of Ahngook’s Total Healthcare service.
Chong Kun Dang pharmaceutical  
Booth No. S-2

[About Chong Kun Dang]  
Manufacture and sale of medicines  
Chong Kun Dang Pharmaceutical Corp. is one of the leading Korean pharmaceutical manufacturers and has a great strength on domestic sales not only with prescription drugs indicated for anti-hypertension, anti-hyperlipidemia and anti-diabetics but also with OTC drugs such as Penzal, Prefemine, Modcol and consumer health such as insecticides, hair dye, etc.

[Our strategy]  
We focus on finding new medicines and diagnostics and establishing data-based insights that evolve the practice of medicine and help patients live longer, better lives.

[OUR MISSION]  
Better Life through Better Medicine  
Contributing to improved quality of life and public welfare by developing quality medicine

GeneX Inc.  
Booth No. S-3

GeneX Inc. was established in 2013 and contracted with Cepheid Inc. as the sole authorized distributor. We consistently found innovative products from a number of agencies, introducing them to domestic hospitals. In particular, we have focused on sophisticated products related to molecular diagnostics and IVD based on Real-time PCR product.

MEKICS Co., Ltd  
Booth No. S-4

MEKICS is taking the lead in providing total respiratory care solutions by developing ‘OmniOx’ equipped with HFNC and NIV functions for the first time in the world based on its proprietary respiratory therapy convergence technology and establishing a diverse line-up.  
We provide evidence for the effects of demographic and environmental changes on the respiration health of the world’s population through continuous and diverse research and create the possibility of extending respiratory therapy, which is limited by time and space to daily life. And we committed by providing products and services suitable for the respiratory therapy environment extended to satisfy both clinician and patient through continuous communication with the medical field.

MSD Korea  
Booth No. S-5

We have always been and always will be inventing for the single greatest purpose: Life  
We aspire to be the premier research-intensive biopharmaceutical company in the world.

For more than 125 years, MSD has been inventing for life, bringing forward medicines and vaccines for many of the world’s most challenging diseases in pursuit of our mission to save and improve lives. We’ve been guided by the view that great medicines and vaccines change the world. Our legacy of inventing medicines and vaccines continues to this day. We adapt our business not only for the next quarter but for the next quarter century.

We demonstrate our commitment to patients and population health by increasing access to health care through far-reaching policies, programs and partnerships.

Today, we continue to be at the forefront of research to prevent and treat diseases that threaten people and animals – including cancer, infectious diseases, such as HIV and Ebola, and emerging animal diseases.

Pfizer Korea  
Booth No. S-6

Breakthroughs That Change Patients’ Lives  
We apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety & value in the discovery, development and manufacture of health care products.
Aju Pharm continually endeavors to create new products through R&D and open innovation. Exon20 insertion mutations for people who have been on chemotherapy and Orfil, and respiratory disease treatments such as Azeptin and Asima. Bukwang continues to grow its original drug business Levovir and Legalon, diabetic complication products such as Dexid and Thioctacid, CNS disorder drugs including Lonasen, Ixel. Bukwang's armamentarium consists of more than 100 products in various therapeutic areas: liver disease treatments such as lopinavir, and target epidermal growth factor receptor (EGFR) - ALUNBRIG (brigatinib) Approved for FIRST-LINE USE in ALK+ Metastatic NSCLC - EXKIVITY (mobocertinib) is an oral therapy that targets epidermal growth factor receptor (EGFR) -Takeda Oncology, the Global Oncology Business Unit of Takeda Pharmaceutical, is headquartered in Massachusetts. By concentrating the power of leading scientific minds and the vast resources of a global pharmaceutical company, we are finding innovative way to improve the treatment of cancer. - ALUNBRIG (brigatinib) Approved for FIRST-LINE USE in ALK+ Metastatic NSCLC - EXKIVITY (mobocertinib) is an oral therapy that targets epidermal growth factor receptor (EGFR) - ALUNBRIG (brigatinib) Approved for FIRST-LINE USE in ALK+ Metastatic NSCLC - EXKIVITY (mobocertinib) is an oral therapy that targets epidermal growth factor receptor (EGFR). Since HANLIM Pharm. was established in 1974, we have constantly put our entire effort to develop and provide a wide range of pharmaceutical products. We will strive to create significant and sustainable values in the future and expand our research and development pipeline in various therapeutic areas. Since 1953, we have strived to not only treat the sick but also to help everyone live healthier and happier lives through our pharmaceutical, medical device, CM, and consumer health businesses. While providing high-quality products through technical innovations and investments in manufacturing facilities, Aju Pharm continually endeavors to create new products through R&D and open innovation.

Shinhan Medical Co., Ltd. Booth No. 5-7
Shinhan Medical Co., Ltd.

Takeda Pharmaceuticals Korea Co., Ltd. Booth No. 5-8
Takeda Oncology, the Global Oncology Business Unit of Takeda Pharmaceutical, is headquartered in Massachusetts. By concentrating the power of leading scientific minds and the vast resources of a global pharmaceutical company, we are finding innovative way to improve the treatment of cancer. - ALUNBRIG (brigatinib) Approved for FIRST-LINE USE in ALK+ Metastatic NSCLC - EXKIVITY (mobocertinib) is an oral therapy that targets epidermal growth factor receptor (EGFR) - ALUNBRIG (brigatinib) Approved for FIRST-LINE USE in ALK+ Metastatic NSCLC - EXKIVITY (mobocertinib) is an oral therapy that targets epidermal growth factor receptor (EGFR)

AJU PHARM
AJU PHARM CO., LTD. Booth No. B-1

BUKWANG PHARM
BUKWANG PHARM CO., LTD. Booth No. B-2

DaeWoong Pharmaceuticals Korea Co., Ltd. Booth No. B-3
Since its foundation in 1945, DaeWoong Pharmaceutical has grown into Korea’s leading pharmaceutical firm through endless challenges and innovations in line with our corporate philosophy of “developing quality medicine to safeguard the health of the people and contribute to a healthier society.”

DaeWoong Pharmaceutical is consolidating its global competitiveness and R&D capabilities. DaeWoong Pharmaceutical has established itself as Korea’s leading pharmaceutical company that researches, develops and manufactures medicines to compete in the global market by engaging in a wide range of partnerships with leading healthcare companies worldwide and building the most number of regional infrastructures compared to other Korean pharmaceutical firms. In particular, we have obtained International Standard Certifications including the environmental management systems (ISO 14001), occupational health and safety systems (ISO 45001, KOSHA-MS), and quality management systems (ISO 9001). We have acquired GMP Certifications from regulatory agencies of developed countries such as the US Food and Drug Administration (FDA) and European Medicines Agency (EMA), demonstrating our highly developed quality management system.

We strive endlessly to fulfill our goal of channelling towards diversifying our new drug pipeline and platform technology to ultimately progress human health and quality of life.

DaeWoong Pharmaceutical believes that the growth of employees translates into the growth of the company.

Based on the management principle that the “company grows as its employees grow,” DaeWoong practices a Smart-Work Office to foster an autonomous and immersive work environment, in addition to introducing Career Development Program (CDP), flexible working, DaeWoong Global Talent Program, and DaeWoong AI/Bigdata Academy (DABA). We are dedicated to cultivating industry-leading corporate culture and institution.

DaeWoong Pharmaceutical will leap beyond Korea and into the world. DaeWoong Pharmaceutical aspires to move beyond its title as Korea’s leading pharmaceutical company to become a healthcare group of global reputation. We will promote sustainable future growth by strengthening internal stability through responsible management, and responding quickly and flexibly to external environmental changes.

DaeWoong Pharmaceutical will devote itself to become a global healthcare group that creates new values to advance human health and quality of life based on continuous innovation.

HANLIM PHARM
HANLIM Pharm. Co., Ltd. Booth No. B-4
Since HANLIM Pharm. was established in 1974, we have constantly put our entire effort to develop and provide a wide range of pharmaceutical products. We will strive to create significant and sustainable values in the future and expand our research and development pipeline in various therapeutic areas.
At Janssen, we’re creating a future where disease is a thing of the past. We’re the Pharmaceutical Companies of Johnson & Johnson, working tirelessly to make that future a reality for patients everywhere by fighting sickness with science, improving access with ingenuity, and healing hopelessness with heart. We focus on areas of medicine where we can make the biggest difference: Cardiovascular & Metabolism, Immunology, Infectious Diseases & Vaccines, Neuroscience, Oncology, and Pulmonary Hypertension.

* We Are Pioneers: We have 40,000 people around the world who show up every day to achieve the unimaginable. This work requires heart, science, and ingenuity. We never stop imagining a future where the most challenging diseases are a thing of the past.
* We Are Focused: We are driven by the fact that patients are waiting for breakthroughs. We focus on six areas of medicine where the need is high, the science is compelling, and the opportunity to make a difference is great.
* We Are Partners: In order to make the greatest impact, we collaborate with experts at every stage, from early discovery to market access.

Roche Korea is a Korean affiliate of the pharmaceutical division of Roche Group, a global leader in cancer treatment and personalized healthcare. Since its foundation, it has constantly provided innovative treatments for cancer, the No.1 cause of death in Korea, establishing itself as the nation’s largest cancer drug provider. It builds all the business activities on Patient-centricity. It works with researchers from nearly 500 medical institutions in Korea for the development of innovative drugs and strives to expand patient access to them. In immunotherapy, a promising field of cancer treatment, it has been able to improve patient access by adding non-small cell lung cancer and urothelial cancer to the reimbursed indications of its immuno-oncology drug Tecentriq through the reimbursement negotiations, where it was able to remove restrictions on the reimbursement, including PD-L1 expression. Its impressive move has been once again observed in July this year when it was able to add extensive-stage small cell lung cancer to the reimbursed indications.

Since 1980, Abbott Korea has been dedicated to helping Koreans live healthier lives through a diverse range of diagnostics tools, medical devices and branded generic pharmaceuticals. Abbott established pharmaceuticals business specializes in the following high-growth therapeutic areas: gastroenterology, women’s health, cardometabolic, pain management/central nervous system, respiratory and influenza vaccines. Abbott is the only global company with a pharmaceutical business that is 100 percent focused on emerging markets. We have built our pharmaceuticals business to be driven locally and powered globally, which helps us meet local health needs. Abbott will continue to strive to do more. Offer more affordable medicines, offer more health solutions and keep more people healthy.

Teva-Handok is a pharmaceutical company established in October 2013, a joint venture established by joint investment of Teva, a global pharmaceutical company, and Handok with a 68-year tradition in Korea. Teva-Handok provides innovative new drugs and generic drugs to fulfill its vision of “giving more benefits to more patients”, and plans to launch drugs in various fields in the future.

Abbott established pharmaceuticals business specializes in the following high-growth therapeutic areas: gastroenterology, women’s health, cardometabolic, pain management/central nervous system, respiratory and influenza vaccines. Abbott is the only global company with a pharmaceutical business that is 100 percent focused on emerging markets. We have built our pharmaceuticals business to be driven locally and powered globally, which helps us meet local health needs. Abbott will continue to strive to do more. Offer more affordable medicines, offer more health solutions and keep more people healthy.

BCWP is expertized in the formulation and process development to provide quality generics. BCWP not only has been certified as Korea Innovative pharmaceutical company but also designated as Advanced Technology Center. BCWP is specialized in DDS technologies by way of proaactive investments. In facilities complied with EU cGMP standards, liquid and powder injection, lyophilized injection, and oral solid forms are manufactured. In 2019, the manufacturing site dedicated to Carbapenem injections completed its construction in Wonju city.

Broncus, a pioneer in the field of Interventional Pulmonology, is a medical device company specializing in the global development and distribution of innovative lung solutions. Broncus’ integrated whole lung access navigation platform addresses the clinical challenges and unmet needs of existing technologies in the diagnosis and treatment of lung disease. Our vision is to be a global leader in the transformation of lung disease treatment. Our mission is to establish bronchoscopic diagnostic and therapeutic solutions as the gold standard for the diagnosis and treatment of lung disease.
At Fisher & Paykel Healthcare, we fully understand the life-changing impact that can result from delivering inspired and world-leading healthcare solutions. After all, we changed the way the world delivers respiratory humidification to critically ill patients in hospital, and were the first organization in the world to make a humidifier specifically for use in the treatment of patients with obstructive sleep apnea.

Today, through an unrivalled commitment to innovation, to doing the right thing, and doing what is best for the patient, we continue to inspire world-leading healthcare solutions. Our team of self-motivated, empathetic and committed individuals is our strength. It is this team; our originality; the value we place on relationships; our international perspective; and the utmost care for all patients, customers, suppliers, shareholders, as well as the environment, that will ultimately ensure we will be the healthcare company of choice.

As a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform.

We are committed to fostering an inclusive culture of respect, transparency, and unyielding integrity. We’re working to solve the greatest challenges in healthcare that patients and clinicians face to and in the future. Together, we are not only building a healthier future but living our purpose to create a world where healthcare has no limits.
Kwangdong Pharmaceutical
Booth No. E-11

Kwangdong was founded with the goal of providing high quality pharmaceuticals to our customers. We have developed pharmaceuticals and healthcare products for the improvement of human life.

National Hospice Center
Booth No. E-12

The National Hospice Center (NHC) strives to establish holistic care environment by improving availability, quality, evidence, and cooperation for end-of-life care. To effectively achieve the above goals, NHC currently functions in the following areas: monitoring quality of care, developing and distributing educational program, raising public awareness and producing evidence on end-of-life care. The National Cancer Center has been designated as a NHC by the Ministry of Health and Welfare since 2017, and has played various roles in improving the quality of life of terminally ill patients and their families.

NAUMED Inc.
Booth No. E-13

NAUMED Inc. is constantly striving to create greater value for healthcare workers and patients and to provide the best products and services.

OLYMPUS KOREA CO., LTD
Booth No. E-14

OLYMPUS KOREA CO., LTD was established in 2000 as the sixth overseas corporation of Olympus Group. After establishing, OKR has shared Olympus’ brand value in the Korean market by providing various our products such as endoscope, Endo-therapy accessories and surgical products.

As a leading medical technology company, our medical business uses innovative capabilities in medical technology, therapeutic intervention, and precision manufacturing to help healthcare professionals deliver diagnostic, therapeutic, and minimally invasive procedures to improve clinical outcomes, reduce overall costs, and enhance the quality of life for patients and their safety. Olympus’ Medical portfolio includes endoscopes, laparoscopes, and video imaging systems, as well as surgical energy devices, system integration customer solutions, medical services, and a wide range of endotherapy instruments for endoscopic and therapeutic applications.

PENTAX Medical Korea
Booth No. E-15

PENTAX Medical is a division of HOYA Group delivering endo-imaging solutions. Established in 1919 in Japan, PENTAX Medical is a globally diversified company with R&D innovation and manufacturing centers in Japan, Europe and the United States. Through leading-edge optical technologies, PENTAX Medical is providing the most advanced clinically relevant endo-imaging solutions. Together with comprehensive customer service offerings, PENTAX Medical is collaborating with customers worldwide to create long-term partnerships and customer satisfaction.

ResMed Korea
Booth No. E-16

* About ResMed
Every day we come to work with a focus on building and supporting technology that helps people live healthier, happier lives. It began over 30 years ago with the invention of a machine that helped people breathe easier and sleep better. And it continues today with digital health solutions that help keep people out of the hospital.

* Our drive to innovate
We’re leading the way in cloud-connected medical devices that transform care for people with sleep apnea, COPD and other chronic diseases. Our comprehensive out-of-hospital software platforms support the professionals and caregivers who help people stay healthy in the home or care setting of their choice.
Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science, with annual revenue of approximately $40 billion. Our Mission is to enable our customers to make the world healthier, cleaner and safer. Whether our customers are accelerating life sciences research, solving complex analytical challenges, increasing productivity in their laboratories, improving patient health through diagnostics or the development and manufacture of life-changing therapies, we are here to support them. Our global team delivers an unrivaled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services, Patheon and PPD.

For more information, please visit www.thermofisher.com.

Yungjin Pharm. Co., Ltd was established in 1952, has been playing a major role as a forerunner in the Korean pharmaceutical industry for half a century. With our inspiring mission statement, “To relieve the suffering of mankind from diseases with our innovative, effective and safe pharmaceutical products”, we have shown our successful contribution not only within Korea, but also through global expansion. As a result, we have received a total of 25 awards including the President Award for Superior Product Development, the Prime Minister Award, Industry Award and many more. These accomplishments demonstrate our sustainability and commitment to the development of innovative products and business excellence in both overseas and domestic segments.

Yuyu Teijin Medicare was established in 2006 as a joint venture with Yuyu pharma (Korea) and the Teijin group (Japan), and now is the leading provider of home healthcare service including home oxygen therapy(HOT), Ventilator and sleep apnea treatment in Korea.

About Yuyu Pharma
Yuyu Pharma (KRX: 000220) is a pharmaceutical company founded in 1941. The company manufactures, distributes, and does marketing for pharmaceutical products, medical devices, and medical foods in South Korea and Southeast Asia. Currently, Yuyu Pharma is focusing on developing new drugs for treating enlarged prostates and dry eye syndrome.

About the Teijin Group
Teijin (TSE: 3401) is a technology-driven global group offering advanced solutions in the areas of environmental value; safety, security and disaster mitigation; and demographic change and increased health consciousness. Its main fields of operation are high-performance fibers such as aramid, carbon fibers & composites, healthcare, films, resin & plastic processing, polyester fibers, products converting and IT.

The objectives of the APSR are the advancement and promotion of knowledge of the respiratory system in health and disease. The Society strives to encourage research, improve clinical practice through training, increase awareness of health problems and promote the exchange of knowledge among respirologists in the Asia-Pacific region and beyond.

The American Thoracic Society improves global health by advancing research, patient care, and public health in pulmonary disease, critical illness, and sleep disorders. Founded in 1905 to combat TB, the ATS has grown to tackle asthma, COPD, sepsis, acute respiratory distress, sleep apnea, and more.

The European Respiratory Society (ERS) is an international organisation that brings together physicians, healthcare professionals, scientists and other experts working in respiratory medicine. It is one of the leading medical organisations in the respiratory field, with a growing membership representing over 160 countries worldwide. Its mission is to promote lung health in order to alleviate suffering from disease and drive standards for respiratory medicine globally. www.ersnet.org
Japanese Respiratory Society

The Japanese Respiratory Society (JRS) was founded in 1961. There are now approximately 13,000 members making it the biggest scientific respiratory society in Asian-Pacific Region.

JRS contributes to the promotion of respiratory health and welfare by engaging innovative science, culture, education, and clinical research in the field of respiratory health and diseases.

The 63rd Annual Meeting of the JRS will be held in Tokyo, 28-30 April 2023 under the presidency of Kazuhisa Takahashi. The theme of the Annual Meeting will be “Future of pulmonology pioneered by the fusion of knowledge”

Since Annual Meeting of 2001, the JRS began integrating international programs, which have been continuing with exchange and liaison with the Asian Pacific Society of Respirology, the American Thoracic Society and the European Respiratory Society.

The 10 JRS assemblies have been working actively.

- Cell and Molecular Biology
- Structure and Function
- Diffuse Lung Disease
- Thoracic Oncology
- Clinical Problems

- Allergy, Immunology and Inflammation
- Obstructive Lung Disease
- Infections and Tuberculosis
- Respiratory Care
- Pulmonary Circulation and Lung Injury

“Respiratory Investigation” is an official journal, published in English. The journal publishes original manuscripts on clinical investigations of a variety of respiratory diseases and medicines, along with articles concerning basic physiology, pathology, and cellular/molecular biology relating to any pulmonary diseases. The journal accepts contributions from members and non-members of the Society.

JRS invites you to apply for the Study Abroad Support for Foreign Researchers (Harasawa) Fellowship. The Fellowship aims to provide support to young researchers and specialised respiratory clinicians from countries other than Japan, who are pursing studies abroad and wish to contribute to the progress and development of respiratory study.

KATRD

The Korean Academy of Tuberculosis and Respiratory Diseases is preceded by the Academic Division of the Korean National Tuberculosis Association which was established on November 6, 1953 with the goal of advancing the research and study on tuberculosis and respiratory diseases and eradicating tuberculosis in Korea.

KATRD has 1,930 members as of November 2022. The Busan Chapter was formed in 1977, the Daegu Kyungbuk Chapter in 1985, the Kwangju Cheonnam Chapter in 1987, the Cheonbuk Chapter in 1989, the Kangwon Chapter in July 2003, the Daejeon Chapter in August 2007, and Jeju Chapter in 2012. The chapters are actively involved in academic exchanges and building fellowship among its members in manners that befit the respective regions.

Respirology

Respirology and Respirology Case Reports are the official peer-reviewed journals of the APSR, publishing research papers and clinical cases in all fields of respiratory medicine. APSR members receive free access to both publications, and a 50% discount on the article publication charge for Respirology Case Reports.
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아주약품은 1953년 설립되어, 국내 최초의 결핵치료제 출시를 시작으로 현재까지 세계적 수준의 품질로 인정받는 의약품, 의료기기, 건강식품 등을 공급하는 손꼽히는 국내 대표 장수 기업이자 글로벌 웰스케어 솔루션 기업입니다.
OFEV® is approved across 3 fibrosing interstitial lung disease (ILD) indications.

- Treatment of idiopathic pulmonary fibrosis (IPF)
- Slowing the rate of decline in pulmonary function in patients with systemic sclerosis-associated interstitial lung disease (SSc-ILD)
- Treatment of chronic fibrosing interstitial lung diseases with a progressive phenotype (PF-ILD)

Head On
and modify ILD progression by slowing lung function decline


Product information (korean label) SDIC00335_kore.pdf

AstraZeneca

って anger one or more, offending.
The 편리한 개선

유모스트® BFS는 더 편리한 개봉이 가능합니다.

유모스트® 베이얼 개봉과정
1. 플라스틱거버스
2. 알루미늄거버스
3. 고무제

올림픽® 10% 출시로 사용 및 휴대 폴리싱이 개선되었습니다.

기존 유모스트® 30강 환기내장 스프링

NEW 유모스트® 10% 완화제 내장

유모스트® 90%이동 + 소상관 세금 30개(1:1회식세)

원외래시 1:1 회식 과정 필요

유모스트® BFS는 (7g) 기존보다 53% 더 가벼워졌습니다!

The 안전한 개선

유모스트® BFS는 LDPE 소재로 주사제 혼동 가능성이 없습니다.

주사제 혼동 가능성 감소

주사제와 동일한 Glass 소재의 바이알

혼입형 약품과 동일한 재질

유모스트® BFS는 파손의 위험이 적습니다.

파손 위험성 감소

Glass 소재의 바이알

LDPE(저밀도프리플렉션) 소재의 BFS

Original Doxofylline with Wide therapeutic window for Asthma & COPD

1st Choice Original Doxofylline

1. 주요한 치료 효과 :
액시마성의 주요한 Xanthine 계열 중 핵소평판(Doxofylline)으로, 국내초과
혁신의 산출이며 Original 선택
다양한 임상적 효과, 액시마성의 theophylline, amprophylline만을 주수용
기록적 효과(,body와 심장의 혈류량 증가)

2. 부작용의 최적화 감소 :
주의를 두고하시면 액시마성의 치과의 핵소평판의 작용 방향에 따라 부작용
감소, 액시마성의 초과적 효과의 산출량을 증가하여 치료를

제조, 판매 부광약품주식회사

고급안전성 담보인증과 47
AIR...Avelox®

Circle of success.
A turn for the better.

Superior antitussive & expectorant with 5 API combinations
Codaewon Forte Syr. + Pelargonium Sidoides Ethanol Ext.

CODAEWON S
New paradigm in COPD treatment

COPD 증상 개선 및 악화 예방-엘도스

- Muco-modulatory activity
- Bronchial anti-inflammatory activity
- Anti-oxidant activity
- Bacterial anti-adhesion activity

Xpert® Xpress SARS-CoV-2

Intended Use
Detection of SARS-CoV-2

Test Run Time (Min)
45’

Xpert® Carba-R

Intended Use
Detection and differentiation of KPC, NDM, VIM, IMP-1 and OXA-48

Test Run Time (Min)
48’

Xpert® MTB/RIF

Intended Use
Detection of MTB and rifampin resistance mutations

Test Run Time (Min)
110’

Xpert® C. difficile

Intended Use
Detection of Clostridium difficile infection and differentiate 027 strain

Test Run Time (Min)
48’

Xpert® SA Nasal Complete

Intended Use
Pre-surgical testing of S. aureus and MRSA

Test Run Time (Min)
71’

Xpert® EV

Intended Use
Detection of Enterovirus

Test Run Time (Min)
151’
중증 호산구성 천식 치료제 누갈라

2022 대한민국 신약개발상 수상!
브론패스®정은 최초로 7가지 생약작용을 배합하여 조성물 특허 성분으로 개발된 새로운 진해거담제 입니다.
천식 동반 알레르기 비염 복합치료제

몬테리진 캡슐
(Montelukast Na + Levocetirizine 2HCl)

두 성분의 상호보완작용으로 알레르기 비염 개선 효과
- 정구용 복합제로 복약 편의성 제공
- 삼성 통한 천식환자의 알레르기 비염에 대한 우월성 입증

피레스파는 10년간의 임상경험으로 효과와 안전성이 입증되었습니다.
특감성과 섬유감으로 그동 받은 환자를 위해 한천에 오신
신생의 노고에 감사드립니다.
서듀러®
이즈 에이

MDR-TB ZERO
WITH GROUP A
TREATMENT SIRTURO®

WHO Group A

Korea guideline
Group A

Approved MDR-TB
reimbursement

포스터는 미세먼지보다 작은 입자 크기로
소기도 많단가지 도달하여, 폐기능을
개선하고 약화를 예방합니다. 44

Have a fine day!
extra
with FOSTER®

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antioxidant, trolox, is a coronary vasodilator in normotensive
activity of curcumin and its role in human platelet function.
 언제, 어디서나
Portable HFNC + NIV

HFT750은 밸러리를 담기고 있어, ‘이동 가능한 다기능 비침습적 호흡 치료기’입니다.

십리 이전 단계의 모든 호흡 보조 및 기능들을 제공하여 갑작스럽게 변화할 수 있는 환자 상태에 신속하게 대응할 수 있고, 환자 상태에 맞는 편수 모니터링 값과 암력을 제공하여 효율적으로 환자를 관리 할 수 있도록 합니다.

Brief Specication

제품 기능 및 모드 : HF 기능, CPAP 모드, bi-level 모드

모니터링 값
HF & NIV : Flows rate, FiO2, SpO2, RR, SpO2 & S/F ratio, Pr & 기술기반온도
NIV only : PIP, PEEP, VT est.

기슬 온도 설정 범위
HF 기능: 34℃부터 37℃
CPAP & bi-level 모드: 31℃부터 37℃

전력 소비량: 350 VA Max.
배터리 동적 시간: 배터리 100% 기준, 최소 30 분 이상
제품 크기: 21.4 x 33.9 x 21.9 (Width x Depth x Height) cm
제품 무게: 5.8 kg

All levels of respiratory patient acuity

HIGH FLOW NASAL CANNULA THERAPY

Low flow O2
High concentration O2 with oxygen mask
Non-Invasive ventilation
Invasive ventilation

[CONTACT]
Sales Office (070-719-2527) Customer Service (070-719-2530)
제세한 안내사항은 본사 혹은 영업 담당자에게 유선으로 문의를 부탁드립니다.
ICS/LABA 병용으로 적절히 조절되지 않는 성인 천식의 유지치료

하루 한번, 에너제어® 브리즈헬러®를 지금 만나보세요.¹

최초의 3제! 통합 천식 치료제
ICS / LABA / LAMA

페기능 개선 및 천식 조절에 대한 우수한 효과¹

흡입량 확인이 가능한 투명 캡슐¹

하루 한번 흡입¹

The variety of values

Prescribed in over 100 countries since FDA approval in 1998.²
Established long term safety profile.⁵,⁶, Original Montelukast.⁶
Proven effectiveness in patients with pediatric asthma,⁴,⁷, elderly asthma,⁴,⁸, cough variant asthma.⁴,⁸

FDA approved drug prescribed in over 100 countries.⁴,⁸

SINGULAIR
Montelukast sodium

1. Primary endpoint: mean change in FEV1 from baseline at 6 months.²
2. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²
3. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²
4. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²
5. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²
7. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²
8. Primary endpoint: percentage of patients with no exacerbations during 1 year of treatment.²

B kalex (2010) in support of communication and approval by regulatory authorities. In certain markets, a switch from LABA/LAMA to SINGULAIR® (montelukast sodium) is considered for patients previously treated with LABA/LAMA whose asthma has been well controlled on LABA/LAMA therapy, but who require additional control of symptoms. The reference information below is intended to support the use of the switch from LABA/LAMA to SINGULAIR® (montelukast sodium) in these patients.


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VIZIMPRO®
Start Strong with
Proven First-Line Efficacy

A PROVEN CONNECTION IN 1L ES-SCLC

TECENTRIQ® + CARBOPLATIN/ETOPOSIDE

Taenceti®은 국내에서 유일하게
확장기 소세포암의 1차 치료로
급여를 획득하였습니다.1
(2021년 1월 기준)

Median OS was 12.3 months with TECENTRIQ® + carboplatin vs 10.3 months with placebo + carboplatin HR=0.62, 95% CI (0.46, 0.80)2

Atezolizumab (TECENTRIQ®) + carboplatin is a preferred immunotherapy/chemotherapy option (Category 1) for first-line treatment of patients with ES-SCLC in the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines).3

1 Category 1 based on NCCN Consensus, there is uniform NCCN consensus that this intervention is appropriate.
2 Median OS was matured in NSCLC OSE (NCT02904843) and ESCAPE (NCT02597148). OS was matured in both trials after median follow-up of 15 months from data cut-off on February 16, 2022. 12.3 months OS with TECENTRIQ® + carboplatin vs 10.3 months OS with placebo + carboplatin was observed in the TECENTRIQ® + carboplatin arm. Median OS was 14.3 months with atezolizumab + carboplatin and 12.0 months with placebo + carboplatin in NCT02904843. Median OS was 9.9 months with atezolizumab + carboplatin and 9.1 months with placebo + carboplatin in NCT02597148.
3 If you’ve never seen TECENTRIQ®, take a moment to familiarize yourself with the product. It’s an immunotherapy/chemotherapy option (Category 1) for first-line treatment of patients with ES-SCLC and in the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines).
Delivering consistent dose
Preferred ICS+LABA
Intuitive inhaler¹⁻³

NCCN® GUIDELINE CATEGORY 1 RECOMMENDATION:
ALUNBRIC® IS A PREFERRED OPTION
FOR FIRST-LINE THERAPY

- Early separation of Kaplan Meier curves and 3 X longer mPFS vs. crizotinib (INV)¹
- Significant Increase in BIRC-Assessed Intracranial PFS (4 X m iPFS) evaluated in a rigorous clinical trial setting²
- Long-Term safety profile with improvement in quality of life³
- The Only approved first-line ALK inhibitor with one-pill, once-a-day dosing as of Jul 2021¹

References:
아노로 엘립타
유메클리디늄/빌란테롤
COPD 치료제

ARIA, AAAA1/ACAA1 가이드라인에서 TNCS+INAH 복합체는 알레르기 비염 치료에 1차로 추천됩니다. 1,2
리알트리스는 FDA 승인을 받은 국내 최초의 Olopatadine + Mometasone Furoate 복합제입니다. 3,4
리알트리스의 각 유효성분은 우수한 감각 특성을 가지고 있어 환자의 선후도 및 치료 승용도를 높일 수 있습니다. 3,5
리알트리스는 18 mL와 31 mL 포장으로 단기(19일) 및 장기(30일) 치료에 따른 식약처용을 제공합니다. 6

[1] 홍길동, 등, "ARIA 가이드라인(2013)의 TNCS와 INAH 복합체의 역할 및 임상적 적용"

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Old Vial is gone,
New MUCOMYST is coming!