The 26th Congress of the Asian Pacific Society of Respirology

APSR 2022

17-20 November 2022 Coex, Seoul, Korea

"Above and Beyond"

PROGRAM BOOK

HOSTED BY

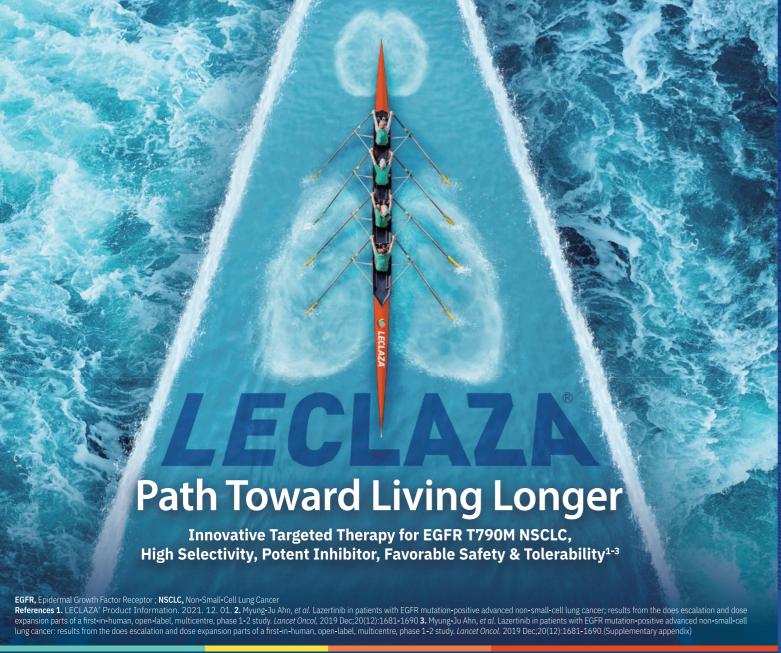




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WELCOME MESSAGES

FROM THE LOCAL CONGRESS COMMITTEE OF APSR 2022

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,



Ki-Suck Jung

President. APSR 2022

Local Congress Committee Professor, Hallym University

College of Medicine



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Secretary General, APSR 2022

Local Congress Committee

Professor, Korea University College of Medicine





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Vice Secretary General. APSR 2022

Local Congress Committee

Professor, Hanyang University College of Medicine



Kwang Ha Yoo

Vice Secretary General. APSR 2022

Local Congress Committee

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

WELCOME MESSAGES

FROM THE APSR PRESIDENT

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!



David CL Lam

President, Asian Pacific Society of Respirology



OVERVIEW

Congress Overview	and the second s
Title	The 26th Congress of the Asian Pacific Society of Respirology (APSR 2022)
Thema	Above and Beyond
Date	17-20 November 2022
Venue	Coex, Seoul, Korea
	APSR Asian Pacific Society of Respirology (APSR)
Hosted by	The Korean Academy of Tuberculosis and Respiratory Diseases (KATRD)
	Korea Tourism Organization
Sponsored by	Seoul Metropolitan Government
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



Coex, Seoul, Korea

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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Assembly Liaisons

Ji-yong Moon

Clinical Respiratory Medicine

Hanyang University College of Medicine, Republic of Korea

Mi-Ae Kim

Clinical Allergy & Immunology

CHA University, Republic of Korea

Kyung Soo Chung

Respiratory Infections (non-Tuberculosis)

Yonsei University College of Medicine, Republic of Korea

Seung Won Ra

COPD

University of Ulsan College of Medicine, Republic of Korea

Sei Won Lee

Cell and Molecular Biology

University of Ulsan College of Medicine, Republic of Korea

Woo Jin Kim

Environmental & Occupational Health and Epidemiology

Kangwon National University School of Medicine, Republic of Korea

Jae-Joon Yim

Tuberculosis

Seoul National University College of Medicine, Republic of Korea

Sung Yong Lee

Lung Cancer

Korea University College of Medicine, Republic of Korea



Sang Yeub Lee

Asthma

Korea University College of Medicine, Republic of Korea

Won-II Choi

Critical Care Medicine

Myongji Hospital, Republic of Korea

Dong In Suh

Paediatric Lung Disease

Seoul National University College of Medicine, Republic of Korea

Yee Hyung Kim

Pulmonary Circulation

Kyung Hee University School of Medicine, Republic of Korea

Hyeon Hui Kang

Respiratory Neurobiology and Sleep

University of Ulsan College of Medicine, Republic of Korea

Bin Hwangbo

Bronchoscopy and Interventional Techniques

National Cancer Center, Republic of Korea

Yong Il Hwang

Respiratory Structure and Function

Hallym University College of Medicine, Republic of Korea

Yong Hyun Kim

Interstitial Lung Disease

The Catholic University of Korea College of Medicine, Republic of Korea

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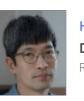


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SPEAKERS

peakers	
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Anne Chang	Menzies School of Health Research, Queensland University of Technology, Australia
Anne E. Vertigan	The University of Newcastle, Australia
Anne Goh Eng Neo	KK Women's and Children's Hospital, Singapore
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Chin Kook Rhee	The Catholic University of Korea College of Medicine, Republic of Korea
Chong-Jen Yu	National Taiwan University College of Medicine, Taiwan
David A. Schwartz	University of Colorado School of Medicine, U.S.A.
David CL Lam	The University of Hong Kong, Hong Kong
David G. Chapman	University of Technology Sydney, Australia
David Hui	MD Anderson Cancer Center, U.S.A.
David Jackson	Guy's and St Thomas' Hospital, King's College London, United Kingdom
Deog Kyeom Kim	Seoul National University College of Medicine, Republic of Korea
Diahn-Warng Perng	Taipei Veterans General Hospital, Taiwan
Diana Yuwung Yeh	School of Medicine, Fu Jen Catholic University, Taiwan
Don Sin	University of British Columbia, St. Paul Hospital, Canada
Erlina Burhan	Universitas Indonesia, Indonesia
Eun Young Heo	Seoul National University College of Medicine, Republic of Korea

peakers	<u> </u>
Fumihiro Asano	Gifu Prefectural General Medical Center, Japan
Ga-Young Ban	Hallym University College of Medicine, Republic of Korea
Gong Yong Jin	Jeonbuk National University, Republic of Korea
Grace H. Kim	UCLA, U.S.A.
Gregory King	Royal North Shore Hospital, Australia
Gregory P. Downey	University of Colorado School of Medicine, U.S.A.
Hang Jea Jang	Inje University Haeundae Paik Hospital, Republic of Korea
Hee Jin Kim	Korean National Tuberculosis Association, Republic of Korea
Hee Joon Myung	Lysentech, Republic of Korea
Hee-Young Yoon	Soonchunhyang University College of Medicine, Republic of Korea
Ho Kim	Graduate School of Public Health, Seoul National University, Republic of Korea
Hojoong Kim	Sungkyunkwan University School of Medicine, Republic of Korea
Hongseok Yoo	Sungkyunkwan University School of Medicine, Republic of Korea
Hun-Gyu Hwang	Soonchunhyang University Gumi's Hospital, Republic of Korea
Hye Jung Park	Gangnam Severance Hospital, Republic of Korea
Hye Ryoun Kim	Korea Institute of Radiological and Medical Sciences, Republic of Korea
Hye Sook Choi	Kyung Hee University School of Medicine, Republic of Korea
Hye Yun Park	Sungkyunkwan University School of Medicine, Republic of Korea
Hyeon-Kyoung Koo	Inje University College of Medicine, Republic of Korea
Hyun Lee	Hanyang University College of Medicine, Republic of Korea
In-Jae Oh	Chonnam National University, Republic of Korea
Jae Ha Lee	Inje University College of Medicine, Republic of Korea
Jae Seung Lee	University of Ulsan College of Medicine, Republic of Korea
Jae-Joon Yim	Seoul National University College of Medicine, Republic of Korea
James Chalmers	University of Dundee, United Kingdom
Jann-Yuan Wang	National Taiwan University, Taiwan
Jason Phua	National University Hospital, Singapore
Jeong Eun Lee	Chungnam National University School of Medicine, Republic of Korea
Ji Ye Jung	Yonsei University College of Medicine, Republic of Korea



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
Jin-won Huh	University of Ulsan College of Medicine, Republic of Korea
Jinwoo Lee	Seoul National University Hospital, Republic of Korea
Joo Hun Park	Ajou University School of Medicine, Republic of Korea
Joo-Hee Kim	Hallym University College of Medicine, Republic of Korea
Jun-Pyo Myong	The Catholic University of Korea College of Medicine, Republic of Korea
June Hong Ahn	Yeungnam University Medical Center, Republic of Korea
Jung Hwa Hwang	Soonchunhyang University College of Medicine, Republic of Korea
Jung Seop Eom	Pusan National University Hospital, Republic of Korea
Jung-Kyu Lee	Seoul National University, Republic of Korea
Jung-Wan Yoo	Gyeongsang National University Hospital, Republic of Korea
Jung-Yien Chien	National Taiwan University Hospital, National Taiwan University College of Medicine, Taiwan
Karin Klooster	University Medical Center Groningen, Kingdom of the Netherlands
Kazuhide Sato	Nagoya University, Japan
Kazuhisa Takahashi	Juntendo University, Japan
Kenneth R. Chapman	Toronto General Hospital Research Institute, Canada
Koichiro Asano	Tokai University School of Medicine, Japan
Konstantinos Kostikas	University of Ioannina, Greece
Kwang Ha Yoo	Konkuk University School of Medicine, Republic of Korea
Kwun Fong	The University of Queensland, Australia
Kyoung-Hee Sohn	Kyung Hee University School of Medicine, Republic of Korea
Kyung Hyun Oh	World Health Organization Regional Office for the Western Pacific, Philippines
Kyung Soo Chung	Severance Hospital, Republic of Korea
lan Pavord	University of Oxford, United Kingdom
Lina Madaniyazi	Nagasaki University, Japan
Martie Van Tongeren	The University of Manchester, United Kingdom
Martijn A. Spruit	Maastricht University Medical Center, Kingdom of the Netherlands

peakers	<u>≈60</u>
Martin Kolb	McMaster University, Canada
Mi-Ae Kim	CHA University, Republic of Korea
Min-Jong Kang	Yale University, U.S.A.
Ming-Cheng Chan	Taichung Veterans General Hospital, Taiwan
Mona Bafadhel	King's College London, United Kingdom
Moo Suk Park	Yonsei University College of Medicine, Republic of Korea
Motoo Yamauchi	Nara Medical University, Japan
Neil Schluger	Tuberculosis Control Branch, California Department of Public Health, U.S.A.
Nick Kim	Critical Care & Sleep Medicine, University of California San Diego, U.S.A
Nicola Hanania	Baylor College of Medicine, U.S.A.
Omar S Usmani	National Heart and Lung Institute (NHLI), Imperial College London, United Kingdom
Parameswaran Nair	McMaster University, Canada
Patricia Rivera	University of Rochester Medical Center, U.S.A.
Phuong Phan Thu	Bach Mai Hospital, Viet Nam
Richard Russell	University of Oxford, United Kingdom
Ruth Murray	Director Medscript Ltd NZ & Research Fellow, OPC, New Zealand
Sang Haak Lee	Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Republic of Korea
Satoshi Mitarai	The Research Institute of Tuberculosis, Japan
Se Hee Lee	CHA University, Republic of Korea
Sei Won Kim	The Catholic University of Korea College of Medicine, Republic of Korea
Seiya Kato	The Research Institute of Tuberculosis, Japan
Seok Jeong Lee	Yonsei University Wonju 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	Ulsan University Hospital, Republic of Korea
So Ri Kim	Chonbuk National University Medical School, Republic of Korea



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 Aliberti University of Millan, 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 Sunghee Park Soonchunhyang University Hospital Bucheon, Republic of Korea Sungjune Kim H. Lee Moffitt Cancer Center, U.S.A. Tai Joon An Yeouido St. Mary Hospital, College of Medicine, Catholic University of Korea, Republic of Korea Takashi Ogura Kanagawa Cardiovascular and Respiratory Center, Japan Takeshi Johkoh Kansai Rosai Hospital, Japan Takeshi Kaneko Yokohama City University, Japan Talant Sooronbaev National Center of Cardiology and Internal Medicine, Kyrgyzstan University of Southern California, U.S.A. Toby Maher 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

Chung-Ang University Hospital, Republic of Korea

Kangwon National University, Republic of Korea

National Cancer Center, Republic of Korea

Tosei General Hospital, Japan

University of Ulsan College of Medicine, Republic of Korea

Seoul National University, College of Medicine, Republic of Korea

Seoul National University College of Medicine, Republic of Korea

School of Public Health and Preventive Medicine, Monash University, Australia

University of Ulsan College of Medicine, Republic of Korea

Konkuk University School of Medicine, Republic of Korea

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

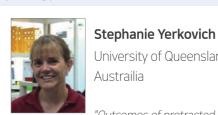
Fukuchi Award for Best Original Research Paper in Respirology



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"

Peter A B Wark, Prabuddha S Pathinayake, Gerard Kaiko, Kristy Nichol, Ayesha Ali, Ling Chen, Erika N Sutanto, Luke W Garratt, Sukhwinder S Sohal, Wenying Lu, Mathew S Eapen, Christopher Oldmeadow, Nathan Bartlett, Andrew Reid, Punnam Veerati, Alan C-Y Hsu, Kevin Looi, Thomas Iosifidis, Stephen M Stick, Philip M Hansbro, Anthony Kicic

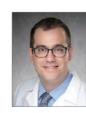


University of Queensland Austrailia

"Outcomes of protracted bacterial bronchitis in children: A 5-year prospective cohort study"

Tom J C Ruffles, Julie M Marchant, lan B Masters, Stephanie T Yerkovich, Danielle F Wurzel, Peter G Gibson, Greta Busch, Katherine J Baines, Jodie L Simpson, Heidi C Smith-Vaughan, Susan J Pizzutto, Helen M Buntain, Gregory Hodge, Sandra Hodge, John W Upham, Anne B Chang

APSR ATS Young Investigator Award



Alejandro A Pezzulo University of Iowa U.S.A.



Rachel S. Knipe Massachusetts General Hospital U.S.A.

Won-Young Kim

Woo-Jung Song

Yasuhiro Kondoh

Yeon Wook Kim

Yeon-Mok Oh

Young-Jae Cho

Youlim Kim

Yuming Guo

Woo Jin Kim

Yeol Kim



APSR ERS 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

APSR TSANZ Young Investigator Award



Olivia Carroll

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

APSR JRS Young Investigator Award



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 Travel Award



Yina Wang The Second Xiangya Hospital, CSU China



Jamaluddin Madolangan Hasanuddin Universit Indonesia



Thi Mai Phuong Nguyen National Lung Hospital Viet Nam



Benjo Ato Southern Philippines Medical Center Philippines



Wannigama Chulalongkorn University Thailand



Saiphoklang Thammasat University Faculty of Medicine Thailand

Narongkorn



Nagesh Dhadge Central Health Services



Pyng Lee National University of Singapore Singapore

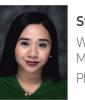


Brian Nelson Ong Lung Center of the Philippines Philippines



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

APSR Young Investigator Award



Stephanie Palacios West Visayas State University Medical Center Philippines



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



Jooyeon Lee Kangwon National University Republic of Korea

Sengkang General Hospital

Yiting Tang

Singapore



Yedham Kang Korea University Ansan Hospital Republic of Korea



Jimin Jang Kangwon National University Republic of Korea



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



Song-I Lee Chungnam National University 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



ON-DEMAND PLATFORM



Go to the On-demand Platform

apsr2022-ondemand.org

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



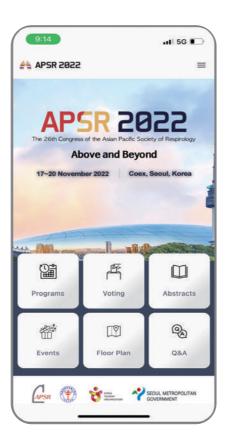
Scan for the On-demand platform

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

How to use

You could log in the app and on-demand platform with e-mail address that you put for the registration.

MOBILE APP







Android



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.

VOTING

2

Voting App Implementation



Open APSR 2022 app.

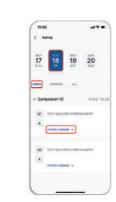


Log in with the email on registration.



Click voting menu. (Click 'Voting' on Main icon or menu.)

Voting Participation



Click the date and check the on-going voting list, and click 'UPDATE ANSWER'.



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



For the case of voting that you selected an answer, the answer is seen on the list.

Check Completed Voting



Click 'Finished' and check the list of completed voting.
-> Click 'SEE RESULT' and check the voting result.



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



GENERAL INFORMATION

Abstract & Publication

Abstract of the APSR 2022 (oral/poster) is only published a mobile application and on-demand program.

(*the application access ID is your registration email). 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.

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).

Badges

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

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)

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.

Weather

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

Language

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

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 nominations of 1,000, 5,000, 10,000 and 50,000 won. As of November 2022, 1 US dollar is equivalenet 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.



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.

Smoking Policy

Smoke free Area

Prayer Room

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

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.

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
 07:30-13:00

 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



Loc	ation	Assembly
	206A	Pulmonary Circulation
2 m d E1	206B	Respiratory Neurobiology and Sleep
ZNO FL	2nd FL 207	Cell and Molecular Biology
	211	Asthma
2d El	R1	Respiratory Infections (non-tuberculous)
3rd FL	R2	COPD
/+b =1	R3	Interstitial Lung Disease
4th FL	R4	Clinical Respiratory Medicine

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



Location		Assembly
	206A	Respiratory Structure and Function
2nd Fl	2nd FL 206B 207	Paediatric Lung Disease
ZNU FL		Clinical Allergy & Immunology
	211	Environmental & Occupational Health and Epidemiology
اعام ال	R1	Tuberculosis
310 FL	3rd FL R2	Lung Cancer
/+b FI	R3	Critical Care Medicine
4th FL	R4	Bronchoscopy and Interventional Techniques

APSR Annual General Meeting (AGM)

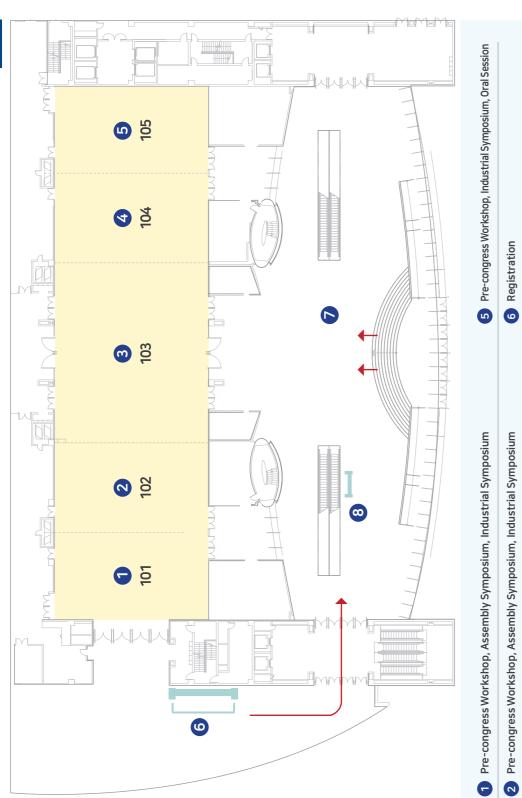


Thursday17 November, 16:45-17:15	Location: 2nd FL 209A&B
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VENUE MAP





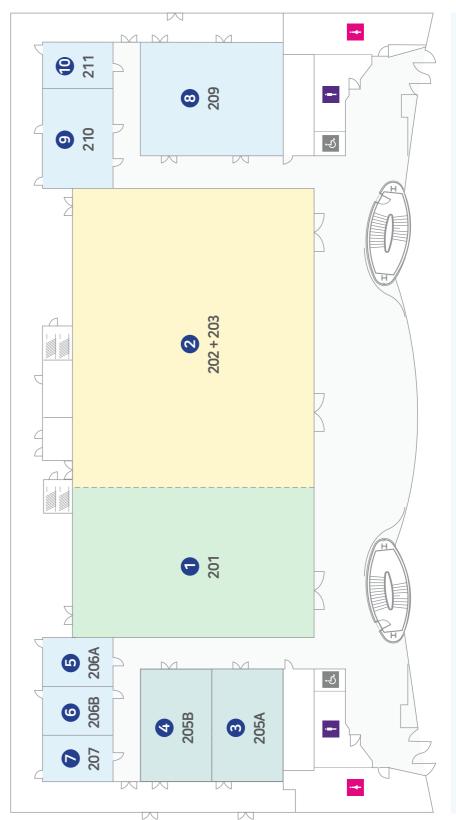
2nd Floor

8 KTO Promotion Booth

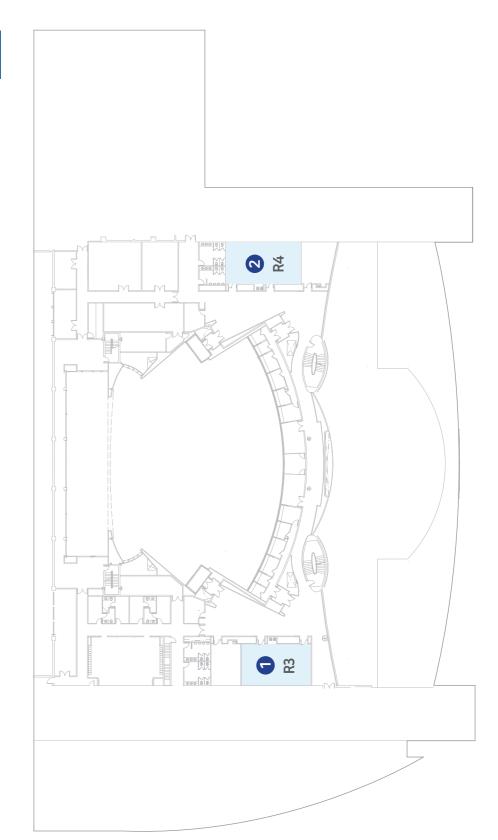
4 Pre-congress Workshop, Industrial Symposium, Young Investigator Awards, Oral Session

3 Pre-congress Workshop, Assembly Symposium, Industrial Symposium, Oral Session

7 Company Lounge







1 APSR Assembly Meeting

2 APSR Assembly Meeting





SCIENTIFIC PROGRAM

Ħ	PROGRAM AT-A-GLANG	CE	46
ä	DAILY PROGRAM		
	17 November		51
	18 November		55
	19 November		65
	20 November		75



PROGRAM AT-A-GLANCE

Time/Room	Auditorium (3F)	Grand Ballroom 101 (1F)	Grand Ballroom 102 (1F)	Grand Ballroom 103 (1F)	Grand Ballroom 104 (1F)
		Thursday 17 N	ovember 2022		
09:00-12:00		Pre-congress (Hands or	s Workshop 1 n Session)	Pre-congress Workshop 2	Pre-congress Workshop 3
		Critical Care Medicine		Lung Cancer	COPD
12:15-13:45		Lunch			
		Pre-congress (Hands or	s Workshop 5 n Session)	Pre-congress Workshop 6	Pre-congress Workshop 7
14:00-17:00		Interve	scopy and entional niques	Pulmonary Circulation	Asthma
17:30-20:30					

Friday 18 November 2022					
08:10-09:10	Presidential Lecture 1				
08.10-09.10	Presidential Lecture 2				
	Symposium 1	Symposium 2	Symposium 3	Symposium 4	Oral 1
09:20-10:50	COPD	Tuberculosis	Critical Care Medicine	Lung Cancer	Asthma
10:50-11:10			Coffee Break		
	Symposium 5	Symposium 6	Symposium 7	Symposium 8	Oral 4
11:10-12:40	Asthma	Bronchoscopy and Interventional Techniques	Pulmonary Circulation	Interstitial Lung Disease	Tuberculosis
		Luncheon Symposium 1	Luncheon Symposium 2	Luncheon Symposium 3	Luncheon Symposium 4
12:50-13:50		Sponsored by DAEWON Pharmaceutical Co., Ltd.	Sponsored by Boehringer Ingelheim Korea	Sponsored by GSK	Sponsored by AstraZeneca Korea
	Symposium 9	Symposium 10	Symposium 11	Symposium 12	Oral 7
14:00-15:30	Clinical Respiratory Medicine	Environmental & Occupational Health and Epidemiology	Respiratory Neurobiology and Sleep	Respiratory Infections (non-tuberculous)	COPD
15:30-15:50			Coffee Break		
	Symposium 13	Symposium 14	Symposium 15	Symposium 16	Young Investigator
15:50-17:20	Asthma	Cell and Molecular Biology	Lung Cancer	Interstitial Lung Disease	Awards 1
		Evening Symposium 1	Evening Symposium 2	Evening Symposium 3	Evening Symposium 4
17:30-18:30		Sponsored by OLYMPUS KOREA CO., LTD	Sponsored by Thermo Fisher Scientific Korea	Sponsored by Boryung Co.	Sponsored by GSK
18:30-19:00					

Time/Room	Grand Ballroom 105 (1F)	ASEM Ballroom 202+203 (2F)	206A, 206B, 207, 211 (2F), 300 (3F) / R1, R2 (3F) / R3, R4 (4F), Etc.	Hall D (3F)	Hall D Foyer (3F)
		Thursday 17 N	lovember 2022		
09:00-12:00	Pre-congress Workshop 4 Tuberculosis		BIG 5 LUNG DISEASES WORKSHOP		
12:15-13:45	Lunch		organised by APSR,		
	Pre-congress Workshop 8		UNION APR, WHO SEARO and WHO WPRO		
14:00-17:00	Interstitial Lung Disease		Room 300 (3F) 09:00-16:00		
17:30-20:30				Opening Ceremony & Welcome Reception (Hall D1)	
		Friday 18 No	vember 2022		
08:10-09:10					
09:20-10:50	Oral 2 Cell and Molecular Biology	Oral 3 Interstitial Lung Disease			
10:50-11:10		Coffee Brea	k		
11:10-12:40	Oral 5 Lung Cancer	Oral 6 Respiratory Infections (non-tuberculous)			
	Luncheon Symposium 5	Luncheon Symposium 6		Exhibiton	Poste
12:50-13:50	Sponsored by sanofi	Sponsored by YUHAN		(Hall D2) 09:00-17:00	Poster Exhibition Day 1
	Oral 8	Oral 9			on Da
14:00-15:30	Lung Cancer	Interstitial Lung Disease			y 1
15:30-15:50		Coffee Brea	k		
15:50-17:20	Oral 10 COPD	Oral 11 Critical Care Medicine			
17:30-18:30	Evening Symposium 5 Sponsored by GSK	Evening Symposium 6 Sponsored by Boehringer Ingelheim Korea	APSR Assembly Meetings		
18:30-19:00					



Time/Room	Auditorium (3F)	Grand Ballroom 101 (1F)	Grand Ballroom 102 (1F)	Grand Ballroom 103 (1F)	Grand Ballroom 104 (1F)
		Saturday 19 No	ovember 2022		
08:10-09:10	Memorial Lecture 1 Memorial Lecture 2				
	Symposium 17	Symposium 18	Symposium 19	Symposium 20	Oral 12
09:20-10:50	COPD	Tuberculosis	Paediatric Lung Disease	Lung Cancer	Asthma
10:50-11:10			Coffee Break		
	Symposium 21	Symposium 22	Symposium 23	Oral 15	Oral 16
11:10-12:40	Asthma	Clinical Respiratory Medicine	Respiratory Structure and Function	Respiratory Infections (non-tuberculous)	Tuberculosis
		Luncheon Symposium 7	Luncheon Symposium 8	Luncheon Symposium 9	Luncheon Symposium 10
12:50-13:50		Sponsored by KOLON PHARMA	Sponsored by Boehringer Ingelheim Korea	Sponsored by Boryung Co.	Sponsored by AstraZeneca Korea
	Symposium 24	Symposium 25	Symposium 26	Oral 18	Oral 19
14:00-15:30	COPD	Respiratory Infections (non-tuberculous)	Critical Care Medicine	Environmental & Occupational Health and Epidemiology	Tuberculosis
15:30-15:50			Coffee Break		
	Symposium 27	Symposium 28	Symposium 29	Oral 22	
15:50-17:20	Interstitial Lung Disease	Environmental & Occupational Health and Epidemiology	Clinical Allergy & Immunology	Respiratory Infections (non-tuberculous)	Young Investigator Awards 2
		Evening Symposium 7	Evening Symposium 8	Evening Symposium 9	Evening Symposium 10
17:30-18:30		Sponsored by bioMerieux Asia Pacific Pte Ltd	Sponsored by Abbott Korea	Sponsored by GSK	Sponsored by Ildong Pharmaceutical
18:30-19:00					
19:30-21:30					
		Sunday 20 No	vember 2022		
08:10-09:10	Keynote Lecture Invited Lecture				
	APSR - GOLD Joint	Symposium 30	Symposium 31	Symposium 32	Oral 25
09:20-10:50	Session	Critical Care Medicine	Lung Cancer	Interstitial Lung Disease	Clinical Respiratory Medicine
10:50-11:10	09:20-11:00		Coffee	Break	
		Symposium 33	Symposium 34	Symposium 35	Oral 27
11:10-12:40		Asthma	Clinical Respiratory Medicine	COPD	Respiratory Structure and Function
12:50-13:20				Closing Ceremony	

Time/Room	Grand Ballroom 105 (1F)	ASEM Ballroom 202+203 (2F)	206A, 206B, 207, 211 (2F) 300 (3F) / R1, R2 (3F) / R3, R4 (4F), Etc.	Hall D (3F)	Hall D Foyer (3F)		
	Saturday 19 November 2022						
08:10-09:10							
	Oral 13	Oral 14					
09:20-10:50	Pulmonary Circulation	Critical Care Medicine					
10:50-11:10		Coffee Brea	k				
	Oral 17						
11:10-12:40	Lung Cancer	JRS Symposium					
40,50 40,50	Luncheon Symposium 11	Luncheon Symposium 12		Exhibiton	P		
12:50-13:50	Sponsored by MSD Korea	Sponsored by Novartis		(Hall D2) 09:00-17:00	oster Exl		
	Oral 20	Oral 21			hibit		
14:00-15:30	Clinical Allergy & Immunology	Respiratory Neurobiology and Sleep			Poster Exhibition Day 2		
15:30-15:50							
	Oral 23	Oral 24					
15:50-17:20	COPD	Bronchoscopy and Interventional Techniques					
	Evening Symposium 11	Evening Symposium 12					
17:30-18:30	Sponsored by sanofi	Sponsored by YUHAN	APSR Assembly Meetings				
18:30-19:00							
19:30-21:30				Gala Dinner (Hall D1)			
		Sunday 20 No	ovember 2022				
08:10-09:10							
	Oral 26						
09:20-10:50	Paediatric Lung Disease			Exhibiton			
10:50-11:10		Coffee Brea	k	(Hall D2)			
	Oral 28			09:00-12:00			
11:10-12:40	Respiratory Infections (non-tuberculous)						
12:50-13:20							



SCIENTIFIC PROGRAM

SCIENTIFIC PROGRAM

17 November

Pre-congress Workshop 1		09:00-12:00	Grand Ballroom 101 +102 (1F)	
Critical Care M	edicine			
Chair	Sunghoor	Park (Hallym University	College of Medicine, Republic	of Korea)
09:00-09:20	PW01-1	Pre-survey & Basic A	pproach of PoCUS in ICU	
09.00-09.20	FWUI-I	Young-Jae Cho (Seou	ıl National University College o	of Medicine, Republic of Korea)
09:20-09:40	PW01-2	Lung US for Respirat	ory Failure	
09.20-09.40	F VV 0 1-2	Jinwoo Lee (Seoul Nat	tional University Hospital, Rep	oublic of Korea)
		POCUS in Pleural Dis	ease	
09:40-10:00	PW01-3	Tai Joon An (Yeouid Republic of Korea)	o St. Mary Hospital, Collegi	e of Medicine, Catholic University of Korea,
10:00 10:20	PW01-4	POCUS in COVID-19	Pneumonia	
10:00-10:20	PWU 1-4	Sung Yoon Lim (Seou	I National University College o	of Medicine, Republic of Korea)
10:20-10:40	PW01-5	POCUS in MV Weanin	ng	
10.20-10.40	PWU 1-5	Kyung Soo Chung (Se	everance Hospital, Republic of	f Korea)
10:40-11:40	PW01-6	Simulation of Variou	s Clinical Cases (Hands-on))
10.40-11.40	P V V U I-0	Young-Jae Cho, Jinw	oo Lee, Tai Joon An, Sung Y	oon Lim, Kyung Soo Chung, Ji-Eun Park
11:40-12:00	PW01-7	Wrap up & Post Surv	rey	
11.40-12.00	PVVU 1-7	Ji-Eun Park (Ajou Un	iversity School of Medicine	e, Republic of Korea)

Pre-congress Workshop 2		09:00-12:00	Grand Ballroom 103 (1F)		
Lung Cancer					
Chair	Yoon Soo	Chang (Yonsei University	College of Medicine, Republic of	of Korea)	
09:00-09:30	PW02-1	History and Current	Status of National Lung Can	cer Screening Program in Korea	
09.00-09.30	PVV02-1	Yeol Kim (National Cancer Center, Republic of Korea)			
09:30-10:00	PW02-2	USPSTF Lung Cancer	Screening		
09.30-10.00	P VV UZ-Z	Patricia Rivera (University of Rochester Medical Center, U.S.A.)			
10:00-10:30	PW02-3	Optimal Managemen	nt of Pulmonary Nodules		
10.00-10.30	10.00-10.30 PVVU2-3		Yeon Wook Kim (Seoul National University, College of Medicine, Republic of Korea)		
10:30-11:00	DW02-4	Blood-Based Biomar	kers		
10.30-11.00	PW02-4	Chaeuk Chung (Chun	gnam National University, Colle	ge of Medicine, Republic of Korea)	



Pre-congres	Pre-congress Workshop 3		09:00-12:00	Grand Ballroom 104 (1F)
COPD				
Chair	Yeon-Mok	Oh (University of Ulsan C	College of Medicine, Republic of Kor	rea)
09:00-09:30	PW03-1	Genetics of COPD		
09.00 09.30	F WU3-1	Woo Jin Kim (Kangwo	n National University, Republic of K	Korea)
09:30-10:00	PW03-2	What is Early COPD a	and Why is It Important?	
09.30-10.00	P W U 3 - Z	Youlim Kim (Konkuk University School of Medicine, Republic of Korea)		
10:00-10:30	PW03-3	Natural History of CO)PD	
10.00-10.30	Joo Hun Park (Ajou University School of Medicine, Republic of Korea)			olic of Korea)
10:30-11:00	PW03-4	COPD & Microbiome		
10.30-11.00	PWU3-4	Se Hee Lee (CHA University, Republic of Korea)		
11:00-11:30	PW03-5	Goals of COPD Treatr	ment; Focus on Symptom and E	xacerbation
11.00-11.50	PWU3-5	Deog Kyeom Kim (Se	oul National University College of M	Medicine, Republic of Korea)
11:30-12:00	PW03-6	What is COPD Exacer Current Definition, P	bation? itfalls, Challenges and Opportu	nities for Improvement
		Richard Russell (Unive	ersity of Oxford, United Kingdom)	

Pre-congres	Pre-congress Workshop 4		09:00-12:00	Grand Ballroom 105 (1F)		
Tuberculosis	Tuberculosis					
Chair	Chair Seung Heon Lee (Korea University College of Medicine, Republic of Korea)					
09:00-09:30	PW04-1	Global Diagnostic Ga	p in TB			
09.00-09.30	P VV 04-1	Neil Schluger (Tubero	ulosis Control Branch, California De _l	partment of Public Health, U.S.A.)		
09:30-10:00	PW04-2	Rapid Molecular Diag	gnosis of TB and Drug Resistance	e		
09.30-10.00	P VV 04-2	Chang Ki Kim (Seoul (Clinical Laboratories, Republic of Kor	rea)		
10:00-10:30	PW04-3	The Role of WGS/NG	S in TB Diagnosis and Transmiss	ion		
10.00-10.30	PW04-3	Jann-Yuan Wang (Na	tional Taiwan University, Taiwan)			
10:30-11:00	PW04-4	The Role of Chest Im	age and Advances in TB Diagnos	sis		
10.30-11.00	PVVU4-4	Soon Ho Yoon (Seoul	National University College of Medic	cine, Republic of Korea)		
11:00-11:30	PW04-5	Non-Sputum Based I	Diagnosis of TB			
11.00-11.50	PW04-5	Satoshi Mitarai and Seiya Kato (The Research Institute of Tuberculosis, Japan)				
11:30-12:00	PW04-6	Diagnostic Challenge	e in Pediatric TB (including LTBI)			
11.30-12.00	P VV U4-0	Byeong Wook Eun (N	lowon Euji Medical Center, Republic	of Korea)		

Pre-congress Workshop 5			14:00-17:00	Grand Ballroom 101+102 (1F)	
Bronchoscopy and Interventional Techniques (Hands on Session)					
Chair	Young Sik Park (Seoul National University College of Medicine, Republic of Korea)				
	PW05-1	Bronchial Branch Tra	cing First step for RP-EBUS	procedures	
	PWU5-1	Jung Seop Eom (Pusan National University Hospital, Republic of Korea)			
14:00-17:00	PW05-2	How to perform TBL	3 using radial probe EBUS		
14.00-17.00		June Hong Ahn (Yeun	gnam University Medical Cente	r, Republic of Korea)	
	PW05-3	Hands on Practice			
	F WU5-5	Seung Hyun Yong (Yonsei University College of Medicine, Republic of Korea)			

Pre-congres	Pre-congress Workshop 6		14:00-17:00	Grand Ballroom 103(1F)
Pulmonary Circ	culation			
Chairs	Chairs Yee Hyung Kim (Kyung Hee University School of Medicine, Republic of Korea) Hun-Gyu Hwang (Soonchunhyang University Gumi's Hospital, Republic of Korea)			
14:00-14:30	PW06-1	Natural History and F	Pathophysiology of VTE	
14.00-14.50	PW00-1	Jung-Wan Yoo (Gyeor	ngsang National University Hospital,	Republic of Korea)
14:30-15:00	PW06-2	Diagnosis and Manag	gement Algorithm for Acute PE	
14.30-13.00	PVVU0-2	Talant Sooronbaev (National Center of Cardiology and Int	ternal Medicine, Kyrgyzstan)
15:00-15:30	PW06-3	Practical Guidance fo	or Anticoagulation in the Treatme	ent of VTE
15.00-15.30		Hang Jea Jang (Inje U	niversity Haeundae Paik Hospital, Re	epublic of Korea)
15:30-16:00	PW06-4	Evolution of PAH and	I CTEPH	
15.50-16.00		Nick Kim (Critical Care	& Sleep Medicine, University of Cali	fornia San Diego, U.S.A.)
16:00-16:30	PW06-5	Pulmonary Hyperten	nsion in Chronic Lung Disease	
10.00-10.50	PW00-5	Jae Seung Lee (Unive	rsity of Ulsan College of Medicine, R	epublic of Korea)
16:30-17:00	PW06-6	Pulmonary Arteriove	enous Malformation	
10.30-17.00	F VV UO-0	Won-Young Kim (Chu	ng-Ang University Hospital, Republi	c of Korea)



Pre-congress Workshop 7		14:00-17:00	Grand Ballroom 104(1F)	
Asthma				
Chair	Ji-yong M	oon (Hanyang University (College of Medicine, Republic of Ko	orea)
17:00 17:20	DW07.1	Biomarkers of Asthm	na	
14:00-14:30	PW07-1	So Ri Kim (Chonbuk Na	ational University Medical School, I	Republic of Korea)
14:30-15:00	PW07-2	Immunotherapy in Al	lergic Asthma	
14.30-15.00	PVVU/-2	Ga-Young Ban (Hallym	University College of Medicine, R	epublic of Korea)
15:00-15:30	PW07-3	Microbiome in Asthm	na	
15.00-15.30	PWU/-3	Kyoung-Hee Sohn (Ky	rung Hee University School of Med	dicine, Republic of Korea)
15:30-16:00	PW07-4	Asthma-COPD Overla	р	
15.30-16.00	PVVU/-4	Hye Jung Park (Gangr	nam Severance Hospital, Republic	of Korea)
16:00-16:30	PW07-5	Biologic Therapy in S	evere Asthma	
10.00-10.30	PWU/-5	Joo-Hee Kim (Hallym l	Jniversity College of Medicine, Rep	public of Korea)
16:30-17:00	PW07-6	Treatment Beyond Bi	ologics in Severe Asthma	
10.30-17.00	F VV U / - 0	Woo-Jung Song (Univ	ersity of Ulsan College of Medicine	e, Republic of Korea)

Pre-congress Workshop 8		14:00-17:00	Grand Ballroom 105(1F)		
Interstitial Lun	Interstitial Lung Disease				
Chair	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?		
14.00-14.50	PVVU0-1	Byoungsoo Kwon (Se	oul National University College of M	edicine, Republic of Korea)	
17:20 15:00	PW08-2	Key HRCT Findings in	ILDs for Pulmonologist		
14:30-15:00	PVVU8-2	Jung Hwa Hwang (So	onchunhyang University College of I	Medicine, Republic of Korea)	
15:00 15:20	PW08-3	Update of IPF: Diagnosis and Management			
15:00-15:30	PVVU8-3	Jae Ha Lee (Inje Unive	rsity College of Medicine, Republic o	f Korea)	
15:20 16:00	DW00 6	New Concept of Prog	gressive Pulmonary Fibrosis: Def	inition and Management	
15:30-16:00	PW08-4	Won-II Choi (Myongji l	Hospital, Republic of Korea)		
16:00 16:20	DWOO E	Update of Hypersens	sitivity Pneumonitis		
16:00-16:30	PW08-5	Hongseok Yoo (Sungl	kyunkwan University School of Medi	cine, Republic of Korea)	
16:20 17:00	DWOO C	Treatment Strategie	s for CTD Associated ILD		
16:30-17:00	PW08-6	Hye Sook Choi (Kyung	g Hee University School of Medicine,	Republic of Korea)	

18 November

				18 November	
Presidentia	l Lecture		08:10-09:10	Auditorium (3F)	
Chairs		kanishi (Kitakyushu City Hospital Organization, Japan) ung (Hallym University College of Medicine, Republic of Korea)			
		Management of Prog	gressive Fibrotic ILD		
08:10-08:40	PL01-1	Management of Progressive Fibrotic ILD Carlos Robalo Cordeiro (University of Coimbra, Portugal)			
08:40-09:10	PL01-2	Lung Cancer			
		David CL Lam (The Ur	niversity of Hong Kong, Hong Ko	ong)	
Symposium	11		09:20-10:50	Auditorium (3F)	
COPD - Meet th	ne Professor: I	Bronchoscopic Treatmen	t of Emphysema		
Chair	Chin Kook	Rhee (The Catholic Univ	ersity of Korea College of Medic	ine, Republic of Korea)	
00:20 10:50	CO1 1	The Art of Endobronchial Valve Insertion			
09:20-10:50	S01-1	Karin Klooster (University Medical Center Groningen, Kingdom of the Netherlands)			
Symposium	2		09:20-10:50	Grand Ballroom 101 (1F)	
Tuberculosis -	Where Are W	e for TB Management?			
Chairs		uang (Chung Shan Medic Yim (Seoul National Unive	al University, Taiwan) ersity College of Medicine, Repu	blic of Korea)	
00:20 00:50	CO2 1	Changing Epidemiol	ogy of TB in Asia (in the Era o	f COVID-19)	
09:20-09:50	S02-1	Kyung Hyun Oh (Wor	ld Health Organization Regional Office for the Western Pacific, Philippines)		
09:50-10:20	S02-2	Recent Concept of La	atent TB Infection and Its Cli	nical Implication	
	332 2		tional Taiwan University, Taiwar)	
10:20-10:50	S02-3	Role of New Drugs for TB Control			
		Neil Schluger (Tubero	ulosis Control Branch, California	Department of Public Health, U.S.A.)	
Symposium	13		09:20-10:50	Grand Ballroom 102 (1F)	
Critical Care M	ledicine - Wh	at's New in ARDS Manage	ement?		
Chairs			ans General Hospital, Taiwan) nonology and Critical Care Medici	ne, Samsung Medical Center, Republic of Korea)	
09:20-09:50	503-1	VILI and p-SILI			
	3U3-1				

Symposium	Symposium 3		09:20-10:50	Grand Ballroom 102 (1F)	
Critical Care M	Critical Care Medicine - What's New in ARDS Management?				
Chairs	Chairs Ming-Cheng Chan (Taichung Veterans General Hospital, Taiwan) Gee Young Suh (Department of Pulmonology and Critical Care Medicine, Samsung Medical Center, Republic of Korea)				
09:20-09:50	S03-1	VILI and p-SILI			
09.20 09.30	303-1	Ming-Cheng Chan (T	aichung Veterans General Hospi	tal, Taiwan)	
09:50-10:20	S03-2	EIT Monitoring in AR	DS		
09.50-10.20	303-2	Atsuko Shono (Show	a University School of Medicine,	Japan)	
10:20-10:50	S03-3	When and How to Ap	oply VV ECMO		
10.20-10.50	303-3	Chi Ryang Chung (Sa	msung Medical Center, Republic	of Korea)	



Symposium	4		09:20-10:50	Grand Ballroom 103 (1F)	
Lung Cancer - l	Meet the Prof	essor			
Chair	Sita Anda	rini (University of Indones	ia, Persahabatan Hospital, Indonesi	a)	
00:00 40:50	50/.4	Natural history, diag	nosis and treatment of driver m	utations	
09:20-10:50	S04-1	Kwun Fong (The Unive	ersity of Queensland, Australia)		
Symposium	5		11:10-12:40	Auditorium (3F)	
Asthma - ISAR i	in Asia Pacific	:			
Chairs			ns General Hospital, Taiwan) School of Medicine, Republic of Kore	ea)	
11:10 11:70	S05-1	Current ISAR State in	n Korea		
11:10-11:40	505-1	Kwang Ha Yoo (Konku	uk University School of Medicine, Re	public of Korea)	
11:40-12:10	S05-2	Current ISAR State in	n Taiwan		
11.40 12.10	303 2	Diahn-Warng Perng	(Taipei Veterans General Hospital, T	aiwan)	
12:10-12:40	S05-3	Current ISAR State in	n the World		
		Ruth Murray (Director	Medscript Ltd NZ & Research Fello	ow, OPC, New Zealand)	
Symposium	6		11:10-12:40	Grand Ballroom 101 (1F)	
Bronchoscopy	and Interver	ntional Techniques - Bro	nchoscopy; Present and Future		
Chairs			and Women's Hospital, Australia) ersity School of Medicine, Republic	of Korea)	
11.10 11.70	S06-1	Rigid Bronchoscopy	for Benign and Malignant Diseas	ses	
11:10-11:40	506-1	Hojoong Kim (Sungky	ngkyunkwan University School of Medicine, Republic of Korea)		
1:40-12:10	S06-2	EBUS-TBNA for Lung	Cancer Staging: An Update		
1.40-12.10	300-2	Bin Hwangbo (Nationa	al Cancer Center, Republic of Korea)		
12:10-12:40	S06-3	Advanced Bronchoso	copy for the Peripheral Lesions		
12.10 12.40	300 3	Fumihiro Asano (Gifu	Prefectural General Medical Center	; Japan)	
Symposium	7		11:10-12:40	Grand Ballroom 102 (1F)	
	culation - CO	VID-19 and Pulmonary Ci	irculation		
Pulmonary Circ					
Pulmonary Circ Chairs	Talant So		er of Cardiology and Internal Medicir ersity College of Medicine, Republic		
Chairs	Talant Soo Yang-Ki K		ersity College of Medicine, Republic		
Chairs	Talant So	im (Soonchunhyang University COVID-19 Associated	ersity College of Medicine, Republic	of Korea)	
Chairs 11:10-11:40	Talant Soo Yang-Ki K S07-1	im (Soonchunhyang University (Soonchunhyang University COVID-19 Associated Hun-Gyu Hwang (Soo	ersity College of Medicine, Republic d Coagulopathy	of Korea) spital, Republic of Korea)	
	Talant Soo Yang-Ki K	im (Soonchunhyang University (Soonchunhyang University (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang (Soonchunhyang University	ersity College of Medicine, Republic d Coagulopathy onchunhyang University Gumi's Hos	of Korea) spital, Republic of Korea) tients with COVID-19	
Chairs 11:10-11:40	Talant Soo Yang-Ki K S07-1	im (Soonchunhyang University COVID-19 Associated Hun-Gyu Hwang (Soon Prevention and There Nick Kim (Critical Care Differences in Pulmo	ersity College of Medicine, Republic d Coagulopathy onchunhyang University Gumi's Hos apeutic Strategies for VTE in Par	spital, Republic of Korea) tients with COVID-19 ifornia San Diego, U.S.A.)	

Symposium 8		11:10-12:40	Grand Ballroom 103 (1F)	
Interstitial Lun	g Disease - H	ot and Current Topics in Il	LD	
Chairs Takashi Ogura (Kanagawa Cardiovascular and Respiratory Center, Japan) Yangjin Jegal (University of Ulsan College of Medicine, Republic of Korea)				
11:10-11:40	COO 1	Health Effect of Air Po	ollution in ILD	
11.10-11.40	S08-1	Sun-Young Kim (Nation	nal Cancer Center, Republic of K	(orea)
11./0 10:10	C00.2	The Impact of COVID-	19 on Patients with Underlyi	ng Interstitial Lung Disease (ILD)
11:40-12:10	S08-2	Takashi Ogura (Kanagawa Cardiovascular and Respiratory Center, Japan)		
10:10 10:70	500.3	Progressive Pulmona	ry Fibrosis: Where are We No	ow?
12:10-12:40	S08-3	Jin Woo Song (Univers	sity of Ulsan College of Medicine,	, Republic of Korea)

Symposium	Symposium 9		14:00-15:30	Auditorium (3F)		
Clinical Respira	Clinical Respiratory Medicine - with COVID-19					
Chairs Ki-Suck Jung (Hallym University College of Medicine, Republic of Korea) Jae Yeol Kim (Chung-Ang University College of Medicine, Republic of Korea)						
14:00-14:30	S09-1	Post-Covid Sequalae				
14.00-14.50	203-1	Eun Young Heo (Seoul National University College of Medicine, Republic of Korea)		ine, Republic of Korea)		
1/:20 15:00	S09-2	COVID-19 and Lung 1	fibrosis			
14:30-15:00	509-2	Hee-Young Yoon (Soonchunhyang University College of Medicine, Republic of Korea)		edicine, Republic of Korea)		
15.00 15.20	C00.3	Covid & Airway Disea	ases			
15:00-15:30	S09-3	Seok Jeong Lee (Yons	sei University Wonju College of Medici	ne, Republic of Korea)		

Symposium 10		14:00-15:30	Grand Ballroom 101 (1F)		
Environmental	Environmental & Occupational Health and Epidemiology - Climate Change and Respiratory Diseases				
Chairs Yuming Guo (School of Public Health and Preventive Medicine, Monash University, Australia) HyoungKyu Yoon (The Catholic University of Korea College of Medicine, Republic of Korea)					
14:00-14:30	S10-1	Global Trends in Clim	ate Change		
14.00-14.30	310-1	Ho Kim (Graduate Sch	ool of Public Health, Seoul Natio	onal University, Republic of Korea)	
17:20 15:00	C10.2	Role of Climate Chan	ge and Viral Infection on Se	asonality of Mortality	
14:30-15:00	S10-2	Lina Madaniyazi (Nag	asaki University, Japan)		
15.00 15.20	C10.2	Asia-Pacific Aspect o	of Climate Change		
15:00-15:30	S10-3	Yuming Guo (School o	of Public Health and Preventive	Medicine, Monash University, Australia)	



Symposium	11		14:00-15:30	Grand Ballroom 102 (1F)
Respiratory Neurobiology and Sleep - Personalised Approach to Treatment of Sleep Apnea				
Chair	Chair Chol Shin (Korea University College of Medicine, Republic of Korea))
14:00-14:30	S11-1	Treatment strategies	s for asymptomatic OSA	
14.00-14.30	511-1	Sei Won Kim (The Cat	holic University of Korea Collec	ge of Medicine, Republic of Korea)
17,20 15,00	C11 2	Current Practice and	Future Directions in Sleep	Apnea Treatment
14:30-15:00	S11-2	Motoo Yamauchi (Na	ra Medical University, Japan)	
15:00 15:20	C11_2	Is the Apnea-Hypopr And What Else?	nea Index Sufficient to Predi	ict the Severity of Sleep Apnea?
15:00-15:30	S11-3	Sang Haak Lee (Eunp Korea, Republic of Kore	, , , , , , , , , , , , , , , , , , , ,	ollege of Medicine, The Catholic University of

Symposium 12			14:00-15:30	Grand Ballroom 103 (1F)
Respiratory Inf	ections (non	-tuberculous) - Frontier	rs 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)				
		Effect of Al-Chest PA	A Diagnosis on Emergency Phy	ysicians
14:00-14:30	S12-1	Won Chul Cha (Samsung Medical Cen	nter, Sungkyunkwan University Sc	chool of Medicine, Republic of Korea)
		The Role of Multiplex	PCR on the Management of	Ventilator Associated Pneumonia?
14:30-15:00	S12-2	Jung-Yien Chien (National Taiwan Unive	rsity Hospital, National Taiwan Ur	niversity College of Medicine, Taiwan)
15:00-15:20	C40.0	Phages and Endolysi	ins as Novel Antibacterials	
15:00-15:30	S12-3	Hee Joon Myung (Lys	sentech, Republic of Korea)	

Symposium	13		15:50-17:10	Auditorium (3F)
Asthma - Pro/C	Asthma - Pro/Con: As Needed ICS-Formoterol in Step 2 Treatment of Asthma			
Chair	Yeon-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)			
15:50-15:55	Introducti	on & Voting		
15:55-16:15	S13-1	Pro: As Needed ICS-I	Formoterol in Step 2 Treatment of Ast	:hma
15.55-10.15	515-1	Phuong Phan Thu (Ba	ach Mai Hospital, Viet Nam)	
16:15-16:35	S13-2	Con: As Needed ICS-	Formoterol in Step 2 Treatment of Asi	thma
10.15-10.55		Mi-Ae Kim (CHA Unive	ersity, 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 Molecu	ular Biology	- New Potential Therapeu	utics in Respiratory Diseases: Fro	m 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 Regula	ation of Innate Immune Signali	ing and Pulmonary Diseases
15:50-16:20	314-1	Min-Jong Kang (Yale	University, U.S.A.)	
16:20 16:50	S14-2	Immune Mechanism	s Driving Pulmonary and Syste	emic Inflammation in COVID-19
16:20-16:50	514-2	Gregory P. Downey	University of Colorado School of M	Medicine, U.S.A.)
16:50-17:20 S14-3	C1/ 2	When Bronchoscopy	Meet Cancer Immunotherapy:	Photoimmunotherapy in Lung Cancer
	5 14-3	Kazuhide Sato (Nago	ya University, Japan)	

Symposium	15		15:50-17:20	Grand Ballroom 102 (1F)
Lung Cancer - F	Lung Cancer - Recent Updated Immunotherapy			
Chairs	Chairs Patricia Rivera (University of Rochester Medical Center, U.S.A.) Sei Hoon Yang (Wonkwang University School of Medicine, Republic of Korea)			of Korea)
15:50-16:20	S15-1	Immunotherapy Rela	ated Pneumonitis	
15.50 10.20	315-1	Patricia Rivera (Unive	rsity of Rochester Medical Center	r, U.S.A.)
16:20-16:50	S15-2	Integration of Radiot A Radiation Oncologi		for Non-Small Cell Lung Cancer:
		Sungjune Kim (H. Lee Moffitt Cancer Center, U.S.A.)		
16:50-17:20	C4E 2	The Role of Immune (Checkpoint Inhibitors in Small	Cell Lung Cancer
10.50*17.20	S15-3	In-Jae Oh (Chonnam N	National University, Republic of Ko	orea)

Symposium	16		15:50-17:10	Grand Ballroom 103 (1F)
Interstitial Lun	Interstitial Lung Disease - Pro/Con: Controversy in Corticosteroid Pulse Therapy for the Treatment of AE of IPF			
Chair	Chair Sung-Woo Park (Soonchunhyang University College of Medicine, Republic of Korea)			Republic of Korea)
15:50-15:55	Introduct	ion & Voting		
15:55-16:15	S16-1	Pro: Corticosteroid Pu	ilse Therapy Should be Include	ed in Treatment of Acute Exacerbation of IPF
15.55-16.15	310-1	Yasuhiro Kondoh (To:	sei General Hospital, Japan)	
16:15-16:35	5 S16-2	Con: Corticosteroid P	ulse Therapy is Not Necessary	y in Treatment of Acute Exacerbation of IPF
10.15-10.55		Moo Suk Park (Yonse	i University College of Medicine	e, Republic of Korea)
16:35-16:50	Comment			
16:50-17:05	Q&A			
17:05-17:10	Voting & Closing			



12:50-13:50

Grand Ballroom 101 (1F)

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	Acute Bronchitis			
	Chair Jae Jeong Shim (Korea University College of Medicine, Republic of Korea)			
	12:50-13:50	LS01-1	Clinical Value and Advantages of New Antitussive	
		L301-1	Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)	

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			
Chair	Man Pyo Chung (Sungkyunkwan University School of Medicine, Republic of Korea)		
12:50-12:55	Welcome	Welcome & Introduction	
12:55-13:25	LS02-1	Clinical Course of IPF & Evidence Based Approach in Early Treatment for IPF with RWE Patient Cases	
		Martin Kolb (McMaster University, Canada)	
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 GSK

COPD			
Chair	Gregory King (Royal North Shore Hospital, Australia)		
12:50-13:15	LS03-1	Importance of Maximal Bronchodilation from the Start	
12.50-13.15		Hye Yun Park (Sungkyunkwan University School of Medicine, Republic of Korea)	
13:15-13:40	13:40 LS03-2	The Real World Evidence of Single Inhaler Triple Therapy	
13.15-13.40		Gregory King (Royal North Shore Hospital, Australia)	
13:40-13:50	Q&A		

Luncheon Symposium 4	12:50-13:50	Grand Ballroom 104 (1F)
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COPD	COPD		
Chair	Kwang Ha Yoo (Konkuk University School of Medicine, Republic of Korea)		
12:50-13:50	100/ 1	Management Strategies to Reduce the Clinical Burden of COPD	
12.50-13.50	LS04-1	Mona Bafadhel (King's College London, United Kingdom)	

Luncheon Symposium 5 12:50-13:50 Grand Ballroom 105 (1F)

Sponsored by sanofi

Asthma			
Chair	Chair HyoungKyu Yoon (The Catholic University of Korea College of Medicine, Republic of Korea)		
12:50-13:50	LS05-1	Evolution in the Management of Severe Asthma	
12.30-13.30		Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)	

Luncheon Symposium 6 12:50-13:50 ASEM Ballroom 202+20

Sponsored by YUHAN

Cancer			
Chair	Jae Cheol Lee (University of Ulsan College of Medicine, Republic of Korea)		
12:50- 13:50	LS06-1	New Era of NSCLC EGFR Mutation Treatment Updated Overall Survival Analysis: 3G EGFR TKI Lazertinib	
		Sung Yong Lee (Korea University College of Medicine, Republic of Korea)	



Evening Symposium 1	17:30-18:30	Grand Ballroom 101 (1F)
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Sponsored by OLYMPUS KOREA CO., LTD

Bronchoscopy and Interventional Techniques		
Chair	Bin Hwangbo (National Cancer Center, Republic of Korea)	
17:30-18:30	FS01-1	Clinical Tips for Transbronchial Biopsy Using Radial Probe EBUS
17.30-18.30	E30 I- I	Jung Seop Eom (Pusan National University Hospital, Republic of Korea)

Evening Symposium 2	17:30-18:30	Grand Ballroom 102 (1F)
Evening Symposium Z	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
17.30-10.30	E302-1	Stefano Aliberti (University of Millan, Italy)

Evening Symposium 3 17:30-18:30 Grand Ballroom 103 (1	Evening Symposium 3
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Sponsored by Boryung Co.

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Carbapenem Sparing			
Chair	Sang Bum Hong (University of Ulsan College of Medicine, Republic of Korea)		
17:20_10:20	':30-18:30 ES03-1	HAP & VAP: Importance of Carbapenem-sparing Strategy	
17.30-10.30		Bong Young Kim (Hanyang University Hospital, Republic of Korea)	

Evening Symposium 4 17:30-18:30	Grand Ballroom 104 (1F)
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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	
		lan Pavord (University of Oxford, United Kingdom)	
17:55 10:20	FC0/ 02	The Clinical Benefits of Mepolizumab for Severe Eosinophilic Asthma in Real-World Study	
17:55-18:20	ES04-02	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)		
17.30-18.30	0 E305-1	Sunghee Park (Soonchunhyang University Hospital Bucheon, Republic of Korea)		

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		
17.35-17.50	E200-1	Youlim Kim (Konkuk University School of Medicine, Republic of Korea)		
17:50-18:05	ECOC 2	Device Selection for COPD		
17.30-10.03	ES06-2	James Chalmers (University of Dundee, United Kingdom)		
10:05 10:20	ECOC 3	"Keep the Balance" in ICS Containing Regimens		
18:05-18:20	ES06-3	James Chalmers (University of Dundee, United Kingdom)		
18:20-18:30	Q&A			



19 November

Young Investigator Awards 1		15:50-17:20	Grand Ballroom 104 (1F)			
Chair	Albert Yic	k-Hou Lim (Tan Tock Seng Hospital, Singapore)				
		The Role of Airwa	y Epithelia in Sarcoidosis			
15:50-15:58	YIA-1-1	Alejandro A Pezzu Nabeel Hamzeh	ılo (U.S.A.)*, Miles Hagner, Brandon I	Bettis, Huiyu Gong, Andrew Thurman,		
15,50 16,06	VIA 4 2		al Sphingosine-1-Phosphate Red y-Induced Pulmonary Fibrosis	ceptor 1 (S1PR1)		
15:58-16:06	YIA-1-2	Rachel S. Knipe (U Timothy Hla, Benjan	J.S.A.)*, Patricia L. Brazee, Clemens k nin D. Medoff	C. Probst, Jason Griffith, Lida Hariri,		
16:06-16:14	YIA-1-3		een hand grip strength and peak structive pulmonary disease	inspiratory flow rate in patients with		
		Apisara Suriyakul	(Thailand)*, Narongkorn Saiphoklar	ng, Igor Barjaktarevic, Christopher Cooper		
16:14-16:22	YIA-1-4	Prevalence, Chara Obstructive Pulmo		tion in Young patients with Chronic		
10.14-10.22	11A-1-4	Yong Suk Jo (Repu Ki-Suck Jung, Yong-	ublic of Korea)*, Kyung Joo Kim, Chin -Bum Park	Kook Rhee, Kwang Ha Yoo,		
		A Relationship be	tween Female Sex Hormones, Co	ellular Metabolism, and Asthma		
16:22-16:30 YIA-1-5		Chantal Donovan, E	ralia)*, Alexandra Brown, Jemma Ma van Williams, Bronwyn Berthon, Jan y Scott, Lisa Wood, Jay Horvat	ayall, Henry Gomez, Richard Kim, nes Pinkerton, Philip Hansbro, Paul Foster,		
		Distinct impacts of pulmonary function	of centrilobular vs. paraseptal en on in COPD	nphysema on annual decline in		
16:30-16:38	YIA-1-6	Tsuyoshi Oguma, At	Japan)*, Naoya Tanabe, Kaoruko, Sł tsuyasu Sato, Masaru Suzuki, Hironi a, Susumu Sato, Satoshi Konno, Toy			
16:38-16:46	YIA-1-7	Genome-wide ass complex disease	ociation study in patients with p	ulmonary Mycobacterium avium		
		Ho Namkoong (Jap	pan)*			
			is Bronchiectasis (NCFB) is a Bro d Mucus Hyperproduction	onchiolectatic Disease Characterized by		
16:46-16:54	YIA-1-8	Yu Mikami, Rodney	Gilmore, Selene Margarita Barbosa a Maria Pedrosa Ribeiro, Kenneth Ol	ni Okuda, Gang Chen, Takafumi Kato, Cardenas, Michael Chua, Yohei Masugi, ivier, Naoki Hasegawa, Scott Randell,		

The lung microbiota in nontuberculous mycobacterial pulmonary disease

O Jung Kwon, Hee Jae Huh, Nam Yong Lee, Jhingook Kim, Byung Woo Jhun

Bo-Guen Kim (Republic of Korea)*, Noeul Kang, Su-Young Kim, Dae Hun Kim, Hojoong Kim,

Diagnostic Utility of Adenosine Deaminase in Differentiating Tuberculous and Non-Tuberculous Exudative Pleural Effusions

Boon Hau Ng (Malaysia)*, Hsueh Jing Low, Andrea Yu-Lin Ban, Nik Nuratiqah Nik Abeed, Mohamed Faisal Abdul Hamid

Risk factors associated with treatment response in patients with idiopathic nonspecific

Memorial Lecture			08:10-09:10	Auditorium (3F)
Chairs	Carlos Robalo Cordeiro (University of Coimbra, Portugal) Jae Jeong Shim (Korea University College of Medicine, Republic of Korea)			
08:10-08:40 PL02-1		[Michiyoshi Harasaw Chronic lung disease	ra] s: COPD and bronchiectasis	
		Chong-Jen Yu (Nation	nal Taiwan University College of Medicine, Taiwan)	
08:40-09:10 PL	PL02-2	[Ann Janet Woolcock Why Improve the Ma Research?	k] nagement of Chronic Cough in Children Thro	ugh Clinical Care and
	Anne	Anne Chang (Menzies	School of Health Research, Queensland University	y of Technology, Australia

Symposium	17		09:20-10:50	Auditorium (3F)		
COPD - Microbio	COPD - Microbiome/Infection					
Chairs	Richard Russell (University of Oxford, United Kingdom) Sang-Do Lee (University of Ulsan College of Medicine, Republic of Korea)					
09:20-09:50	S17-1	Up-To-Date Research	of Microbiome in COPD and Clinical	Implication		
09.20-09.50	31/-1	Don Sin (University of British Columbia, St. Paul Hospital, Canada)				
09:50-10:20	C17 1	Who Needs ICS in CO	PD			
09.50-10.20	S17-2	Richard Russell (University of Oxford, United Kingdom)				
10:20-10:50	0:50 S17-3	BCO (Bronchiectasis	COPD Overlap): Severe Phenotype or	Simple Comorbidity?		
10.20-10.50		Ji Ye Jung (Yonsei Univ	versity College of Medicine, Republic of Ko	orea)		

Symposium 18		09:20-10:50	Grand Ballroom 101 (1F)			
Tuberculosis -	Tuberculosis - Towards TB Elimination Post-Pandemic Era in APSR Members' Countries					
Chairs	Jennifer Ann Wi (Dagupan Doctors Villaflor Memorial Hospital, Philippines) Tae Sun Shim (University of Ulsan College of Medicine, Republic of Korea)					
09:20-09:50	S18-1	Experience Sharing 1	from High Burden Country: Ch	nallenges and Strategies		
09.20-09.50	310-1	Erlina Burhan (Univer	sitas Indonesia, Indonesia)			
09:50-10:20	S18-2	Lessons Learned fro	m Intermediate Burden Count	ries: Success Story of Each Country 1		
09.50-10.20	510-2	Seiya Kato (The Resea	arch Institute of Tuberculosis, Jap	pan)		
10:20-10:50	640.3	Lessons Learned from	m Intermediate Burden Counti	ries: Success Story of Each Country 2		
10.20-10.50	S18-3	Hee Jin Kim (Korean N	National Tuberculosis Association	, Republic of Korea)		

16:54-17:02

17:02-17:10

17:10-17:18

YIA-1-9

YIA-1-10

YIA-1-11

interstitial pneumonia

Dong-Hyun Joo (Republic of Korea)*, Sun Mi Choi



Symposium 19			09:20-10:50	Grand Ballroom 102 (1F)		
Paediatric Lung	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)				
09:20-09:50	S19-1	What Should We Foo	us on Managing Children with	Non-CF Bronchiectasis?		
09.20-09.50	219-1	Anne Goh Eng Neo (K	KK Women's and Children's Hosp	ital, Singapore)		
00:50 10:30	S19-2	Measures to Prevent	Bronchopulmonay Dysplasia	in Premature Neonates		
09:50-10:20	519-2	Tsu F. Yeh (Taipei Med	lical University, Taiwan)			
10:20 10:50	242.0	Still Ongoing Issues	of Pediatric Humidifier Disinfe	ectant-Related Lung Injury		
10:20-10:50 S19-3	5 19-3	Soo-Jong Hong (Univ	ersity of Ulsan College of Medicir	ne, Republic of Korea)		

Symposium	20		09:20-10:40	Grand Ballroom 103 (1F)		
Lung Cancer -	Lung Cancer - Pro/Con: Sequential Treatment for Advanced EGFR M(+) NSCLC					
Chair	Chair Kwun Fong (The University of Queensland, Australia)					
09:20-09:25	Introduct	on & Voting				
09:25-09:45	S20-1	Pro: Sequential Trea	tment for Advanced EGFR M(+) NSCLC		
09.25-09.45	320-1	Jeong Eun Lee (Chun	gnam National University School o	of Medicine, Republic of Korea)		
09:45-10:05	S20-2	Con: Sequential Trea	atment for Advanced EGFR M(+	-) NSCLC		
09.45-10.05	320-2	Diana Yuwung Yeh (S	School of Medicine, Fu Jen Catholic	c University, Taiwan)		
10:05-10:20	Comment					
10:20-10:35	Q&A					
10:35-10:40	Voting & Closing					

Symposium 21			11:10-12:40	Auditorium (3F)
Asthma - Meet the Professor				
Chair	Yong Chul Lee (Chonbuk National University Medical School, Republic of Korea)			blic of Korea)
11:10-12:40	S21-1	Management of T2-L	ow Asthma	
11.10-12.40	52 1-1	Parameswaran Nair (McMaster University, Canada)	

Symposium 22			11:10-12:40	Grand Ballroom 101 (1F
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)			
11:10 11:70	S22-1	Physiologic and Stru	ctural Consideration in the Aging	J Lung
11:10-11:40	522-1	Won-II Choi (Myongji Hospital, Republic of Korea)		
11./0 10:10	C22.2	An Airway Centric Vi	ew of Idiopathic Pulmonary Fibro	osis
11:40-12:10	S22-2	David A. Schwartz (University of Colorado School of Medicine, U.S.A.)		cine, U.S.A.)
12:10-12:40		Similarity Dissimilari	ty between Aging and ILD/IPF (or	Chronic Lung Diseases)
	S22-3	Yasuhiro Kondoh (Tos	sei General Hospital, Japan)	

Symposium	23	11:10-12:40 Grand Ballroom 102 (1F				
Respiratory Str	Respiratory Structure and Function - Physiologic Phenotype of Respiratory Disease					
Chairs	Martijn A. Spruit (Maastricht University Medical Center, Kingdom of the Netherlands) Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)					
11:10-11:40	S23-1	The Role of the Physiome: Physiologic Phenotyping an Disease	d Treatable Traits in Pulmonary			
		Martijn A. Spruit (Maastricht University Medical Center, Kin	gdom of the Netherlands)			
11:40-12:10	S23-2	Challenging Spirometry: Newer Lung Function Test Otl	her than FEV1			
11.40-12.10	525-2	David G. Chapman (University of Technology Sydney, Austr	ralia)			
10:10 10:70	S23-3	States of Art: Recent Update of Pulmonary Rehabilitation	on			
12:10-12:40	323-3	Seung Won Ra (Ulsan University Hospital, Republic of Korea				

JRS Symposium			11:10-12:40	ASEM Ballroom 202 + 203 (2F)
11:10-11:40	JRS-1	Challenge to overcome drug resistance in non-small cell lung cancer (Video Recording)		
11.10-11.40		Kazuhisa Takahashi (Juntendo University, Japan)		
11:40-12:10	JRS-2		s hypersecretion in the path apy (Video Recording)	hogenesis of COPD:
		Takeshi Kaneko (Yoko	ohama City University, Japan)	



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 Coll	ege of Medicine, Republic of Korea)	
14:25-14:45	S24-2	Con: Application of B Management of COP	-	ence to Current Clinical Practice in the	
		Konstantinos Kostika	s (University of Ioannina, Greece	e)	
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					
Chairs Chieh-Liang Wu (Taichung Veterans General Hospital, Taiwan) Jae Hwa Cho (Yonsei University College of Medicine, Republic of Korea)					
14:00-14:30	S25-1	Treatment of miscell	aneous pulmonary infections:	actinomycosis and cryptococcosis	
14.00-14.50		Hyun Lee (Hanyang U	niversity College of Medicine, Repu	ublic of Korea)	
14:30-15:00	S25-2	Recent Advances in	the Aspiration Pneumonia		
14.50-15.00		Chieh-Liang Wu (Taio	chung Veterans General Hospital, T	āiwan)	
15:00 15:00	S25-3	Advances in the Man	agement of Fungal Pneumonia	in Critically III Patients	
15:00-15:30		Jin-won Huh (Univers	ity of Ulsan College of Medicine, Re	epublic of Korea)	

Symposium 26		14:00-15:30	Grand Ballroom 102 (1F)		
Critical Care Medicine - Meet the Professor					
Sang Bum Hong (University of Ulsan College of Medicine, Republic of Korea)					
S26-1	ARDS, Beyond & Next				
	Carolyn S. Calfee (University of California, San Francisco, U.S.A.)				
Discussion					
	Sang Bum	Sang Bum Hong (University of Ulsar S26-1 ARDS, Beyond & Nex Carolyn S. Calfee (Un	Sang Bum Hong (University of Ulsan College of Medicine, Republic of Sang Bum Hong) ARDS, Beyond & Next Carolyn S. Calfee (University of California, San Francisco		

Symposium 27			15:50-17:20	Auditorium (3F)	
Interstitial Lung Disease - Interstitial Lung Abnormalities: State of the Art					
Chairs	Chairs 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			
15.50-16.20		Takeshi Johkoh (Kans	sai Rosai Hospital, Japan)		
16:20-16:50	S27-2	Evaluation of ILA by	Automatic Quantification System		
10.20-10.50		Grace H. Kim (UCLA, U	J.S.A.)		
16.50 17.20	607.3	ILA in Asian Population	on		
16:50-17:20	S27-3	Gong Yong Jin (Jeonb	uk National University, Republic of Kore	a)	

Symposium 28			15:50-17:20	Grand Ballroom 101 (1F)	
Environmental & Occupational Health and Epidemiology - The Past, Present, and Future of Occupational Health Surveillance					
Chairs Martie Van Tongeren (The University of Manchester, United Kingdom) Woo Jin Kim (Kangwon National University School of Medicine, Republic of Korea)					
15:50-16:20	S28-1	UK Occupational and Environmental Surveillance Program			
15.50-16.20		Martie Van Tongerer	(The University of Mancheste	er, United Kingdom)	
16:20-16:50	S28-2		noparticle Exposured Worke nction, Japan Experience	ers and	
		Akira Ogami (Universi	ity of Occupational and Enviror	nmental Health, Japan)	
16:50-17:20	S28-3	Hospital Based Natio	n-Wide Survillance of Asbes	stos Related Diseases in Korea	
10.30-17.20	320-3	Jun-Pyo Myong (The	Catholic University of Korea Co	ollege of Medicine, Republic of Korea)	

Symposium	Symposium 29		15:50-17:20	Grand Ballroom 102 (1F)			
Clinical Allergy	Clinical Allergy & Immunology - Advances in Clinical Allergy and Immunology						
Chairs	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					
15.50-10.20		Asger Sverrild (Unive	rsity Hospital Bispebjerg, Denmarl	<)			
16:20-16:50	S29-2	Diagnosis and Treatr	ment of ABPA				
10.20-10.50		Koichiro Asano (Toka	i University School of Medicine, Ja	pan)			
16:50-17:20	S29-3	Treatment of Biologic	cs in Comorbidities of Asthma				
10.50-17.20	329-3	Ji-yong Moon (Hanya	ng University College of Medicine,	Republic of Korea)			



Luncheon Symposium 7 12:50-13:50 Grand Ballroom 101 (1F)

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Asthma		
Chair	Hyoungkyu Yoon (Yeouido ST. Mary's Hospital, The Catholic University of Korea College of Medicine, Republic of Korea)	
		SAD in Asthma
12:50-13:50	LS07-1	Omar S Usmani (National Heart and Lung Institute (NHLI), Imperial College London, United Kingdom)

Luncheon Symposium 8 12:50-13:50 Grand Ballroom 102 (1F)

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Progressive Fi	brosing Inter	stitial Lung Diseases (PF-ILD)-Management Strategies in Clinical Practice	
Chair	Jin Woo Song (University of Ulsan College of Medicine, Republic of Korea)		
12:50-12:55	Welcome	Welcome & Introduction	
1055 1015	1.500.4	Diagnosis for Progression & Monitoring in PF-ILD	
12:55-13:15	LS08-1	Sun Mi Choi (Seoul National University College of Medicine, Republic of Korea)	
13:15-13:40	LS08-2	Current Treatment Approaches in PFILD and Treatment Initiation Criteria with RWE Patient Cases	
		Toby Maher (University of Southern California, U.S.A.)	
13:25-13:45	Discussion	 Sun Mi Choi (Seoul National University College of Medicine, Republic of Korea) Toby Maher (University of Southern California, U.S.A.) 	
13:45-13:50	Summary	& Conclusion	

Luncheon Symposium 9 12:50-13:50 Grand Ballroom 103 (1F)

Sponsored by Boryung Co.

Airway Disease - In-depth Review of Mucus		
Chair	Seong Yong Lim (Sungkyunkwan University School of Medicine, Republic of Korea)	
12:50 12:50	1.000.1	Recent Update Chronic Bronchitis
12:50-13:50 LS09-1	Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)	

Luncheon Symposium 10 12:50-13:50 Grand Ballroom 104 (1F)

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Severe Asthma		
Chair	Joo Hun Park (Ajou University School of Medicine, Republic of Korea)	
12:50-13:50	LS10-1	'First Do No Harm': Using Biomarkers and Biologics to Minimize Systemic Steroid Exposure in Asthma
		David Jackson (Guy's and St Thomas' Hospital, King's College London, United Kingdom)

Luncheon Symposium 11 12:50-13:50 Grand Ballroom 105 (1F)

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Cancer			
Chair	Sung Yong Lee (Korea University College of Medicine, Republic of Korea)		
12:50-13:50	LS11-1	Reimagine More TOMORROWs Together with Pembrolizumab in the 1st-line mNSCLC Treatment	
		Seong-Hoon Yoon (Pusan National University Yangsan Hospital, Republic of Korea)	

Luncheon Symposium 12 12:50-13:50 ASEM Ballroom 202 + 203 (2F)

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Asthma		
Chair	Yeon-Mok Oh (University of Ulsan College of Medicine, Republic of Korea)	
12:50-13:40	LS12-1	Simplified Triple Therapy for Asthma
12.50-15.40		Kenneth R. Chapman (Toronto General Hospital Research Institute, Canada)
13:40-13:50	Q&A	

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Evening Symposium 7	17:30-18:30	Grand Ballroom 101 (1F)

Sponsored by bioMerieux Asia Pacific Pte Ltd

Chair	Young Sa	m 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)
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Sponsored by Abbott Korea

Asthma		
Chair	Do-Jin Kir	n (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)
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Sponsored by GSK

Asthma		
Chair	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
		Nobert Berend (University of Sydney, Australia)
17:55-18:20	ES09-2	Role of lama 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)
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Sponsored by Ildong Pharmaceutical

IPF				
Chair Moo Suk Park (Yonsei University College of Medicine, Republic of Korea)				
47,00 40,0F FC40 4		Pirfenidone in Progressive Fibrosing ILD		
17:30-18:05	ES10-1	Takafumi Suda (Hamamatsu University School of Medicine, Japan)		
	ES10-2	Efficacy of Lowe Dose Pirfenidone for the Treatment of IPF		
18:05-18:30		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)
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Sponsored by sanofi

Asthma				
Chair	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		
17.30-18.30	E311-1	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
17.30-10.30	E3 12-1	Sai-Hong Ignatius (University of California, U.S.A.)



20 November

Ceynote & Invi	ited Lectur	e	08:10-09:10	Auditorium (3F)
Chairs			ty School of Medicine, Republic of Korea ty College of Medicine, Republic of Korea	
08:10-08:40	[Keynote Lecture Shorter Treatmen		or Tuberculosis: Where Do We Stand	?
		Jae-Joon Yim (Seoul I	ne-Joon Yim (Seoul National University College of Medicine, Republic of Korea)	
08:40-09:10 PL03-2 Role of Proteina		[Invited Lecture] Role of Proteinases	and the Extracellular Matrix in ARDS	Pathobiology
		Gregory P. Downey	P. Downey (University of Colorado School of Medicine, U.S.A.)	

Symposium	Symposium 30		09:20-10:50	Grand Ballroom 101 (1F)
Critical Care Me	edicine - Reo	rganizing ICU after COVII	D-19 Pandemic	
Chairs		a (National University Ho: Lee (Seoul National Unive	spital, Singapore) ersity College of Medicine, Republic	of Korea)
09:20-09:50	Therapeutics of C		ical COVID-19 Patients	
09.20-09.50	330-1	Carolyn S. Calfee (Un	niversity of California, San Francisco), U.S.A.)
09:50-10:20	C20.2	Management of Acu	te Respiratory Failure in COVID-	-19
09.50-10.20	Jason Phua (Nationa		University Hospital, Singapore)	
10:20 10:50	Reorganizing ICU aft		er COVID-19 Pandemic	
10:20-10:50	S30-3	Young-Jae Cho (Seoul National University College of Medicine, Republic of Korea)		

Symposium 31		09:20-10:50	Grand Ballroom 102 (1F)		
Lung Cancer - F	Lung Cancer - Palliative Care in Patients with Lung Cancer				
Chairs			sia, Persahabatan Hospital, Indor In College of Medicine, Republic		
09:20-09:50	S31-1	Evolution of Palliativ	e Care and Models of Care De	elivery	
09.20-09.50	33 1-1	David Hui (MD Anders	son Cancer Center, U.S.A.)		
09:50-10:20	Benefits and Barr		s of Early Integrated Palliative	e Care in Lung Cancer Patients	
09.50-10.20	S31-2	Hye Ryoun Kim (Kore	a Institute of Radiological and M	ledical Sciences, Republic of Korea)	
10:20 10:50	C24.2	Symptom Relief Man	agement in End-of Life Care		
10.20-10.50	10:20-10:50 S31-3	So Young Park (Hallyr	m University College of Medicine	e, Republic of Korea)	

Young Investigator Awards 2		ards 2	15:50-17:20	Grand Ballroom 104 (1F
Chair	Kwang Ha	Yoo (Konkuk University S	School of Medicine, Republic of Kore	ea)
15:50-15:58	YIA-2-1		ility of Individual Inflammatory N rospective Cohort Study	Markers in Predicting Critical COVID
13.30 13.30	11/12	Catherine Jordan (Ph	ilippines)*, Ma. Janeth Samson	
			romagnetic navigation bronchos g bronchus sign positive pulmor	
15:58-16:06	YIA-2-2	Yeon Wook Kim (Republic of Korea)*, Hyung-Jun Kim, Sung Hyun Yoon, Myung Jin Song, Byoung Soo Kwon, Sung Yoon Lim, Yeon Joo Lee, Jong Sun Park, Young-Jae Cho, Jae Ho Lee, Choon-Taek Lee		
		Analysis of brain fun	ctional connectivity in COPD pat	ients with functional brain MRI
16:06-16:14	YIA-2-3	Yoomi Yeo (Republic on Dong Woo Park, Tae-H	of Korea)*, Ji Tak Rhu, Hanjoon Jo, Su yung Kim	ung-Ho Jang, Joonho Choi,
45:4 / 45:00	V/IA Q E	Children respiratory poor air quality.	health during Covid-19 lockdow	n and after 6-month re-exposure to
16:14-16:22 YIA-2-5		n Pham, Vinh Nguyen, Robert Ware Jang Tran, Hien To, Peter Sly	e, Dung Phung, Phong Thai,	
46.00 46.00	V/IA 2 6	Clinical Significance Obstructive Pulmona		Patients Diagnosed with Chronic
16:22-16:30	YIA-2-6	Yun Seok Kim (Repub Yong Bum Park, Joon Y	lic of Korea)*, Kwang Ha Yoo, Chin K oung Choi	ook Rhee, Ki-Suck Jung,
16:30-16:38	YIA-2-7	Late diagnosis of Cor recurrent respirator	ngenital Pulmonary Airway Malf y symptoms	ormation (CPAM) in a child with
		Sokchinda Kong (Can	nbodia)*, Khemuoy Um, Michael Wa	
16:20 16:76	VIA 2 0	Tuberculous Lympha High-Burden Countr		From a Referral Tertiary Hospital in
16:38-16:46	YIA-2-8	Muhammad Akbar T Nataprawira, Heda Mel	irtosudiro (Indonesia)*, Usman, He inda	rmin Aminah, Cesilia Citra,
16:46-16:54	YIA-2-9		l eosinophil count and clinical ou atients: A prospective study	tcomes in Thai chronic obstructive
		Punchalee Kaenmuang (Thailand)*, Siwasak Juthong, Sirikorn Densrisereekul		rikorn Densrisereekul
16:54-17:02	YIA-2-10	Low compliance fact at dr. zainoel abidin l	ors of NSCLC patients who refus hospital banda aceh	se chemotherapy
		Juvenita Sartika Dew	🖟 (Indonesia)*, Ferry Dwi Kurniawan	, Irmaini Irmaini, Novita Andayani
17:02-17:10	YIA-2-11	Remote telemonitor the Sarawak experie	ing among patients on home no nce	n-invasive ventilation (NIV):
		Mei Ching Yong (Mala	aysia)*, Sze Shyang Kho, Swee Kim (Chan, Siew Teck Tie



Symposium 32		09:20-10:50	Grand Ballroom 103 (1F)	
Interstitial Lung Disease - Meet the Professor				
Chair Moo Suk PARK (Yonsei University College of Medicine, Republic of Korea)		rea)		
00:20 10:50	The Role of Genetics		in Idiopathic Pulmonary Fibros	sis
09:20-10:50 S32-1	David A. Schwartz (University of Colorado School of Medicine, U.S.A.)			

Symposium 33		11:10-12:40	Grand Ballroom 101 (1F)		
Asthma - Bioma	arker and Ger	netic Marker in Severe As	thma		
Chairs	Olivia Carroll (The University of Newcastle and the Priority Research Centre for Healthy Lungs, Hunter Medical Research Institute - Newcastle, Australia) Yong Bum Park (Hallym University College of Medicine, Republic of Korea)				
11:10-11:40	Biomarker for Seve		e Asthma		
11.10 11.40	Nicola Hanania (Baylor College of Medicine, U.S.A.)				
11:40-12:10	Microbiome in Seve		e Asthma		
11.40-12.10	S33-2	Jung-Kyu Lee (Seoul)	National University, Republic of I	Korea)	
12:10 12:70	S33-3	Eosinophil-Mucus Co	omplex Interplay in Severe As	thma	
12:10-12:40	555-5	Parameswaran Nair (McMaster University, Canada)			

Symposium	Symposium 34		11:10-12:40	Grand Ballroom 102 (1F)
Clinical Respira	Clinical Respiratory Medicine - From Cough to Exacerbation			
Chairs	Chairs Anne E. Vertigan (The University of Newcastle, Australia) Jin Woo Kim (The Catholic University of Korea College of Medicine, Republic of Korea)			Republic of Korea)
11:10-11:40	S34-1	Heterogenous Aspec	ct of Chronic Cough: Differing	g Profile
11.10-11.40	334-1	Hyeon-Kyoung Koo (Inje University College of Medicir	ne, Republic of Korea)
11:40-12:10	S34-2	What to do and wher	re to go with exacerbations of	f COPD?
11.40-12.10	554-2	Mona Bafadhel (King'	s College London, United Kingdo	om)
12:10-12:40	534-3	The State of the Art	for Refractory Cough: Multid	isciplinary Approach
12.10-12.40	334-3	Anne E. Vertigan (The	e University of Newcastle, Austra	alia)

Symposium 35		11:10-12:40	Grand Ballroom 103 (1F)	
COPD - Early CC)PD			
Chairs Don Sin (University of British Columbia, St. Paul Hospital, Canada) Seung Won Ra (University of Ulsan College of Medicine, Republic of Korea)				
11:10-11:40	S35-1	Importance of Early (COPD in Young Adults for Deve	elopment of Clinical COPD
11.10-11.40	222-1	Don Sin (University of I	British Columbia, St. Paul Hospita	ıl, Canada)
11:40-12:10	S35-2	Defining of Early COF	PD in Korea	
11.40-12.10	555-2	Youlim Kim (Konkuk U	Iniversity School of Medicine, Rep	oublic of Korea)
10:10 10:70	625.2	Early Intervention of	COPD with Mild Airflow Limita	tion
12:10-12:40	S35-3	Diahn-Warng Perng	Taipei Veterans General Hospital	l, Taiwan)

APSR-GOLD Joint Session		09:20-11:00	Auditorium (3F)	
Updates of the GOLD Strategy and Its Implementation into Asia				
Chair	David Hui (The Chinese University o	David Hui (The Chinese University of Hong Kong, Hong Kong)		
09:20-09:50	GOLD Update Presentation			
09.20-09.50	Don Sin (University of British Columbia, St. Paul Hospital, Canada)			
09:50-10:15	Implementation of the GOLD Strate- - Comparison of the GOLD Strate	tegy into a Local COPD Guideline gy vs. the Korean COPD Guideline.		
	Yeon-Mok Oh (University of Ulsan C	ollege of Medicine, Republic of Korea)		
10:15-10:40	Management of COPD in Asia			
10.15-10.40	Chin Kook Rhee (The Catholic University of Korea College of Medicine, Republic of Korea)			
10:40-11:00	· · · · · · · · · · · · · · · · · · ·	College of Medicine, Republic of Korea) versity of Korea College of Medicine, Republic of Korea) nbia, St. Paul Hospital, Canada)		

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ORAL PRESENTATION & POSTER EXHIBITION

 18 November
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ORAL PRESENTATION

18 November

Oral 1		09:20-10:50	Grand Ballroom 104 (1F)
Asthma			
Chair	Yu-II Kim	Chonnam National University Medical School, Republic of Korea)	
		Severe asthma is associated with the adverse COVID-19 ou	tcome - A Big Data Study
09:20-09:30	A001-1	Jong Seung Kim (Republic of Korea)*, Jae Seok Jeong, Yeon Seo Sang Woo Yeom, Yong Chul Lee	k You, Jong-Hwan Lee,
		Demographic and Clinical Characteristics of Patients with S Pacific Region: data from the International Severe Asthma	
09:30-09:40	A001-2	David Price (United Kingdom)*, Chin Kook Rhee, Trung N. Tran, R Matthew Peters, Eve Denton, John W. Upham, Philip Bardin, Belind Paul Reynolds, Christine Jenkins, Diahn-Warng Perng, Hao-Chien Ming-Ju Tsai, Erick Wan-Chun Huang, Ying-Chun Chien, Jeng-Yua Ching-Hsiung Lin, Sheng-Hao Lin, Sheng-Yeh Shen, Shih-Feng Lin Horng-Chyuan Lin, Ming-Shian Lin, Chu-Kuang Chou, Sundeep Sa Takashi Iwanaga, Yuji Tohda, Hajime Fujimoto, Hiroshi Tanaka, Kaz Mayumi Matsunaga, Hozawa Soichiro, Takao Fujisawa, Tatsuya Na Tsuyoshi Oguma, Yoshihiro Nishimura, Lakmini Bulathsinhala, Indu Derek Skinner, Victoria Carter, Chris Price, Ruth Murray	da Cochrane, Peter G Middleton, Wang, Chau-Chyun Sheu, an Hsu, Pin-Kuei Fu, u, Kang-Yun Lee, Kuo-Chin Chiu, alvi, You Sook Cho, Kwang Ha Yoo, zutaka Nogami, Kiyoshi Sekiya, gano, Tetsu Kobayashi,
		Ending the reign of short-acting β2-agonists in Australia?	
09:40-09:50 AO	A001-3	David Price (United Kingdom)*, Ruth Murray, Christine Jenkins, K Florian Heraud, Porsche Le Cheng, Sinthia Bosnic-Anticevich, Fab Angelina Catanzariti, Joe Doan, Ata Kichkin, Thao Le, Chantal Le Li Dominique Novic, John Pakos, Kanchanamala Ranasinghe, Alex Ra Anita Sharma, Bruce Willet, Eric Bateman	io Botini, Victoria Carter, evre, Chi Ming Lau,
	A001-4	Pharmacological characterization of T cell-dependent sterousing several kinase inhibitors	oid-resistant asthma model
09:50-10:00		Akio Mori (Japan)*, Satoshi Kouyama, Akemi Ohtomo-Abe, Yuich Yuto Nakamura, Yuto Hamada, Yosuke Kamide, Kiyoshi Sekiya, Yu Osamu Kaminuma	
		Dupilumab sustains improvements in clinical efficacy and r with severe, OCS-dependent asthma: LIBERTY ASTHMA TR	
10:00-10:10	A001-6	Hye Yun Park (Republic of Korea)*, Mark Gurnell, Christian Domir Andrew Menzies-Gow, David Price, Guy Brusselle, Michael E. Wecl Nami Pandit-Abid, Rebecca Gall, Juby A. Jacob-Nara, Paul J. Rowe,	hsler, Changming Xia,
		The association of short-acting β2-agonist overuse with as exacerbations: an Australian perspective	thma control and severe
10:10-10:20	David Price (United Kingdom)*. Ruth Murray. Christine Jenkins. Kerry Hancock.	io Botini, Victoria Carter, ievre, Chi Ming Lau,	
10.00 15.15		Correlation of pulmonary function measured by Forced Osc and asthma control questionnaire	cillation Technique, Spirometry
10:30-10:40	A001-8	Nagesh Dhadge (India)*, Pinaki Sengupta, Kameshwar Rao, Aner Narendra Singh Bhati, Reenkal Ahire	esha Mohan,

Oral 2		09:20-10:30	Grand Ballroom 105 (1F)
Cell and Mole	ecular Biolog	у	
Chair	Sei Won L	ee (University of Ulsan College of Medicine, Republic of Korea)	
00:20 00:20	A002-1	CVA11 infection exerts potent immunogenic oncolytic mesothelioma via ICAM-1 receptor	activity in human malignant pleural
09:20-09:30	AUU2-1	Koji Okamura (Japan)*, Hiroyuki Inoue, Kentaro Tanaka, Yuk Yasuto Yoneshima, Eiji Iwama, Isamu Okamoto	i Ikematsu, Rie Furukawa, Keiichi Ota,
		Study of genetic variability of production strains of M.	bovis BCG
09:30-9:40 AO	A002-2	Dmytro Butov (Ukraine)*, Oleksii Solodiankin Natalia Rudov Michael Harris, Madeline Galac, Brendan Jeffrey, Andriy Zavh Tetiana Butova, Olga Bilogortseva, Valery Minukhin, Nadiya Si Anton Tkachenko	orodnii, Anatoly Gerilovych,
09:40-09:50	A002-3	Glyoxalase-1 is essential for the definitive endoderm a pluripotent stem cells	nd alveolar development of human
		Suji Jeong (Republic of Korea)*, Hyebin Koh, Jong-Hee Lee,	Seok-Ho Hong
00:50 10:00	4002 /	GHS-R1a deficiency mitigates lipopolysaccharide-indu downregulation of macrophage activity	iced lung injury in mice via the
09:50-10:00	A002-4	Hironobu Tsubouchi (Japan)*, Ryota Tanida, Shigehisa Yana Masamitsu Nakazato	agi, Takafumi Shigekusa, Taiga Miyazaki,
		Therapeutic blockade of SIRT1 in lipopolysaccharide-in	nduced acute lung injury in mice
10:00-10:10	A002-5	Hyejoo Bae (Republic of Korea)*, Wankyu Kim, Hae Jin Park, Yeong Hun Choe, Jae Seok Jeong, Yong Chul Lee	, Kyung Hwa Park, So Ri Kim,
10:10 10:20	A002-6	Curcumin-like diarylpentanoid analogues inhibit influe pro-inflammatory cytokines production in A549 lung e	
10:10-10:20	AUU2-0	Kong Yen Liew (Malaysia)*, Hui-Yee Chee, Faridah Abas, Sze Daud Ahmad Israf, Chau Ling Tham	e Wei Leong, Hanis Hazeera Harith,



Oral 3		09:20-10:50 ASEM Ballroom 202 + 203
Interstitial Lu	ıng Disease	
Chair	Yong Hyu	Kim (The Catholic University of Korea College of Medicine, Republic of Korea)
09:20-09:30	4002.4	Short leukocyte telomere lengths correlate with poorer survival and absolute FVC decline from baseline independent of ILD diagnosis
	A003-1	Michelle Li Wei Kam (Singapore)*, Siao Ting Chong, Ee Ling Chew, Sock Hoai Chan, Nur Diana Bte Ishak, Su Ying Low, Joanne Yuen Yie Ngeow
00:20 00:70	4003.3	Role of ornithine aminotransferase in idiopathic pulmonary fibrosis: lung function decline and fibrogenesis
09:30-09:40	A003-2	Sung Woo Park (Republic of Korea)*, Jong-Uk Lee, Jisu Hong, Hyesun Shin, Ae-Rin Baek, An Soo Jang, Do Jin Kim
		Direct hemoperfusion with polymyxin B-immobilized fibre column for acute exacerbation of idiopathic pulmonary fibrosis: A nationwide observational study
09:40-09:50	A003-3	Nobuyasu Awano (Japan)*, Taisuke Jo, Takehiro Izumo, Minoru Inomata, Naoyuki Kuse, Keita Sakamoto, Yutaka Muto, Kazushi Fujimoto, Yoshihiro Furukawa, Kojiro Morita, Hiroki Matsui, Kiyohide Fushimi, Takahide Nagase, Hideo Yasunaga
09:50-10:00	A003-4	Impact of initial dose of corticosteroid on clinical outcomes in acute exacerbation of idiopathic pulmonary fibrosis
	7,000	Kwonhyung Hyung (Republic of Korea)*, Jimyung Park, Sun Mi Choi
		Monocyte Counts and the Clinical Outcomes in the Idiopathic Nonspecific Interstitial Pneumonia
10:00-10:10	A003-5	Tae Hun Kim (Republic of Korea)*, Hyung-Jun Kim, Myung Jin Song, Byoung Soo Kwon, Yeon Wook Kim, Sung Yoon Lim, Yeon Joo Lee, Young-Jae Cho, Jae Ho Lee, Choon-Taek Lee, Jong Sun Park
		Therapeutic potential of an indole derivative in fatal fibrosing interstitial lung diseases
10:10-10:20	A003-6	Yeogha Yoon (Republic of Korea)*, Wankyu Kim, Hae Jin Park, Kyung Hwa Park, So Ri Kim, Yeong Hun Choe, Jae Seok Jeong, Yong Chul Lee
10:20-10:30	A003-7	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 Woo, Song Yee Kim, Chang Hoon Han, Moo Suk Park
10:20 10:70	4003.0	Immunogenicity and safety of ChAdOx1 nCoV-19 vaccine in interstitial lung disease patients with immunosuppressive therapy
10:30-10:40	A003-8	Tinn Hongboontry (Thailand)*, Sasipak Nithiworanan. Amornpun Wongkarnjana, Picha Pattrapruettada, Supparerk Disayabutr

Oral 4		11:10-12:40	Grand Ballroom 104 (1F)
Tuberculosis	- Drug Sensit	ive Tuberculosis	
Chair	Young Ae	Kang (Yonsei University College of Medicine, Republic of Korea)	
11.10.11.00	100/ 1	Comparison of active tuberculosis case finding strategies for i epidemiology and cost-effectiveness analysis	mmigrants in South Korea:
11:10-11:20	A004-1	Yedham Kang (Republic of Korea)*, Sangwook Park, Chaegyu Sung, Hee-Jin Kim, Hae-Young Kim, In-Hwan Oh, Seung Heon Lee	Hangseok Choi, Yeo Wool Lee,
11,20 11,20	100/ 2	People with disabilities are at risk of tuberculosis: a nationwide	e serial cross-sectional study
11:20-11:30	A004-2	Jinsoo Min (Republic of Korea)*, So Young Kim, Jong Eun Park, Yeon	Yong Kim, Jong Hyock Park
11:30-11:40 A004-3	Diagnostic performance of XPERT-MTB/RIF and XPERT-MTB/R pleural biopsy specimens for diagnosing pleural tuberculosis - A single center experience of 534 patients.	RIF Ultra on thoracoscopic	
		Chetan Rao Vaddepally (India)*, Virender Pratibh Prasad, Abdul Nas Venkata Nagarjuna Maturu	seer Mohammed,
11:40-11:50	A004-4	Clinical course and risk factors associated with paradoxical res mediastinal lymph node tuberculosis	sponses in patients with
11.40-11.50	AUU4-4	Areum Han (Republic of Korea)*, Junsu Choe, Sun Hye Shin, Hongse Kyungjong Lee, Kyeongman Jeon, Sang-Won Um, Hojoong Kim, Byeo	
44.50.40.00	4007.5	Comparison of different types of fixed-dose combination regire tuberculosis in elderly patients in Taiwan	men for treatment of
11:50-12:00	A004-5	Ko-Yun Chang (Taiwan)*, Shin-Shin Liu, Yu-Che Lee, Hui-Chen Chen Wei-Chang Huang	, Ming-Feng Wu,
12:00-12:10	A004-6	The treatment outcome of pulmonary tuberculosis with or wit patients under or over the age of 80 in Osaka city, Japan.	hout pyrazinamide for
12.00	7.00.0	Myung Mi Cho (Japan)*, Jun Komukai, Tetsuo Morimoto	
12:10 12:20	A004-7	Real-world experience of rifampicin sparing treatment for dru tuberculosis	g-susceptible pulmonary
12:10-12:20	AUU4-7	Hyung-Jun Kim (Republic of Korea)*, Myung Jin Song, Byoung Sook Sung Yoon Lim, Yeon-Joo Lee, Jong Sun Park, Young-Jae Cho, Choon	



Oral 5		11:10-12:30 Grand Ballroom 105 (1F)
Lung Cancer	- Basic resea	rch and Screening
Chair	Young Ky	oon Kim (The Catholic University of Korea College of Medicine, Republic of Korea)
11:10-11:20	A005-1	Study on the mechanism of msc-mirna-198-exos regulating mapk1 in malignant pleural effusion associated with non-small cell lung cancer
		Yanan Wang (China (Mainland))*, Yan Gu
11:20-11:30	A005-2	KCNK3 inhibits proliferation and glucose metabolism of lung adenocarcinoma via activation of AMPK-TXNIP pathway
		Lanlan Lin (China (Mainland))*, Xiaohui Chen, Guofu Lin, Yuan Xu, Yiming Zeng
11:0-11:40	A005-3	Integrated profiling of endoplasmic reticulum stress-related DERL3 in prognostic and immune features of lung adenocarcinoma
		Lanlan Lin (China (Mainland))*, Guofu Lin, Xiaohui Chen, Yuan Xu, Yiming Zeng
11:40-11:50 A005-4	A005-4	Pilot study: comparative analysis of immune related gene expression in lung adenocarcinoma tissues between never smokers, non-emphysematous smokers and emphysematous lungs
		Jeong Uk Lim (Republic of Korea)*, Tai Joon An, Young Jo Sa, Chan Kwon Park, Hyoung Kyu Yoon, Tae-Jung Kim
		Single-cell RNA sequencing reveals distinct molecular features of high-grade lung adenocarcinoma subtypes.
11:50-12:00	A005-5	Shin Yup Lee (Republic of Korea)*, Jusung Lee, Ji Yun Jeong, Jong Kyung Kim, Mi Jeong Hong, Jin Eun Choi, Hyo-Gyoung Kang, Jang Hyuck Lee, Sunwoong Lee, Young Woo Do, Eung Bae Lee, Ji Eun Park, Sun Ha Choi, Hye Won Seo, Yong Hoon Lee, Seung Soo Yoo, Jaehee Lee, Seung Ick Cha, Chang Ho Kim, Jae Yong Park
		Artificial intelligence-based personalized survival prediction using clinical and radiomics features in patients with advanced non-small cell lung cancer
12:00-12:10	A005-6	Junji Koyama (Japan)*, Masahiro Morise, Taiki Furukawa, Shintaro Oyama, Reiko Matsuzawa, Ichidai Tanaka, Keiko Wakahara, Hideo Yokota, Tomoki Kimura, Yoshimune Shiratori, Yasuhiro Kondoh, Naozumi Hashimoto
12:10 12:20	4005.7	Lung Cancer Screening with Low-Dose CT in Never Smokers and Smokers: the real-world data in South Korea
12:10-12:20	A005-7	Yunjoo Im (Republic of Korea)*, Chohee Kim, Jinyoung Lee, Jung Hye Hwang, Sun Hye Shin, Byeong-Ho Jeong, Kyungjong Lee, Hojoong Kim, Ho Yun Lee, Sang-Won Um
10:00 10:00	4005.0	Assessment of traditional risk factors in Lung Cancer Patients who do not fit into NLST criteria
12:20-12:30	A005-8	Sean Chee Hong Loh (Singapore)*, Jiashen Zhao, Daniel Jia Ming Ang, Wui Mei Chew, Jansen Meng Kwang Koh

Oral 6		11:10-12:40	ASEM Ballroom 202+203 (2F)
Respiratory I	Infections (n	on-tuberculous) - Covid-19 infection - Diagnosis and Prediction	ve factors
Chair	Jang-Wor	Sohn (Hanyang University College of Medicine, Republic of Kord	ea)
11:10-11:20	A006-1	The correlation of serum fibrinogen levels and the degr COVID-19 patients using post mortem core biopsy	ee of pulmonary fibrosis among
		Adhitri Anggoro (Indonesia)*, Isnin Anang Marhana, Etty Har	ry Kusumastuti
		Clinical characteristics and risk factors associated with at Bussarakham Field Hospital, Thailand	mortality of patients with COVID-19
11:20-11:30	A006-2	Thotsaporn Morasert (Thailand)*, Kittisak Agsornwong, Kor Osaree Akaraborworn, Jintana Srisompong, Direk Deesiri, Kav Sangnak, Nitipatana Chierakul	
11,20, 11,70	4000 3	Exploratory study of predictive factors of disease progr COVID-19	ression in the early stage of
11:30-11:40	A006-3	Yoshifumi Suzuki (Japan)*, Tetsutaro Nagaoka, Yuichi Nagat Sachiko Kuriyama, Yoko Tabe, Kazuhisa Takahashi	a, Takashi Yoshida, Takeo Tsutsumi,
	A006-4	Prognostic factors for pulmonary fibrosis followed by p	neumonia in patient with COVID-19
11:40-11:50		Inhan Lee (Republic of Korea)*, Joohae Kim, Ji Yeon Lee, Ina J Min-Kyung Kim, Jaehyun Jeon, Bum Sik Chin, Yeonjae Kim, Yo Junghyun Kim	0 ,
11:50-12:00		Association between Cardiovascular Diseases with Pnet in Jakarta, Indonesia: a Retrospective Cohort Multi-cen	
11.50-12.00	A006-5	Farhan Mubarak (Indonesia)*, Erlina Burhan, Siti Aliyah Said Efriadi Ismail, Puji Astuti	Utriyani, Cut Yulia Indah Sari,
12:00 12:10	A006-6	The Changes in Antibody Responses Induced by the BN Healthcare Workers in a Single Community Hospital in J	
12:00-12:10	A006-6	Shinya Otsuka (Japan)*, Kei Hiraoka, Masato Suzuoki, Hideki Kazuya Yonezawa, Keiji Oguma, Nozomu Iwashiro, Mototsugu	
12:10-12:20	A006-7	'Long covid' is more common, underestimated, importa care setting: Prospective, observational and intervention tertiary care setting in India.	
		Shital Patil (India)*, Rajesh Patil, Gajanan Gondhali, Laxman K Ganesh Narwade, Abhijit Acharya	asture, Uttreshwar Dhumal,



Oral 7		14:00-15:30 Grand Ballroom 104 (1F)
COPD		
Chair	So Ri Kim	(Chonbuk National University Medical School, Republic of Korea)
14:00-14:10		The effect of N-acetylcysteine nebulizer therapy on chronic obstructive pulmonary disease
	A007-1	Chin Kook Rhee (Republic of Korea)*, Seong Yong Lim, Won-Yeon Lee, Ji Ye Jung, Yong Bum Park, Chang Youl Lee, Yong II Hwang, Jin Woo Song, Won-II Choi, Kwang Ha Yoo
		Association of N-terminal proB-type Natriuretic Peptide (NT-proBNP) with airflow limitation and exacerbation in COPD
14:10-14:20	A007-2	Hey Soo Kim (Republic of Korea)*, Youlim Kim, Ji yong Moon, Yong Bum Park, Kyeong-Cheol Shin, Deog Kyeom Kim, Yong II Hwang, kyung Hoon Min, Su Jung Um, Woo Jin Kim, Hyung Gyu Yoon, Kwang Ha Yoo, Ki Suk Kwon, Jun Kuk Lee, Ji Ye Jung
14:20-14:30 A007-3	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
14:30-14:40 A007-4	A007-4	Identification of hub genes of airway epithelial cells in chronic obstructive pulmonary disease
		Lanlan Lin (China (Mainland))*, Xiaohui Chen, Yuan Xu, Yiming Zeng
		Image standardization through kernel conversion of CT in KOCOSS cohort
14:40-14:50	A007-5	Youlim Kim (Republic of Korea)*, Sojung Shin, Hyun Lee, Chin Kook Rhee, Yong Bum Park, Ki Suck Jung, Kwang Ha Yoo, Kum Ju Chae
4 / - 50 4 5 - 00	4007.6	Risk of tuberculosis caused by fluticasone propionate versus budesonide in chronic obstructive pulmonary disease: a nationwide population based study
14:50-15:00	A007-6	Iseul Yu (Republic of Korea)*, Se Hwa Hong, Sunmin Park, Min-Seok Chang, Seok Jeong Lee, Suk Joong Yong, Won-Yeon Lee, Sang-Ha Kim, Ji-Ho Lee
45,00 45,40	4007.7	Association of 18FFDG uptake in semi-quantitative PET/CT with emphysema progression in smokers: a retrospective observational study
15:00-15:10	A007-7	Kensuke Fukuda (Japan)*, Hirotaka Matsuzaki, Yukihiro Nomura, Takahiro Nakao, Toshihiro Yamaguchi, Shouhei Hanaoka, Akira Saito, Takahide Nagase, Takeharu Yoshikawa
		COPD is a risk factor for COVID-19, but does not confer increased severity of the disease
15:10-15:20	A007-8	Jong Seung Kim (Republic of Korea)*, Jae Seok Jeong, Yeon Seok You, Jong-Hwan Lee, Sang Woo Yeom, Yong Chul Lee

Oral 8		14:00-15:30	Grand Ballroom 105 (1F)
Lung Cancer	- Diagnosis	and Epidemiology	
Chair	Seung Joon Kim (The Catholic University of Korea College of Medicine, Republic of Korea)		lic of Korea)
1/:00 1/:10	A008-1	Clinical utility of endobronchial ultrasound-guided transbro clinical N1 non-small cell lung cancer patients	onchial needle aspiration in
14:00-14:10	AU08-1	Bo-Guen Kim (Republic of Korea)*, Sun Hye Shin, Hongseok Yoo, Hojoong Kim, Jong Ho Cho, Jhingook Kim, Young Mog Shim, Byed	
14:10-14:20	A008-2	The superiority of bronchial washing fluid for detection of I digital PCR in lung adenocarcinoma	EGFR mutations by droplet
14.10-14.20	AU08-2	Woo Kyung Ryu (Republic of Korea)*, Seung Hyun Yong, Sang H Chi Young Kim, Yoon Soo Chang, Eun Young Kim	oon Lee, Hye Ran Gwon,
14:20-14:30	A008-3	A Prospective Phase 2 Study of Rapid Detection and EGFR- Liquid Biopsy in Advanced NSCLC Patients	TKI Initiation by EV-based BALF
	A000 3	In Ae Kim (Republic of Korea)*, Jae Young Hur, Hee Joung Kim, W	/an Seop Kim, Kye Young Lee
		Diff-Quik smears from EBUS TBNA procedures: evaluating and feasibility of whole genome sequencing (WGS)	measures of tumour cellularity
14:30-14:40	A008-4	David Fielding (Australia)*, Andrew Dalley, Mahendra Singh, Laks Haarika Chittoory, Farzad Bashirzadeh, Michael Bint, Carl Pahoff, J Sowmya Sharma, David Godbolt, Kylie Coleman, Lenore Whitfield, Katia Nones, Gunter Hartel, Peter Simpson	ung Son, Alan Hodgson,
		Successful culture of lung cancer organoid derived from cr	yo-biopsy sample of lung cancer
14:40-14:50	A008-5	Chaeuk Chung (Republic of Korea)*, Dongil Park, Dahye Lee, Yeo Da Hyun Kang, Jeong Eun Lee, Min-Kyung Yeo	n-Jae Lee, Yoonjoo Kim,
14:50-15:00	A008-6	Establishment of human lung cancer organoids using EBUS surgical tissues	S-TBNA specimens and
		Sang-Won Um (Republic of Korea)*, Mina Hwang, Seonae Jang, I	Hyeon-Jun Choi
15:00-15:10	A008-7	COX-2 and IL-6 are associated with progressive stages and advanced NSCLC	metastasis process in
		Santoso Arif (Indonesia)*, Mustang Ahmad, Munawarrah Sitti	
15:10-15:20	A008-8	The Associations of Hypertension Medication with Lung Ca	ncer Risk and related Mortality
15.10-15.20	AUU8-8	Juwhan Choi (Republic of Korea)*, Sue In Choi, Dong Won Park, S	Gung Yong Lee



Oral 9		14:00-15:30 ASEM Ballroom 202+203 (2F
Interstitial Lu	ıng Disease	
Chair	Rachel S.	Knipe (Massachusetts General Hospital, U.S.A.)
14:00-14:10 /		The preventive effects of statin on lung cancer development in patients with idiopathic pulmonary fibrosis using National Health Insurance Service Database in Korea
	A009-1	Yoo Jung Lee (Republic of Korea)*, Junghyun Nam, Eung Gu Lee, Jiwon Ryoo, Soon Seog Kwon, Yong Hyun Kim, Hye Seon Kang
1/:10 1/:20	4000 2	Health-related quality of life in a multi-ethnic Asian interstitial lung disease cohort
14:10-14:20	A009-2	Gin Tsen Chai (Singapore)*, Geak Poh Tan, Grace Phua, Hwee Pin Phua, Wei-Yen Lim, Han Yee Neo
1/20 1/20	4000 3	Monitoring of cough in patients with ILD by smartphone application: Preliminary results
14:20-14:30	A009-3	Jong Sun Park (Republic of Korea)*, Byoung Soo Kwon, Cathering Song, Jiyoung Jung
14:30-14:40	4000 6	Prognostic implication of 1-year decline in diffusing capacity in newly diagnosed IPF
14.30-14.40	A009-4	Hyeonsu Lee (Republic of Korea)*, Jimyung Park, Sun Mi Choi
14:40-14:50	A009-5	Clinical characteristics and outcomes of hypersensitivity pneumonitis in South Korea
14.40-14.30		Sungmin Zo (Republic of Korea)*, Man Pyo Chung, Hongseok Yoo
14:50-15:00		The incidence and risk factors of persistent pulmonary fibrotic change after COVID-19 infection.
14.50-15.00	A009-6	Yongjae Choi (Republic of Korea)*, Ganghee Chae, Chui Yong Park, Jin Hyoung Kim, Kwang Won Seo, Seung Won Ra, Jong Joon Ahn, Yangjin Jegal
45,00 45,40	4000 7	Quantitative evaluation of changes in three-dimensional CT density distributions in pulmonary alveolar proteinosis after GM-CSF inhalation
15:00-15:10	A009-7	Miku Oda (Japan)*, Kentaro Yamaura, Haruyuki Ishi, Hirofumi Nonaka, Takahiro Tanaka, Yoshikazu Inoue, Shinya Ohkouchi, Nobutaka Kitamura, Koh Nakata
15:10-15:20	A009-8	Acute exacerbation of progressive fibrosing interstitial lung disease: incidence and outcomes
.5.10 15.20	7.035 0	Jiyoul Yang (Republic of Korea)*, Jin Woo Song
15:20-15:30	A009-9	Impact of non-tuberculous mycobacterial pulmonary disease on clinical outcomes in idiopathic pulmonary fibrosis: a landmark analysis
13.20 13.30	7,005 5	Jin-Young Huh (Republic of Korea)*, Sehee Kim, Kyung-Wook Jo, Tae Sun Shim, Jin Woo Song

Oral 10		15:50-17:20 Grand Ballroom 105 (1
COPD		
Chair	Ji-Hyun Le	ee (CHA University, Republic of Korea)
15:50-16:00	AO10-1	Developing and Validating the NEAR Models for Integrated Prediction of the 30-day Re-exacerbation and Readmission in Patients Hospitalized with Acute Exacerbation of COPD in China
		Ye Wang (China (Mainland))*, Ruoxi He, Xiaoxia Ren, Ke Huang, Fen Dong, Jieping Lei, Ting Yang, Chen Wang
16:00-16:10	AO10-2	Validation and optimization of COPD population screener questionnaire (COPD-PS) in Chinese population: A national multicenter study
10.00-10.10	AU 10-2	Yan Chen (China (Mainland))*, Zijie Zhan, Yiming Ma, Yahong Chen, Jing Zhang, Wen Li, Zhiyi He, Jungang Xie, Haijin Zhao, Anping Xu, Kun Peng, Gang Wang, Qingping Zeng, Ting Yang, Chen Wang
16:10-16:20	A010-3	Clinical characteristics of tuberculosis-destroyed lung chronic obstructive pulmonary disease
		Tai Joon An (Republic of Korea)*, Seohyun Kim, Jeong-Uk Lim, Chan Kwon Park, Hyoung-Kyu Yoon
16:20 16:20	AO10-4	Heart-rate recovery immediately after exercise is useful in exacerbation prediction in chronic obstructive pulmonary disease when spirometry is not available
16:20-16:30	AU 10-4	Shih-Yu Chen (Taiwan)*, Chun-Kai Huang, Chia-Ling Wu, Hui-Chuan Peng, Chong-Jen Yu, Jung-Yien Chien
	A010-5	Evaluation of the effectiveness of the advanced Evidence-Based Practice (EBP) Programme – Bundle of care to prevent COPD unplanned readmission
16:30-16:40		P K Maggie Lit (Hong Kong)*, S W Ng, C E Tai, YHG Chan, MC Chow, CM Li, H C Chui, P K Ng, K L Cheng, Y M Lee, CML Li, K M Mak, KYR Lau, C Y Pong, K F Cheng, Y K Ho, SKS Wong, SLE Wong, KCH Lam
16:40-16:50	A010-6	Mobile application based pulmonary rehabilitation in patients with chronic obstructive pulmonary disease
		Chiwook Chung (Republic of Korea)*, Min-Woo Jo, Sei Won Lee
16:50-17:00	AO10-7	Prognostication using the severity classification based on Rome proposal for acute exacerbation of chronic obstructive pulmonary disease
		Hyo Jin Lee (Republic of Korea)*, Hyun Woo Lee, Jung-Kyu Lee, Tae Yeon Park, Eun Young Heo, Deog Kyeom Kim
17:00-17:10	AO10-8	Association between depression and anxiety index and frequency of acute exacerbation i chronic obstructive pulmonary disease.
17.00 17.10		Yu Jin Hong (Republic of Korea)*, Ki-Suck Jung, Kwang Ha Yoo, Chin Kook Rhee, Joon Young Choi



Oral 11 15:50-17:20 ASEM Ballroom 202+203 (2F) Critical Care Medicine - COVID Chair Chi Ryang Chung (Sungkyunkwan University School of Medicine, Republic of Korea) Clinical characteristics and risks to mortality among severe patients with COVID-19 from B.1.617.2 (Delta) variant Giap Vu Van (Viet Nam)*, Thanh Do Van, Toshie Manabe, Vuong Nong Minh, Yuji Fujikura, Dung Phan, 15:50-16:00 A011-1 Cuong Do Duy, Nguyen Nguyen Trung, Thai Nguyen Quoc, Thanh Dong Van, Chinh Luong Quoc, Dan Kambayashi, Anh Hoang Viet, Nhan Vu Van, Giang Trinh Kim, Son Do Ngoc, Chi Nguyen Van, Tuan Dang Quoc, Koichiro Kudo, Co Dao Xuan The Utility of Estimating the Shunt Fraction of Critical Patients with COVID-19 in determining the outcome of High Flow Nasal Cannula at Lung Center of the Philippines, a pilot study. 16:00-16:10 A011-2 Sheila Grail Ganangan-Mandaiyas (Philippines)*, Marvic Raymond Gabitan, Dennis Teo, Newel Nacpil Extracorporeal membrane oxygenation or prone positioning for COVID-19 acute respiratory distress syndrome: a prospective multicenter observational study 16:10-16:20 A011-3 Won-Young Kim (Republic of Korea)*, Ganghee Chae, Chi Ryang Chung, Young-Jae Cho, Jinwoo Lee, Yangjin Jegal, Junghyun Kim, Joon-Sung Joh, Tae Yun Park, Jung Hwa Hwang, Bo Da Nam, Jin Woo Song 'Radiological Phenotypes' in Covid-19 Pneumonia: Retrospective, Multicentric study of 6000 cases in tertiary care setting in India 16:20-16:30 A011-4 Shital Patil (India)*, Rajesh Patil, Gajanan Gondhali, Laxman Kasture, Uttreshwar Dhumal, Ganesh Narwade, Abhijit Acharya Comparison of pulmonary fibrosis between delta and non-delta variant periods in critically ill patients with SARS-CoV-2: A multicenter observational study in South Korea 16:30-16:40 A011-5 Jung-Wan Yoo (Republic of Korea)*, Ganghee Chae, Won-Young Kim, Chi Ryang Chung, Young-Jae Cho, Jinwoo Lee, Yangjin Jegal, Junghyun Kim, Joon-Sung Joh, Tae Yun Park, Ae-Rin Baek, Joo Hun Park, Bo Da Nam, Jung Hwa Hwang, Jin Woo Song Association of corticosteroid or paralytic use with mortality in patients with H1N1, non-H1N1/COVID-19, and COVID-19 acute respiratory distress syndrome: a nationwide cohort study A011-6 16:40-16:50 Won-Young Kim (Republic of Korea)*, Kyoung-Eun Kwon, Sun-Young Jung, Moon Seong Baek, Treatment outcomes and healthcare resource use in critically ill COVID-19 patients in Korea: a nationwide multi-center cohort study A011-7 16:50-17:00 Woo Hyun Cho (Republic of Korea)*, Jin Ho Jang, Eunjeong Son, Doosoo Jeon, Yun Seong Kim, Taehwa Kim

POSTER EXHIBITION

Poster Exhibition		
Clinical Respiratory Medicine		
1004.4	Effects of vaccination by age subgroup on the respiratory outcomes in patients with breakthrough COVID-19 infections	
AP01-1	Jieun Kang (Republic of Korea)*, Jiyeon Kang, Woo Jung Seo, So Hee Park, Hyung Koo Kang, Hyeon-Kyoung Koo, Hye Kyeong Park, Sung-Soon Lee	
AP01-2	Association between ferritin serum level and oxygen supporting demand in COVID-19 patient during hospitalization	
AFU I-Z	Russilawati Russilawati (Indonesia)*, Irvan Medison, Elsa Purnama Sari, Masrul Basyar, Dewi Wahyu Fitrina, Afriani Afriani	
AP01-3	Comparative Study of Clinical Outcomes of Severe and Critical COVID-19 Patients With and Without Hemoperfusion Admitted in a Referral Hospital	
APU 1-5	Ralph Moses Royeca (Philippines)*, Maebritt Wincent Tibubos, Glynna Ong-Cabrera, Paul Rilhelm Evangelista, Mary Claire Orden, Amor Patrice Estabillo, Ramon Mora	
	Pulmonary function tests in the aftermath of covid infection in a cohort of national level athletes	
AP01-4	Ruwanthi Jayasekara (Sri Lanka)*, Wijitha Nissanka, Rukmal Karunanayake, Lal Ekanayake, Suresh Chathurantha, Amitha Fernando	
AP01-5	Tent using for MOTT patient undergoes antibiotics nebulizer to minimise environmental contamination under COVID 19 Pandemic	
	Pui Chi Ling (Hong Kong)*, Chau Ho Kristy Chan, Mei Yu Chan, Sin Man Kerrie Leung	
	Clinical Characteristics of COVID-19 between ICU and non-ICU patients	
AP01-6	Tuan Muhammad Syukri Tuan Kob (Malaysia)*, Allim Khairuddin, Muhammad Syafiek Mohd Razali, M Ridhwan Abd Razak, Zahiah Abd Aziz, Juita Hassan, Muhammad Amin Ibrahim	
	Pulmonary alveolar proteinosis after COVID-19 infection: a possible association.	
AP01-7	Ayesha Jayawardana (Sri Lanka)*, Madushi Nanayakkara, Chandana Dahanayake, Malinda Hettiarachchi, Eshanth Perera	
AP01-8	Clinical Outcome of Supervised Pulmonary Telerehabilitation Program among Adult Patients with Post-Acute COVID-19 Symptoms (PACS): A Case Series	
	Nikko John Dalisay (Philippines)*, Bernice dela Cruz, Percival Punzal, Ma. Encarnita Limpin	
AP01-9	PSI, CRB-65 and MuLBSTA scores for predicting severity and mortality among hospitalized COVID-19 Pneumonia patients at Chinese General Hospital and Medical Center	
	Yonica Marie Dy (Philippines)*, Jamie Chua	
AP01-10	Predictors of Poor Outcomes in Unvaccinated COVID Pneumonia Patients: A Retrospective Study	
	Safa Shafee (Sri Lanka)*, Duminda Yasaratne, Arjuna Madagama, Nuwani Nissanka	
AP01-11	Severe melioidosis after covid pneumonia: a chameleon to watch out	
APU1-11	Ruwanthi Jayasekara (Sri Lanka)*, Lakmini Dassanayake, Amitha Fernando	



AP01-12	Dapsone induced Methemoglobinemia: A case of hypoxia overlooked in a patient during covid pandemic
	Sadia Sultana Resma (Bangladesh)*, Tazrin Farhana, Sheikh Shahinur Hossain, Kazi Saifuddin Bennoor, Mohammad Ferdous Wahid, Mohammad Ali Hossain, Fateh Akram
	Effect of excessive high-dose corticosteroids in patients with ARDS caused by COVID-19
AP01-13	Kyung-Eui Lee (Republic of Korea)*, Hyo-Jin Lee, Tae Yeon Park, Kwang Young Choi, Hyun Woo Lee, Jung-Kyu Lee, Deog Kyeom Kim, Eun Young Heo
AP01-14	An Observational Study of Demographic and Clinical Profile of COVID-19 Suspected Patients Attending in a Tertiary Care Hospital in Bangladesh
	K. M. Monir Hossain (Bangladesh)*, M. Haque Mollah, M. A. Jalil Ansari, Lubaib Manzoor, Humaira Tabassum
AP01-15	Clinical Profiles of COVID-19 Patients Associated with Acute Hypoxemic Respiratory Failure (AHRF requiring High Flow Nasal Cannula (HFNC) Therapy in a Tertiary Hospital in Metro Manila
	Angelica Pearl Reyes (Philippines)*, Patrick Gerald Moral, Isaias Lanzona
AD04 46	Physiotherapy practices when treating patients with COVID-19 during a pandemic: A survey stud
AP01-16	Anthony Trojman (Australia)*, Judith Hough, Julie Hides, Louise Gustafsson, Orlando Flores, Jennifer Paratz
	Persistent hiccups: "An unsung presentation of Covid 19 pneumonia with delta variant"
AP01-17	Niranjan Chandramal (Sri Lanka)*, Asha Samaranayake, Sameera Gamlath, Arthihai Srirangan, Ravini Karunathilaka
1001 10	Immunosuppressant and SARS-CoV-2 vaccine antibody response after lung transplantation
AP01-18	Eun Jeong Choi (Republic of Korea)*, Hye Ju Yeo, Seung Eun Lee
AD04.40	Screening for respiratory disease abnormalities with cough sounds collected by smartphones: A prospective study
AP01-19	Kyoung Min Moon (Republic of Korea)*, Ji-Ho Lee, JinHee Jeon, Choongki Min, Kyungnam Kim, Sanghoon Han, Taejin Kim, Myung Pyo Kim, Young Mi Park
AP01-20	Acute oxygen therapy: an audit of oxygen charting practices at a tertiary hospital in Sydney, Australia
	Dong Seok Yi (Australia)*, Ryan Kahn, Darrin Penola, Yasmina Serinel, Katrina O Tonga
AP01-21	The Efficacy of High Flow Nasal Cannula as First Line Oxygen Therapy in Patients with Acute Cardiogenic Pulmonary Edema: A Meta-Analysis
	Feliciano Jan Christian (Philippines)*, Dela Torre-Mangente Rachelle Kaye, Albay Albert
AP01-22	Heterogeneity of Asthma-Chronic obstructive pulmonary disease (COPD) overlap by comparison of ACO from severe asthma and COPD cohort
	Yong Suk Jo (Republic of Korea)*, Kwang Ha Yoo, Ki-Suck Jung, Hyoung Kyu Yoon, Chin Kook Rhee
AP01-23	Can Patients Achieve Sufficient Peak Inspiratory Flow Rate (PIFR) With Turbuhaler ® During Acute Exacerbation of Asthma?
	Nur Azimah Mohd Rhazi (Malaysia)*, Jaya Muneswarao, Fatimatuazzahra Abdul Aziz, Baharudin Ibrahim, Azlan Kamalludin

AP01-24	Comparison Between Fractional Exhaled Nitric Oxide (FeNO) In Patients With Rheumatoid Arthritis And Normal Population
APU 1-24	Anas Mat Asis (Malaysia)*, Mohd Arif Mohd Zim, Hazlyna Baharuddin, Shereen Ch'ng Suyin, Muhammad Amin Ibrahim
AP01-25	Intrapleural fibrinolysis is non-inferior to surgery for management of pleural infection refractory to antibiotics and thoracostomy drainage
	Xinxin Hu (Australia)*, Bapti Roy, Peter Wu
AD01.26	A diagnostic dilemma of Tuberculous pleurisy in a patient with Systemic Lupus Erythematosus
AP01-26	Tharmini Ethirmannasingham (Sri Lanka)*, Ravini Karunathilaka, Monika De Silva, Sameera Gamlath
AP01-27	Catamenial pneumothorax in a young Sri Lankan female – An uncommon aetiology for recurrent pneumothorax
	Sameera Gamlath (Sri Lanka)*, Tharmini Ethirimannasingham, Malika Udugama
AD04.00	Bilateral chylothorax in a 63-year old Female: how come?
AP01-28	Marelyn Jao (Philippines)*, Richmond Gregorio
AD01.20	"Fate of a TACE": A rare case of Empyema developed following Trans Arterial Chemo Embolization (TACE) for hepatocellular Carcinoma (HCC).
AP01-29	Niranjan Chandramal (Sri Lanka)*, Chandana Dahanayaka, Madushi Nanayakkara, Ravini Karunathilaka, Eshanth Perera
AP01-30	A Case of Tuberous Sclerosis Complex-Associated Lymphangioleiomyomatosis presenting as Recurrent Seizures
	Camille Anne San Miguel (Philippines)*, Eloisa Trina Generoso
AP01-31	Pulmonary lymphangioleiomyomatosis and renal angiomyolipoma in a patient with systemic lupus erythematosus: A case report
711 01 01	Jeong Suk Koh (Republic of Korea)*, Sina Oh, Chaeuk Chung
	Transudative chylothorax - a rare manifestation of liver cirrhosis with portal hypertension
AP01-32	Boon Hau Ng (Malaysia)*, Hsueh Jing Low, Andrea Yu-Lin Ban, Nik Nuratiqah Nik Abeed, Mohamed Faisal Abdul Hamid
AD04.33	Pulmonary sequestration in adult patients: a single-center retrospective study
AP01-33	Yan Hu (China (Mainland))*, Siying Ren, Lulu Yang, Ying Xiao
AP01-34	Metastatic pulmonary calcification: an exceptional complication associated with end-stage renal disease mimicking transbronchial infection
	Napat Jirawat (Thailand)*, Vorawut Thanthitaweewat
AP01-35	Plastic bronchitis presenting as incessant sputum expectoration: a case report
	Kriselle Felicia Lumunsad (Philippines)*, Emily Aventura, Christine Chavez, Jay Andrew Ilagan, Noel Michael Supremo, Annaleene Michelle Ferrater-Alcober, Mirasol Aboga-Pacheco
AP01-36	The interest of bronchoscopy in diagnosis of the patients with non-resolving pneumonia in Calmette Hospital, Phnom Penh, Cambodia
	Menghak Heng (Cambodia)*, Bunpaul Chhar, Sarin Chan, Chanty Ny, Mich Vann



	M1 macrophages ameliorate pulmonary fibrosis and promote alveolar regeneration via paracrine actio
AP02-67	Dongwook Cho (Republic of Korea)*, Ji-Young Kim, Suji Jeong, Seok-Ho Hong
	Conventional and Electronic Cigarettes Aggravate Inflamation in Rats Induced High-Fat Diet
AP02-68	Ahmad Alvin Noor Muchtar (Indonesia)*, Naufal Arif Ismail, Dwi Nur Ahsani
AD02 C0	Profibrotic role of high mobility group box1 in tuberculous pleural effusion
AP02-69	Wei-Lin Chen (Taiwan)*, Chi-Li Chung
AP02-70	Enhanced fatty-acid oxidation slows the contribution of AT2 stem cells in the lung repair proces after a fibrosis-inducing injury
	Ahmed E Hegab (Japan)*, Mari Ozaki, Shizuko Kagawa, Koichi Fukunaga
AP02-71	In silico modification of TRPM8 ligand menthol
APUZ-7 I	Eugene Borodin (Russia)*, Pavel Timkin, Eduard Timofeev
AP02-72	Myeloperoxidase activity and the percentage of neutrophils in the airways of patients with asthma depending on the airway responsiveness to physical stimuli
	Juliy Perelman (Russia)*, Aleksey Pirogov, Anna Prikhodko, Leonid Nakhamchen
AP02-73	PINK1 Preserves Pulmonary Endothelial Barrier Integrity in Human Pulmonary Microvascular Endothelial Cells
APU2-75	Junghyun Kim (Republic of Korea)*, Minhee Ha, Jisoo Park, So Young Lee, Jinhyung Huh, Se Hee Lee, Eun Kyung Kim, Ji Hyun Lee, Mi Ae Kim
	Single cell transcriptomics in blood of patients with COPD
AP02-74	Yeonjeong Heo (Republic of Korea)*, Jeeyoung Kim, Da Hye Moon, Jeongwon Heo, Yoonki Hong, Seok-Ho Hong, Seon-Sook Han, Seung-Joon Lee, Woo Jin Kim
linical Allergy	y & Immunology
AD02 77	BioNTech (BNT) vaccine induced immune neuropathy
AP03-77	Nurgul Naurzvai (Turkey)*, Bekir Enes Demiryurek
AP03-78	Anti Tuberculous Drugs, A double edged sward
	Madhushi Nanayakkara (Sri Lanka)*, Chandana Dahanayaka, Samadara Nakalanda, Malinda Hettiarachchi, Eshanth Perera
nvironmenta	l and Occupational Health and Epidemiology
AP04-87	Lady with the Black lung; A case of Anthracosis associated with Pulmonary Tuberculosis
	Chandana Dahanayake (Sri Lanka)*, Madhushi Nanayakkara, Ayesha Jayawardena, Sandaroo De Silva, Malinda Hettiarachchi, Eshanth Perera
AP04-88	Soil-Water Aspiration Pneumonia on Tin Miner: A Case Report
	Liyah Giovana (Indonesia)*, Radian Savani, Halim Thamrinkusdi, Febrina Adriani Purba

	Silicotuberculosis among indonesian underground gold miner: a case report
AP04-89	Malsephira Hasmeryasih (Indonesia)*, Agus Dwi Susanto, Erlang Samoedro, Feni fitriani Taufik,
	Triya Damayanti, Sita Andarini, Ratnawati Ratnawati, Budhi Antariksa
100/ 00	A Comparison of Atrial Fibrillation Incidence Among Physicians and the General Population
AP04-90	Weisyun Hu (Taiwan)*
AP04-91	Comparison of respiratory symptoms among adults with versus without vaping, smoking, and dual-use: A cross-sectional study in a call center in quezon city
	Catherine Joy R Tubig (Philippines)*, MA. Encarnita B Limpin
ADO/ 02	Vaping Causes Lung Injury
AP04-92	Brendon Colaco (United States of America)*, Vichaya Arunthari
AP04-93	Racial/ethnic specific factors influencing cardiovascular symptoms of midlife women during the menopausal transition
	Wonshik Chee (United States of America)*, Eun-Ok Im
	Pulmonary function among rural residents in high air pollution area in northern Thailand
AP04-94	Pitchayapa Ruchiwit (Thailand)*, Narongkorn Saiphoklang, Kanyada Leelasittikul, Apiwat Pugongchai, Orapan Poachanukoon
AP04-95	Evaluation of enzyme-linked immunosorbent assay for diagnostic accuracy of Orientia tsutsugamushi
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	Sharmistha Dutta (India)*, Nitin Goel
4007.057	Influence of COPD on hospital outcomes of PCI in patients with ACS
AP07-354	Eugene Borodin (Russia)*, Alexey Frolov, Ilya Pochinka, Vasily Fedotov, Alexander Korotkikh
	Prevalence of anxiety in patients with chronic obstructive pulmonary disease
AP07-355	Rujachai Sawee (Thailand)*, Pichaya Petborom, Suppanat Jaroonvechatam, Weerasit Limpanitchai, Patawee Charoenchatchai, Chadchapon Suwannaraks, Suthat Rungruanghiranya, Manaphol Kulpraneet, Sirapat Tulatamakit, Kanokwan Preedapornpakorn
AP07-356	Prevalence of malnutrition and its relationship with disease category in patients with COPD in a low socioeconomic region in sri lanka
APU/-330	Hasitha Dissanayake (Sri Lanka)*, Sanjaya Sumanasinghe, Kokilaa Wijerathne, Thilina Munasinghe, Sumedha Samankantha
	Association between depression and severity of COPD in stable COPD patients
AP07-357	Nophakit Jiraworakarn (Thailand)*, Pichaya Petborom, Suthat Rungruanghiranya, Manaphol Kulpraneet, Sirapat Tulatamakit, Kanokwan Preedapornpakorn
AP07-358	Effects of tiotropium on the risk of coronary heart disease in patients with COPD: a nationwide cohort study
	Jiyoung Shin (Republic of Korea)*, Jin Hwa Lee
AP07-359	Associations between Morphological Phenotypes of COPD and Clinical Characteristics in Surgically Resected Patients with COPD and Concomitant Lung Cancer
APU/-359	Yusuke Suzuki (Japan)*, Yoshiaki Kitaguchi, Fumika Ueno, Norihiko Goto, Takumi Kinjo, Yosuke Wada, Masanori Yasuo, Masayuki Hanaoka
	Comparison of chronic cough in asthma-COPD overlap and COPD patients: a clinical cohort study
AP07-360	Sung-Yoon Kang (Republic of Korea)*, Youlim Kim, Sang Min Lee, Jeong-Woong Park, Sang Pyo Lee, Chin Kook Rhee, Ji-Yong Moon, Yong Bum Park, Seong Yong Lim, Kwang-Ha Yoo, Ki Suck Jung
AP07-361	Effects of wearing a mask on oxygenation and hemodynamics in patients with mild to moderate COPD
APU/-30 I	Sang-Heon Kim (Republic of Korea)*, Ran Heo, Sun-Kyung Lee, Sang Won Lee, Hyekyung Seo, Hyukjae Kwon, Sung Jun Chung, Hyun Lee, Dong Won Park, Young-Hyo Lim, Jinho Shin, Jang Won Sohn, Ho Joo Yoon
AP07-362	Clinical and metabolic phenotype of chronic obstructive pulmonary disease (COPD) in combination with insulin resistance syndrome
	Olga Tanchenko (Russia)*, Svetlana Naryshkina, Tatyana Zabolotskikh, Irina Sayapina



AP07-363	Cardiovascular risks associated with long acting muscarinic antagonist use in COPD - A territory wide study
	Wang Chun Kwok (Hong Kong)*, Chun Ka Wong, David CL Lam, Terence Chi Chun Tam, Mary Sau Man Ip, James Chung Man Ho
AP07-364	Clinical impact of chronic cough in patients with asthma-COPD overlap
	Sung-Yoon Kang (Republic of Korea)*, Youlim Kim, Sang Min Lee, Jeong-Woong Park, Sang Pyo Lee, Chin Kook Rhee, Ji-Yong Moon, Yong Bum Park, Seong Yong Lim, Kwang-Ha Yoo, Ki Suck Jung
4007.055	Undiagnosed obstructive airway disease in an multi-ethnic Asian cohort: prevalence, severity and associations
AP07-365	Kai Lim (Singapore)*, Andrew Yunkai Li, Jason Lorenzo, Samantha Yong, Norris Ling, Hwee Lin Wee, E-Shyong Tai, Wei Jie Seow, Hui Fang Lim
AP07-366	Recent Prevalence of and Factors associated with Chronic Obstructive Pulmonary Disease: Analysis from the Korea National Health and Nutrition Examination Survey Between 2015 and 2019
	Sang Hyuk Kim (Republic of Korea)*, Hyun Lee, Dong Won Park, Tai Sun Park, Sang-Heon Kim, Tae-Hyung Kim, Jang Won Sohn, Ho Joo Yoon, Ji-Yong Moon
AP07-367	A study on the association between serum Cadmium concentration and kidney or lung function Using Korean National Health and Nutrition Examination Survey Data
	Ki-Hyoek Yang (Republic of Korea)*, Myoung-Nam Lim, Jeeyoung Kim, Woo Jin Kim
AD07.260	Prevalence of chronic obstructive pulmonary disease in a high-risk lung cancer screening population
AP07-368	Jooun Park (Republic of Korea)*, Kieun Hwang
AD07.260	Association of BMI with Misdiagnosis of COPD among AECOPD Patients
AP07-369	Zhe Zhang (China (Mainland))*, David H AU, Wenhua Jian, Jinping Zheng
4007.070	COPD, cataract and inflammation process
AP07-370	Eugene Borodin (Russia)*, Marya Petrenko
AP07-371	Correlation between malnutrition defined by laboratory test and exacerbation in severe COPD patients
	Youlim Kim (Republic of Korea)*, Chin Kook Rhee, Yong Bum Park, Ki Suck Jung, Kwang Ha Yoo, Chang Youl Lee
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AP08-406	Clinical characteristics of NSCLC patients with chemotherapy at rsud dr. zainoel abidin banda aceh, Indonesia
	Amilia Frayanty (Indonesia)*, Novita Andayani, Ferry Dwi Kurniawan
AP08-407	Pulmonary Carcinosarcoma: A report Case from Vietnam
AFU0-4U/	Linh Le Tu (Viet Nam)*, Nhung Nguyen Viet, Khiem Dang Van, Huy Le Ngoc

AP08-408	Pulmonary paraganglioma: a case report
	Amartuvshin Ganbold (Mongolia)*, Manaljav Tseden-Ish, Solongo Bandi, Naidansuren Tsendeekhuu, Nyamdavaa Erdenebat, Bayanzul Sanjaasuren, Namjiltseren Delgersaikhan, Tsengelmaa Jamiyan
AP08-409	Non-small cell Lung Cancer in a Young Adult
	Ross Ralph Lucas (Philippines)*, Bernice Ong Dela Cruz, Paolo Hilado, Celene Marie Rey, Rialyn Rojo, Jessica Mae Jarabe, John Paulo Amurao, Andrea Candelaria
AP08-410	Research progress of antiangiogenic therapy and immunotherapy in malignant pleural effusion associated with non-small cell lung cancer
	Yan GU (China (Mainland))*, Junbin JIA
ADOD /11	Extra-skeletal chondrosarcoma of the pleura presenting as a unilateral pleural effusion
AP08-411	Malika Udugama (Sri Lanka)*, Nirasha Jayathilaka, Bandu Gunasena
AD00 /12	Lung cancer risk factors in never smoking women
AP08-412	Sabrina Ermayanti (Indonesia)*, Russilawati Russilawati, Yessy Susanty Sabri, Afriani Afriani, Yati Ernawati
AP08-413	Chylothorax and Chylopericardium as Initial Presentation of Thymoma: A Case Report
APU8-413	Anna Rossa Magda Cuerdo (Philippines)*, Jose Edzel Tamayo
	Evaluation of the accuracy of mir-25 in the diagnosis of lung cancer
AP08-414	Yuan-Yuan Huang (China (Mainland))*, Ye-Ling Liu, Jian-Wen Su, Jing-Hao Zhang, Xiao-Xia Deng, Yi-Xuan Wang, Zi-Yuan Yu, Xu-Guang Guo
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AP08-415	Athiwat Tripipitsiriwat (Thailand)*, Supparerk Disayabutr, Kamontip Kunwipakorn, Jamsak Tscheikuna
AP08-416	Malignant pleural mesothelioma (MPM) in a young woman with inflammatory polyarthritis presenting as first symptom.
	Sze Kye Teoh (Malaysia)*, Azza Omar, Suzila Che Sayuti, Mat Zuki Mat Jaeb, Hui Pheng Neoh, Murni Hartini Jais
AP08-417	A case of left malignant pleural effusion achieved spontaneous pleurodesis with indwelling pleural catheter after failed talc pleurodesis
	Nik Nuratiqah Nik Abeed (Malaysia)*, Boon Hau Ng, Mohamed Faisal Abdul Hamid, Yu Lin Andrea Ban
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	Cristine Mercy Cabebe (Philippines)*, Catherine Jordan, Shirley Chua-Panganiban, Ronald Fajardo
AP08-419	Characteristics of Non-Small Cell Lung Cancer (NSCLC) Patients with Recurrent Pleural Effusion in Sanglah General Hospital, Bali, Indonesia
	I Putu Surya Sujana (Indonesia)*, Ida Ayu Jasminarti Dwi K, Ni Wayan Candrawati, Ida Bagus Ngurah Rai



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AP08-421 Sugesha Wickramasinghe (United Kingdom)*, Sadathulla Sharief, P Bezecny, B L Murthy, M J Dobson, Syed Mehdi Unusual cause of Unilateral Pleural Effusion in A pregnant lady - A case report of Malignant Pleural Mesothelioma in Pregnancy Arvindran Alaga (Malaysia)*, Faisal Norizan, Navindran Selavraju, Syafirin Ab Sani, Azah Syahrina Alias Spindle cell thymic carcinoma presenting as anterior mediastinal mass and deep vein thrombosis in a 59-year-old male: A case report Kelvin Mar Bartolome (Philippines)*, Johnson See, Rommel Bayot, Ma. Encarnita Blanco-Limpin, Alieen Guzman-Banzon Pulmonary Lymphangioleiomyomatosis: A case report and clinical review Cristine Mercy Cabebe (Philippines)* AP08-425 Arare case of Lung Adenocarcinoma in a 19 year old female presenting as Miliary Tuberculosis Donnah Alvarado (Philippines)*, Precious Mae Gomez, Marie Charisma Laborte-Dela Trinidad Incidental finding of paraneoplastic hyper-eosinophilia secondary to lung adenocarcinoma in a COVID-19 patient. Sze Kye Teoh (Malaysia)*, Azza Omar, Suzila Che Sayuti, Mat Zuki Mat Jaeb, Hul Pheng Neoh, Nor Hayati Yunus AP08-427 AP08-428 AP08-428 AP08-429 Pulmonary sclerosing pneumocytoma in a middle-aged South-East Asian woman: An accidentally finding of a rare lung tumor Nur Prasetyo Nugroho (Indonesia)*, Samsul Bahri, Irmi Syafa'ah, Dhihintia Jiwangga Suta A 35 year old woman with intralobar sequestration and positive mutation EGFR (epidermal growth factor receptor) lung adenocarcinoma sinistra: a case report Samsul Bahri (Indonesia)*, Soedarsono Soedarsono, Helmia Hasan, Nisya Hapsari Case report: mediastinal germ cell tumor in a young man Amalia Amalia (Indonesia)*, Novita Andayani, Fitri Dewi Ismida Endobronchial melanoma metastatic a female 55 years old Chelsy Mekasari (Indonesia)*, Herry Priyanto, Reno Keumalazia Karnarlis Non keratinizing squamous cell lung carcinoma mimics small cell carcinoma in the lung: a case report		
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Titus Auyeung (Australia)*, Marina Zhang, Vicky Chang Pulmonary sclerosing pneumocytoma in a middle-aged South-East Asian woman: An accidentally finding of a rare lung tumor Nur Prasetyo Nugroho (Indonesia)*, Samsul Bahri, Irmi Syafa'ah, Dhihintia Jiwangga Suta A 35 year old woman with intralobar sequestration and positive mutation EGFR (epidermal growth factor receptor) lung adenocarcinoma sinistra: a case report Samsul Bahri (Indonesia)*, Soedarsono Soedarsono, Helmia Hasan, Nisya Hapsari Case report: mediastinal germ cell tumor in a young man Amalia Amalia (Indonesia)*, Novita Andayani, Fitri Dewi Ismida Endobronchial melanoma metastatic a female 55 years old Chelsy Mekasari (Indonesia)*, Herry Priyanto, Reno Keumalazia Kamarlis Non keratinizing squamous cell lung carcinoma mimics small cell carcinoma in the lung: a case report	AD00-427	An unusual presentation of primary pulmonary angiosarcoma
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AP14-640	Reconstructive Airway Surgery in a Penetrating Neck Trauma with Laryngotracheal Injury: Achieving an Adequate Airway, Voice, and Swallowing Outcomes
	Khoirul Anam (Indonesia)*, Fauziah Fardizza, Bambang Hermani
AP14-641	One More Chance: A Case of Recurrent Congenital Diaphragmatic Hernia
AF 14-04 I	Adjenli Khan (Philippines)*, Mareil Bitoon, Margarett Anne Habawel, Tito Apollo Quitoriano
Pulmonary Circ	culation
AP15-646	Acute right lung abscess secondary to pulmonary thromboembolism with left lower limb deep vein thrombosis in a case of left-sided cerebrovascular accident
	Anish R (India)*, Kriti Agarwal, Anjali Kamath
	Pulmonary embolism as a clinical manifestation of hematogenic thrombophilia
AP15-647	Tatiana Luchnikova (Russia)*, Valerii Voitsekhovsky, Tatiana Zabolotskikh, Olga Prikhodko, Irina Sayapina, Irina Kostrova, Elena Romantsova
AP15-648	Incidental Finding of CTEPH in a Patient Presenting with Seizure, Acquired Arteriovenous Fistula, and Obstructive Sleep Apnea
	Aprille Anne Octaviano (Philippines)*, Franklin Yu
AP15-649	"Double edged sword"; Bilateral Mycotic Pulmonary Artery Aneurysm with Acute Deep Venous Thrombosis Presenting With Massive Hemoptysis with Marfanoid Features
AP 15-649	Catherine Joy Tubig (Philippines)*, Sherwina Juljani, Lucas Emir Sheik Saturinas, Fernando Ayuyao,

Maria Paz Mateo



Interstitial Lun	g Disease
AD046 656	Interstitial lung abnormality in health screening examinees: prevalence and progression
AP016-656	Jooae Choe (Republic of Korea)*, Ju Hyun Oh, Han Na Noh, Eun Jin Chae, 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
AF0 10-056	Malika Udugama (Sri Lanka)*, Nirasha Jayathilaka, Bandu Gunasena
AP016-659	A rare case of interstitial lung disease presenting with intractable shortness of breathing
AI 0 10 033	Sameera Gamlath (Sri Lanka)*, Tharmini Ethirimannasingham, Arthihai Srirangan, Ravini Karunathilake
	Heading: Familial interstitial lung disease in four members of one family in Bangladesh A case serie
AP016-660	Sadia Sultana Resma (Bangladesh)*, Kazi Saifuddin Bennoor, Tazrin Farhana, Sheikh Shahinur Hossain, Mohammad Ali Hossain, Abdus Shakur 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 Masaeva, Evgeniy Smelev
	An unusual presentation of a known entity - The great masquerader
AP016-662	Sugeesha Wickramasinghe (United Kingdom)*, Syed Ahmad, Syed Mehdi, Mohommed Munawar, Susan Kearney, Laxmi Narayan Gudur
AP016-663	The triple trouble - severe connective tissue disease related interstittial lung disease complicated with pneumomediastinum and pulmonary embolism
APU 10-003	Sampath Liyanage (Sri Lanka)*, Harshana Bandara, Dawpadee Dharmasena, Saman Kularatne, Amila Rathnapala, Sumudu Palihawadana
AD016 664	Case of Idiopathic pleuroparenchymal fibroelastosis with pneumomediastinum
AP016-664	Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Madushanka Rathnayake
AP016-665	Rapidly progressive Interstitial Lung Disease (ILD) in a patient with features of Dermatomyositis - A case report
APU 10-005	Malinda Hettiarachchi (Sri Lanka)*, Dilanka Tilakaratne, Chandana Dahanayake, Madhushi Nanayakkara, Ayesha Jayawardhana, Samalie Perera, Sumudu Palihawadana, Eshanth Perera
AP016-666	Lung cancer emerging in a case of fibrotic interstitial lung disease
APU 10-000	Benjamin Gan (Malaysia)*, Syazatul Syakirin Sirol Aflah, Zuhanis Abdul Hamid
AD016-665	Challenges in management of lung cancer coexisting with idiopathic pulmonary fibrosis
AP016-665	Minalosani Arumugam (Malaysia)*, Albert Iruthiaraj Lourdesamy Anthony

AD016 660	Rituximab induced pneumonitis in a patient with Sero-positive Rheumatoid arthritis - A rare complication
AP016-668	Sugeesha Wickramasinghe (United Kingdom)*, Saleel Punnilath, Thyusha Deveneni, Mohommed 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, Amitha Fernando
AP016-670	A Rare Cause of Rapidly Progressive Respiratory Failure
APU 10-0/U	Vichaya Arunthari (United States of America)*, Brendon Colaco
AD016 671	A rare case of Combined pulmonary fibrosis and emphysema associated with systemic sclerosis
AP016-671	Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Madushanka Rathnayake, Ruwanthi Jayasekara
AP016-672	Methotrexate induced acute interstitial pneumonia in a patient with seronegative rheumatoid arthritis -a case report
	Yasith Abeysekera (Sri Lanka)*, Shifa Azher, Amila Rathnapala, Chandima Sapurugala
	A Lady with rough hands and a rash presenting with exertional shortness of breath
AP016-673	Chandana Dahanayake (Sri Lanka)*, Madhushi Nanayakkara, Ayesha Jayawardena, Sandaroo De Silva, Malinda Hettiarachchi, Eshanth Perera
AD046 67/	The tale of a dyspneic lady with cystic lungs. A case of primary Sj gren syndrome complicated with lymphoid interstitial pneumonia
AP016-674	Madushanka Rathnayake (Sri Lanka)*, Ruwani Perera, Sampath Liyanage, Sandamal Serasinghe, Ruvanthi Jayasekara, Amitha Fernando, Monika de Silva
10046 676	Pleuroparenchymal fibroelastosis associated with invasive aspergillosis
AP016-676	Malika Udugama (Sri Lanka)*, Nirasha Jayathilaka, Bandu Gunasena
AP016-677	A case of a mixed connective tissue disease presenting with features of interstitial lung disease and underlying pulmonary tuberculosis
	Sameera Gamlath (Sri Lanka)*
AP016-678	Brigatinib induced severe interstitial pneumonitis
APU 10-0/8	Dawpadee Dharmasena (United Kingdom)*, Sanka Vijayabandara, Osei Kankam, Agnes Hurter
AD016, 670	Interstitial Lung Disease in association with Anti myositis antibodies: a series of 6 cases.
AP016-679	Gaurav Sahu (India)*, Alkesh Kumar Khurana, Abhishek Goyal, Sai Tej Pavirala, Bhupinder Kumar Rajak, Amit Singh
AD016 600	Diagnosis Dilemma: Pulmonary Veno-occlusive disease- A rare cause of pulmonary hypertension
AP016-680	Arthihai Srirangan (Sri Lanka)*, Niranjan Chandramal, Asha Samaranayake, Ravini Karunathilaka



Hemoptysis with progressive breathlessness in an otherwise healthy adult, a common presentation of a rare disease AP016-681 Sanjeewa Malinda Hettiarachchi (Sri Lanka)*, Chandana Dahanayake, Madhushi Nanayakkara, Ayesha Jayawardana, Sumudu Palihawadana, Eshanth Perera Erasmus Syndrome: A Case Report and Review of Literature AP016-682 Jan Michael Jesse Lomanta (Philippines)*, Mary Antonette Atienza, Juan Raphael Gonzales, Eric Jason Amante, Sheen Urquiza, Hanna Lucero-Orilaza, Joel Santiaguel Using antifibrotic drugs as an add-on treatment for lung fibrosis after Covid-19 infection: Two case reports from Vietnam AP016-683 **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 AP016-684 Jang Ho Lee (Republic of Korea)*, Jiyoul Yang, Junyeop Lee, Ho Cheol Kim Metastatic gastric signet ring cell carcinoma presenting as interstitial lung disease AP016-685 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 AP016-686 **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. AP16-687 **Jin Lee Lim** (Malaysia)*, Normaszuhaila Ab Hamid, Noraishah Sulaiman, Syazatul Syakirin Sirol Aflah

ORAL PRESENTATION

19 November

Oral 12		09:20-10:50	Grand Ballroom 104 (1F	
Asthma				
Chair	Tae-Hyun	ng Kim (Hanyang University College of Medicine, Republic of Korea)		
		CSN5 is involved in asthma via interaction with PD-L1		
09:20-09:30	A012-1	An-Soo Jang (Republic of Korea)*, Seon-Muk Choi, Pureun-Haneu Shinhee Park, Ae Rin Baek, Min-Hyeock Ahn	l Lee, Da Yeon Hwang,	
09:30-09:40	A012-2	Effects of human adipose tissue- and bone marrow-derived airway inflammation and remodeling in a murine model of ch	•	
		Joon Young Choi (Republic of Korea)*, Jung Hur, Sora Jeon, Chang	Kwon Jung, Chin Kook Rhee	
09:40-09:50	A012-3	Candidate miRNA genes as biomarker in allergic asthma dise	ease	
09.40-09.50	AU 12-3	Halime Yildirim (Turkey)*, Ender Coskunpinar, Betul Akcesme, Sev	gi Kalkanli Tas, Engin Aynaci	
09:50-10:00	A012-4	Septal deviation could be associated with the development on nationwide cohort study	f bronchial asthma: a	
09.50-10.00		Jong Seung Kim (Republic of Korea)*, Sam Hyun Kwon, Jae Seok Jong-Hwan Lee, Sang Woo Yeom, Doo Hwan Kim, Yong Chul Lee	Jeong, Yeon Seok You,	
10:00-10:10	AO12-5	Montelukast and pranlukast related neuropsychiatric events rhinitis	in adults with asthma and	
		Jae-Woo Kwon (Republic of Korea Young-Woo Jo, Hyouk-Soo Kw	on, Joonhong Min, Young Her	
10:10-10:20	AO12-6	Improvements of Clinical Symptoms and Lung Function in As Montelukast Therapy at Harum Melati Clinic, Pringsewu Rego Indonesia 2017-2020		
		Dimas Trend Pinaka Baladika (Indonesia)*, Retno Ariza Soepriha Jordy Oktobiannobel, Siti Indriyani, Diyan Ekawati, Adityo Wibowo	tini Soemarwoto, Hetti Rusmini,	
	A012-7	Selecting representative questions in Asthma Control Test		
10:20-10:30		Min Seok Chang (Republic of Korea)*, Iseul Yu, Sunmin Park, Ji-Ho Won-Yeon Lee, Suk Joong Yong, Sang-Baek Koh, Sang-Ha Kim	Lee, Seok Jeong Lee,	
	AO12-8	Dupilumab improved lung function and reduced exacerbatio moderate-to-severe asthma and prior exacerbations: LIBER		
10:30-10:40		Chin Kook Rhee (Republic of Korea)*, Jonathan Corren, Mario Cast Marc Humbert, David M.G. Halpin, Arman Altincatal, Nami Pandit-Ab Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe	tro, Jorge F. Maspero, oid, Xavier Soler, Shahid Siddiqui,	



	irculation - \			
Ch - i	ii Culation V	TE and PH (venous thromboembolism and pulmonary hypertension)		
Chair	Masayuki	Hanaoka (Japan)		
09:20-09:30	A013-1	Culin5/TRAF6/NF-kb/VEGF-mediated endothelial dysfunction aggravates hypoxic pulmonary hypertension		
		Lei Wang (China (Mainland))*, Jie Liu		
09:30-09:40	AO13-2	Combination of CARSKNKDC (CAR) peptide with sildenafil in the treatment of pulmonary hypertension associated with emphysema induced by SU5416 in rats		
		Norihiko Goto (Japan)*, Yosuke Wada, Yoshiaki Kitaguchi, Masanori Yasuo, Masayuki Hanaoka		
00:/0 00:50	1012.2	Clinical experiences of high-risk pulmonary thromboembolism receiving extracorporeal membrane oxygenation in single institution		
09:40-09:50	A013-3	Joonyong Jang (Republic of Korea)*, Bo Young Lee, Ki-Up Kim, Yang-Ki Kim, Soo-taek Uh, So-My Koo, Youngeun Jang, Wonho Chang		
	A013-4	Anticoagulation in Patients with Antiphospholipid Syndrome-associated Venous Thromboembolism: A Nationwide Study		
09:50-10:00		Hun-Gyu Hwang (Republic of Korea)*, Ju Hyun Lee, Sang-A Kim, Yang-Ki Kim, Myung-Shin Kim, Junshik Hong, Ho-Young Yhim, Soo-Mee Bang		
10:00-10:10 AO13-5		Correlation of pulmonary artery enlargement in chest CT with Mortality of COVID-19 patient admitted at Manila Doctors Hospital from March-August 2020: A Retrospective Cohort		
	7.0.00	Olivia Faye Listanco (Philippines)*, Jhakelinn Veericah Galang, Albert Albay Jr		
		Independent Predictors of Pulmonary Embolism in Severe SARS-CoV-2		
10:10-10:20 AO13-6		Aisya Natasya Musa (Malaysia)*, Mohd Shahril Ahmad Saman, Bushra Johari, Roqiah Fatmawati Abdul Kadir, Natasha Mohd Arifin, Aida Abdul Aziz, Mohd Arif Mohd Zim		
		Submassive Pulmonary Embolism Case Series - A Single Tertiary Centre Experience		
10:20-10:30	A013-7	Hui Xin Tan (Malaysia)*, Nurafna binti Mohd Jaafar, Syaza Naqibah Mohamed Noor Rahim, Yen Shen Wong, Mohd Zhafran Zainal Abidin, Muhammad Amin Ibrahim, Aisya Natasya Musa, Mohd Arif Mohd Zim		
10:30-10:40	AO13-8	Clinical characteristics and outcomes of pulmonary hypertension patients who underwent right heart catheterization in Thailand: 5-year retrospective single-center study		
. 3.33 13.10		Nichanun Chiansirikraivuti (Thailand)*, Tunlanut Sapankaew, Pattarin Pirompanich		

Oral 14		09:20-10:50	ASEM Ballroom 202+203 (2F)	
Critical Care	Medicine - N	on-covid		
Chair	Young-Ja	e Cho (Seoul National University College of Medicine, Republic of Korea)		
09:20-09:30		Association of Clonal Hematop Acute Respiratory Distress Syr	oiesis of Indeterminate Potential with Increased Risk of Indrome	
	A014-1		Jung-Ki Yoon, Su-Gyeong Kim, Jimyung Park, Jaeyoung Cho, o Lee, Young Sik Park, Chang-Hoon Lee, Chul-Gyu Yoo,	
		Diaphragm thickening fraction	for predicting weaning success in COPD patients	
09:30-09:40	A014-2	Pongpat Klumusuk (Thailand)*, Narongkorn Saiphoklang, Thiti Sri	Apichart Kanitsap, Pattarin Pirompanich, Pitchayapa Ruchiwit, charoenchai	
	A014-3		cal power and intensive care unit mortality according to the e in patients under pressure-controlled ventilation	
09:40-09:50		Young Sam Kim, Yun Seong Kim, Y	ea)*, Sang-Min Lee, Hyung Koo Kang, Kyung Chan Kim, Won-Yeon Lee, Sunghoon Park, So Young Park, Ju-Hee Park, oo Lee, Jin Hwa Lee, Heung Bum Lee, Chae-Man Lim, Won-Il Choi, e Young Suh	
00.50 10.00	A014-4	Influences of do-not-resuscita of patients in the medical inter	te orders and physician orders for life-sustaining treatment nsive care unit	
09:50-10:00		Song-I Lee (Republic of Korea)*, (Jeong Eun Lee	Chaeuk Chung, Dongil Park, Da Hyun Kang, Ye-Rin Ju,	
10:00-10:10	A014-5	Mechanical ventilation in idiop a nationwide population-based	athic pulmonary fibrosis patients in Korea: I study	
	7,011.5	Jae Kyeom Sim (Republic of Kore	ea)*, Seok Joo Moon, Jae Jeong Shim	
10:10 10:20	A014-6	The impact of early sedation din Korean intensive care units	epth on clinical outcomes in mechanically ventilated patients	
10:10-10:20		Dong-gon Hyun (Republic of Kor Chae-Man Lim	ea)*, Jee Hwan Ahn, Ha-Yeong Gil, Chung Mo Nam, Choa Yun,	
40:00 40:00	1047	Endothelial Fgfr1 deficiency w	orsen LPS induced ALI/ARDS.	
10:20-10:30	A014-7	Yue Deng (China (Mainland))*, Ya	n Hu, Bisen Ding, Chen Wang	
10:20 10:70	A047.0	A survey of the awareness and critically ill patients	understanding of healthcare staff on rehabilitation for	
10:30-10:40	AO14-8	Won Jin Lee (Republic of Korea)* Hye Ju Yeo, Woo Hyun Cho, Seun	, Eunjeong Son, Jin Ho Jang, Taehwa Kim, Doosoo Jeon, g Eun Lee, Yun Seong Kim	



Oral 15		11:10-12:40 Grand	l Ballroom 103 (1F)	
Respiratory I	Infections (n	non-tuberculous) - Covid-19 infection - Treatment and Post recovery		
Chair	Do-Jin Kir	n (Soonchunhyang University College of Medicine, Republic of Korea)		
11:10-11:20 A015-1		A community-base pulmonary rehabilitation programme for the elderly in Coronavirus 2019 (COVID-19)	recovered from	
		Ching Man Tiffany Choi (Hong Kong)*, Kin Kenneth Au Yeung, Kwok Cheong G	eorge Wong	
		Steroid and/or Antifibrotic Treatment on Improvement of Post Covid Lun	g Function	
11:20-11:30	A015-2	Ahmed Masum (Bangladesh)*, Md Zahir Kamruzzaman, Baqui Billah Syed Muha Kayesh A J M Emrul, Hoshen Mohammad Shahdat, Khan F R, Alam Md Hasibul	ammad,	
11:20 11:70	A04F 3	Remdesivir Efficacy in Coronavirus Disease: A Randomized trial		
11:30-11:40	A015-3	Ibrahim Salaheldin Ibrahim (Egypt)*, Mohammed hantera, Mohammed Tork, S	Sherif Abdelslam	
		Combining Fluvoxamine with Bromhexine prevents clinical deterioration with mild to moderate symptomatic SARS-CoV-2, A Randomized Clinical	-	
11:40-11:50	AO15-4	Dhammika Leshan Wannigama (Thailand)*, Cameron Hurst, Phatthranit Phatt Peter N Monk, Shuichi Abe, Paul G. Higgins, Katika Akksilp, Natchalaikorn Sirichun Kanokpoj Chanpiwat, Angela M. Reiersen, Farid Jalali, Stephen M Stick, Anthony Parichart Hongsing, Tanittha Chatsuwan	nroonwit,	
11:50 12:00	AO15-5	Different treatment response to systemic corticosteroids according to w counts in severe COVID-19 patients	hite blood cell	
11:50-12:00	AU 15-5	Kwang Yong Choi (Republic of Korea)*, Dong Hyun Kim, Kwang Nam Jin, Hyo Jir Tae Yun Park, Borim Ryu, Jung-Kyu Lee, Eun Young Heo, Deog Kyeom Kim, Hyun		
10:00 10:10		The effect of nintedanib in post-COVID-19 lung fibrosis: an observationa	l study	
12:00-12:10	A015-6	Pimchanok Patanayindee (Thailand)*, Narongkorn Saiphoklang, Pitchayapa Ru	ıchiwit	
12:10-12:20	A015-7	Short Term Effects in Pulmonary Function and Chest High Resolution Cor Tomography Scan Among COVID-19 Recovered Adult Patients in a Tertial Davao City	•	
		Benjo Ato (Philippines)*, Christoper John Quadra, Jessie Orcasitas, Maria Theres Al Patrick Alajas	sa Sanchez,	
12:20-12:30	A015-8	Characteristics, Management, and Outcomes of COVID-19 Patients Admi Private Hospital in Naga City, Camarines Sur: A Retrospective Cohort Stu	•	
		Angelo Roleo Battung (Philippines)*, James Omana, Jose Manuel Ranola III		
	AO15-9	Methyprednisolone versus Dexamethasone for severe COVID-19 infectio A retrospective comparative analysis of our early experience.	n:	
12:30-12:40		Chun Ian Soo (Malaysia)*, Khai Vern Poon, Atiqah Ayub, Hui Wen You, Cai Xian Ta Jia Juin Kenneth Loh, Chai Hui Carolyn Eng, Leng Cheng Sia, Nur Husna Ibrahim, K Thian Chee Loh, Vijayan Munusamy, Mau Ern Poh, Jiunn Liang Tan, Yong Kek Pan Chong Kin Liam, Chee Kuan Wong	Ka Kiat Chin,	

Oral 16		11:10-12:40	Grand Ballroom 104 (1F)
Tuberculosis	- Tuberculos	is and Others	
Chair	Joonsung	Joh (National Medical Center, Republic of Korea)	
11:10-11:20	A016-1	Comparison between phenotypic and whole-ger testing in multi-drug resistant Mycobacterium t	
		Seung Heon Lee (Republic of Korea)*, Jee Youn Oh, Sungweon Ryu, Hyung Seok Kang, Jungmin Choi, Shi Yon Ju Ryu, Yong II Hwang, Jaekap Lee	
11:20-11:30	A016-2	False positive rifampicin resistant results by Xpo Singapore Tuberculosis Control Unit	ert MTB/RIF point-of-care testing at the
		Caroline Victoria Choong (Singapore)*, Jerlyn Huix	ian Woo, Lovel Galamay, Cynthia Bin Eng Chee
11:30-11:40	A016-3	Frequency and probe distribution of rpoB mutar Tuberculosis Control Unit Singapore	tions detected by Xpert MTB/RIF in
		Jerlyn Huixian Woo (Singapore)*, Caroline Victoria (Choong, Lovel Galamay, Cynthia Bin Eng Chee
	A016-4	Minimum Inhibitory Concentration of Bedaquilin Mycobacterium Tuberculosis clinical isolates in	
11:40-11:50		Hee Joo Lee (Republic of Korea)*, Seungmo Kim, Hw Hyeon-Su Kim, Jong-Myun Song, Dae-Seon Han, Hor Sujin Chae, Gyeongin Lee, Seung-Heon Lee, Hyejin Ki	ngsu Jeong, Sodan Nam, Choi Jimin,
14,50,40,00	A016-5	Isoniazid-resistant tuberculosis is associated wi multicenter cohort study of pulmonary tubercu	
11:50-12:00		Jiwon Ryoo (Republic of Korea)*, Yeonhee Park, Ju S Jin Woo Kim, Yong Hyun Kim, Sang Haak Lee, Jinsoo	
12:00-12:10	AO16-6	The proportion of latent tuberculosis infection underschold contact with drug-resistant tubercules Preliminary report	•
		Cahyo Guntoro (Indonesia)*, Fathiyah Isbaniah, Heid	dy Agustin
12:10-12:20	A016-7	Cardiac dysfunction in Active Pulmonary Tubero Interventional study in tertiary care setting in In	
		Shital Patil (India)*, Rajesh Patil, Gajanan Gondhali, La	axman Kasture, Abhijit Acharya
		Nutritional Status of Hospitalized Tuberculosis F	Patients In South Kalimantan, Indonesia
12:20-12:30	AO16-8	Elok Hikmatun Nikmah (Indonesia)*, Mohammad Is Haryati Haryati, Erna Kusumawardhani, Desi Rahmaw	
12:30-12:40	AO16-9	Clinical Profile and Outcomes of Covid 19 Patien Tuberculosis: A Cross Sectional Study at Vetera	•
	7.0 10 3	Geramie Acebuque (Philippines)*, Chona De Vera	



Oral 17		11:10-12:40 Grand Ballroom 105 (
Lung Cancer	- Treatment	and Biomarker
Chair	Seung Hu	in Jang (Hallym University College of Medicine, Republic of Korea)
11:10-11:20	1047.4	Identification of predictive factors for early relapse in patients with unresectable stage II NSCLC receiving consolidation durvalumab after concurrent chemoradiation
	A017-1	Jung Hyun Nam (Republic of Korea)*, Chang Dong Yeo, Chan Kwon Park, Sung Kyoung Kim, Ju Sang Kim, Yong Hyun Kim, Jin Woo Kim, Seung Joon Kim, Sang Hak Lee, Hye Seon Kang
		Evaluation of Blood Tumor Mutation Burden for Efficacy of Second- Line Atezolizumab Treatment in Non-small Cell Lung Cancer: BUDDY trial
11:20-11:30	A017-2	Cheol-Kyu Park (Republic of Korea)*, Ha Ra Jun, Hyung-Joo Oh, Ji-Young Lee, Hyun-Ju Cho, Young-Chul Kim, Jeong Eun Lee, Sung Hoon Yoon, Chang Min Choi, Jae Chul Lee, Sung Yong Lee, Shin Yup Lee, Sung-Min Chun, In-Jae Oh
		Soluble PD-L1 levels correlate with efficacy of PD-1/PD-L1 inhibitors in lung cancer
11:30-11:40	A017-3	Da Hyun Kang (Republic of Korea)*, Jeong Suk Koh, Chaeuk Chung, Dongil Park, Song-I Lee, Jeong Eun Lee
14.70 14.50	A017-4	Real-world analysis of the EGFR T790M mutation in plasma and tissue biopsy from advanced non-small cell lung cancer
11:40-11:50		Eun Hye Lee (Republic of Korea)*, Se Hyun Kwak, Chi young Kim, Sang Hoon Lee, Eun Young Kim Yoon Soo Chang
11,50, 10,00	A017-5	Clinicopathologic characteristics of NSCLC patients with uncommon EGFR mutations in Korea
11:50-12:00		Hye Seon Kang (Republic of Korea)*, Kyu Yeon Kim, Jeong Uk Lim, Chang Dong Yeo, Ju Sang Kim Seung Joon Kim, Sang Haak Lee
12.00 12.10	1017.6	The clinical outcomes of different first-line treatment strategies in advanced non-small cell lung cancer patients with EGFR exon 20 insertion mutation
12:00-12:10	A017-6	Wei-Fan Ou (Taiwan)*, Yen-Hsiang Huang, Kuo-Hsuan Hsu, Jeng-Sen Tseng, Po-Hsin Lee, Tsung-Ying Yang
		Never-smoker small cell lung cancer had better chemotherapeutic response than smoke
12:10-12:20	A017-7	Ha-Young Park (Republic of Korea)*, Hyung-Joo Oh, Bo Gun Kho, Hong-Jun Shin, Cheol Kyu Park, Yu-II Kim, Young-Chul Kim, Taebum Lee, Yoo-Duk Choi, In-Jae Oh
12:20 12:20	A017.0	Prognostic values of baseline pulmonary functions in patients with non-small cell lung cancer under immunotherapy
12:20-12:30	A017-8	Jeong Uk Lim (Republic of Korea)*, Hye Seon Kang, Chang Dong Yeo, Ju Sang Kim, Chan Kwon Park, Jin Woo Kim, Seung Joon Kim, Sang Haak Lee

Oral 18		14:00-15:30 Grand Ballroom 103 (1F	
Environment	tal & Occupa	tional Health and Epidemiology	
Chair	Jun-Pyo N	1yong (The Catholic University of Korea College of Medicine, Repub	olic of Korea)
14:00-14:10	A018-1	Clinical Profile of COVID-19 Vaccinated Individuals who De A Systematic Review	veloped Breakthrough Infections:
		Stephanie Palacios (Philippines)*, Glenford Refre, Patricio Palm	es
		Involvement of RAGE and oxidative stress in chronic inflan	nmation
14:10-14:20	A018-2	Jimin Jang (Republic of Korea)*, Jooyeon Lee, Hyosin Baek, Jael Se Bi Lee, Se-Ran Yang	hyun Park, Sang-Ryul Cha,
1///0.1//50	4040.3	Combined association of climatic change, air pollution, an of respiratory diseases in 6-month-old infants	d green space exposure with risk
14:40-14:50	A018-3	Ji-Young Lee (Republic of Korea)*, Eunji Lee, Jongmin Oh, Dirga Yun-Chul Hong, Hye-Sook Park, Yanho Kim, Mina Ha, Eunhee Ha	
14:50-15:00	A018-4	Priming with cytokine B enhances therapeutic capacities of lung injury (ALI)	mesenchymal stem cells in acute
14.50-15.00		Jooyeon Lee (Republic of Korea)*, Hyosin Baek, Jimin Jang, Jael Se Bi Lee, Se-Ran Yang	hyun Park, Sang-Ryul Cha,
15:00-15:10	AO18-5	Trends of five year ambient air pollutant levels and hospital viral infection in Korean children	alization rate due to respiratory
	7.0.00	Jung Yeon Shim (Republic of Korea)*, Hyung Gyu Park, Sinae Ki	m, Miyeon Lee
15:10-15:20	A018-6	Effects of PM2.5 exposure on early alveolar development human pluripotent stem cell-derived alveolar organoid sys	
		Minje Kang (Republic of Korea)*, Seok-Ho Hong	
	A018-7	Incidence of silicosis and dust exposure among small-scal	e gold miners in Mongolia
15:20-15:30		Densenbal Dansran (Mongolia)*, Ichinnorov Dashtseren, Solon Byambadolgor Dagviikhorol, Bayanmunkh Tseden	go Bandi, Naransukh Damiran,



Oral 19		14:00-15:30 Grand Ballroom 104
Tuberculosis	- Drug Resist	tant Tuberculosis
Chair	Yong Soo	Kwon (Chonnam National University Medical School, Republic of Korea)
14:00-14:10	AO19-1	Features of radiological signs in patients with multidrug-resistant \text{\text{\text{W}}} extensively drug-resistant pulmonary tuberculosis
14.00 14.10	AU 19-1	Dmytro Butov (Ukraine)*, Mykhailo Kuzhko, Mykola Gumeniuk, Nadiya Sapelnik, Olena Borysova, Tetiana Butova
14:10-14:20	AO19-2	Infiltrate lesion area as a predictor of the likelihood of drug resistance tuberculosis in Indonesia South Sumatera
14.10-14.20	AU 19-2	Alif Fathurrachman (Indonesia)*, Miyuki Sari, Zen Ahmad, Linda Andriani, Sudarto Sudarto, Roully Pasaribu, Ahmad Rasyid, Erial Bahar, Yusri Muhamad
		Effectiveness of the WHO short treatment (STR) Regimen of MDR-TB
14:20-14:30	AO19-3	Sadia Sultana Resma (Bangladesh)*, Naeem Hossain, Tazrin Farhana, Kazi Saifuddin Bennoor, Md Ali Hossain, Mustafijur Rahman, Sheikh Shahinur Hossain, Mohammad Abdus Shakur Khan
	4010 (Treatment outcomes of multidrug-resistant tuberculosis with selective use of bedaquili delamanid guided by an expert committee: a nationwide cohort study in South Korea
14:30-14:40	AO19-4	Yong-Soo Kwon (Republic of Korea)*, Jung En Shin, Hyungseok Kang, Doosoo Jeon, Jae-Joon Yii Tae Sun Shim
	A019-5	Effectiveness and safety of Bedaquiline-based, modified shorter treatment regimen for Rifampicin resistant Tuberculosis in Vietnam
14:40-14:50		Thi Mai Phuong Nguyen (Viet Nam)*, Thi Hai Minh Le, Corinne Simone Collette Merle, Debora Pedrazzoli, Nhat Linh Nguyen, Tom Decroo, Binh Hoa Nguyen, Thi Thanh Thuy Hoang, Viet Nhung Nguyen
1/,50 15,00		The myelosuppressive effect of linezolid among drug-resistant tuberculosis patients in Mongolia
14:50-15:00	A019-6	Bolyskhan Baigabyl (Mongolia)*, Myadagmaa Jaalkhorol, Manaljav Tseden-Ish, Ichinnorov Dashtseren, Odgerel Tsogbadrakh
15:00-15:10	A019-7	Ethionamide-induced hypothyroidism in drug-resistance tuberculosis children: how frequently does it happen?
	7.0.10 7	Citra Cesilia (Indonesia)*, Muh. Akbar Tirtosudiro, Heda Melinda N. Nataprawira
15:10-15:20	A019-8	Sad TB lung: screening of anxiety and depression among multi drug resistant tuberculor in a tertiary hospital
	7.5.75	Jodie Bancod (Philippines)*
15:20 15:20	A010.0	Analysis of treatment success rates of drug resistant tuberculosis with all oral regimens South sulawesi
15:20-15:30	A019-9	Jamaluddin Madolangan (Indonesia)*, Irawaty Djaharuddin, Andi Julia Junus, Ratna Tahir, Uswatun Khasanah, Nurjanah Lihawa

Oral 20		14:00-15:30	Grand Ballroom 105 (1F)
Clinical Aller	gy & Immuno	- ology	
Chair	Tae-Bum	Kim (University of Ulsan College of Medicine, Republic of Korea)	
14:00-14:10	A020-1	Correlation of COVID-19 vaccine history and the duration of COVID-19 patients in Labuang baji hospital and Asrama haji	_
		Jamaluddin Madolangan (Indonesia)*, Irawaty Djaharuddin	
14:10-14:20	A020-2	Bronchial Thermoplasty or Biologics for Severe Asthma: A Systematic Review and Network Meta-Analysis	
		Pyng Lee (Singapore)*, Khi Yung Fong, Nicholas Syn, Joseph Zhac	
1/20 1/20	AO20-3	The effectiveness of IL-6 and PD-1 antibody blockade combi model of sepsis	ination therapy in a murine
14:20-14:30		Song-I Lee (Republic of Korea)*, Nayoung Kim, Chaeuk Chung, Do Jeong Eun Lee	ongil Park, Da Hyun Kang,
		Severe asthma is associated with adverse COVID-19 outcom	nes
14:30-14:40	A020-4	Yong Chul Lee (Republic of Korea)*, Jae Seok Jeong, Hae Jin Park Hee Jung Kim, Yeong Hun Choe, So Ri Kim	, Kyung Hwa Park,



Oral 21		14:00-15:30	ASEM Ballroom 202+203 (2F)
Respiratory I	Neurobiolog	and Sleep	
Chair	Sang Haal	Lee (The Catholic University of K	orea College of Medicine, Republic of Korea)
1 (-00 1 (-10	AO21-1	Effects of chronic intermitte elderly mouse model	nt hypoxia on bleomycin induced interstitial pulmonary fibrosis
14:00-14:10	AU2 1-1	Heayon Lee (Republic of Korea Chang Dong Yeo, Sang Haak Le	a)*, Sei Won Kim, Hwan Hee Kim, Sukjin Bae, In Kyoung Kim, ee
1/10 1/100	AO21-2	3 1	airment and the effect of continuous positive airway pressure nong patients with obstructive sleep apnoea (OSA)
14:10-14:20	AU2 1-2	Muhammad Farid Mohd Fau Noor Azleen Ahmad Tarmizi	ad (Malaysia)*, Ahmad Izuanuddin Ismail, Shalini Bhaskar,
		Impact of change in CPAP in short-term adherence.	itiation practice during COVID-19 pandemic on acceptance and
14:20-14:30	A021-3		than Teow Koon Goh, Heng Lun Lee, dul Rahim, Karen Chin, Kathy Chan, Ryan Loh, Cherlyn Koh,
14:30-14:40	A021-4	OSAHS can induce retinal m	crovascular abnormalities
14.30-14.40	A021-4	Yina Wang (China (Mainland))*	, Silei Deng, Jingjie Kuan, Xiao Xiao, Liang Zhou
	A021-5	Factors affecting CPAP adhe	erence in Thai patients with obstructive sleep apnea
14:40-14:50		Narongkorn Saiphoklang (Th Shayada Suksupakit, Nithita Sa	nailand)*, Kanyada Leelasittikul, Apiwat Pugongchai, ttaratpaijit
14:50-15:00	A021-6	Intermittent hypoxia up regi CX3CL1/CX3CR1	ulates mTOR expression in hepatic macrophages through
	7.02.	Yayong Li (China (Mainland))*,	Yina Wang
45.00 45.40	1004 7	IH can induce apoptosis of n	nacrophage
15:00-15:10	A021-7	Yina Wang (China (Mainland))*	i, Jingjie Kuang, Silei Deng, Xiao Xiao, Yuanguo Chen, Yayong Li
15:10-15:20	A021-8		ta-analysis on the efficacy of telemedicine compared to n promoting CPAP compliance among OSA patients
.5.10 10.20	7.02.1.0	Brian Nelson Ong (Philippines)*, Ryan Martin Denopol, Racquel Ibanez, Maria Cecilia Jocson

Oral 22		15:50-17:20	Grand Ballroom 103 (1F)
Respiratory I	nfections (n	on-tuberculous) - NTM	
Chair	Jusang Ki	m (The Catholic University of Korea College of Medicine, Republic o	of Korea)
45 50 46 00		Risk factors for mortality and progressive disease of nont lung disease: a systematic review and meta-analysis	tuberculous mycobacterial
15:50-16:00	A022-1	Hyeontaek Hwang (Republic of Korea)*, Jung-Kyu Lee, Eun Yo Hyun Woo Lee	ung Heo, Deog Kyeom Kim,
16:00 16:10	4022.2	Risk of Mycobacterium avium complex-lung disease and single nucleotide polymorphisms in programmed cell dea	th-1 gene
16:00-16:10	A022-2	Sheng-Wei Pan (Taiwan)*, Chin-Chung Shu, Jia-Yih Feng, Lawr Jann-Yuan Wang, Wei-Juin Su, Yuh-Min Chen, Hao-Chien Wang	
16:10 16:20	4022.2	Spatial analysis and population genomics study of Mycob southern Taiwan	acterium kansasii in
16:10-16:20	A022-3	Bo-Chen Liu (Taiwan)*, Hung-Ling Huang, Po-Liang Lu, Inn-We Hsien-Ho Lin	n Chong, Jann-Yuan Wang,
16:20 16:20	4022 (Another Step into the BACES: Validation of the Prognostic Mycobacterial Pulmonary Disease	c Score for Nontuberculous
16:20-16:30	A022-4	Hyung-Jun Kim (Republic of Korea)*, Myung Jin Song, Byoung Sung Yoon Lim, Yeon-Joo Lee, Jong Sun Park, Young-Jae Cho, C	
16:30-16:40	A022-5	Nomogram for Predicting Mortality in Patients with Mycoba Pulmonary Disease	acterium avium Complex
	7.022 0	Sol Kim (Republic of Korea)*, Youngmok Park, Yoon Ho Noh, You	ung Ae Kang
16:40-16:50	A022-6	The clinical characteristics of Mycobacterium fortuitum p treatment outcomes	ulmonary disease and the
	7.022	Sae Rom Kim (Republic of Korea)*, Byung Woo Jhun	
16.50 17.00	4000 7	Effect of computed tomography-measured body compos Mycobacterium avium complex pulmonary disease patien	
16:50-17:00	A022-7	Eun Ki Chung (Republic of Korea)*, Young Mok Park, Moo Suk F Jeong Lee, Young Ae Kang	Park, Young Sam Kim, Hye
17,00 17,10	4022.6	Mediastinal masses and collections in culture-positive me 4-year review in northern Sabah, Borneo	elioidosis:
17:00-17:10	A022-8	Larry Ellee Nyanti (Malaysia)*, Amalina Abu Othman, Yen Lik C Nur Siti Fatimah Mohamad Jamil, Hema Yamini Ramarmuty, Kur	
17:10-17:20	A022-9	A study on the relationship of differenct comorbidities wi changes in COVID-19 patients using minimally invasive tis	
	, toll 5	Animesh Ray (India)*	



Oral 23		15:50-17:20	Grand Ballroom 105 (1F
COPD			
Chair	Chong-Je	n Yu (Taiwan)	
15:50-16:00	A023-1	Benefits of budesonide/glycopyrronium/formoterol fu versus dual therapies in patients with COPD and addition post-hoc analysis of KRONOS and ETHOS	
		Munehiro Seki (Japan)*, Shigeo Muro, John R. Hurst, David F Ayman Megally, Mehul Patel	Petullo, Patrick Darken,
16:00-16:10		Risk factors of disease progression in young patients w	vith COPD
	A023-2	Juye Bae (Republic of Korea)*, Hyun Woo Lee, Kwang Yong (Tae Yeon Park, Deog Kyeom Kim, Eun Young Heo	Choi, Hyo-Jin Lee, Jung-Kyu Lee,
		Exercise performance on the prognosis of mild and mo	oderate COPD
16:10-16:20	A023-3	Ji Won Park (Republic of Korea)*, Joo Hun Park, Ji Eun Park, Chin Kook Rhee	Kwang Ha Yoo, Ki-Suck Jung,

Oral 24		15:50-17:20	ASEM Ballroom 202+203 (2F)
Bronchoscop	y and Interv	entional Techniques	
Chair	Kyung Jor	ng Lee (Sungkyunkwan University School of Medicine, Republic	c of Korea)
15:50-16:00	A024-1	Safety and Efficacy of Transbronchial Lung CrYO Biops Fibrotic Lung Disease - "Biopsies and Beyond"	sy vs Forceps Biopsy in diagnosis of
		Umang Shah (India)*	
16:00-16:10	A024-2	Cryobiopsy for peripheral pulmonary lesions using 1.1 without fluoroscopy	mm cryoprobe and guide sheath
		Dongil Park (Republic of Korea)*, Jeong Eun Lee, Chaeuk Cl	hung, Da Hyun Kang
16:10-16:20	A024-3	Transbronchial biopsy by radial probe endobronchial uusing a novel 1.1-mm diameter cryoprobe	ıltrasound followed by cryobiopsy
10.10 10.20	A024 3	Jung Seop Eom (Republic of Korea)*, Soo Han Kim, Jeongh Kwangha Lee, Ki Uk Kim, Hye-Kyung Park, Min Ki Lee	a Mok, Mi Hyun Kim, Eun Jong Jo,
16:20-16:30	A024-4	Thoracic Vent versus Conventional Intercostal Tube Dr Pneumothorax in University Kebangsaan Malaysia Me	-
10.20-10.30	A024-4	Nik Nuratiqah Nik Abeed (Malaysia)*, Azat Azrai Azmel, Ar Mas Fazlin Mohamad Jailaini, Syed Zulkifli Syed Zakaria, Moh	9
10:20 10:70	A024-5	The value of finer rigid medical thoracoscope in "APC-p spontaneous pneumothorax (PSP)	plus" for the treatment of primary
16:30-16:40		Hua Zhang (China (Mainland))*, Guangwei Xue, Zhongmei S Zongtao Liu, Changsheng Ge, Zhigang Zheng	Sun, Wei Zhang, Weiwei Xu,
	A024-6	Endobronchial valves for emphysema and persistent a Asian Country	ir-leak: 9-year experience in one
16:40-16:50		Jin-Young Huh (Republic of Korea)*, Byeong-Ho Jeong, Ho Changhwan Kim, Seung Jun Lee, Hwan hee Kim, Seung Wor Sung Kyoung Kim, Ki Hyun Seo, Sei Won Lee	
40.50 47.00	1007.3	Feasibility and safety of pleural biopsy using rigid forc thoracoscopy	eps in semi-rigid medical
16:50-17:00	A024-7	Ganghee Chae (Republic of Korea)*, Chuiyong Pak, Jin Hyot Kwang Won Seo, Jong Joon Ahn, Taehoon Lee	ung Kim, Seung Won Ra, Yangjin Jegal,
17:00-17:10	A024-8	Clinical outcomes of bronchoscopic cryotherapy for ce 11-year experience of single center	entral airway obstruction in adults:
	71024 0	Jong Hwan Jeong (Republic of Korea)*, Wonjun Ji, Chang-N	Min Choi
		Trends and an online survey on the use of rigid bronch used recently?	oscopy in Korea: Too old style to be
17:10-17:20	A024-9	Byeong-Ho Jeong (Republic of Korea)*, Sang Haak Lee, Hw Young Sik Park, Jaeyoung Cho, Taehoon Lee, Seung Joon Ki Yousang Ko, Yong-Soo Kwon, Changhwan Kim, Wonjun Ji, Cl Hae-Seong Nam, Hojoong Kim	m, Hyeong Jun Cho, Chan Kwon Park,



POSTER EXHIBITION

inical Respir	ratory Medicine
	Plastic bronchitis presenting as incessant sputum expectoration: a case report
AP01-37	Kriselle Felicia Lumunsad (Philippines)*, Emily Aventura, Christine Chavez, Jay Andrew Ilagan, Noel Michael Supremo, Annaleene Michelle Ferrater-Alcober, Mirasol Aboga-Pacheco
AP01-38	The interest of bronchoscopy in diagnosis of the patients with non-resolving pneumonia in Calmette Hospital, Phnom Penh, Cambodia
	Menghak Heng (Cambodia)*, Bunpaul Chhar, Sarin Chan, Chanty Ny, Mich Vann
	Rapidly growing tracheal granulation causing tracheal obstruction: a case report
AP01-39	Shun Takao (Japan)*, Shoshi Akieda, Ren Seike, Jun Yano, Shohei Mishima, Yusuke Takayama, Takahiro Mimae, Hiroyasu Shoda, Yoichi Hamai, Kentaro Tamura, Yasuo Iwamoto, Yoshihiro Miyata
AP01-40	An incidental finding of an endobronchial lesion.
APO 1-40	Wei Lien Rita Lai (Singapore)*, Kim Hoong Yap, Wei Keong Alan Ng
	Bronchial mass in meningioma patient: A case report and review of literature
AP01-41	Harik Firman Thahadian (Indonesia)*, Nur Rahmi Ananda, Ika Trisnawati, Heni Retnowulan, Bambang Sigit Riyanto, Eko Budiono, Sumardi Sumardi
	Pulmonary edema after propofol infusion in the operative and postoperative periods
AP01-42	Youngeun Jang (Republic of Korea)*, Ki Up Kim, Bo Young Lee, Soo-taek Uh, Yang Ki Kim, So My Koo, Se Yoon Park, Bo-Da Nam, Young-Woo Park, June Young Jang
AP01-43	Feasibility study of home-based Pulmonary Rehabilitation (PR) in Bangladesh
410145	GM Monsur Habib (Bangladesh)*, Roberto Rabinovich, Nazim Uzzaman, Aftab Uddin, Hilary Pinnock
AP01-44	Effectiveness of an outpatient pulmonary rehabilitation program in patients with chronic obstructive lung diseases; a pilot study
APU 1-44	Mohamed Rikas (Sri Lanka)*, Chamoda Jayasinghe, Renuka Dasanayaka, Surangika Wadugodapitiya, Duminda Yasaratne
AP01-45	Patient's perception of Pulmonary Rehabilitation in Bangladesh
APU 1-45	GM Monsur Habib (Bangladesh)*, Roberto Rabinovich, Nazim Uzzaman, Aftab Uddin, Hilary Pinnock
N DO1-46	A Case of Necrotizing Sarcoidosis with Reversible Cognitive Disorder and Mimicking Cushing syndrome
AP01-46	Yuka Nagae (Japan)*, Saeko Nagai, Ayako Ito, Touhei Yamaguchi, Nobuhisa Yonemitsu, Koujirou Nakao, Kouichiro Takemoto, Yuji Sagara, Hiroaki Senju, Misato Adachi, Yoshifumi Soejima
\D01_47	Guillain-Barre syndrome as a rare initial presentation of Antiphosphospholipid syndrome
AP01-47	Nurgul Naurzvai (Turkey)*, Nurdan Kokturk, Bijen Nazliel, Melda Turkoglu
ND01-40	The Sleeping Giant Finally Awakens: Diagnostic and Therapeutic Dilemmas of A Large Solitary Fibrous Tumor of the Diaphragm
AP01-48	Krista Mae Paulino (Philippines)*, Christina Uy

AP01-49	Low frame rate dynamic chest radiography as a tool for investigating diaphragm dysfunction
APU 1-49	Thomas Simon FitzMaurice (United Kingdom)*, Caroline McCann, Ram Bedi, Dilip Nazareth, Martin Walshav
	A lady with blistering skin rash and "Lungs on Fire"
AP01-50	Niranjan Chandramal (Sri Lanka)*, Asha Samaranayake, Buddhika Alahakoon, Ananda Jayanaga, Harindra Karunathilaka, Ravini Karunathilaka
AP01-51	The impact of colony morphotype on clinical courses of patients with Mycobacterium avium complex pulmonary disease
	Jihoo Lee (Republic of Korea)*, Jaejoon Yim, Nakwon Kwak, Hyeryung Oh, Jeonseong Yan, Jake Whang
AP01-52	Understanding the implementation of PR in Bangladesh using Normalization Process Theory
AF0 1-52	GM Monsur Habib (Bangladesh)*, Roberto Rabinovich, Nazim Uzzaman, Aftab Uddin, Hilary Pinnock
AP01-53	Can we combine advances in evidence based medicine and behavioural economics strategies to improve diagnosis in respiratory medicine?
	Tow Keang Lim (Singapore)*, Chia Meng Teoh, Mei Ying Chew, Jeff Ng
AD01 F/	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?
AP01-54	Sanjaya Sumanasinghe (Sri Lanka)*, Hasitha Dissanayake, Thilina Munasinghe, Kokilaa Wijerathne, Sumedha Samankantha
	Impacts of clinical training on experience and knowledge of respiratory diseases among post-graduate year (PGY) 1 and 2 residents.
AP01-55	Yoko hamakawa (Japan)*, Satoshi Marumo, Ryo Yamanaka, Hiromitsu Ueki, Ryota Kishi, Yuta Sakano, Hirotaka Tamesada, Shiori Jinnno, Chie Morimoto, Takamitsu Imoto, Takamasa Kitajima, Daiki Inoue, Motonari Fukui
	MALT Lymphoma Masquerading as Organizing Pneumonia as the First Manifestation
AP01-56	Mohd Zhafran Zainal Abidin (Malaysia)*, Hui Xin Tan, Yen Shen Wong, Affida Ahmad, Aisya Natasya Musa, Mohd Arif Mohd Zim
AD01 F7	Clinical audit on Discharge Summary Post-Non invasive ventilation
AP01-57	Dawpadee Dharmasena (United Kingdom)*, Sanka Vijayabandara, 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
	Sugeesha Wickramasinghe (United Kingdom)*, Verity Ford, Emily Nuttall



AP01-61	Comparing current treatment practice in patients with bronchiectasis in tertiary respiratory care setting with standard international guidelines - An audit
	Sugeesha Wickramasinghe (Sri Lanka)*, Saman Kularatne
A DO4 60	Outcome of telepharmacy service in asthma and COPD clinic in Thailand.
AP01-62	Sirin Phenphinan (Thailand)*, Watchara Boonsawat, Sunee Lertsinudom
AP01-64	High Flow Nasal Cannula in Hypoxemic Patients with COVID-19 in Philippine Heart Center: a cross-sectional study
	Kristine Gail Sy (Philippines)*, Ma. Encarnita Limpin
AP01-65	Diffuse Alveolar Hemorrhage After an Ovum Pick-Up Procedure Induced by Inhalational Sevoflurane - A case report
	Hye Sung Khil (Republic of Korea)*, Sue In Choi, Byung Keun Kim, Won jai Jung, Eun Joo Lee, Sang Yeub Lee
AP01-66	Pulmonary rehabilitation in the time of pandemic: outcomes of online pulmonary rehabilitation in a tertiary institution.
AF0 1-00	Rachelle Mae Legaspi (Philippines)*, Camille San Miguel, Guinevere Dy-Agra, Rodolfo Pagcatipunan, Celeste Mae Campomanes, Kurt Tolentino, Matthew Lee
AP01-718	Case report and literature review of Plastic bronchitis characcterized by refractory hemoptysis.
AI 01 710	Yan Gu (China (Mainland))*, Wanting Zhang
Cell and Molecu	ular Biology
AD02.75	Comparison of the phenotype of united airway disease between fungus-induced severe allergic lung inflammation and respiratory SARS-CoV-2 infection in mice
AP02-75	Yeogha Yoon (Republic of Korea)*, Wankyu Kim, Hae Jin Park, Kyung Hwa Park, So Ri Kim, Yeong Hun Choe, Jae Seok Jeong, Yong Chul Lee
AP02-76	Patient-derived lung organoid on a chip platform as a new alternative method for pulmonary disease modeling and drug discovery
	Seo-Hee Yang (Republic of Korea)*, Eun-Young Eo, Ji-Yeon Park, Hyung-Jun Kim, Young-Jae Cho
Clinical Allergy	& Immunology
AP03-79	Effect of supplement vitamin C on IL-6 (interleukin 6) and IL-10 (interleukin 10) level health care worker in dr. soetomo academic hospital in COVID-19 pandemic
	Nisya Hapsari (Indonesia)*, Laksmi Wulandari
	The impact of one-year treatment with dupilumab in patients with severe asthma
AP03-80	Sumiko Abe (Japan)*, Norihiro Harada, Yuuki Sandhu, Hitoshi Sasano, Yuuki Tanabe, Sonoko Harada, Ai Goto, Takayasu Watanabe, Yoshihiko Sato, Takayasu Nishimaki, Yukari Kato, Shoko Ueda, Tomohito Takeshige, Jun Ito, Ryo Atsuta, Kazuhisa Takahashi
	The role of IL-1 β and IL-10 as a predictive factors for COVID-19 severity
AP03-81	Sakina Sakina (Indonesia)*, Resti Yudhawati
	NLRP3 inflammasome is critically implicated in SARS-CoV-2-induced aggravation of severe asthma in mice
AP03-82	Jae Seok Jeong (Republic of Korea)*, Hae Jin Park, Kyung Hwa Park, Hee Jung Kim, Yeong Hun Choe,

AP03-83	Aero allergen sensitivity pattern in patients with Allergic Rhinitis and Asthma in Southern India
	Manimaran Marappan (India)*
AP03-84	Lungs and kidneys tying the knot in the era of covid pandemic
	Madhushi Nanayakkara (Sri Lanka)*, Chandana Dahanayaka, Ayesha Jayawardana, Malinda Hettiarachchi, Dinith Galabada, Eshanth Perera
AP03-85	Qualitative serologic antibody response using lateral flow immunoassay (Rapid IgG/IgM Diagnostic Test) in the different illness severity of COVID-19 Pneumonia
	Mark Christian Agase (Philippines)*, Ma. Encarnita Limpin, Emily Aventura
AP03-86	CD2 shown to facilitate CD4+ cell differentiation in Visceral Leishmaniasis patients, a receptor based study
	Sukrat Sinha (India)*
Environmental	and Occupational Health and Epidemiology
AP04-100	A case of humidifier lung diagnosed after repeated admission
	Seoung Ju Park (Republic of Korea)*, Hwan Jin Lee, Yeong Hun Choe, Heung Bum Lee
AP04-101	Effect of fine dust on lung disease
APU4- IU I	Yejin Lee (Republic of Korea)*
AP04-102	Progressive Massive Fibrosis, a case of diagnostic dilemma.
	Madhushi Nanayakkara (Sri Lanka)*, Chandana Dahanayaka, Ayesha Jayawardana, Praveen Sumithrarachchi, Malinda Hettiarachchi, Ramani Punchihewa, Sumudu Palihawadana, Eshanth Perera
AP04-103	Can a Web-App based physical activity promotion program improve cardiovascular symptoms of midlife women?
	Wonshik Chee (United States of America)*, Eun-Ok Im
AP04-104	A Retrospective Cohort Study on the Outcomes of Participants of the DOH-LCP Quitline Program from 2017-2020
	Marra Monique Cantela (Philippines)*, Glynna Cabrera
AP04-105	Toxicity evaluation of environmental pollutant using human small airway epithelial cells (SAEC) cultured under the air-liquid interface (ALI)
	Sun Young Kyung (Republic of Korea)*, Eun Suk Son, Se-Hee Kim, Young Eun Lee, Jeong-Woong Park, Sung Hwan Jeong
AP04-106	Various daily health practices to reduce particulate matter in vulnerable and susceptible individuals
	Hyun Woo Ji (Republic of Korea)*, Dae Ryoung Kang, Yong Jin Lee, Jin-Bae Kim, Yeong-Bae Lee, Changsoo Kim, Jaelim Cho, Mi-Ji Kim, Jungwoo Sohn, Ji Ye Jung
AP04-107	Gene expression changes in lung induced by subacute inhalation of PM10-rich particulate matter in mice
	Sung-Woo Park (Republic of Korea)*, Jisu Hong, Jong-Uk Lee, Hyesun Shin, Su Sie Chin, Ki-Joon Jeon, Sung Hwan Jeong



AP04-108	Characteristics and advantages of silicosis utilized a murine model
	Hyosin Baek (Republic of Korea)*, Se-Ran Yang, Jooyeon Lee, Jaehyun Park, Jimin Jang, Sang-Ryul Cha, Sebi Lee
AP04-109	Long-term air pollution exposure are associated with PRISm and chronic respiratory symptoms: Predictive Value of Inflammatory Biomarkers and FEV1 for COPD (PIFCOPD) Study
	Shanshan Wei (China (Mainland))*, Jiping Liao, Tao Xue, Xiuhua FU, Ruiying Wang, Xiaomin Dang, Cheng Zhang, Hua Qiao, Shujuan Jiang, Jianhong Xiao, Lixia Dong, Jinzhi Yin, Xixin Yan, Weihua Jia, Guifang Zhang, Rui Chen, Bo Zhou, Beibei Song, Jing Li, Mengyu Yin
AP04-110	Anti-fibrotic effect of dipeptide A during progression of chronic fibrosis
	Jaehyun Park (Republic of Korea)*, Jooyeon Lee, Hyosin Baek, Jimin Jang, Sang-Ryul Cha, Se Bi Lee, Se-Ran Yang
AP04-111	Associations between particulate matter and COPD-related genes using RNA-sequencing analys
	Jeeyoung Kim (Republic of Korea)*, Hawon Song, Sun Shim Choi, Chang-Hoon Lee, Chang Hyun Lee, Woo Jin Kim
Respiratory In	fections (non-tuberculous)
AP05-180	Deep learning-based chest radiograph severity score and its change predict all-cause mortality of patients with Mycobacterium avium complex pulmonary disease
	Joong-Yub Kim (Republic of Korea)*, Hyun Woo Lee, Hyung-Jun Kim, Jae Ho Lee, Jae-Joon Yim, Nakwon Kwak, Soon Ho Yoon
AP05-181	Characteristics of patients with idiopathic bronchiectasis in South Korea
	Seo-Young Hwang (Republic of Korea)*, Yeon-Mok Oh
AP05-182	Analysis of influencing factors for quality of life in patients with bronchiectasis based on clinical research
	Feng Song (China (Mainland))*, Yan Wang, Zile Ji, Baichuan Xu, Peng Zhang, Yang Xie
AP05-183	Correlation between lactate dehydrogenase and severity clinical degree of COVID-19 patients
	Halina Julia (Indonesia)*, Fajrinur Syarani, Muntasir Abdullah, Putri Chairani Eyanoer, Ranti Permatasari
AP05-184	Clinical Features of SGTF-infected Patients of SARS-CoV-2
	Triya Damayanti (Indonesia)*, Siti Aliyah Said Utriyani, Nurindah Saloka Trisnaningrum, Primadea Kharismarini, Azlina Darsaniya Wandawa, Mohamad Rizki, Budi Haryanto, Aisyah Aminy Maulidina, Erlina Burhan
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AP05-187	A descriptive cross-sectional study on prevalence of respiratory diseases among patients visiting Jiri District Hospital, Nepal.
	Kiran Paude l (Nepal)*, Durga Rijal, Tara Ballav Adhikari, Sandesh Bhusal, Rajan Paudel, Bikram Paudel, Milan Gaihre, Surya Devkota
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	Katerine Junaidi (Indonesia)*, Russilawati Russilawati, Oea Khairsyaf, Deddy Herman, Afriani Afriani
AP05-189	Covid infection complicated with bilateral spontaneous pneumothoraces - A rarely described entity
	Sugeesha Wickramasinghe (United Kingdom)*, Syed Mehdi, Sharada Gudur
AP05-190	The treatment outcomes of cavitary Mycobacterium avium complex pulmonary disease according to the use of amikacin or streptomycin
	Seong Min Kim (Republic of Korea)*, Tae Sun Shim, Kyung-Wook Jo
AP05-191	Comparison of the pneumonia incidence on chest radiography according to vaccination among COVID-19 patients under 50 years old
	Yong Shik Kwon (Republic of Korea)*, Seong Hwan Youn, Mi-ae Kim, Hyun Jung Kim, Jae Seok Park, Sun Hyo Park, Ji Yeon Lee, Jin Young Kim
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	Ayesha Jayawardana (Sri Lanka)*, Madushi Nanayakkara, Chandana Dahanayake, Malinda Hattiarachchi, Eshanth Perera
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	Eugene Borodin (Russia)*, Paul Borodin
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	Yang Xie (China (Mainland))*, Jiaming Ren, Nannan Guo, Peng Zhang, Feng Song
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	Mayuka Yamane (Japan)*, Akihito Yokoyama
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	Masaki Fujita (Japan)*, Rintaro On, Takemasa Matsumoto, Yusuke Ohsaki, Tomaya Saasaki
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	Changhwan Kim (Republic of Korea)*, Young Seok Lee, Jae Young Moon, Sung Hyun Kim, Sun-hyung Kim, Youjin Chang, Woo Hyun Cho, Won-Young Kim, Won Jai Jung, Sun Jung Kwon, Ho Cheol Kim, Kwang Ha Yoo
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	Sunghoon Park (Republic of Korea)*, Kyu Jin Lee
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	Brian Lee Wei Chua (Singapore)*, Youxin Puan, Timothy Toh, Isaac Fong, Yi Hern Tan
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	Maria Theresa Go-Magsino (Philippines)*, Earl Louis Sempio
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AP07-382	Mas Fazlin Mohamad Jailaini (Malaysia)*, Andrea Yu-Lin Ban, Boon Hau Ng, Nik Nuratiqah Nik Abeed, Azat Azrai Azmel, Syed Zulkifli Syed Zakaria, Mohamed Faisal Abdul Hamid
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AP07-383	Youlim Kim (Republic of Korea)*, Chin Kook Rhee, Yong II Hwang, Yong Bum Park, So Eun Lee, Doik Lee, Kwang Ha Yoo
	A study to understand the portion and characteristics of patients with suboptimal peak inspiratory flow rate in dry powder inhaler users for COPD in Korea
AP07-384	Ji-Yong Moon (Republic of Korea)*, Youlim Kim, Chin Kook Rhee, Seung Won Ra, Chang Youl Lee, Joo Hun Park, Yong Bum Park, Kwang Ha Yoo
AD07 205	Advances in the treatment of respiratory failure by external diaphragmatic electrical stimulation
AP07-385	Yan Gu (China (Mainland))*, Meina Wang
AP07-386	A COPD patient with persistent decompensated type II respiratory failure with acidosis not responding to Bi-level ventilation
	Eamon Sweeney (Australia)*, Simon Proctor, Lewis Xiao, Vinod Aiyappan
AD07 207	A rare case of combined pulmonary fibrosis and emphysema complicated with an aspergilloma
AP07-387	Madushanka Rathnayake (Sri Lanka)*, Lakmini Dassanayake, Ruvanthi Jayasekara, Amitha Fernando
1007 200	Tiotropoum survey on practice patterns among clinicians in Sri Lanka: The TRUST survey
AP07-388	Vaibhav Gaur (India)*, Thushara Galabada, Snehal Vishwakarma, Jaideep Gogtay
AP07-389	Correlation of clinical COPD questionnaire(CCQ) with BODE index in stable patients of chronic obstructive pulmonary disease - a cross-sectional study
	Aparna Chatterjee Aparna (India)*, Debraj Jash Debraj
AD07-300	Analysis of the relationship between quality of life, physical activity and prognostic index in individuals with COPD
AP07-390	Carolina Castellari (Brazil)*, Rodrigo Luiz, Marilia Ferreira, Thais Freire, Mariana Oliveira, Adriana Sousa,

AP07-391	Smartphone enabled informatics platform for the self-management of COPD in India
	Ashwani Verma (India)*, Ashok Behera, Monirul Islam
AP07-391	Psychometric Analysis of the newly translated Malaysian version of COPD Self-Efficacy Scale by Rasch analysis
	Muhammad Qamar (Malaysia)*, Amudha Kadirvelu, Sivalal Sadasivan, Cai Lian Tam, Sohail Ahmad, Ahmed Izuanuddin Ismail
AP07-393	The characteristic of decision making withdrawal or withholding in patients with terminal chronic pulmonary disease in tertiary hospital after The Hospice, palliative Care, and Life-sustaining treatment decision-making Act.
	Hyo Jin Kim (Republic of Korea)*, Sung Hyung Kim, Mi-Young Kim, Hyun-Kyung Lee, Hongyeul Lee
AD07.204	Utility of 6 minute walk test (6MWT) as a screening tool to assess the disease severity of stable chronic obstructive pulmonary disease (COPD) patients
AP07-394	Anal Chandra Das (Bangladesh)*, Mohammad Mohiuddin Ahmad, Mohammad Aminul Islam, Hena Khatun, Mohammad Tuhiduzzaman, Md. Mamun Newaz, Sharmin Afroze, Sharmin Sultana
AP07-395	Correlation between parameters of cardiopulmonary exercise testing and symptoms of patients with chronic obstructive pulmonary disease
	Bo Ra Lee (Republic of Korea)*, Jae Seung Lee
	Concurrent validity comparison between conventional pulmonary function test device to verify the clinical usefulness of the portable pulmonary function device 'The Spirokit' for COPD patients.
AP07-396	Byeong-Soo Kim (Republic of Korea)*, Sung-Soo Jung, Hong-Jun Kim, Dong-Ill Park Park, Seong-Dae Woo, Ji-Su Kim, So-Yeon Park, Myung-Mo Lee
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AP07-397	Jaeuk Lee (Republic of Korea)*, Hye Jung Park, Min Kwang Byun, Chi Young Kim, Sojung Shin, Youlim Kim, Chin Kook Rhee, Ki Suck Jung, Kwang Ha Yoo
	The role of impulse oscillometry in patients with COPD
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AP07-399	Factors associated with the discrepancy between exercise capacity and airflow limitation in patients with chronic obstructive pulmonary disease
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AP07-400	Association of Preserved Ratio Impaired Spirometry with Respiratory Health Outcomes in Adults: A Systematic Review and Meta-analysis
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AP07-401	Vitamin D3 supplementation on ventilatory functions and exercise tolerance in D3 deficient patients with COPD - A randomized controlled trial
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AP07-404 Eun So Lee (Republic of Korea)*, Areum Han, Jae Deog Ahn, Sung Min Zo, Sae Rom Kim, Yun Joo Im, Bo Guen Kim, Hye Yun Park, Sun Hye Shin Hemostasis parameters in the patients with chronic obstructive pulmonary disease in the period of persistent symptomatic new coronavirus infection (COVID-19) Ekaterina Kulik (Russia)*, Valentina Pavlenko, Svetlana Naryshkina, Margarita Sulima, Larisa Reshetnikova, Irina Soluyanova, Olga Goncharova, Anastasia Bakina, Viktor Bardov Lung Cancer Mucoepidermoid carcinoma of the thumb with distant metastases to the lung, sacroiliac joint, distal phalanx of the foot and nasal vestibule: A case report Rhea Espinosa (Philippines)*, Alipio Abad Jr. Primary Pleural Liposarcoma: A case report Jael Victoria Supan (Philippines)*, Cristine Mercy Cabebe, Rizal Alberto Jr. Nolido Adenocarcinoma of the Lung is Strongly Associated with Heavy Smoker Ikhsan Budi (Indonesia)*, Arif Santoso, Erwin Arief Relationship between idiopathic pulmonary fibrosis and lung cancer Lam Nguyen Son (Viet Nam)* Clinical prognosis of lung cancer in patients with moderate chronic kidney disease Taehee Kim (Republic of Korea)*, Sang Hyuk Kim, Hayoung Choi, Tae Rim Shin, Hwan Il Kim, Seung Hun Jang, Ji Young Hong, Myung Goo Lee, Soojie Chung, In Gyu Hyun, Yun Su Sim A case of resection of a lung adenocarcinoma with an observable course of cyst formation due to tumorigenesis Mari Ujike-Hikichi (Japan)*, Ichiro Tsujino, Ryoma Tanaka, Kota Tsuya, Jin Ikeda, Daisuke Sato, Katsuhiko Ogawa, Tetsuo Shimizu, Yutaka Suzuki, Hiroyuki Sakurai, Yasuhiro Gon Lung Adenocarcinoma related smoking: higher prevalence in NSCLC Ikhsan Budi (Indonesia)*, Arif Santoso, Erwin Arief Digital Aging and Mental Health Deteriorations: How Can We Mitigate the Risk among The Older People with Lung Cancer Disease in Indonesia? Rosinta Hotmaida Pebrianti Purba (Indonesia)* Calcifying Fibrous Tomur of the Pleura without Gross Calcification		Duangjun Phantayuth (Thailand)*, Benjamas Chuaychoo, Salee Supaporn, Arth Nana
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	Epiglottic Retroversion
AP11-591	Seung Jun Lee (Republic of Korea)*, Manbong Heo, Jong Hwan Jeong, Jung Wan You, Sunmi Ju, Yu Ji Cho, Yi Yeong Jeong, Jong Deog Lee
AD44 F02	Audit on oxygen use in covid hdu and non-hdu wards at a tertiary care centre
AP11-592	Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Ruwanthi Jayasekara, Himali Vitharana
Bronchoscopy	and Interventional Techniques
	A Novel Technique For Tracheoesophageal Fistula Closure
AP12-613	Don Gregory Mascarenhas (India)*, Harikishan Gonuguntla, Roshan kumar Manoharlal, Nootangi Bhanuteja, Medhat Nabih Elnamaky
AP12-614	Interventional bronchoscopy for stent placement by rigid brochoscopy through tracheostomy. A case reports
711 12 014	Anh Duc Hoang (Viet Nam)*, Van Giap Vu, Ngoc Du Nguyen, Ngoc Phu Dao
AP12-615	Balloon Bronchoplasty under conscious sedation and flexible bronchoscope: A feasible approach from initial experience of Malaysia
	Arvindran Alaga (Malaysia)*, Nurul Adilah Ahmad Nizam, Izzatul Nadzirah Ismail
AP12-616	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



AP12-617	Efficacy and safety of the transbronchial lung cryobiopsy: a single-center retrospective study in Japan.		
	Yuichi Nagata (Japan)*, Tetsutaro Nagaoka, Yumi Kuroda, Saori Hotta, Tomoko Okuma, Koichi Masuda, Naho Sakamoto, Takayasu Nishimaki, Kana Kurokawa, Taichi Miyawaki, Tetsuhiko Asao, Ryota Kanemaru, Tomoyasu Mimori, Sachiko Kuriyama, Yoichiro Mitsuishi, Masako Ichikawa, Naoko Shimada, Takuo Hayashi, Kazuhisa Takahashi		
AP12-618	The diagnostic yield of transbronchial lung biopsy (TBLB) 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 (India)*, Richa Gupta, Aparna Irodi, Ashwin Oliver, Divya Chandran, Prince James		
AP12-620	Effects of patient-selected music and breathing control during bronchoscopy		
	Napplika Kongpolprom (Thailand)*, Chayanon Vividhwara, Supinya Sukjit, Paphawee Chiarakiat, Patcharee Chawthanasit, Supawich Sornwanee, Nattaporn Sritippayawan		
AP12-621	Feasibility and safety of electromagnetic navigation transthoracic needle aspiration under moderate sedation for the diagnosis of pulmonary nodules		
	So Jeong Kim (Republic of Korea)*, Na Young Kim, Soojie Chung, Jeong Hee Choi, In Gyu Hyun, Hee-Sung Lee		
AP12-622	Intrapleural Streptokinase and DNase: A cheaper alternative?		
	Hema Yamini Ramarmuty (Malaysia)*, Sarvin Vignesh, Shan Min Lo, Kannan Sivaraman Kannan		
	Effects of patient-selected music and deep meditation music during bronchoscopy		
AP12-623	Napplika Kongpolprom (Thailand)*, Chayanon Vividhwara, Supinya Sukjit, Paphawee Chiarakiat, Patcharee Chawthanasit, Supawich Sornwanee, Nattaporn Sritippayawan		
AP12-624	Study on the application of hybrid operation "one stapler plus one needle" to reduce the volume of giant emphysematous bulla		
	Hua Zhang (China (Mainland))*, Wei Zhang, Guangwei Xue, Weiwei Xu, Changsheng Ge, Zhigang Zheng, Zongfang Li, Lei Wang, Jinming Yang, Jieliang Zhang, Renyan Zhao		
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, Mona Zaria Nasaruddin, Ummi Nadira Daut, Noorul Afidza Muhammad, Khai Lip Ng, Nur Husna Mohd Aminudin, Nai Chen Huan, Fatimah Azmah Mohammad, Sanusi Zulkifli, Hean Fui Liow, Muhammad Asyraf Abdul Onny, Andrea Yu-Lin Ban, Jamalul Azizi Abdul R		
	Ultrasound Guided Transthoracic Needle Biopsy: A Pulmonologist Perspective		
AP12-626	Haly Rozie Ahmad (Malaysia)*, Nagarani Naupa, Yu Kuan Tan, Megat Razeem Abdul Razak, Aishah Ibrahim, Soon Hin How		
AD12-627	Clinical outcomes of cryobiopsy for peripheral pulmonary lesions - a prospective pilot study		
AP12-627	Soo Han Kim (Republic of Korea)*, Jeongha Mok, Jung Seop Eom		
AP12-628	Virtual bronchoscopy navigation combined with thin bronchoscope to diagnose pulmonary tuberculosis: A randomised trial		
	Jeongha Mok (Republic of Korea)*, Jung Seop Eom, Seyeon 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 Ho Lee, Jin Hong Chung, Kyeong Cheol Shin, Eun Young Choi, Hyun Jung Jin, Jong Geol Jang, June Hong Ahn			
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4.042.620	A case report of an infant with congenital lobar emphysema at Angkor Hospital for Children			
AP13-630	Khe Muoy Um (Cambodia)*, Michael Wall, Sokchinda Kong, Pises Nget, Chanpeaktra Ngoun			
	LEGA-Kid Efficacy and Safety in Children with Pneumonia			
AP13-631	Nur Izyani Abdul Halim (Malaysia)*, Asiah Kassim, Syuhadah Abd Rahman, Nur Haziqah Mohamed Hizam, Sornaletchumi Koran, Sahrinah Mohd Shahardin, Karuthan Chinna, Jia Yueh Chong, Shangari Kunaseelan, Pazlida Pauzi, Udhaya Moorthy, Nanthini Mahalingam, N. Fafwati Faridatul Akmar Mohamed, Radhiyah Abdul Rashid, Hishamshah Mohd Ibrahim			
AP13-632	Lung metastatic of rhabmyosarcoma: report a case with delayed diagnosis of primary tumor due to COVID – 19			
	Tuan Anh Tran Thi (Viet Nam)*, Thanh Tuan Phan, Trung Tho Le			
AP13-633	Multiple rib destructions as an extremely rare complication of Kasabach-Merritt syndrome in a-2-years old female child: A case report			
	Citra Cesilia (Indonesia)*, Elmi Ridar, Hariadi Hatta, Andreas Makmur, Wiwit Ade Fw, Heda Melinda N Nataprawira			
Respiratory St	ructure and Function			
AP14-642	Bleomycin-induced fibrosis and the effectiveness of cantella asiatica as treatment			
AF 14-042	Yabestin Alfrianus Pakpahan (Indonesia)*, Noni Novisari Soeroso, Muhammad Ichwan			
AP14-643	Multi-data-integrated pulmonary function test reports in COPD patients			
Al 14 043	So Yeon Kim (Republic of Korea)*, Yong Sik Park			
AP14-644	The airway occlusion pressure (P0.1) after COVID-19			
AI 14 044	Olga Savushkina (Russia)*, Alexander Cherniak			
AP14-645	Dynamic chest radiography as a rapid tool to assess thoracic dynamics following diaphragm plication surgery			
	Thomas Simon FitzMaurice (United Kingdom)*, Caroline McCann, Ram Bedi, Dilip Nazareth, James Greenwood, Martin Walshaw			
Pulmonary Circ	culation			
AP15-650	A rare case of pulmonary arterio venous malformation.			
	Madhushi Nanayakkara (Sri Lanka)*, Chandana Dahanayaka, Ayesha Jayawardana, Pradeep Wijerathna, Malinda Hettiarachchi, Chandrike Ponnamperuma, Dhammika Rasnayake, Eshanth Perera			
	Rare cause of pulmonary hypertension			
AP15-651	Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Ruwanthi Jayasekara, Madushanka Rathnayake,			
	Ruwani Perera			



	Pulmonary Arteriovenous Malformation as a Cause of Embolic Stroke		
AP15-652	Boon Hau Ng (Malaysia)*, Hsueh Jing Low, Andrea Yu-Lin Ban, Nik Nuratiqah Nik Abeed, Mohamed Faisal Abdul Hamid, Prapatricca Shanmugam, Isa Azzaki Zainal		
	A case of definite hereditary hemorrhagic telangiectasia presenting as a refractory migraine		
AP15-653	Madushanka Rathnayake (Sri Lanka)*, Lakmini Dassanayake, Ruvanthi Jayasekara, Amitha Fernando, BMP Bandaranayake		
AD1E_654	Multimodalities in treating intermediate-high risk pulmonary embolism		
AP15-654	Muhammad Amin Ibrahim (Malaysia)*, Nadirah Abdul Wahid, Wong Soo Fen		
	Long-term results of surgical and medical treatment of pulmonary embolism		
AP15-655	Eugene Borodin (Russia)*, Anton Kazantsev, Alexander Korotkikh, Alina Zharova, Roman Lider, Elizaveta Kazantseva		
Interstitial Lur	ng Disease		
AP16-688	Rapidly progressive interstitial lung disease associated with anti-NXP2 antibody		
	Nataphon Wuthithepbuncha (Thailand)*, Viboon Boonsarngsuk, Jakkrit Laikitmongkhon, Pimpin Incharoen, Warawut Sukkasem		
AP16-689	Efficacy of Low-Dose Nintedanib in Idiopathic Pulmonary Fibrosis, a retrospective single institute analysis.		
	Natsumi Watanabe (Japan)*, Yoshinori Tanino, Takefumi Nikaido, Yuki Sato, Ryuichi Togawa, Takaya Kawamaya, Naoko Fukuhara, Tomoyoshi Lee, Riko Sato, Takumi Onuma, Mikako Saito, Hikaru Tomita, Mami Rikimaru, Julia Morimoto, Yasuhito Suzuki, Hiroyuki Minemura, Junpei Saito, Kenya Kanazawa, Yoko Shibata		
AP16-690	The Impact of MDT meetings and addition of Clinical Pathway on diagnosis and cost analysis in DPLD patients from two tertiary centers in Klang Valley.		
	Giritharan Muniandy (Malaysia)*, Andrea Ban, Faisal Abdul Hamid, Boon Hau Ng, Nik Nuratiqah Nik Abeed, Syazatul Syakirin Sirol Aflah, Aniza Ismail, Shahrir Mohamed Said, Imree Azmi, Zuhanis Abdul Hamid		
AP16-691	Double whammy: a case of post severe COVID pneumonia - anti mda 5 associated interstitial lung disease		
	Wang Jie Tan (Malaysia)*, Noorul Afidza, Mona Zaria, Chiou Perng Lee, Jamalul Azizi		
AP16, 602	Organizing pneumonia in patients who are in post COVID state or develop late onset symptoms of COVID-19		
AP16-692	Chang-Seok Yoon (Republic of Korea)*, Jae-Kyeong Lee, Young-Ok Na, Hwa Kyung Park, Bo Gun Kho, Ha Young Park, Tae-Ok Kim, Hong-Joon Shin, Yong-Soo Kwon, Yu-Il Kim, Sung-Chul Lim		
AD16 CO2	Rare case of acute exacerbations of post COVID-19 interstitial lung disease		
AP16-693	Lakmini Dassanayake (Sri Lanka)*, Amitha Fernando, Ruwanthi Jayasekara, Madushanka Rathnayake		
AD45 55 1	Sarcoidosis associated pulmonary artery stenosis and pulmonary hypertension - A Challenging cas		
AP16-694	Arthihai Srirangan (Sri Lanka)*, Niranjan Chandramal, Asha Samaranayake, Ravini Karunathilaka		

AD46 60F	Assessment of disease severity of diffuse parenchymal lung disease (DPLD) patients by 6-minute walk test (6MWT)		
AP16-695	Mamun Newaz (Bangladesh)*, Mohammad Mohiuddin Ahmad, Mohammad Aminul Islam, Hena Khatun, Mohammad Tuhiduzzaman, Anal Chandra Das, Sharmin Afroze, Sharmin Sultana		
AP16-696	Are blood vessels a target organ for sarcoidosis?		
AP 10-090	Evgeniy Shchepikhin (Russia)*, Evgeniy Shmelev, Anna Zaitseva		
	Peripheral blood monocyte count as a prognostic biomarker in idiopathic interstitial pneumonia other than idiopathic pulmonary fibrosis		
AP16-697	Yuki Sato (Japan)*, Yoshinori Tanino, Takefumi Nikaido, Ryuichi Togawa, Takaya Kawamata, Natsumi Watanabe, Naoko Fukuhara, Tomoyoshi Lee, Riko Sato, Takumi Onuma, Hikaru Tomita, Mikako Saito, Mami Rikimaru, Julia Morimoto, Yasuhito Suzuki, Hiroyuki Minemura, Junpei Saito, Kenya Kanazawa, Yoko Shibata		
AP16-698	VISTA is a novel diagnostic and prognostic biomarker in idiopathic pulmonary fibrosis		
AP 10-098	Hee-Young Yoon (Republic of Korea)*, Ganghee Chae, Sang Eun Lee, Su-jin Moon, Jin Woo Song		
AD46 600	Plasma adiokines predict diagnosis and prognosis in patients with idiopathic pulmonary fibrosis		
AP16-699	Ju Hyun Oh (Republic of Korea)*, Ganghee Chae, Su-Jin Moon, Jin Woo Song		
AP16-700	The Efficacy of Pulmonary Rehabilitation in Patients with Idiopathic pulmonary fibrosis		
	Ji Hoon Jang (Republic of Korea)*, Hee Eun Choi, Jae Ha Lee		
	Birt-Hogg-Dub Syndrome in Korean family with a Novel Folliculin Gene Mutation		
AP16-701	Yon Ju Ryu (Republic Of Korea)*, Jiyeon Bae		
AP16-702	Usefulness of software-based quantification for a computed tomography image analysis in patients with combined pulmonary fibrosis and emphysema		
	Yoshiaki Kitaguchi (Japan)*, Takumi Kinjo, Yusuke Suzuki, Norihiko Goto, Masamichi Komatsu, Fumika Ueno, Yosuke Wada, Masanori Yasuo, Hiroshi Yamamoto, Kiyoyasu Fukushima, Masayuki Hanaoka		
	Benefits of Systemic Corticosteroid in Post-COVID-19 Interstitial Lung Disease.		
AP16-703	Yun Seok Kim (Republic of Korea)*, Tai Joon An, Ye Jin Lee, Ji Eun Park, Eung Gu Lee, Youlim Kim, Sung-Yoon Kang, Hyonsoo Joo, Joon Young Choi		
AP16-704	Broncho-obstructive syndrome (BOS) in patients with different forms of hypersensitivity pneumonitis (HP).		
	Galina Kuklina (Russia)*, Evgeny Shmelev		
AD46 705	Single time point scores for predicting 1-year progression and 5-year overall survival in idiopathic pulmonary fibrosis: A validation study of Imaging Signature IPF (IS-IPF)		
AP16-705	Kyungjong Lee (Republic of Korea)*, Ju Hyun Oh, S. Samuel Weight, Jonathan Goldin, Bianca Villages, Jin Woo Song, Grace Hyun J. Kim		
AP16-706	RNA-recognizing immune sensor regulates bleomycin-induced activation of macrophages, lymphocytes, and neutrophils and subsequent lung fibrosis		
	Takashi Ishii (Japan)*, Yusuke Murakami, Tomoya Narita, Takahide Nagase, Naomi Yamashita		



	The analysis of the effect of statin therapy on the clinical course of IPF
AP16-707	Seung Hoon Kim (Republic of Korea)*, Shin Young Kim, So Hyang Song, Chi Hong Kim, Sung Kyoung Kim
AP16-708	Obstructive Sleep Apnea in Patients with Idiopathic pulmonary fibrosis: Prevalence and Predictive Factors
	Ji Hoon Jang (Republic of Korea)*, Hyun Kuk Kim, Jae Ha Lee
AP16-709	Importance of clinical history of antigen exposure and anti-Trichosporon asahii antibody evaluation for diagnosis of summer-type hypersensitivity pneumonitis in patients with chronic interstitial lung diseases
	Takaya Kawamata (Japan)*, Yoshinori Tanino, Takefumi Nikaido, Yuki Sato, Ryuichi Togawa, Natsumi Watanabe, Naoko Fukuhara, Tomoyoshi Lee, Riko Sato, Takumi Onuma, Hikaru Tomita, Mikako Saito, Mami Rikimaru, Yasuhito Suzuki, Hiroyuki Minemura, Junpei Saito, Kenya Kanazawa, Yoko Shibata
	Clinical significance of vitamin D deficiency in lung transplant recipients
AP16-710	Min Seo Ki (Republic of Korea)*, Ala Woo, Song Yee Kim, Moo Suk Park, Young Sam Kim, Ha Eun Kim, Jin Gu Lee, Hyo Chae Paik
AP16-711	Polymyxin-B hemoperfusion in patients with acute exacerbation of idiopathic pulmonary fibrosis; A single center prospective pilot study
	Min Jee Kim (Republic of Korea)*, Jiyoul Yang, Jin Woo Song
	COVID-19 vaccine-related pneumonitis in Korea
AP16-712	Ji Young Park (Republic of Korea)*, Joo-Hee Kim, Sunghoon Park, Yong II Hwang, Hwan II Kim, Ki-Suck Jung, Seung Hun Jang
AP16-713	Oleanolic acid acetate alleviates bleomycin-induced pulmonary fibrosis in mice
AF 10-7 13	Jae-Wan Jung (Republic of Korea)*, Ki-Eun Hwang, Chul Park, Hyun Lim, Joo-Un Park, Ui-Ri An, Hak-Ryul Kim
	Evaluation of fibrocytes in silica-induced and bleomycin-induced pulmonary fibrosis model in mice by single cell RNA-seq analysis
AP16-714	Kazuya Koyama (Japan)*, Seidai Sato, Hiroshi Kawano, Atsushi Mitsuhashi, Kojin Murakami, Yuya Yamashita, Keiko Haji, Kozo Kagawa, Hirohisa Ogawa, Yasuhiko Nishioka
AP16-715	New prognostic scoring system for mortality in idiopathic pulmonary fibrosis modifying the GAP model with desaturation during six-minute walk test
	Jae Ha Lee (Republic of Korea)*, Ji Hoon Jang, Moo Suk Park
AP16-716	Longitudinal evaluation of patients with lymphangioleiomyomatosis with lower level of serum VEGF-D.
AP 10-7 10	Masaki Hirose (Japan)*, Toru Arai, Takayuki Takimoto, Yoshikazu Inoue
	Pulmonary fibrosis in critically ill patients with COVID-19: prevalence and outcome : A multicentre retrospective cohort study in South Korea
AP16-717	Dae Hong Cho (Republic of Korea)*, Ganghee Chae, Junghyun Kim, Joon-Sung Joh, Tae Yun Park, Ae-Rin Baek, Won-Young Kim, Yang Jin Jegal, Chi Ryang Chung, Jinwoo Lee, Joo Hun Park, Jae Wook Lee, Soyeoun Lim, Jin Woo Song

ORAL PRESENTATION

20 November

Oral 25	Oral 25 09:20-10:50 Grand Ballroom 10		Grand Ballroom 104 (1F)	
Clinical Respiratory Medicine				
Chair	Sung Yoo	n Lim (Seoul National University College of Medicine, Republic of Korea)		
00:20 00:20		Risk factors for hospitalized bronchiectasis exacerbation stable state and incorporation of phenotype into FACED s	•	
09:20-09:30 A025-		Wang Chun Kwok (Hong Kong)*, James Chung Man Ho, Ting F Johnny Wai Man Chan, Mary Sau Man Ip, Terence Chi Chun Tam	9	
	A025-2	The association between changes in BMI and acute exace	rbation in non-CF bronchiectasis	
09:30-09:40		Hyeon Kyeong Bae (Republic of Korea)*, Hyun Lee, Hayoung C Woo Jin Kim, Kwang Ha Yoo, Seung Jun Lee, Tae-Hyung Kim, Bu Deog Kyeom Kim, Ji-Hyun Lee, Byoung Soo Kwon, Young-Jae Ch Chin Kook Rhee, Ji Ye Jung	umhee Yang, Ina Jeong, Soo-Jung Um,	
09:40-09:50		Predictors of mortality in COVID-19 associated pneumoth patients without a history of invasive mechanical ventilations.		
	09:40-09:50	A025-3	Wongi Woo (Republic of Korea)*, Vincent Kipkorir, Du-young Ka Shadi Hamouri, Abdulqadir Nashwan, Giuseppe Fiorentino, Muh- Sarya Swed, Moezedin Javad Rafiee, Wooshik Kim, Duk Hwan M	ammad Mohsin Khan, Ayat Alhakeem,
		A national survey of non-invasive respiratory management acute respiratory failure using COVIREGI-JP database	nt in COVID-19 patients with	
09:50-10:00	09:50-10:00	A025-4	Kazuko Yamamoto (Japan)*, Keisuke Tomii, Motoya Izumi, Nao Naoki Iwanaga, Takahiro Takazono, Shinnosuke Takemoto, Hiros Yasushi Obase, Masato Tashiro, Takeshi Tanaka, Momoko Yama Koichi Izumikawa, Katsunori Yanagihara, Hiroshi Mukae	shi Ishimoto, Noriho Sakamoto,
10:00-10:10	A025-5	Effect of Intravenous N-acetylcysteine on Prevention of N Mortality among COVID-19 Patients: A Meta-Analysis	Mechanical Ventilation and	
10.00 10.10		Karen Anne Claridad (Philippines)*, Roland Reuben Angeles, L	enora Fernandez	
10:10-10:20	A025-6	Assessment of Dysfunctional Breathing in a cohort of pos Breathing Retraining Physiotherapy	st covid patients and the impact of	
		Ruwanthi Jayasekara (Sri Lanka)*, Suresh Chathurantha, Amir	tha Fernando	
10:20-10:30	A025-7	SUPER to Characterize Pleural Effusion		
10.20-10.30	MU25-7	Astrid Gardiner (Singapore)*, Ryan Ling, Zhaojin Chen, Yiong-H	Huak Chan, Pyng Lee	



Oral 26		09:20-10:50 Grand Ballroo	m 105 (1F)
Paediatric Lu	ıng Disease		
Chair	Anne Cha	ing (Menzies School of Health Research, Queensland University of Technology, Australia)	
00.00 00.00		The effect of the coronavirus disease (COVID-19) pandemic on hospital admission children due to the respiratory illnesses and the respiratory pathogens.	ns among
09:20-09:30	A026-1	Sze Chiang Lui (Malaysia)*, Fauziah Ripin, Nor Diyana Ismail, N Fafwati Faridatul Akmar M Yi Cheau Chua, Hazilawati Hussein, Maria Kamal, Sabeera Begum Kader Ibrahim, Asiah Ka	
09:30-09:40	Pulmonary function and complications in children who have received hematopoietics:30-09:40 A026-2 Pulmonary function and complications in children who have received hematopoietics.		etic stem
00.00 00.70		Panuwat Srichaisawat (Thailand)*, Jitladda Deerojanawong, Chanthana Harnruthakorn	
09:40-09:50	A026-3	Correlation of lung function using forced oscillation technique with spirometry in aged (4-18 years) with cystic fibrosis (CF)	children
		Sachin Singh (India)*, Meenu Singh, Joseph Mathew	
20 50 40 00		Pneumorrhachis Complicated by Spontaneous Pneumomediastinum in Pediatric An 11-year Retrospective Study in Taiwan	Patients:
09:50-10:00 A026-4	AU26-4	Yu-Wei Liu (Taiwan)*, Yu-Tang Chang, Chieh-Ni Kao, Yu-Ling Huang, Hung-Hsing Chiang, Jui-Ying Lee, Hsien-Pin Li, Po-Chih Chang, Shah-Hwa Chou	
10:00-10:10 AO26-5 disorder patients		Risk factors of adverse respiratory outcome after scoliosis surgery in neuromuso disorder patients	cular
		Kyeong Hun Lee (Republic of Korea)*, Ji Hye Kim, Dong In Suh, Ji Soo Park	
		Multicenter Surveillance of Cystic Fibrosis in Korean Children	
10:10-10:20 A026-6		Kyung Won Kim (Republic of Korea)*, Hyung Young Kim, Soo-Jong Hong, Kangmo Ahn, Dong In Suh, Shin Hye Noh, Soo Yeon Kim, Jinho Yu, Jung Min Ko, Min Goo Lee	

Oral 27		11:10-12:40	Grand Ballroom 104 (1F)
Respiratory 9	Structure an	d Function	
Chair	Chair Sang-Ha Kim (Yonsei University Wonju College of Medicine, Republic of Korea)		
11:10-11:20 A027-1		Lung fuction and bronchiectasis incidence: nationwide popul	ation-based cohort study
		Shinyoung Kim (Republic of Korea)*, Sungkyoung Kim, Chihong Kin Seunghoon Kim, Kyungdo Han	m, Sohyang Song,
11:20-11:30	A027-2	Impact of Bronchopulmonary Dysplasia on Functional and St Lungs of School-aged Children	ructural Changes in the
11:20-11:30 AU27-2	Ji Ye Jung (Republic of Korea)*, Jeong Eun Shin, Jungho Han, Soon Ho Seon Eun, Min Soo Park, Soo Yeon Kim, Myung Hyun Sohn, Mi-Ju		
44.00.44.40		Characterising the effect of body mass index on thoracic med cystic fibrosis using dynamic chest radiography	chanics in adults with
11:30-11:40	A027-3	Thomas Simon FitzMaurice (United Kingdom)*, Caroline McCann, Paul Stephen McNamara	, Dilip Nazareth, Martin Walshaw,
		Standalone electrical impedance tomography system can information global and regional lung function assessment	er spirometric indices
11:40-11:50	A027-4	Wang Chun Kwok (Hong Kong)*, Fedi Zouari, Wei Yi Oon, Dipyama Wei-Ning Lee, Terence Chi Chun Tam, Eddie C. Wong, Russell W. Ch	9
11,50 12,00	4027 F	The anatomical variations in tracheobronchial tree through v	ideobronchoscope
11:50-12:00	A027-5	Samruddhi Chougale (India)*, Amir Khoja	
10,00 10,10	1007.6	Prevalence of positive bronchodilator response in a real-worl	ld clinical setting.
12:00-12:10	A027-6	Geak Poh Tan (Singapore)*, Gin Tsen Chai, Danqing Qi, John Arputh	nan Abisheganaden





SPONSORSHIP & EXHIBITION

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Oral 28		11:10-12:40	Grand Ballroom 105 (1F)
Respiratory Infections (non-tuberculous) - Pneumonia			
Chair Jong Wook Shin (Chung-Ang University College of Medicine, Republic of Korea)			
11:10-11:20 A028-3		Changes in respiratory infection trends during the COVID-19 malignancy patients	pandemic in the hematologic
		Jiwon Ryoo (Republic of Korea)*, Seok Chan Kim, Jongmin Lee	
11:20-11:30	A028-4	Long Term Predictors of Fatal Pneumonia in a Japanese popu	ulation
11.20-11.30	AU28-4	Minh Nguyen (United States of America)*	
11:30-11:40 A028-5		Combining a novel cyclic peptide with antibiotics to treat acu infections with multidrug resistance gram-negative bacteria	
		Dhammika Leshan Wannigama (Thailand)*, Cameron Hurst, Pete Paul G. Higgins, Stephen M Stick, Anthony Kicic, Tanittha Chatsuwa	
11:40-11:50 A028-6	4020 F	A hybrid AI model with the first 3-day features of CXR and cli survival discharge of pneumonia patients within seven hospi	•
	AU28-6	Chieh Liang Wu (Taiwan)*, Wei Cheng Chen, Lun-Chi Chen, Ruey-H Yu-Cheng Wu	Kai Sheu, Kai-Chih Pai,
		Comparison of beta-lactam monotherapy and combination v as initial empiric treatment in patients with hospital-acquired a Korean multicenter cohort study	
11:50-12:00	A028-7	Moon Seong Baek (Republic of Korea)*, Sang-Bum Hong, Kyeongr Woo Hyun Cho, Soohyun Bae, Heung Bum Lee, Hyun-Kyung Lee, Cl Jin Hyoung Kim, Youjin Chang, Hyun-Il Gil, Beomsu Shin, Kwang Ha Jee Youn Oh, Ae-Rin Baek	hanghwan Kim, Jae Young Moon,
12:00-12:10 A028-8		Correlation of fungal infection risk factor on fungal colonizat sequelae patients with recurrent hemoptysis in labuang baji	
		Jamaluddin Madolangan (Indonesia)*, Irawaty Djaharuddin	



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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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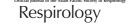














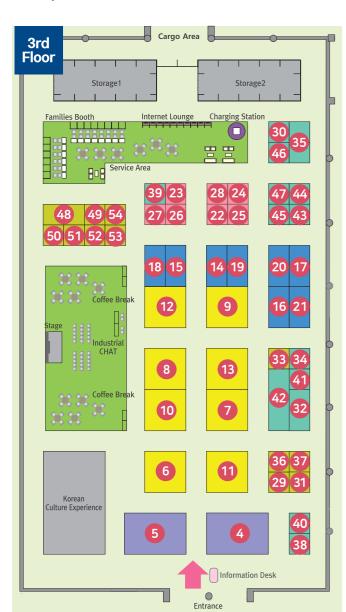
EXHIBITION

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 D 3F 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 Pharmaceutical
Codaewon S	10:55-11:05

Clinical Value and Advantages of New Antitussive **Seong Yong Lim** (Sungkyunkwan University School of Medicine, Republic of Korea)

aturday 19 November	MANLIM PHA

Bronpass Tab.

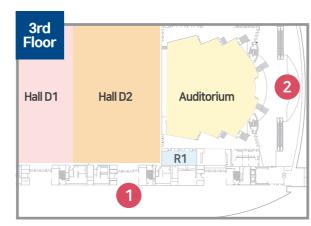
10:55-11:05

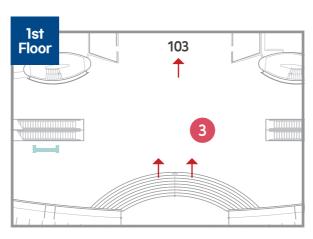
Experimental and Clinical Evidence of Bronpass® Joon Young Choi (Incheon St. Mary Hospital, Catholic University of Korea, Republic of Korea)

Ulistin Inj. 15:35-15:45

Ulinastatin in ICU

Dong-Hyun Lee (Dong-A University Hospital, Republic of Korea)





No	Exhibitor	Booth No.
1	Boryung Co.	D-1 (3F, Hall D Lobby)
2	GSK	D-2 (3F, Auditorium Lobby)
3	YUHAN	D-3 (1F, Grand Ballroom Lobby)
4	DAEWON Pharmaceutical Co., Ltd.	P-1
5	Novartis	P-2
6	AstraZeneca Korea	G-1
7	Boehringer Ingelheim Korea	G-2
8	Hanmi Pharm.Co.,Ltd.	G-3
9	Ildong Pharmaceutical	G-4
10	KOLON PHARMA	G-5
1	ORGANON KOREA Co., Ltd.	G-6
12	SAMA PHARM Co., Ltd.	G-7
13	sanofi	G-8
14	Ahngook Pharm	S-1
15	Chong Kun Dang pharmaceutical	S-2
16	GeneX Inc.	S-3
17	MEKICS Co., Ltd	S-4
18	MSD Korea	S-5
19	Pfizer Korea	S-6
20	Shinhan Medical Co., Ltd.	S-7
21	Takeda Pharmaceuticals Korea CO., Ltd.	S-8
22	AJU PHARM CO., LTD.	B-1
23	BUKWANG PHARM. CO., LTD.	B-2
24	DaeWoong Pharmaceuticals Korea CO., Ltd.	B-3
25	HANLIM Pharm. CO., LTD.	B-4
26	Janssen Korea	B-5

No	Exhibitor	Booth No.
27	Roche Korea Co., Ltd	B-6
28	Teva-Handok	B-7
29	Abbott Korea	E-1
30	BCworld Pharm.	E-2
31	Broncus Medical	E-3
32	Erbe Medical	E-4
33	FCU Co., Ltd.	E-5
34	Fisher & Paykel Healthcare Asia Ltd.	E-6
35	GE Healthcare Korea	E-7
36	Handok	E-8
37	Hunan Vathin Medical Instrument Co.,Ltd.	E-9
38	Korea Otsuka Pharmaceutical Co.,Ltd	E-10
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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

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

Booth No. D-3 (1F, Grand Ballroom Lobby)

The way of Yuhan

Yuhan corporation, a group loved by the people and grown together with the people for the last 90yeaers, 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 Ilhan, and write the history of challenge and development moving forward. Our challenge has already begun.

paemou

Pharmaceutical

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 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.





Hanmi Pharm.Co.,Ltd.

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

Ildong Pharmaceutical Booth No. G-4

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, Biovita, 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.

Ildong Bioscience, Ildong Hyaltech, Ildong E-commerce, Ildong Healthcare, Uni Communications, Rutec, and all other affiliates are actively promoting the health and well-being of people in various areas- food, health supplement products, distribution, marketing, and IT.

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.'

WKOLON PHARMA

KOLON PHARMA Booth No. G-5

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.



Booth No. G-3

ORGANON KOREA Co., Ltd.

Booth No. G-6

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.

Sam⁴ 삼아제약

SAMA PHARM Co., Ltd.

Booth No. G-7

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 Dianity.

We wish all of you the good health and happiness.

sanofi

sanofi Booth No. G-8

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 Pharm

Booth No. S-1

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 Ahn-gook'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 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, hairdye, 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

[Chong Kun Dang]

Dedicated to pharmaceuticals since its foundation, Chong Kun Dang has overcome many challenges, while continuing to grow and contribute to the advancement of Korea's pharmaceutical industry.

In the days when Korea imported 100% of the raw materials required for medicines from abroad, we built Korea's largest plants for chemical synthesis and fermentation, making it possible to produce pharmaceutical ingredients locally using our own technology. From there, we had driven Korean Pharmaceutical Industry with this breakthrough on the path toward modernization.

Furthermore, we became the first Korean pharmaceutical company to export products to the US market through the obtainment of the U.S. FDA

approval. Now, on its 77th anniversary, we promise to put all efforts to lead continuous change and innovation, positioning Chong Kun Dang as a global pharmaceutical company with a competitive edge in the international market.



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 farreaching 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.





Shinhan Medical Co., Ltd.

Booth No. S-7

Since 1983, Shinhan Medical Co. has been importing high-tech medical equipment specialized in respiratory diagnostics. Beyond importing and supplying the equipment, Shinhan Medical aims to provide the best customer care with our team of well-experienced engineers and educators. Not only that, Shinhan Medical thrives to continuously research and study the matters related to respiratory care to equip ourselves with sound knowledge.

Along with the new Vyntus Series' recent successful launch, now networking the devices and syncing EMR has never been easier

We promise to provide the best possible quality and value for the patients and physicians.

For more details, please visit our website or contact one of our friendly representatives.



Takeda Pharmaceuticals Korea CO., Ltd.

Booth No. S-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) Exon20 insertion mutations for people who have been on chemotherapy



AJU PHARM CO., LTD.

Booth No. B-1

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, CMO, 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.



BUKWANG PHARM. CO., LTD.

Booth No. B-2

Trusted Company

Bukwang Pharmaceutical Co., Ltd. was established on October 17th, 1960 and has since continued to produce excellent medications with the aim of improving global health for the last 55 years. Since Bukwang was listed in the Korea Stock Exchange in 1988, Bukwang is proud to have kept a healthy financial status and stable track record that earned trust from its employees and shareholders. Bukwang's operating profit is at the top of the rank in the industry, nearing 20% as of financial year 2014.

Bukwang's armamentarium consists of more than 100 products in various therapeutic areas: liver disease treatments such as Levovir and Legalon, diabetic complication products such as Dexid and Thioctacid, CNS disorder drugs including Lonasen, Ixel and Orfil, and respiratory disease treatments such as Azeptin and Asima. Bukwang continues to grow its original drug business through consistent focus on new drug development.



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 producing the world's first-in-class and best-in-class new drug through continuous R&D investment and open collaboration. Our unceasing effort is channeled 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 Al/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. 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 pipleline in various therapeutic areas.





Janssen Korea Booth No. B-5

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 Co., Ltd

Booth No. B-6

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 indication of its immunotherapy. Roche Korea strives to build a fast and efficient corporate culture by adopting agile methods and practices in its operations to offer innovative drugs to more patients faster. It has been on the list of Korea's top 100 best workplaces for two years in a row-2018 and 2019-for constantly creating new opportunities for employment and offering better working condition. Roche Korea is making various endeavors to provide greater treatment options to patients and healthcare professionals and create a better healthcare environment where patients have affordable access to treatment. With bold investment in R&D, it hosts 45% of the oncology trials and 30% of early phase trials, carried out by the global headquarters. Going forward, it will continue to dedicate itself to the development and delivery of novel drugs. Based on the "One Roche" team spirit, shared with Roche Diagnostics Korea, a Korean office of the Diagnostics division, it will provide innovative solutions for personalized healthcare that combine the diagnostics, treatment, and monitoring of diseases, taking the lead in a journey towards a healthier Korea.



Teva-Handok

Booth No. B-7

Teva-Handokis a pharmaceutical company established in October 2013, a joint venture stablished 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 Korea

Booth No. E-1

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, cardiometabolic, 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.



BCworld Pharm.

Booth No. E-2

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 proactive 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 Medical

Booth No. E-3

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.





Erbe Medical Booth No. E-4

ERBE ELEKTROMEDIZIN GMBH

Setting standards since 1851

As a family-owned and operated business, Erbe develops, manufactures and markets surgical systems for professional use in various medical disciplines all over the world.



FCU Co., Ltd. Booth No. E-5

We develops and manufactures Mobile ultrasound imaging systems and Ultrasound probes. As a professional medical device manufacturer, we have ISO13485/KGMP/MFDS/CE/FDA-certificated products. In particular, we have the world's first needle navigation mobile ultrasound that shows the expected needle path and the expected destination of the needle tip in real time. It has not only Best-in-class image quality for diagnosis but also Needle guide system. It provides medical staff with accurate and safe procedures to avoid hazardous areas. It will increase their convenience and keep the patient safe.



Fisher & Paykel Healthcare Asia Ltd.

Booth No. E-6

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 annea.

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.



GE Healthcare Korea Booth No. E-7

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 healthcare but living our purpose to create a world where healthcare has no limits.



Handok Booth No, E-8

The Health Innovator, Handok.

Handok (Chairman & CEO Young-Jin Kim) is committed to innovation and its business has grown both through strategic partnerships with other companies as well as through innovative research. Handok was founded in 1954 and has been listed on the Korea Stock Exchange since 1976. The company has never recorded a deficit year since establishment.

Handok grew as a joint venture with Hoechst/Aventis/Sanofi from 1964 to 2012. Handok has also established strategic.

Handok grew as a joint venture with Hoechst/Aventis/Sanofi from 1964 to 2012. Handok has also established strategic collaborations in several areas with multiple multinational pharmaceutical companies. Handok ended its joint venture relationship with Sanofi in 2012 and became an independent company again. Handok changed its company name from Handok Pharmaceutical Co., Ltd to Handok Inc. and declared its vision to become "The Health Innovator" and as Korea's leading global healthcare company. Handok introduces new products to the Korean market through partnerships, internal R&D, and state-of-the-art manufacturing while maintaining a global standards compliance program.

Handok is a total healthcare company. Handok's businesses mainly focus on prescription drugs along with consumer health care products, medical devices and in vitro diagnostics, food supplements and medical nutrition.

Handok is one of the leading pharmaceutical companies which highly value ethical business practices. It has fully implemented comprehensive codes of conduct. This commitment has been recognized with the Special Ethical Management Award conferred by the Health Industry CEO Summit in 2008 and the Excellence prize for Transparent Management by Korea's five major economic organizations including KEF, FKI in 2010.



Hunan Vathin Medical Instrument Co., Ltd.

Booth No. E-9

Vathin specializes in the production, development and sales of single-use bronchoscopes. Core employees of Vathin have more than 20 years' experience in materials, optics, structure, electronics, software, manufacturing and other fields. In addition, our company dedicated on the guideline of "Safe Simply Smart" and has carried forward of the corporate spirit of "Humanism, innovation and preciseness".



Korea Otsuka Pharmaceutical Co., Ltd

Booth No. E-10

Korea Otsuka Pharmaceutical is the Korean subsidiary of esteemed global pharmaceutical company Otsuka Pharmaceutical. Despite being a subsidiary of a multinational pharmaceutical company, Korea Otsuka Pharmaceutical has established a self-reliant operational foundation in South Korea and contributed to the advancement of Korea's pharmaceutical industry by investing the revenue generated from the sales of pharmaceutical products back into production equipment and clinical research.

Equipped with a large-scale production facility in South Korea, Korea Otsuka Pharmaceutical contributes to the country's job creation and economic development by supplying superior pharmaceutical products, both domestically and internationally. In addition, we help to treat diseases and to maintain and improve the everyday health of Koreans by developing new drugs and creating added value for our products. Korea Otsuka Pharmaceutical is diligently fulfilling our role and mission as a company that contributes to the healthy life of Koreans, providing continuous values based on a deep understanding of customers, the market and corporate social responsibility.





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.

"Provision of the latest medical technology"

NAUMED Inc. is trying to provide innovative and advanced products in high quality to the Korean medical market and to introduce new medical technology to the Korean market in line with the trends of the medical industry.

"Best Technical Support"

Our employees constantly receive training internally and receive training by overseas headquarters regularly to ensure that our customers are comfortable using innovative and up-to-date medical equipment and that patients receive optimal treatment.

"Growing Company, Pursuing Change and Innovation"

With rapid changes in the medical environment, NAUMED Inc. always studies and experiences in the field and strives to grow with the medical community without fear of change and innovation. Through this, we want to create corporate value and promote the development of our members.



OLYMPUS KOREA CO., LTD

Booth No. E-14

Olympus Korea (OKR) 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

Thermo Fisher Scientific Korea

Booth No. E-17

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

Booth No. E-18

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

Booth No. E-19

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.



APSR

Booth No. E-20

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.



APSR 2023

Booth No. E-21

The 27th Congress of the Asian Pacific Society of Respirology

The Congress brings together the world's respiratory experts to present and discuss the latest scientific and clinical advances across the field of Respiratory Medicine. It is a valuable platform for all to learn from the leading experts, exchange ideas and stay up-to-date in Respirology. The theme for APSR Congress 2023 is Current Practice Future Care.

Whether you are a healthcare professional, researchers, scientist, academic or industry expert, there will be something for you!



American Thoracic Society

Booth No. E-22

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.



European Respiratory Society

Booth No. E-23

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

Booth No. E-24

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
- · Allergy, Immunology and Inflammation
- · Structure and Function
- Obstructive Lung DiseaseInfections and Tuberculosis

· Diffuse Lung Disease

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· Thoracic Oncology

· Respiratory Care

· Clinical Problems

· 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 Booth No. E-25

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.

Official Journal of the Asian Pacific Society of Respirology

Respirology Editorial Office

Booth No. E-26

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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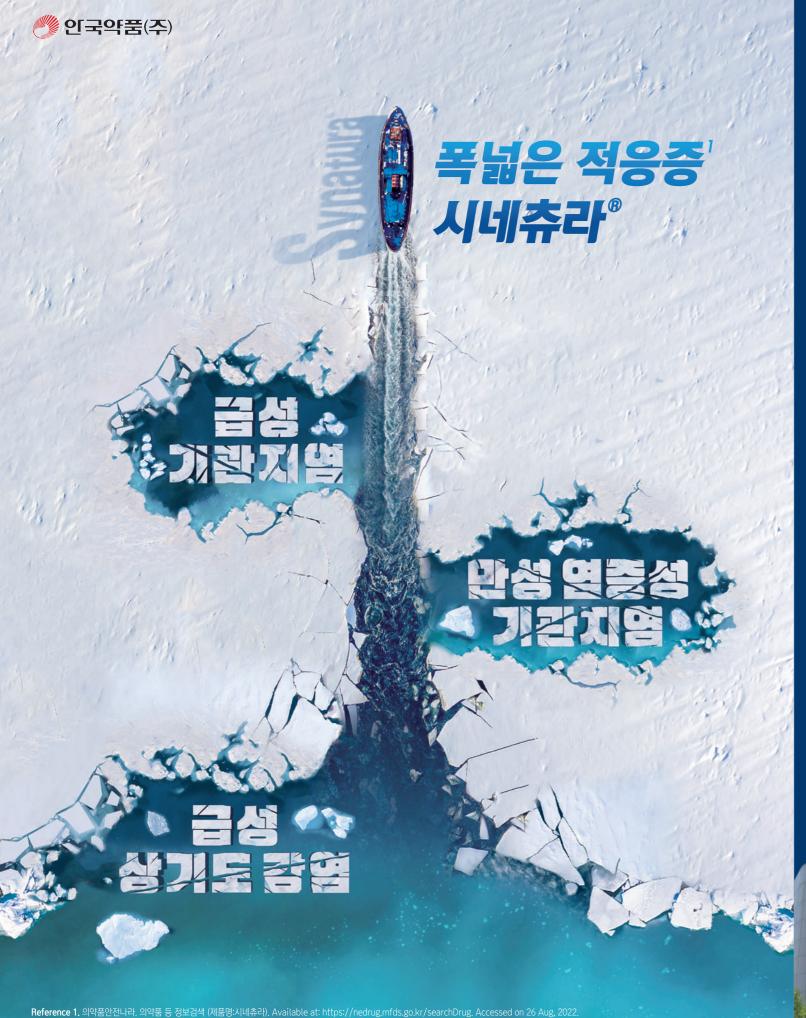


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아주약품(주)

Synatura® Product Information

[분류번호] 222 / 진해가담제 [생분· 현행] 100 mL 중 황현수포화부단을건조엑스 87.5 mg, 아이비업 30%에단음엑스 262.5 mg [호능·호과] 1. 다음 질병으로 인한 가침, 가래 : 급성 상기도 감염, 만성 염증성 기관자업 2. 급성 기관자업 [동법·용량] 1. 다음 질병으로 인한 가침, 가래 : 급성 상기도 감염 만성 염증성 기관자업 - 연형에 따라 아래의 용량으로 1일 3월 경구투여 - 만2·-6세 : 1회 5 mL, · 만 7·-14세 : 1회 10 mL, · 일 15 세 미상 15 mL : 2급성 기관자업 - 만1 15 mL : 1월 3월 경구투여 [저강방법] 기밀용기, 실운(1-30 * 이보관 [모험코드] 10 mL : 650203654 15 mL : 650203656 / 500 mL : 650203651 [보험약가] 1899/10 mL/로, 2839/15 mL/로, 1994/500(1) mL/명 * 제품 정보는 충명반 내용이므로, 자해한 정보는 각 제품성명서를 참고하셔서 기반되다.





SYMBICORT® RELIEVER **CHANGES LIVES**

SYMBICORT® IS ANTI INFLAMMATORY RELIEVER

[심비코트는 천식환자의 치료, 중증의 만성폐쇄성폐질환에 허가되어 있습니다. 한국아스트라제네카는 허가되지 않은 적응증, 용량을 권장하지 않습니다.]

Reference 1. Partridge MR, et al. Attitudes and actions of asthma patients on regular maintenance therapy: the INSPIRE study. BMC Pulmonary Medicine 2006, 6:13. 2. 2019 GINA. 3. 2020 GINA. 4. 2021 GINA

Product Information [성분·항량] 심비코트 터부헬러 160/4.5μq (1g 중 주성분 : 부데소니드(미분화)(별규) ··· 180mg, 포르모테롤푸마르산염수화물(별규) ···5mg) [적용증] 천식환자의 치료, 중증의 만성폐쇄성 폐질환 [용 법•용량] 천식•이 약은 천식 증상의 예방과 증상의 완화 그리고 증상약화 위험의 감소를 포함한 전반적인 천식의 조절을 위한 천식의 치료를 목적으로 한다. 이 약은 흡입 코르티코스테로이드의 사용이 적합한 천식 환자들에게 천식 의 중증도와 상관없이 투여 가능하며 용량은 질환의 중증도에 따라 개인별로 조절해야 한다. 이는 치료의 시작 시기뿐 아니라 용량 조절 시기에도 고려되어야 한다. 만일 환자 개개인이 복합제로서 가능한 용량 이외의 복합 용량을 필 요로 하는 경우 개개 성분의 흡입제에 의한 작절한 용량의 β 2 효능약이나 코르티코스테로이드를 처방하여야 한다. 환자는 정기적으로 의사의 진단을 받아 최적의 용량을 유지할 수 있도록 해야 하며 천식증상을 조절할 수 있는 최 저용량으로 유지되어야 한다. 이 약은 아래와 같은 치료 요법들이 있다. 1.항염증 증상완화요법(Anti-inflammatory reliever therapy) 2.항염증 증상완화요법을 포함한 유지요법(Anti-inflammatory reliever plus mainte therapy) 3.유지요법(Maintenance therapy) 항염증 증상완화요법(경증천식환자): (1) 12세 이상의 청소년 및 성인: 환자는 증상완화를 위하여 필요시 1회를 흡입해야 하며, 천식 조절을 위하여 알레르기원 또는 운동으로 유발된 기관지수축의 예방 목적으로도 사용할 수 있다. 환자가 1회에 6번을 초과하여 흡입하지 않도록 한다. 총 1일 흡입용량은 8번 이하이지만 예외적인 경우에 일시적으로 1일 최대 12번까지 흡입할 수 있다. ·항염증 증상완화요법을 포 함한 유지요법 : (1) 12세 이상의 청소년 및 성인: 환자들은 추천 유지 용량(1회 1번을 1일 2회 흡입. 아침 1회, 저녁1회씩 흡입 또는 아침에만 2회 흡입 또는 저녁에만 2회 흡입)을 흡입한다. 일부 환자는 최대 1회 2번을 1일 2회 유 지요법으로 흡입할 수 있다. 환자는 증상완화를 위하여 필요시 1회를 흡입해야 하며, 만약 증상이 수분동안 지속되면 추가적인 흡입이 필요하다. 환자가 1회에 6번을 초과하여 흡입하지 않도록 한다. 총 1일 흡입용량은 8번 이하이 지만 예외적인 경우에 일시적 으로 1일 최대 12번까지 흡입할 수 있다. 1일 흡입용량이 8번 이상 요구되는 환자는 추가적인 의학적 처치가 필요하며, 환자의 상태를 재평가하고, 유지요법을 재고하여야 한다. (2) 12세 미만의 소이 12세 미만의 소아에게 증상완화를 포함한 유지요법은 추천되지 않는다. - 유지요법 : (1) 18세 이상의 성인 : 1회 1~2번을 1일 2회 흡입하거나 또는 1회 1~2번 1일 1회 흡입한다. 일부환자는 최대 1회 4번을 1일 2회까지 흡입할 수 있다. (2) 12~17세의 청소년 : 1회 1~2번을 1일 2회 흡입하거나 또는 1회 1~2번 1일 1회 저녁에 흡입한다. (3) 6세 이상 12세 미만 소아 : 1회 1번을 1일 2회 흡입한다. 1일 최대 2번까지 흡입할 수 있다. (4) 6세 : 6세 미만의 소아에 대하여 이 약의 투여는 추천되지 않는다. · 이 약 1일 2회 투여로 중상이 조절될 경우, 지속형 기관지 확장제가 증상조절에 필요하다는 의사의 처방이 있는 경우에 한하여, 최저유효용량으로의 용량 조절 범위여 이 약 1일 1회 투여가포함될 수 있다. ㆍ구제요법으로 사용하는 속효성 기관지확장제의 용량 증가는 기저 질환의 악화를 나타내며 천식 치료가 재평가되어야 한다. · 증상이 조절된 경우, 천식증상을 조절할 수 있는 최저용량으로 유 지되어야 한다. 특정환자군ㆍ노인환자의 경우 용량을 조절할 필요는 없다. ㆍ간이나 신손상 환자에서 이 약의 사용에 대한 자료는 없다. 부데소니드와 포르모테롤은 주로 간대사를 통해 제거되므로 심각한 간경화 환자에게는 노출의 증가가 예상된다. 만성 폐쇄성폐질환 성인 : 1회 2번을 1일 2회 흡입 [사용상 주의사항] 다음 환자에는 투여하지 말 것 : 1. 부데소니드나 포르모테롤 또는 흡입 유당에 과민증 (알레르기성)인 환자 2. 6세 미만의 소아 ※ 문현개정연 월일: 2019년 11월 1일 ※보다 자세한 사항은 제품설명서 전문을 참조하시거나 아스트라제네카(주) TEL: (02, 2188, 0800)로 문의 바랍니다. (자세한 내용은 홈페이지 참조) aSYM201911011

KR-10500 | Exp. 2024-02 (Prep. 2022-02)

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- Treatment of idiopathic pulmonary fibrosis (IPF)
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and modify ILD progression by slowing lung function decline²⁻⁴

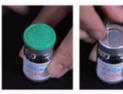




The 편리한 개선

뮤코미스트® BFS'는 더 편리한 개봉이 가능합니다.

뮤코미스트[®] 바이알 개봉과정

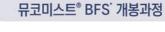








1. 플라스틱캡 개봉 2. 알루미늄캡 개봉 3. 고무캡 개봉





딱 하는 것 꺾어주세요

뮤코미스트® BFS 10% 출시로 사용 및 휴대 **편의성이 개선** 되었습니다.

기존 뮤코미스트® 30일 원외처방 수량



뮤코미스트® 90바이알 + 소용량 식염수 30개(1:1희석시)

❷ 원외처방 시 환자가 직접 1:1 생리식염수 희석 과정 필요

NEW 뮤코미스트® 10% 원외처방 수량



뮤코미스트® BFS: 10% 90앰플

- ❷ 생리식염수 1:1 희석 과정 불필요
- ♥ 부피, 무게, 식염수 구매 부담 감소

뮤코미스트® BFS 는 (7g) 기존보다 53% 더 가벼워졌습니다!

*BFS: Blow-Fill-Seal technology

The 안전한 개선

뮤코미스트® BFS는 LDPE'소재로 주사제 혼동 가능성이 적습니다.

주사제 혼동 가능성 감소



주사제와 동일한 Glass 소재의 바이알



흡입형 의약품과 동일한 제형

뮤코미스트® BFS는 파손의 위험이 적습니다.

파손 위험성 감소



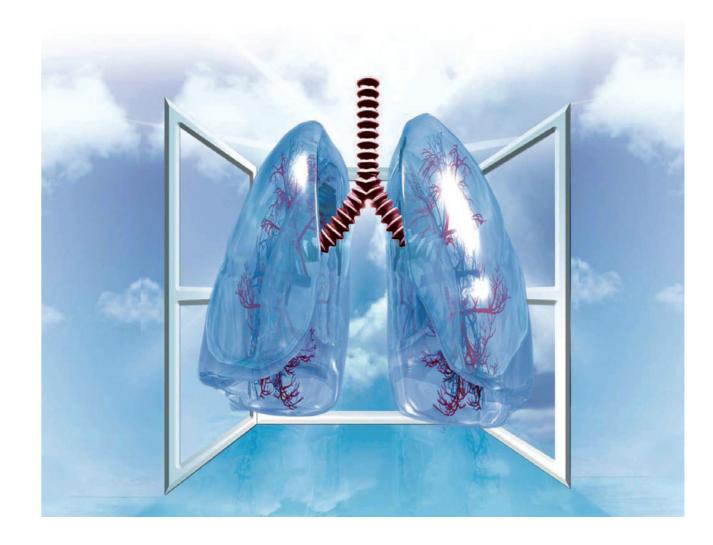
Glass 소재의 바이알



LDPE(저밀도폴리에틸렌) 소재의

*LDPE: Low Density Polyethylene

Original Doxofylline with Wide therapeutic window for Asthma & COPD





1. 우수한 치료 효과 :

액시마®정의 주성분은 Xanthine 계열 중 독소필린(Doxofylline)으로, 국내최초 독소필린 성분의 Original 제품입니다.

디수의 임상 시험 결과, 액시마®정은 theophylline, aminophylline만큼 우수한 기관지확장 효과를 나타냄이 입증되었습니다.

- 1. 주성분 : 독소필린 400mg/정
- 2. 효능·효과 :
- 기관지 천식
- 만성폐쇄성기관지염
- 3. 용법 용량 : 성인 1회 1정씩 1일 2~3회 투여
- 4. 의료보험코드: 642201540(구 A13102851)

2. 부작용의 현저한 감소:

주성분 독소필린은 아데노신 수용체와의 친화력이 작아 부작용 발현이 매우 적습니다. 따라서 중추신경계, 위장관계, 심혈관계, 수면 장애 등의 부작용이 기존의 theophylline 제제보다 현저히 낮아졌습니다.



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Chlorpheniramine Malate, Ammonium chloride, Pelagonium Sidoides Ethanol Ext.



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





♦ Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation Variation V







Intended Use Detection of SARS-CoV-2

Carbapenemase Producing **Gram Negative Bacteria**





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

Test Run Time (Min)



Intended Use Detection of MTB and rifampin resistance mutations

Test Run Time (Min)

♦ Xpert[®] C. difficile



and MRSA





Intended Use

Detection of Clostridium difficile infection and differentiate 027 strain





Intended Use Pre-surgical testing of S. aureus

Test Run Time (Min)



Intended Use Detection of Enterovirus

Test Run Time (Min)



EZOLATION DE LA CONTRA LA

GSK

누칼라주》

> 치료시작시 **혈중 호산구 150 cells/μ0 이상** 또는,

✓ 치료시작전 12개월 이내에 혈중 호산구 300 cells/씨 이상

> 호산구성 천식 치료제'

[표기 중증의 호신구성 천식 시험자 중 이 약투여군에서 3% 이상 발생하고,

유해시례	이 약(n = 263) %	위약(n = 257) %
두통		46(18%)
주사부위 반응		8(3%)
25	14(5%)	9(4%)
피로감		
	7(3%)	6(2%)
	9(3%)	4(2%)
상목부 통증		
	7(3%)	5(2%)
습진	9(3%)	1[<1%]

2022 대한민국 신약개발상 수상!

브론패스®정은 최초로 7가지 생약추출물을

배합하여

조성물특허성분으로 개발된 **새로운 진해거담제** 입니다.



BRONPASS TAB.

[제품명] 브론패스정 [성분·함량] 이 약 396.4mg 중 숙지황·목단피·오미자·천문동·황금·행인·백부근연조엑스(1.4~1.7→1)·옥수수전분 혼합건조물(4.8:1) 300 mg (별규) [성상] 연녹색의 타원형 필름코팅 정제 [효능·효과] 급성 기관지염 [용법·용량] 성인 1회 1정, 1일 2회 복용 [사용상의 주의사항] 1. 다음 환자에는 투여하지 말 것 1)신생아 2)임부 또는 임신 가능성 여성 이상 흔하게 환자에서 보고된 이상 사례는 관찰되지 않았다. 이 약과 인과관계를 배제할 수 없는 약물 이상반응은 변비 1건, 소화불량 1건, 위식도역류성 질환 1건, 혀의 발진 1건, 알라닌아미노전이효소 증가 1건, 아스 파르테이트아미노전이효소 증가 1건, 가슴 두근거림 1건 및 두드러기 1건이었으며 모두 경증으로 나타났다. [저장방법] 기밀용기, 실온(1-30°C)보관 [사용기한] 제조일로부터 36 개월 [보험약가] 183원/정 [포장단위] 30 정/병, 300 정/병

>>> 한림제약

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몬테리진

(Montelukast Na + Levocetirizine 2HCI)



·두 성분의 상호보완작용으로 알레르기 비염 개선 효과 ·경구용 복합제로 복약 편의성 제공 ·3상 임상 통한 천식환자의 알레르기 비염에 대한 우월성 입증









피레스파 발매 10주년

피레스파는 10년간의 임상경험으로 효과와 안전성이 입증되었습니다.

특발성폐섬유증으로 고통 받는 환자를 위해 헌신해 오신 선생님의 노고에 감사드립니다.







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다음 환자에는 신중히 투여 할 것 1) 이전의 전신 스테로이드 요법으로부터 부시기능이 손상된 것으로 생각되는 환자 2) 신혈관계 질환 환자 : 심장부정맥 3도 방실처단 번맥 특발성 대동맥판하부 현착증 비후성 폐색성심근병증 중증 심장질환 급성 심근경색 허혈상 다듬 환자에는 '안동이 부어 할 것 및 이다는 이건을 스타보이트 요립으로부터 우신가들이 논성된 것으로, 영식되는 현재 2 변환에게 잘한 의 전체 - 현장 현재, 한경 스타스 및 그 병역이 있는 현장 경험 스타스 및 그 병역이 있는 현장 실험적 하는 기본 이 발생 현장 경험 등 생활하고 있는 현재 3 대통액 변화 등 전체 2 변화

(Medierance) 1. 한국천식진료지침 2021, 대한천식알레르기학회 2. Global Initiative for Ashma 2022 3. 포스터® 100/6 HFA, 포스터넥스트할러 제품설명서 4. Scichilone N. Adv Ther 2015, Apr;32(4):285-92 5. Carpagnano GE et al, Pulm Pharmacol Ther, 2020 Feb80:101879 6. J Aerosol Med Pulm Drug Deliv, 2010 Jun;23(3):137-48.

[수입판매원]





언제, 어디서나 Portable HFNC + NIV

HFT750은 배터리를 탑재하고 있어, '이동이 가능한 다기능 비침습적 호흡 치료기' 입니다.

삽관 이전 단계의 모든 호흡 보조 및 기능들을 제공하여 갑작스럽게 변화할 수 있는 환자 상태에 신속하게 대응할 수 있고,

환자 상태에 맞는 필수 모니터링 값과 알람을 제공하여 효율적으로 환자를 관리 할 수 있도록 합니다.







Brief Specificaion

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

모니터링 값

HF & NIV - Flow rate, FiO₂, SpO₂, RR, PR, S/F ratio, PI 및 가습관련 온도 NIV only - PIP, PEEP, Vt est

가습 온도 설정 범위

HF 기능: 34 °C부터 37 °C

CPAP & bi-level 모드: 꺼짐, 31 ℃부터 37 ℃

전력 소비량: 350 VA Max.

배터리 동작 시간: 배터리 100% 기준, 최소 30분 이상

제품 크기 : 21.4 x 33.8 x 21.9 (Width x Depth x Height) cm

제품 무게: 5.8 kg

[CONTACT]

OmniOx

All levels of respiratory patient acuity

HIGH FLOW NASAL CANNULA THERAPY

Low flow O₂

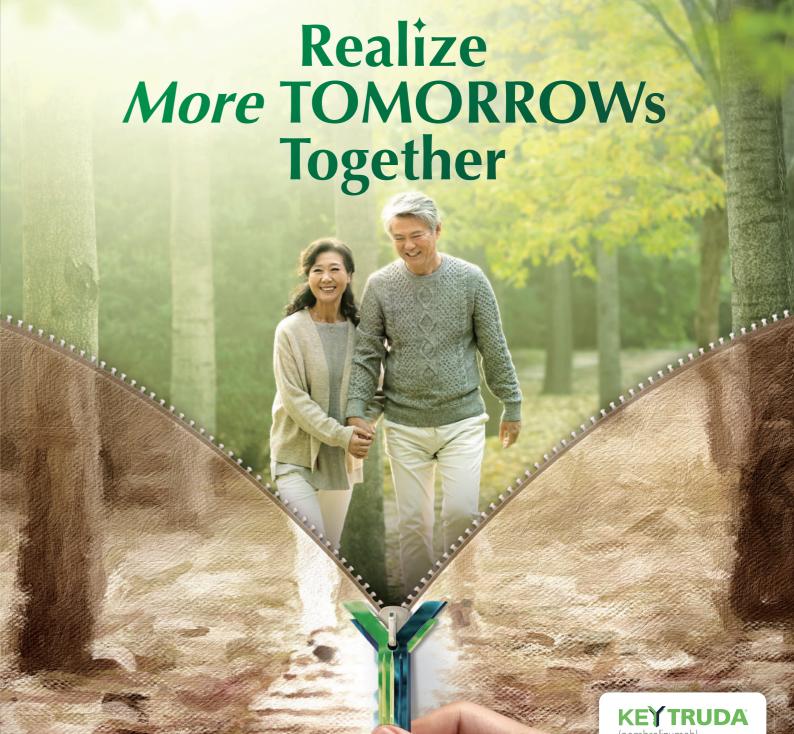
High concentration O₂ with oxygen mask

Non-Invasive

Invasive ventilation

HFNC, CPAP & bi-level





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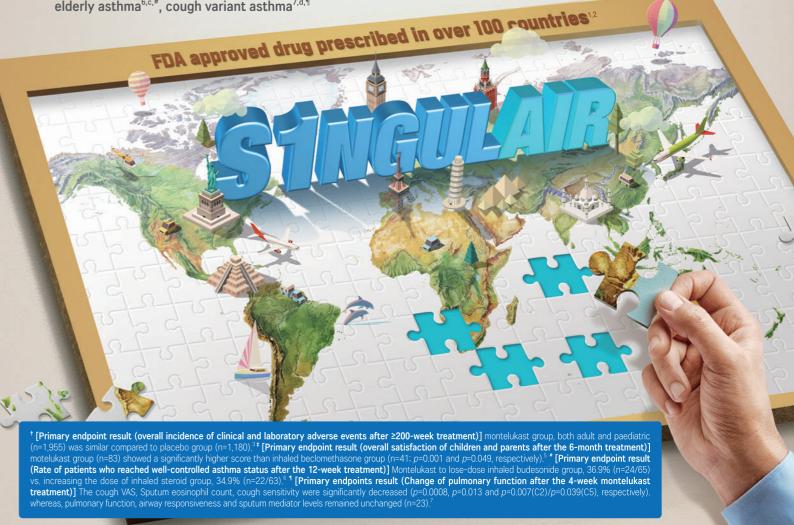
1. 에너제어[®] 브리즈헬러[®] 식품의약품안전처 의약품통합정보시스템(nedrug.mfds.go.kr) **2.** Kerstjens HAM et al. *Lancet Respir Med* 2020 Oct;8(10):1000-1012

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- Proven effectiveness in patients with pediatric asthma^{5,b,‡}, elderly asthma^{6,c,#}, cough variant asthma^{7,d,¶}





Start Strong with Proven First-Line Efficacy



비짐프로는 상피세포성장인자수용체(EGFR) 엑손 19 결손 또는 엑손 21 L858R 치환 변이가 있는 국소진행성 또는 전이성 비소세포폐암(NSCLC) 환자에 1차치료제로 국내 사용 승인되었습니다:³



비짐프로는 EGFR exon 19 결손 또는 exon 21 L858R 치환 변이가 있는

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Median OS was 12.3 months with TECENTRIQ® + carbo/etop vs 10.3 months with placebo + carbo/etop (HR=0.76: 95% CI, 0.60, 0.95; P=0.0154)²³

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Atezolizumab (TECENTRIQ®) + carbo/etop 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).11

† Category 1: based upon high-level evidence, there is uniform NCCN consensus that the intervention is appropriate.

1L=first line; carbo/etop=carboplatin/etoposide; CI=confidence interval; ES-SCLC=extensive-stage small cell lung cancer; HR=hazard ratio; NCCN=National Comprehensive Cancer Network; OS=overall survival,

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[분보이트로]** 주(아테솔리주만)
[분보전병] 기로병]이 약 바이(의20m1) 중 유송성반(아테골라주만(변규))20mg, 이 약바이(의20mg) 이 약바이(의20mg) (사실) 유식/내기(현반-및 액파/ 충진된바)(연구시계(급등畫湖) 요로설피입 1시스플린) 가 환형(인체계(리여 여원) 10mg) (사실) 변화 10kg 12mg) (사실) 10kg 12mg) (hall) 10kg 12mg) (

*보다자세한제품문의또는제품관련부작용보고는(주)한국로슈(02·3451·3600)로 연락주시기바랍니다. *가장최신제품정보는㈜한국로슈홈페이지(www.roche.co.kr)에서확인하실수있습니다.

Reference 1. 건강보험심사평가원 공고 제 2020-216호. 안환자에게 처방 투여하는 약제에 대한 요앙급여의 적용기준 및 방법에 관한 세부사항 중 개정 (2020.7.29.) 2. Horn L. et al. First-Line Atezolizumab plus Chemotherapy in Extensive-Stage Small-Cell Lung Cancer. N Engl J Med. 2018 Dec 6;379(23):2220-2229. 3. Reck M et al. updated overall survival (05) analysis of first-line (IL) atezolizumab (atezo) + carboplatin + etoposide in extensive-stage SCLC (ES-SCLC). Annals of Oncology presentation ppt ESMO 2019 SFP 284 A, NCCN Guideline - Small Cell Lung Cancer v2-2022(Updated on Nov25,2021) 5. EME== 7 MB ABB/dx (2021-10-10)



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EOS, eosinophils; FeNO, fractional exhaled nitric oxide; OCS, oral corticosteroid. '처방 전, 듀피젠트® 국내 허가사항의 적응증 및 용법·용량을 반드시 확인하시기 바랍니다. **as of 2020.0 References 1. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2020. https://ginasthma.org/wp-content/uploads/2020/06/GlNA-2020-report_20_06_04 - L-wmrs.pdf. Accessed July 31>, 2020 2, Fam젠트®프리필트주200/300일라그램 제품설명서(2020.07.15) 3. Papadopoulos NG, et al. Allergy. 2020.75(7):1555-1563. 4. "듀피젠트®피리필드 300m® "31-09/8년서본에는 xc fi Aue 11 2020 http://www.kimsonilor.co.kr/



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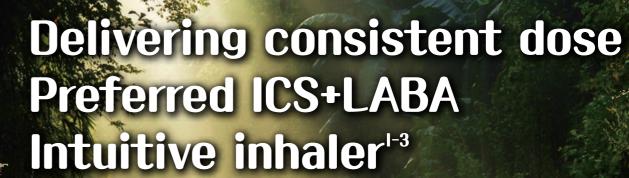
NSCLC, non-small cell lung cancer; PFS, progression-free survival.

Non-Small Cell Lung Cancer: Second Interim Analysis of the Phase III ALTA-1L Trial. J Clin Oncol. 2020 Aug 11; JCO2000505. 3. 알룬브릭" 국내하가사항, 식약처 의약품안전나라, available at https://nedrug.mfds./Seq=201804848, Accessed on Jul 2021.

ONCOLOGY

이 내용은 허가사항을 요약한 것으로 자세한 정보는 제품의 첨부 문서 또는 식약처 의약품안전나라 (http://nedrug.mfds.go.kr)의 각 제품 허가사항을 확인하십시오. 서울특별시 송파구 올림픽로 300 롯데월드타워 37층 (05551)

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ICS, inhaled corticosteroid; LABA, long-acting β agonist

- 1. DuoResp® Spiromax®Product Monograph 2014.
- 2. Canonica GW, et al. J Aerosol Med Pulm Drug Deliv 2015;28:309-19.
- 3. Global Initiative for Asthma (GINA). Global strategy for asthma management and prevention updated 2022. Available at https://ginasthma.org/wp-content/uploads/2021/05/GINA-Main-Report-2021-V2-WMS.pdf accessed on 25 Mar, 2022.

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- ✔ 리알트리스는 FDA 승인을 받은 국내 최초의 Olopatadine + Mometasone Furoate 복합제입니다.3,4
- ✔ 리알트리스의 각 유효성분은 우수한 감각 특성을 가지고 있어 환자의 선호도 및 치료 순응도를 높일 수 있습니다.5-7
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[References] 1. Brozek JL, et al. J Allergy Clin Immunol. 2017;140(4):950-958. 2. Dykewicz MS, et al. J Allergy Clin Immunol. 2020;146(4):721-767. 3. Ryeltris® FDA-approved label (Revised on Jul. 2022) 4. 리알트리스나잘스프레이액 제품설명서 (작성연월일 2022.03.18). 5. Sher ER, et al. Allergy Asthma Proc. 2014;35(1):24-33. 6. Meltzer EO, et al. Treat Respir Med. 2005;4(4):289-296. 7. Meltzer EO, et al. Allergy Asthma Proc. 2008;29(6):659-668.

리알트리스나잘스프레이액 제품요약정보

전문의약

[원료 약품 및 분령] 1 mL 중 모메타손푸로에이트일수화물(EP) 0.259 mg (모메타손푸로에이트로서 0.25 mg), 올로파타딘염산염(USP) 6.65 mg (올로파타딘으로서 6 mg) [효능·효과] 성인 및 12세 이상 청소년: 계절 알레르기비염 증상의 치료 [용법·용령] 계절 알레르기비염·하루2회 각 비공에 2번씩 분무하십시오 [사용상의 주의사항] 1. 다음 환자에는 투여하지 마십시오. 1) 이 약 또는 이 약의 구성성분에 대해 과민반응 및 그 병력이 있는 환자 2) 비강 궤양, 비중격 천공, 비출혈, 비강점막에 치료되지 않은 국소감염 칸디다 알바칸스 감염 3) 최근에 비강의 외과수술을 받았거나 비강의 질병을 가진 환자, 비중격궤양 환자 또는 코에 외상이 있는 환자(코르타코스테로이드류의 상처치유 방해효과를 고려하여 이러한 환자는 치유가 될 때까지 비강용 코르타코스테로이드류를 사용해서는 안 된다.) [저장방법] 기밀용기, 15°C~25°C 보관 [포장단위] 18 mL/병, 31 mL/병 [작성연월일] 2022.03.18

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