

2021 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 62nd ANNUAL MEETING

APRIL 1 - 3, 2021 VIRTUAL

PROGRAM BOOK



CONTENTS

Welcome Message	1
ICKSH2021 Organizing Committee	2
ICKSH2021 Executive Steering Committee	3
Program at a Glance	4
Virtual Conference Information	14
Events	17
Sponsors (Acknowledgements)	20
Key Speakers	22
Daily Program	23
Poster List	37

APRIL 1(Thu) - 3(Sat), 2021 | VIRTUAL

WELCOME MESSAGE

Dear Colleagues,

On behalf of the Organizing Committee, it is a great honor and privilege to welcome you to the 2021 Korean Society of Hematology (KSH) International Conference & 62nd Annual Meeting, hosted by KSH, from April 1 to 3, 2021.

As our first virtual conference, ICKSH 2021 will provide a unique opportunity to learn about the most recent findings and research from renowned experts and offer an occasion to exchange experiences and information with colleagues for the continued success and progress of our field.

ICKSH 2021 will include not only various scientific programs such as plenary lectures, scientific and education sessions, and several satellite symposiums with specialists on numerous hematology-related topics, but also exciting events for participants like ICKSH Points, SNS Hashtag Event, E-Booth Stamp Tour, and more.

We appreciate your interest in our first virtual conference and hope to see you in person in 2022 in a safe environment.



Kyung-Ha Ryu, MD., Ph.D. Congress Chair

The Korean Society of Hematology

938

Je-Hwan Lee, MD., Ph.D.

President

The Korean Society of Hematology

ICKSH2021 ORGANIZING COMMITTEE

Congress Chair

Kyung-Ha Ryu

Ewha Womans University School of Medicine

Auditor

Deog Yeon Jo

Chungnam National University College of Medicine

Secretary-General

Seongsoo Jang

University of Ulsan College of Medicine

Scientific Program Committee Chair

Jin Seok Kim

Yonsei University College of Medicine

Finance Committee Chair

Seok Jin Kim

Sungkyunkwan University School of Medicine

Health Insurance Committee Chair

Yeung-Chul Mun

Ewha Womans University School of Medicine

International Cooperation Committee Chair

Keon Hee Yoo

Sungkyunkwan University School of Medicine

Medical Info. & Social Cooperation Committee Chair

Hyoung Jin Kang

Seoul National University College of Medicine

Public Relations Committee Chair

Young Kyung Lee

Hallym University College of Medicine

Membership Committee Chair

Chang-Ki Min

The Catholic University of Korea, College of Medicine

Society Cooperation Committee Chair

Young Rok Do

Keimyung University School of Medicine

President

Je-Hwan Lee

University of Ulsan College of Medicine

Auditor

Seok Lae Chae

Dongguk University College of Medicine

Vice Secretary-General

Kyung-Nam Koh

University of Ulsan College of Medicine

Scientific Program Committee Vice-chair

Dong-Yeop Shin

Seoul National University College of Medicine

Editor-in-Chief

Myung Geun Shin

Chonnam National University Medical School

Legislation Committee Chair

Yoon Hwan Chang

Seoul National University College of Medicine

Research Committee Chair

Deok Hwan Yang

Chonnam National University Medical School

Medical Policy Committee Chair

Nack Gyun Chung

The Catholic University of Korea, College of Medicine

Education Committee Chair

Hyo Jung Kim

Hallym University College of Medicine

Textbook Committee Chair

Sung Hyun Kim

Dong-A University College of Medicine

ICKSH2021 EXECUTIVE STEERING COMMITTEE

Honorary Chair

Sung-Soo Yoon

Seoul National University College of Medicine

President

Je-Hwan Lee

University of Ulsan College of Medicine

Vice Secretary-General

Kyung-Nam Koh

University of Ulsan College of Medicine

Scientific Program Committee Vice-chair

Dong-Yeop Shin

Seoul National University College of Medicine

International Cooperation Committee Chair

Keon Hee Yoo

Sungkyunkwan University School of Medicine

Public Relations Committee Chair

Young Kyung Lee

Hallym University College of Medicine

Congress Chair

Kyung-Ha Ryu

Ewha Womans University School of Medicine

Secretary-General

Seongsoo Jang

University of Ulsan College of Medicine

Scientific Program Committee Chair

Jin Seok Kim

Yonsei University College of Medicine

Finance Committee Chair

Seok Jin Kim

Sungkyunkwan University School of Medicine

Research Committee Chair

Deok Hwan Yang

Chonnam National University Medical School

Time	ROOM 1	ROOM 2	ROOM 3
08:00- 09:00		Registration	
08:50- 09:00	Opening Remark		
09:00- 10:30	SS01 SS02 Acute Lymphoblastic B-Cell Lymphoma Leukemia		ES01 Myelodysplastic Syndrome
	Contemporary Treatment of Pediatric Ph+ ALL (Kirk Schultz, Canada)	Diffuse Large B cell Lymphoma: At the Intersection of Genetics and Epigenetics (Laura Pasqualucci, USA)	Myelodysplastic Syndrome and Overlap Syndrome (Yoon Hwan Chang, Korea)
	Current Treatment Approaches to Newly Diagnosed Adult ALL (Daniel Joseph DeAngelo, USA)	Immunotherapy for Hodgkin Lymphoma (John Kuruvilla, Canada)	MDS with Genetic Predisposition (Meerim Park, Korea)
	Results of High Risk and Novel Subtypes of Pediatric ALL in Japan (Katsuyoshi Koh, Japan)	Optimal Treatment of High-Risk Aggressive B-Cell Lymphoma (Lorenz Trümper, Germany)	Diagnosis and Treatment of Chronic Myelomonocytic Leukemia (Jihyun Kwon, Korea)
10:30- 11:15	PL01 Cutting Edge of Emerging Therapies		
	Clonal Hematopoiesis and the Origins of Hematologic Malignancies (Benjamin Ebert, USA)		
11:15- 11:30		Break	
11:30- 12:10	[Satellite] SY01	[Satellite] SY02	[Satellite] SY03
	astellas	SANOFI GENZYME 🗳	Celgene t ^{III} Bristol Myers Squibb" Company
	New Treatment Options for FLT3 mutated AML (Alexander Edward Perl, USA)	Latest Treatment for Hemophilia A and B in Japan (Keiji Nogami, Japan)	Optimal Treatment with IMiDs in Newly Diagnosed Multiple Myeloma (Pieter Sonneveld, The Netherlands)

Time	ROOM 1	ROOM 2	ROOM 3	
12:10- 12:55	E-poster Exhibition			
12:55- 14:25	AS01 Recent Therapeutic Approaches in CML (12:55-13:55)	JS01 KAI-KSH Joint Symposium	SS03 Advances in Technology	
	From Korean Perspective (Young Rok Do, Korea)	Regulating Regulatory T Cells for Enhancement of Cancer Immunotherapy (Sang-Jun Ha, Korea)	Mutational Landscape in Clonal Hematopoiesis of Indeterminate Potential (Elli Papaemmanuil, USA)	
	Impact of Socio-demographic Covariates on Disease Prognosis, TKI Use and Outcomes on Patients with CML (Qian Jiang, China)	IL-17-Producing Cells in Tumor (Yeon Seok Chung, Korea)	Intelligent Image-Activated Cell Sorting: Principles and Application to Hematology (Akihiro Isozaki, Japan)	
	From Japanese Perspective (Shinya Kimura, Japan)	Pro-Inflammatory Cytokines in Graft-Versus-Host Disease (GVHD) (Young-Woo Jeon, Korea)	HARMONY: A Big Data for Better Outcomes Project in Hematologica Malignancies	
		Harnessing Adaptive Natural Killer Cells for Immunotherapy in Multiple Myeloma (Hyunsoo Cho, Korea)	(Jesús María Hernández Rivas, Spain)	
14:25- 14:40		Break		

Time	ROOM 1	ROOM 2	ROOM 3
14:40- -16:10	AS02 Updates of Hematologic Disease in Asian Population [14:40-15:40]	JS02 KOGO-KSH Joint Symposium - Genomics for Precision Hematology -	Stem Cell: Biology and Therapeutic Target
	Management of TDT and NTDT Thalassemia in Indonesia (Tubagus Djumhana Atmakusuma, Indonesia)	Single Cell RNA Sequencing Reveals Transcriptional Programs Associated with Myeloma Progression (Hae-Ock Lee, Korea)	Discovery of New Regulators in Stem Cells and Malignancies (Dongjun Lee, Korea)
	Hemophilia Treatment in Singapore (Tien Sim Leng, Singapore)	Multi-Omics Analysis and Modeling of DNA Methylation in Cancer (Sun Kim, Korea)	AMD1 Is Essentially Required in Leukemic Stem Cells (Hyog Young Kwon, Korea)
	Thalassemia Treatment in Malaysia (Jameela Sathar, Malaysia)	Clinical Application of Next- Generation Sequencing in Acute Myeloid Leukemia (Jae-Sook Ahn, Korea)	BCL-2 as a Stem Cell Target in AML (Daniel A. Pollyea, USA)
		Challenges in the Introduction of Next-Generation Sequencing for Diagnostics of Hematologic Malignancies (Seung-Tae Lee, Korea)	
16:10- 16:25		Break	

Time	ROOM 1	ROOM 2	ROOM 3
16:25- 17:55	JS03 EHA-KSH Joint Symposium 1 - Basic - (16:25-18:05)	SS05 Multiple Myeloma	ES02 Rare Hematologic Disorders
	Clonal Evolution under IDH Inhibitor Therapy in AML (Lynn Quek, UK)	Novel Strategies to Overcome Relapsed/Refractory Multiple Myeloma (Suzanne Trudel, Canada)	Molecular Diagnosis of Thalassemia (Jee-Soo Lee, Korea)
	Predicting Drug Sensitivity for Personalized Therapy of AML (Kimmo Porkka, Finland)	MRD Negativity - The Foremost Important Goal of Myeloma Treatment? (Bruno Paiva, Spain)	Current Understanding and Treatment Strategies of Langerhans Cell Histiocytosis (Kyung-Nam Koh, Korea)
	TET Loss-of-Function in Malignant Hematopoiesis (Myunggon Ko, Korea)	Light chain Amyloidosis (Kihyun Kim, Korea)	Pathogenesis and Treatment Overview on Secondary Hemophagocytic Lymphohistiocytosis (Yu Ri Kim, Korea)
	Novel Small Molecule Drug Discovery to Override NRAS- Mutated AML (Taebo Sim, Korea)		

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
08:00- 09:00	Registration			
09:00- -10:30	JS04 ASH-KSH Joint Symposium - ALL -	SS06 Thrombotic Issues in Hematology	ES03 Lymphoma - Novel Diagnosis and Management of B-cell Lymphoma -	
	Epigenetic Control in T-ALL (Marjorie Brand, Canada)	Direct Oral Anticoagulants for the Treatment of VTE in Cancer Patients (Marc Carrier, Canada)	B-Cell Lymphoma's New Genomics (Youngil Koh, Korea)	
	CART cells for Leukemia: What Is Next? (Renier J Brentjens, USA)	Immune Mediated TTP (iTTP): Differential Diagnosis, Treatment, and Follow Up (Spero Cataland, USA)	Immuno-Oncology for B-Cell Lymphomas (Yoon Seok Choi, Korea)	
	Current Concepts in the Management of Relapsed/Refractory ALL in Korea (Joon-ho Moon, Korea)	Post-Transplant Thrombotic Microangiopathy (Vahid Afshar-Kharghan, USA)	Novel Combination Immunochemotherapy beyond CD20 for B-cell Lymphoma (Jun Ho Yi, Korea)	
	Pediatric Acute Lymphoblastic Leukemia in Korea (Hyoung Jin Kang, Korea)			
10:30- 11:15	PL02 Clinical Hematology Lecture			
	Genetic Landscape of Lymphoma and Novel Treatment Approaches (Wyndham Hopkins Wilson, USA)			
11:15- 11:30		Bre	eak	

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
11:30- 12:10	[Satellite] SY04	[Satellite] SY05	[Satellite] SY06	[Satellite] SY07
	HANJOOK	Roche	AMGEN °	Janssen J
	Ravulizumab: Next Generation of C5 Inhibitor for Standard Care of PNH (Jin Seok Kim, Korea)	Treatment of Relapsed/ Refractory DLBCL: Role of Polatuzumab Vedotin (Laurie H. Sehn, Canada)	Treatment Strategies in Relapsed Multiple Myeloma: A Focus on Sequential Treatment for Survival Benefit (Joseph Mikhael, USA)	First-line Treatment of CLL in 2021 (Philip A. Thompson, USA)
12:10- 12:40	F-noctar Evhibition			
12:40- 13:40	OP01 Acute Leukemia	OP02 Laboratory Hematology	OP03 Lymphoma and MM	OP04 Benign Hematology (Anemia, Thrombocytopenia)
13:40- 13:55		Bre	eak	
13:55- 14:40	Presidential Symposium			
	Evolution in Acute Leukemia Diagnosis and Its Place on Treatment— Lessons from T-ALL to AML (Elizabeth Macintyre, France)			

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
14:40- 16:10	MS01 MOU Country Session - Lymphoid Malignancy - [14:40-15:40]	SS07 Benign Hematology	ES04 Myeloproliferative Neoplasm	
	Outcome of Autologous Transplant in T-Cell Lymphoma: Experience of NIHBT in Vietnam (Nguyen Vu Bao Anh, Vietnam)	Novel Treatment for Immune Thrombocytopenia (ITP) (Cindy Neunert, USA)	The Role of Interferon in MPNs (Seug Yun Yoon, Korea)	
	Subcutaneous Panniculitis-like T-Cell Lymphoma (Udomsak Bunworasate, Thailand)	Recent Understandings of Congenital Neutropenia (Hyoung Soo Choi, Korea)	Allogeneic Hematopoietic Cell Transplantation for Treatment of Myelofibrosis Patients in JAK Inhibitor Era (Sung-Yong Kim, Korea)	
	Update of Extranodal NK/T-cell Lymphoma: Treatment and Biology (Seok Jin Kim, Korea)	Non-Factor Approach including Emicizumab (Keiji Nogami, Japan)	To Modify the Disease Course of MPNs (Sung-Eun Lee, Korea)	
16:10- 16:25	Break			

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
16:25- 17:55	JS05 EHA-KSH Joint Symposium 2 - Clinical-Translational - [16:25-18:05]	SS08 Supportive Care	SS09 Bone Marrow Failure Syndrome	
	Immunotherapy in AML: From alloSCT towards CAR-T Cell Therapy (Charles Craddock, UK)	Improving Palliative Care and Outcomes in Low- and Middle-Income Countries (Scott Howard, USA)	Challenges in the Diagnosis of Bone Marrow Failure Syndromes: The Role of Genetic Panels? (Ghulam J Mufti, UK)	
	The Emerging Role of MRD in AML (Gert Ossenkoppele, The Netherlands)	Renal Supportive Care and Palliative Care in Patients with Hematologic Diseases (Chung Hee Baek, Korea)	Clonal Hematopoesis in Bone Marrow Failure (Austin G Kulasekararaj, UK)	
	Therapeutic Potential of ATO to Overcome Resistance of Bcl-2 Inhibitor in AML (Ji Eun Jang, Korea)	Vaccinations before/after Biologic Agents in Patients with Hematologic Malignancies (Wan Beom Park, Korea)	Current Guidelines for the Treatment of Acquired Aplastic Anemia in Japan: An Immune Marker- Based Approach (Shinji Nakao, Japan)	
	MRD in AML (Byung Sik Cho, Korea)			

Time	ROOM 1	ROOM 2	ROOM 3
07:30- 08:30	Business Meeting		
08:30- 09:00	Working Party Reports		
09:00- 10:30	SS10 Immunotherapy/ Transplantation	SS11 Pediatric Disease	SS12 T-Cell Lymphoma/HD
	CD8 ⁺ TILs Differentiate into TEMRA via a Bifurcated Trajectory, Deciphering Immunogenicity of Tumor Antigen (Jae-Ho Cho, Korea)	Juvenile Myelomonocytic Leukemia: Learning from Children in a World without Walls (Mignon Loh, USA)	PD1/PDL1 in ENKTL (Won Seog Kim, Korea)
	Immunosenescence in Pediatric Patients with Haploidentical HSCT from Parental Donors (Won-Woo Lee, Korea)	Sirolimus Therapy for Vascular Anomaly (Keon Hee Yoo, Korea)	Novel Therapies for T-cell Lymphoma (Francine Foss, USA)
	CAR-T Cells for AML: Lessons from the Clinic (Saar Gill, USA)	Langerhans Cell Histiocytosis 2021: New Insights and Opportunities (Carl Allen, USA)	Translational Research in Angioimmunoblastic T-Cell Lymphoma: From Genome to Bedside (Sakata-Yanagimoto Mamiko, Japan)
10:30- 11:15	PL03 Genomics in Hematologic Malignancies		
	Latest Treatment Developments in Multiple Myeloma (Nikhil Munshi, USA)		
11:15- 11:30		Break	

Time	ROOM 1	ROOM 2	ROOM 3
11:30- 12:10	[Satellite] SY08 NOVARTIS	[Satellite] SY09 SYOWA KIRIN	[Satellite] SY10 Takeda
	Updated ASH ITP Guidelines and Their Implications on Clinical Practice (Waleed Ghanima, Norway)	The Role of Myeloid Growth Factors (MGFs) in Patients with Lymphoma: Benefits, Risks, & Unmet issues (Yong Park, Korea)	Real-World Outcomes and Factors Impacting Treatment Choice in Relapsed/Refractory Multiple Myeloma: Special Focus on Ixazomib-Rd (Ji Hyun Lee, Korea)
12:10- 12:55	Award Ceremony & Closing		

VIRTUAL CONFERENCE INFORMATION

VIRTUAL CONFERENCE WEBSITE

http://virtual.icksh.org

REGISTRATION

Please log in using the ID and PW you used to pre-register on the ICKSH 2021 website. If you missed pre-registration, you may also conveniently register on-site.

- » On-Site Registration Days April 1-3, 2021
- » On-Site Registration Fees
- Overseas

Category	On-Site Registration Fees
General	USD 50
Resident / Trainee / Nurse / Student	USD 25

- Domestic

Category	On-Site Registration Fees	Note
KSH Member	KRW 50,000	Free for KSH members 65 years or above
Fellow / Nurse / Researcher	KRW 30,000	-
Student / Resident	KRW 20,000	-
Non-Member	KRW 150,000	-

^{*} Please note that simultaneous, duplicate logins with the same ID will not be possible.

SESSION STREAMING

All presentation files will be received in advance and streamed at a designated time (Korea standard time). After the pre-recorded files have been streamed, speakers and chairs will have real-time Q&A.

Participants can watch VOD lectures for free for one month after the conference. VOD lectures are limited to lectures with consent for distribution.

SATELLITE SYMPOSIA

Come and learn the latest information and knowledge!

This is an event in which e-coupons will be awarded to those who complete viewing at least 30 minutes of the satellite symposium hosted by each of our sponsors over the three-day period! Don't miss this great opportunity!

DATE	ROOM 1	ROOM 2	ROOM 3	ROOM 4
APRIL 1, 2021 (11:30 - 12:10)	astellas	SANOFI GENZYME 🧳	Celgene t ^{lll} Bristol Myers Squibb" Company	
APRIL 2, 2021 (11:30 - 12:10)	HANJOOK	Roche	AMGEN°	Janssen Parameter content to Januar Splane
APRIL 3, 2021 (11:30 - 12:10)	b novartis	G yowa Kirin	Takeda	

VIRTUAL CONFERENCE INFORMATION

E-POSTERS

All participants can view the E-Posters in the E-Poster section of the ICKSH2021 virtual conference website. Participants will have an opportunity to win the Lucky Draw after viewing more than 100 of the presented posters.

VIRTUAL EXHIBITION HALL

Meet our sponsors virtually. If you visit more than 12 booths, gold level or higher, gifts will be given.

ICKSH 2021 SECRETARIAT OFFICE

- Onsite: T. +82+2-2193-1052 (Registration)

T. +82+2-2193-1053 (Secretariat)

E. icksh@icksh.org

- Post Conference: 1F, Haeoreum Bldg., 16 Yeoksam-ro 17-gil, Gangnam-gu, Seoul, 06426, Korea

T. +82-2-566-6031 F. +82-2-566-6087 E. icksh@icksh.org

VIRTUAL CONFERENCE INFORMATION

CME CREDIT INFORMATION (DOMESTIC PARTICIPANTS ONLY)

For online education, annual evaluation will be allowed for a limited time until June 30, 2021. Please mark your attendance record by pressing the enter/exit button for each session.

1) CME Credit Rating: By the Korean Medical Association

Category	April 1 st	April 2 nd	April 3 rd	Remarks	
KMA CME Credit	6	6	3	-	
KAIM CME Credit		2		During the conference period	

- 2) Confirming Attendance: Only attendance times that include the enter/exit time for each session will be counted. (It is necessary to mark attendance every day to receive Daily CME credits.)
- 3) Method: After entering and exiting the session, please click the "Enter" and "Exit" buttons to record your attendance time. The entry/exit records for each session are required for the credit to be recognized.
 - * Attendance confirmation is not possible when exiting from the browser (PC internet window) [Close].
 - * When moving between rooms, you must click the "Exit" button, and click the "Enter" button in the new room.
- 4) Grade recognition criteria for online training attendance confirmation

Credits accrued per hour of atte	endance per day
Residence time	Recognition of Credit
From 1 hour or more to less than 2 hours	1 credit
From 2 hours or more to less than 3 hours	2 credit
From 3 hours or more to less than 4 hours	3 credit
From 4 hours or more to less than 5 hours	4 credit
From 5 hours or more to less than 6 hours	5 credit
From 6 hours or more	6 credit

- ** It is not possible to claim credits after omission, so please be aware of the contents in advance.
- ** Real-time attendance records can be checked on the Virtual Conference site during the conference period, but the final score cannot be confirmed because breaks and other times are included.

EVENTS

We have exciting events for participants. Participants who complete the mission will win a prize! Feeling Lucky? Go Register Now!

ICKSH POINTS

Earn points and win prizes! Gifts will be given when you reach 300P per day (200P on Saturday)! You can check your accumulated points on My Page of the virtual conference homepage.

Action	Points
Enter the Platform (Log in)	100P/day
Submit the Congress Survey	50P
Attend an Oral Session	100P
Attend a Session (Except Satellite, Oral)	50P/session
Attend the Closing Ceremony	50P
Ask a question through the Q&A window (When chosen)	10P/each

PRIZES

Daily Gifts

Domestic



APRIL 2nd



Headset

APRIL 3rd



Vitamin C

*Those who obtain points on all 3 days can change the prize to a hand cream set or webcam. Contact the secretariat and we will be glad to help you exchange your prize.

Overseas

USD 20 DISCOUNT COUPON OFF ICKSH 2022 REGISTRATION FEES



* Coupons will be issued every day for 3 days as points are accumulated. Coupon use is limited to ICKSH 2022 and is neither refundable nor transferable.

EVENTS

EARLY BIRD PARTICIPANTS

Attend the first session and get an e-Gift card!

- · Event Period: April 1st to 3rd, 09:00~10:30 (KST)
- Daily Event: It is required to watch at least 30 minutes of the lecture.

PRIZES



For Korean participants and those living in Korea, KRW 10,000 Starbucks eGift cards will be given for the prize.



For others, USD 10 Amazon eGift cards will be given for the prize.

E-POSTER LUCKY DRAW

View more than 100 of the e-Posters and get the chance to be a winner!

• Event Period: April 1st to 3rd (KST)

Eligibility to win the Lucky Draw is awarded after viewing more than 100 e-Posters. The Lucky Draw will take place at the Closing Ceremony (April 3rd, 12:10~12:55, KST).

PRIZES



For Korean participants and those living in Korea, the following gifts will be given for prizes.



For others, an Amazon eGift card in the amount of the product will be provided.

#ICKSH 2021

Upload your Instagram with the #ICKSH2021 hashtag and get one e-Coupon!

• Event Period: Until April 3rd 23:59(KST)

To receive the prize, please take a screenshot of your post and send it to the Secretariat by e-mail: icksh@icksh.org

PRIZES



For Korean participants and those living in Korea, KRW 10,000 Starbucks eGift cards will be given for the prize.



For others, USD 10 Amazon eGift cards will be given for the prize.

EVENTS

E-BOOTH STAMP TOUR

If you visit more than 12 booths, gold level or higher, gifts will be given.

• Event Period: April 1st to 3rd (KST)

Diamond and Platinum booths are all required. The data from each booth must be downloaded. (New data must be downloaded daily.)

PRIZES



ATTEND SATELLITE SYMPOSIA

Attend the Satellite Symposia and get an e-Gift card!

- Event Period: April 1st to 3rd, 11:30~12:10 (KST)
- Daily Event: It is required to watch at least 30 minutes of the lecture.

PRIZES



For Korean participants and those living in Korea, KRW 10,000 Shinsegae Department Store Gift Certificates will be given for the prize.



For others, USD 10 Amazon eGift cards will be given for the prize.

SPONSORS (Acknowledgements)



























SPONSORS (Acknowledgements)



































KEY SPEAKERS

APRIL 1 (Thursday)



[PL01] Plenary Lecture 01

10:30 - 11:15 | Room

Clonal Hematopoiesis and the Origins of Hematologic Malignancies

Benjamin Ebert

APRIL 2 (Friday)



[PL02] Plenary Lecture 02

10:30-11:15 | Room 1

Genetic Landscape of Lymphoma and Novel Treatment Approaches

Wyndham Hopkins Wilson National Cancer Institute. USA



[PS01] Presidential Symposium

13:55-14:40 | Room 1

Evolution in Acute Leukemia Diagnosis and Its Place on Treatment– Lessons from T-ALL to AML

Elizabeth Macintyr

The Hônital Necker-Enfants Malades France

APRIL 3 (Saturday)



[PL03] Plenary Lecture 03

10:30-11:15 | Room 1

Latest Treatment Developments in Multiple Myeloma

Nikhil Munshi

Dana-Farber Cancer Institute LISA

DAILY PROGRAM

08:50-09:00	Opening Remark	
09:00-10:30	[SS01] Acute Lymphoblastic Leukemia	Room 1
Chairs	Hyoung Soo Choi (Seoul National University College of Medicine, Korea) Young Rok Do (Keimyung University School of Medicine, Korea)	
SS01-1	Contemporary treatment of pediatric Ph+ ALL Kirk Schultz (Pediatrics University of British Columbia, Canada)	
SS01-2	Current treatment approaches to newly diagnosed adult ALL Daniel Joseph DeAngelo (Dana Farber Cancer Institute, USA)	
SS01-3	Results of high risk and novel subtypes of pediatric ALL in Japan Katsuyoshi Koh (Saitama Children's Medical Center, Japan)	
09:00-10:30	[SS02] B-Cell Lymphoma	Room 2
Chairs	Hyeon-Seok Eom (National Cancer Center, Korea) Ho-Jin Shin (Pusan National University School of Medicine, Korea)	
SS02-1	Diffuse large B cell lymphoma: At the intersection of genetics and epigenetics Laura Pasqualucci (Columbia University, USA)	
SS02-2	Immunotherapy for Hodgkin lymphoma John Kuruvilla (University of Toronto, Canada)	
SS02-3	Optimal treatment of high-risk aggressive B-cell lymphoma Lorenz Trümper (Georg August University of Gottingen, Germany)	
09:00-10:30	[ES01] Myelodysplastic Syndrome	Room 3
Chairs	Yoon Hwan Chang (Seoul National University College of Medicine, Korea) Yoo-Jin Kim (College of Medicine, The Catholic University of Korea, Korea)	
ES01-1	Myelodysplastic syndrome and overlap syndrome Yoon Hwan Chang (Seoul National University College of Medicine, Korea)	
ES01-2	MDS with genetic predisposition Meerim Park (National Cancer Center, Korea)	
ES01-3	Diagnosis and treatment of chronic myelomonocytic leukemia Jihyun Kwon (Chungbuk National University College of Medicine, Korea)	
10:30-11:15	[PL01] Cutting Edge of Emerging Therapies	Room 1
Chair	Je-Hwan Lee (University of Ulsan College of Medicine, Korea)	
	Clonal hematopoiesis and the origins of hematologic malignancies	

APRIL 1(Thu) – 3(Sat), 2021 | VIRTUAL

11:15-11:30	Break		
11:30-12:10 Chair	[SY01] Astellas June-Won Cheong (Yonsei University College of Medicine, Korea) New treatment options for FLT3 mutated AML Alexander Edward Perl (University of Pennsylvania, USA)	astellas	Room 1
11:30-12:10 Chair	[SY02] Sanofi-Aventis Soon Ki Kim (Inha University Hospital, Korea) Latest treatment for hemophilia A and B in Japan	SANOFI GENZYME 🗳	Room 2
11:30-12:10 Chair	Keiji Nogami (Nara Medical University, Japan) [SY03] BMS-Celgene Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)	Celgene t ^{Ill} i Bristol Myers Squibb [*] Company	Room 3
12:10-12:55	Optimal treatment with IMiDs in newly diagnosed multiple myeloma Pieter Sonneveld (Erasmus MC Cancer Institute, The Netherlands) E-poster Exhibition		
12:55-13:55 Chairs	[ASO1] Recent Therapeutic Approaches in CML Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea) Hawk Kim (Gachon University College of Medicine, Korea)		Room 1
AS01-1	From Korean perspective Young Rok Do (Keimyung University School of Medicine, Korea)		
AS01-2	Impact of socio-demographic co-variates on disease prognosis, TKI use a Qian Jiang (Peking University People's Hospital, China)	nd outcomes on patients with CML	
AS01-3	From Japanese perspective Shinya Kimura (Saga University, Japan)		

12:55-14:25	[JS01] KAI-KSH Joint Symposium	Room 2
Chairs	Eui-Cheol Shin (Korea Advanced Institute of Science and Technology (KAIST), Korea) Duck Cho (Sungkyunkwan University School of Medicine, Korea)	
JS01-1	Regulating regulatory T cells for enhancement of cancer immunotherapy Sang-Jun Ha (Yonsei University, Korea)	
JS01-2	IL-17-producing cells in tumor Yeon Seok Chung (Seoul National University, Korea)	
JS01-3	Pro-inflammatory cytokines in Graft-Versus-Host Disease (GVHD) Young-Woo Jeon (College of Medicine, The Catholic University of Korea, Korea)	
JS01-4	Harnessing adaptive natural killer cells for immunotherapy in multiple myeloma Hyunsoo Cho (Yonsei University College of Medicine, Korea)	
12:55-14:25	[SS03] Advances in Technology	Room 3
Chairs	Seongsoo Jang (University of Ulsan College of Medicine, Korea) Jaewoo Song (Yonsei University College of Medicine, Korea)	
SS03-1	Mutational landscape in clonal hematopoiesis of indeterminate potential Elli Papaemmanuil (Memorial Sloan Kettering Cancer Center, USA)	
SS03-2	Intelligent image-activated cell sorting: Principles and application to hematology Akihiro Isozaki (University of Tokyo, Japan)	
SS03-3	HARMONY: A big data for better outcomes project in hematological malignancies Jesús María Hernández Rivas (University of Salamanca, Spain)	
14:25-14:40	Break	
14:40-15:40	[AS02] Updates of Hematologic Disease in Asian Population	Room 1
Chairs	Hye Lim Jung (Sungkyunkwan University School of Medicine, Korea) Nack Gyun Chung (College of Medicine, The Catholic University of Korea, Korea)	
AS02-1	Management of TDT and NTDT thalassemia in Indonesia Tubagus Djumhana Atmakusuma (Cipto Mangunkusumo National Hospital, Indonesia)	
AS02-2	Hemophilia treatment in Singapore Tien Sim Leng (Singapore General Hospital, Singapore)	
AS02-3	Thalassemia treatment in Malaysia Jameela Sathar (Ampang Hospital, Malaysia)	

14:40-16:10	[JS02] KOGO-KSH Joint Symposium: Genomics for Precision Hematology	Room 2
Chairs	Sun Kim (Seoul National University, Korea) Keon Hee Yoo (Sungkyunkwan University School of Medicine, Korea)	
JS02-1	Single cell RNA sequencing reveals transcriptional programs associated with myeloma progression Hae-Ock Lee (The Catholic University of Korea, Korea)	
JS02-2	Multi-omics analysis and modeling of DNA methylation in cancer Sun Kim (Seoul National University, Korea)	
JS02-3	Clinical application of next-generation sequencing in acute myeloid leukemia Jae-Sook Ahn (Chonnam National University Medical School, Korea)	
JS02-4	Challenges in the introduction of next-generation sequencing for diagnostics of hematologic malignancies Seung-Tae Lee (Yonsei University College of Medicine, Korea)	
14:40-16:10	[SS04] Stem Cell: Biology and Therapeutic Target	Room 3
Chairs	Deog-Yeon Jo (Chungnam National University College of Medicine , Korea) Myung Geun Shin (Chonnam National University Medical School, Korea)	
SS04-1	Discovery of new regulators in stem cells and malignancies Dongjun Lee (Pusan National University School of Medicine, Korea)	
SS04-2	AMD1 is essentially required in leukemic stem cells Hyog Young Kwon (Soonchunhyang University, Korea)	
SS04-3	BCL-2 as a stem cell target in AML Daniel A. Pollyea (University of Colorado School of Medicine, USA)	
16:10-16:25	Break	
16:25-18:05	[JS03] EHA-KSH Joint Symposium 1: Basic	Room 1
Chairs	John Gribben (Barts Cancer Institute, UK) Je-Hwan Lee (University of Ulsan College of Medicine, Korea)	
JS03-1	Clonal evolution under IDH inhibitor therapy in AML Lynn Quek (King's College London, UK)	
JS03-2	Predicting drug sensitivity for personalized therapy of AML Kimmo Porkka (Helsinki University Hospital Comprehensive Cancer Center, Finland)	
JS03-3	TET loss-of-function in malignant hematopoiesis Myunggon Ko (Ulsan National Institute of Science and Technology (UNIST), Korea)	
JS03-4	Novel small molecule drug discovery to override NRAS-mutated AML Taebo Sim (Yonsei University College of Medicine, Korea)	

16:25-17:55	[SS05] Multiple Myeloma	Room 2
Chairs	Jin Seok Kim (Yonsei University College of Medicine, Korea) Myungshin Kim (College of Medicine, The Catholic University of Korea, Korea)	
SS05-1	Novel strategies to overcome relapsed/refractory multiple myeloma Suzanne Trudel (University of Toronto, Canada)	
SS05-2	MRD negativity - The foremost important goal of myeloma treatment? Bruno Paiva (University of Navarra, Spain)	
SS05-3	Light chain amyloidosis Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)	
16:25-17:55	[ES02] Rare Hematologic Disorders	Room 3
Chairs	Eun Sun Yoo (Ewha Womans University College of Medicine, Korea) Young Kyung Lee (Hallym University College of Medicine, Korea)	
ES02-1	Molecular diagnosis of thalassemia Jee-Soo Lee (Seoul National University College of Medicine, Korea)	
ES02-2	Current understanding and treatment strategies of Langerhans cell histiocytosis Kyung-Nam Koh (University of Ulsan College of Medicine, Korea)	
ES02-3	Pathogenesis and treatment overview on secondary hemophagocytic lymphohistiocytosis Yu Ri Kim (Yonsei University College of Medicine, Korea)	

09:00-10:30	[JS04] ASH-KSH Joint Symposium: ALL	Room 1
Chairs	Alison Loren (Raymond and Ruth Perelman School of Medicine University of Pennsylvania, USA) Hyoung Jin Kang (Seoul National University College of Medicine, Korea)	
JS04-1	Epigenetic control in T-ALL Marjorie Brand (Ottawa Hospital Research Institute, Canada)	
JS04-2	CART cells for leukemia: What is next? Renier J Brentjens (Memorial Sloan Kettering Cancer Center, USA)	
JS04-3	Current concepts in the management of relapsed/refractory ALL in Korea Joon-ho Moon (Kyungpook National University School of Medicine, Korea)	
JS04-4	Pediatric acute lymphoblastic leukemia in Korea Hyoung Jin Kang (Seoul National University College of Medicine, Korea)	
09:00-10:30	[SS06] Thrombotic Issues in Hematology	Room 2
Chairs	Sung-Hyun Kim (Dong-A University College of Medicine, Korea) Sung Hwa Bae (Daegu Catholic University School of Medicine, Korea)	
SS06-1	Direct oral anticoagulants for the treatment of VTE in cancer patients Marc Carrier (University of Ottawa, Canada)	
SS06-2	Immune mediated TTP (iTTP): Differential diagnosis, treatment, and follow up Spero Cataland (Ohio State University, USA)	
SS06-3	Post-transplant thrombotic microangiopathy Vahid Afshar-Kharghan (The University of Texas MD Anderson Cancer Center, USA)	
09:00-10:30	[ES03] Lymphoma: Novel Diagnosis and Management of B-cell Lymphoma	Room 3
Chairs	Yeung-Chul Mun (Ewha Womans University School of Medicine, Korea) Won Sik Lee (Inje University College of Medicine, Korea)	
ES03-1	B-cell lymphoma's new genomics Youngil Koh (Seoul National University College of Medicine, Korea)	
ES03-2	Immuno-oncology for B-cell lymphomas Yoon Seok Choi (Ajou University School of Medicine, Korea)	
ES03-3	Novel combination immunochemotherapy beyond CD20 for B-cell lymphoma Jun Ho Yi (Chung-Ang University College of Medicine, Korea)	
10:30-11:15	[PL02] Clinical Hematology Lecture	Room 1
Chair	Sung-Soo Yoon (Seoul National University College of Medicine, Korea)	
	Genetic landscape of lymphoma and novel treatment approaches Wyndham Hopkins Wilson (National Cancer Institute, USA)	

11:15-11:30 Break

Chair

11:30-12:10 **[SY04] Handok**

Jong Wook Lee (College of Medicine, The Catholic University of Korea, Korea)

Ravulizumab: Next generation of C5 inhibitor for standard care of PNH

Jin Seok Kim (Yonsei University College of Medicine, Korea)

11:30-12:10 **[SY05] Roche**

Chair Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)

Treatment of relapsed/refractory DLBCL: Role of polatuzumab vedotin

Laurie Sehn (BC Cancer Centre for Lymphoid Cancer, Canada)

11:30-12:10 **[SY06] Amgen**

Chair Chang-Ki Min (College of Medicine, The Catholic University of Korea, Korea)

Treatment strategies in relapsed multiple myeloma: A focus on sequential treatment for survival benefit

Joseph Mikhael (Translational Genomics Research Institute (TGen), USA)

11:30-12:10 **[SY07] Janssen**

Chair Deok Hwan Yang (Chonnam National University Medical School, Korea)

First-line treatment of CLL in 2021

Philip A. Thompson (The University of Texas MD Anderson Cancer Center, USA)

12:10-12:40 **E-poster Exhibition**

HANJDOK

Room 1

Roche

Room 2

AMGEN"

Room 3

Janssen)

Room 4

12:40-13:40	[OP01] Acute Leukemia	า 1
Chairs	Byung-Soo Kim (Korea University College of Medicine, Korea) Jae Wook Lee (College of Medicine, The Catholic University of Korea, Korea)	
OP01-1	Physical and psychological impairments as practical frailty markers and/or survival predictors in elderly AML fit fo intensive chemotherapy Gi June Min (Seoul St. Mary's Hospital, Korea)	r
OP01-2	Allogeneic hematopoietic stem cell transplantation can overcome the adverse prognosis of secondary-Type mutation positive acute myeloid leukemia Ga-Young Song (Chonnam National University Hwasun Hospital, Korea)	a-
OP01-3	Epigenetic analysis reveals MiR-128-2-5p and MiR-378c as possible novel biomarkers for detection of relapse B-ce acute lymphoblastic leukemia Prateek Bhatia (Postgraduate Institute of Medical Education & Research, India)	:II
OP01-4	Measurable residual disease assessment, T cell antigen stability and survival among immunophenotypic sub-cate gories of T-lineage acute lymphoblastic leukemia patients Karthik Bommannan (Cancer Institute (W.I.A.), India)	ž-
OP01-5	PTCy-based haploidentical vs matched unrelated donor transplantation using myeloablative targeted busulfan-based conditioning for pediatric acute leukemia Kyung Taek Hong (Seoul National University College of Medicine, Korea)	
12:40-13:40	[OP02] Laboratory Hematology	า 2
12:40-13:40 Chairs	[OP02] Laboratory Hematology Hyun Kyung Kim (Seoul National University College of Medicine, Korea) Young-Uk Cho (University of Ulsan College of Medicine, Korea)	n 2
	Hyun Kyung Kim (Seoul National University College of Medicine, Korea)	
Chairs	Hyun Kyung Kim (Seoul National University College of Medicine, Korea) Young-Uk Cho (University of Ulsan College of Medicine, Korea) Similar survival and genetic features between clonal cytopenia of undetermined significance and lower-risk myel dysplastic syndrome	0-
Chairs OP02-1	Hyun Kyung Kim (Seoul National University College of Medicine, Korea) Young-Uk Cho (University of Ulsan College of Medicine, Korea) Similar survival and genetic features between clonal cytopenia of undetermined significance and lower-risk myel dysplastic syndrome Eun-Ji Choi (University of Ulsan College of Medicine, Korea) Clinical performance evaluation of an optical mapping technique for detection of structural variation in hematologic malignancies	lo-
OP02-1 OP02-2	Hyun Kyung Kim (Seoul National University College of Medicine, Korea) Young-Uk Cho (University of Ulsan College of Medicine, Korea) Similar survival and genetic features between clonal cytopenia of undetermined significance and lower-risk myel dysplastic syndrome Eun-Ji Choi (University of Ulsan College of Medicine, Korea) Clinical performance evaluation of an optical mapping technique for detection of structural variation in hematologic malignancies Yeeun Shim (Yonsei University College of Medicine, Korea) Single cell analysis and cytoplasmic-Ig FISH on double primary acute myeloid leukemia and plasma cell myeloma	lo-

12:40-13:40	[OP03] Lymphoma and MM	Room 3	
Chairs	Cheolwon Suh (University of Ulsan College of Medicine, Korea) Ho-Young Yhim (Jeonbuk National University Medical School, Korea)		
0P03-1	Genetic profile of primary plasma cell leukemia in Korea: Comparison with plasma cell myeloma Young Eun Lee (Seoul National University College of Medicine, Korea)		
0P03-2	CARTITUDE-1: Phase 1b/2 study of ciltacabtagene autoleucel in relapsed/refractory multiple myeloma Deepu Madduri (Mount Sinai Medical Center, USA)		
OP03-3	Expanded natural killer cells augment anti-myeloma effects of daratumumab, bortezomib, and dexamethasone in a human multiple myeloma xenograft model Jaya Lakshmi (Chonnam National University, Korea)		
OP03-4	Impact of primary prophylaxis with pegfilgrastim for febrile neutropenia receiving rituximab plus fludarabine and cyclophosphamide treatment in patients with chronic lymphocytic leukemia: A multicenter, prospective study Youngwoo Jeon (College of Medicine, The Catholic University of Korea, Korea)		
OP03-5	Mosunetuzumab shows promising efficacy in patients with multiply relapsed follicular lymphoma: Updated clinical experience from a phase I dose-escalation trial Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)		
12:40-13:40	[OP04] Benign Hematology (Anemia, Thrombocytopenia)	Room 4	
Chairs	Chul Won Choi (Korea University Guro Hospital, Korea) Dong-Yeop Shin (Seoul National University College of Medicine, Korea)		
OP04-2	Iptacopan effectively controls intra- and extravascular hemolysis and leads to durable hemolysis and leads to durable hemolysis with treatment-naive PNH Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)	oglobin increase in	
OP04-3	Developmental megakaryocytopoiesis: A study on novel role of clinically significant MicroRNA in understanding neonatal thrombocytopenia Ravi Kumar Gutti (University of Hyderabad, Telangana, India)		
OP04-4	Deficiency of immature B-cell tolerance by V(D)J rearrangement causes aberrant accumulat immune thrombocytopenia Zi Sheng (Qilu Hospital, Shandong University, China)	ion of autoantibodies in	
OP04-5	Hematopoietic cell transplantation in patients with non-malignant disease Sung Han Kang (University of Ulsan College of Medicine, Korea)		
13:40-13:55	Break		
13:55-14:40	[PS01] Presidential Symposium	Room 1	
Chair	Kyung-Ha Ryu (Ewha Womans University School of Medicine, Korea)		
	Evolution in acute leukemia diagnosis and its place on treatment – Lessons from T-ALL to AN	ΛL	

Elizabeth Macintyre (The Hôpital Necker-Enfants Malades, France)

14:40-15:40	[MS01] MOU Country Session: Lymphoid Malignancy	Room 1
Chairs	Jae-Yong Kwak (Jeonbuk National University Medical School, Korea) Ki-Seong Eom (College of Medicine, The Catholic University of Korea, Korea)	
MS01-1	Outcome of autologous transplant in T-cell lymphoma: Experience of NIHBT in Vietnam Nguyen Vu Bao Anh (Hanoi Medical University, Vietnam)	
MS01-2	Subcutaneous panniculitis-like T-cell lymphoma Udomsak Bunworasate (King Chulalongkorn Memorial Hospital, Thailand)	
MS01-3	Update of extranodal NK/T-cell lymphoma: Treatment and biology Seok Jin Kim (Sungkyunkwan University School of Medicine, Korea)	
14:40-16:10	[SS07] Benign Hematology	Room 2
Chairs	Chuhl Joo Lyu (Yonsei University College of Medicine, Korea) Soo-Mee Bang (Seoul National University College of Medicine, Korea)	
SS07-1	Novel treatment for immune thrombocytopenia (ITP) Cindy Neunert (Columbia University Medical Center, USA)	
SS07-2	Recent understandings of congenital neutropenia Hyoung Soo Choi (Seoul National University College of Medicine, Korea)	
SS07-3	Non-factor approach including emicizumab Keiji Nogami (Nara Medical University, Japan)	
14:40-16:10	[ES04] Myeloproliferative Neoplasm	Room 3
Chairs	Chul Won Jung (Sungkyunkwan University School of Medicine, Korea) Hyo Jung Kim (Hallym University College of Medicine, Korea)	
ES04-1	The role of interferon in MPNs Seug Yun Yoon (Soonchunhyang University College of Medicine, Korea)	
ES04-2	Allogeneic hematopoietic cell transplantation for treatment of myelofibrosis patients in JAK inhibitor era Sung-Yong Kim (Konkuk University School of Medicine, Korea)	
ES04-3	To modify the disease course of MPNs Sung-Eun Lee (College of Medicine, The Catholic University of Korea, Korea)	
16:10-16:25	Break	

16:25-18:05	[JS05] EHA-KSH Joint Symposium 2: Clinical-Translational	Room 1	
Chairs	Elizabeth Macintyre (The Hôpital Necker-Enfants Malades, France) Hee-Je Kim (College of Medicine, The Catholic University of Korea, Korea)		
JS05-1	Immunotherapy in AML: From alloSCT towards CAR-T cell therapy Charles Craddock (University of Birmingham, UK)		
JS05-2	The emerging role of MRD in AML Gert Ossenkoppele (Amsterdam University Medical Center, The Netherlands)		
JS05-3	Therapeutic potential of ATO to overcome resistance of Bcl-2 inhibitor in AML Ji Eun Jang (Yonsei University College of Medicine, Korea)		
JS05-4	MRD in AML Byung Sik Cho (College of Medicine, The Catholic University of Korea, Korea)		
16:25-17:55	[SS08] Supportive Care	Room 2	
Chairs	Seong Kyu Park (Soonchunhyang University Bucheon Hospital, Korea) Inho Kim (Seoul National University Hospital, Korea)		
SS08-1	Improving palliative care and outcomes in low- and middle-income countries Scott Howard (University of Tennessee Health Science Center, USA)		
SS08-2	Renal supportive care and palliative care in patients with hematologic diseases Chung Hee Baek (University of Ulsan College of Medicine, Korea)		
SS08-3	Vaccinations before/after biologic agents in patients with hematologic malignancies Wan Beom Park (Seoul National University College of Medicine, Korea)		
16:25-17:55	[SS09] Bone Marrow Failure Syndrome	Room 3	
Chairs	Jin-Yeong Han (Dong-A University College of Medicine, Korea) Hoon Kook (Chonnam National University Medical School, Korea)		
SS09-1	Challenges in the diagnosis of bone marrow failure syndromes: The role of genetic panels? Ghulam J Mufti (King's College Hospital, UK)		
SS09-2	Clonal hematopoesis in bone marrow failure Austin G Kulasekararaj (King's College Hospital, UK)		
SS09-3	Current guidelines for the treatment of acquired aplastic anemia in Japan: An immune marker-based approach Shinji Nakao (Kanazawa University, Japan)		

DAILY PROGRAM Saturday April 3

07:30-08:30	Business Meeting	Room 1
08:30-09:00	Working Party Reports	Room 1
09:00-10:30	[SS10] Immunotherapy/Transplantation	Room 1
Chairs	Jong Ho Won (Soonchunhyang University College of Medicine, Korea) Ho Joon Im (University of Ulsan College of Medicine, Korea)	
SS10-1	CD8 ⁺ TILs differentiate into TEMRA via a bifurcated trajectory, deciphering immunogenicity of tumor antiged Jae-Ho Cho (Chonnam National University Medical School, Korea)	en
SS10-2	Immunosenescence in pediatric patients with haploidentical HSCT from parental donors Won-Woo Lee (Seoul National University College of Medicine, Korea)	
SS10-3	CAR-T cells for AML: Lessons from the clinic Saar Gill (University of Pennsylvania, USA)	
09:00-10:30	[SS11] Pediatric Disease	Room 2
Chairs	Young-Ho Lee (Hanyang University College of Medicine, Korea) Jun Eun Park (Korea University Anam Hospital, Korea)	
SS11-1	Juvenile myelomonocytic leukemia: Learning from children in a world without walls Mignon Loh (University of California, Benioff Children's Hospital, USA)	
SS11-2	Sirolimus therapy for vascular anomaly Keon Hee Yoo (Sungkyunkwan University School of Medicine, Korea)	
SS11-3	Langerhans cell histiocytosis 2021: New insights and opportunities Carl Allen (Baylor College of Medicine, USA)	
09:00-10:30	[SS12] T-Cell Lymphoma/HD	Room 3
Chairs	Seok-Goo Cho (College of Medicine, The Catholic University of Korea, Korea) Sukjoong Oh (Sungkyunkwan University School of Medicine, Korea)	
SS12-1	PD1/PDL1 in ENKTL Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)	
SS12-2	Novel therapies for T-cell lymphoma Francine Foss (Yale University School of Medicine, USA)	
SS12-3	Translational research in angioimmunoblastic T-cell lymphoma: From genome to bedside Sakata-Yanagimoto Mamiko (University of Tsukuba, Japan)	

DAILY PROGRAM Saturday April 3

10:30-11:15 [PL03] Genomics in Hematologic Malignancies

Room 1

Chair Jae Hoon Lee (Division of Hematology, Gachon University Gil Medical Center, Korea)

Latest treatment developments in multiple myeloma

Nikhil Munshi (Dana-Farber Cancer Institute, USA)

11:15-11:30 Break

11:30-12:10 **[SY08] Novartis**



Room 1

Chair Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)

Updated ASH ITP guidelines and their implications on clinical practice

Waleed Ghanima (Østfold Hospital, University of Oslo, Norway)

11:30-12:10 **[SY09] Kyowa Kirin**



Room 2

Chair Seok Jin Kim (Sungkyunkwan University School of Medicine, Korea)

The role of Myeloid Growth Factors (MGFs) in patients with lymphoma: Benefits, risks, & unmet issues

Yong Park (Korea University College of Medicine, Korea)

11:30-12:10 **[SY10] Takeda**



Room 3

Chair Je-Jung Lee (Chonnam National University Medical School, Korea)

Real-world outcomes and factors impacting treatment choice in relapsed/refractory multiple myeloma: Special focus on Ixazomib-Rd

Ji Hyun Lee (Dong-A University College of Medicine, Korea)

12:10-12:55 Award Ceremony & Closing

Room 1

BP01 Outcomes in gilteritinib-treated patients with FLT3-mutated relapsed or refractory acute myeloid leukemia who underwent transplantation

Yoshinobu Maeda^{1*}, Naoko Hosono², Hisayuki Yokoyama³, Masahiro Onozawa⁴, Shigeru Chiba⁵, Yoshinobu Kanda⁶, Alexander E Perl⁷, Nahla Hasabou⁸, Qiaoyang Lu⁸, Ramon Tiu⁸, Mikiko Kusano⁹ and Ja Min Byun¹⁰

¹ Department of Hematology and Oncology, Okayama University Hospital, Okoyama, Japan

²Department of Transfusion Medicine, University of Fukui, Fukui, Japan

³ Department of Hematology and Rheumatology, Tohoku University Graduate School of Medicine, Sendai, Japan

⁴Department of Hematology, Hokkaido University, Hokkaido, Japan

⁵Department of Hematology, University of Tsukuba, Tsukuba, Japan

⁶ Division of Hematology, Jichi Medical University Saitama Medical Center, Saitama, Japan

⁷ Division of Hematology/Oncology, Abramson Cancer Center, University of Pennsylvania, Philadelphia, PA, USA

⁸ Department of Oncology, Astellas Pharma, Inc., Northbrook, IL, USA

Department of Oncology, Astellas Pharma, Inc., Tokyo, Japan

¹⁰Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Seoul, Korea

BP02 Transcriptional landscape profiling of cytogenetically normal acute myeloid leukaemia by high throughput deep sequencing technology

Angeli Ambayya 1.3*, Syed Carlo Edmund², Jameela Sathar¹, Sarina Sulong¹ and Rosline Hassan¹

¹Haematology Department, Hospital Ampang, Malaysia

²Department of Pathology, University of New Mexico, USA

³Haematology Department, Malaysia

BP03 Differential effects of donor lymphocyte infusion upon treatment response and GVHD according to relapse level and donor sources in patients with myelodysplastic syndrome

<u>Silvia Park</u>¹, Tong Yoon Kim¹, Jong Hyuk Lee¹, Joon yeop Lee¹, Gi June Min¹, Sung Soo Park¹, Seung-Ah Yahng², Young-Woo Jeon³, Seung-Hwan Shin⁴, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung Sik Cho¹, Ki-Seong Eom¹, Seok Lee 1, Hee-Je Kim¹, Chang-Ki Min¹, Seok-Goo Cho¹, Jong Wook Lee¹ and Yoo-Jin Kim^{1*}

 1 Department of Hematology, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea

²Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

³Department of Hematology, Yeoido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

⁴Department of Hematology, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

CXCR2 as a novel target for overcoming resistance to tyrosine kinase inhibitors in chronic myeloid leukemia cells

<u>Ji-Hea Kim</u>¹, Ka-Won Kang², Byung-Hyun Lee² and Byung Soo Kim²

Department of Biomedical Science, Korea University, Korea

²Department of Internal Medicine, Korea University, Korea

BP05 SIRT1 regulates SKP2-mediated P27 ubiquitination and degradation in NOTCH induced T-ALL

Fangce Wang¹, Zheng Li¹ and Aibin Liang²

¹Department of Hematology, Tongji Hospital, Tongji University School of Medicine, China

BP06 Development of novel anti-CD19 CAR T cells resistant to immune checkpoint for phase I/II study in patients with relapsed of refractory B cell lymphoma

Young-Ho Lee^{1,2}, Hyeong Ji Lee^{1,2}, Hyung Cheol Kim², Yujean Lee¹, Su Kyung Nam¹, Cedric Hupperetz¹, Jennifer SY Ma³, Xinxin Wang³, Oded Singer³, Won Seog Kim⁴, Seok Jin Kim⁴, Youngil Koh⁵, Inkyung Jung¹ and Chan Hyuk Kim^{1*}

¹Biological Sciences, Korea Advanced Institute of Science and Technology, Korea

²R&D Center, Curocell Inc, Korea

³California Institute for Biomedical Research, Scripps Research , USA

⁴Medicine, Samsung Medical Center, Korea

⁵Internal Medicine, Seoul National University Hospital, Korea

Comprehensive clinical and molecular features analysis of follicular peripheral T-cell lymphoma and nodal peripheral T-cell lymphoma with T follicular helper phenotype compared to angioimmunoblastic T cell lymphoma and peripheral T-cell lymphoma-

Sang Eun Yoon¹, Junhun Cho², Young Hyeh Ko², Yeon Jeong Kim³, Woong-Yang Park³, Seok Jin Kim1 and Won Seog Kim^{1*}

Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sung kyunkwan University School of Medicine, Seoul, Korea

²Department of Pathology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

³Samsung Genome Institute, Samsung Medical Center, Seoul, Korea

BP08 Immune checkpoint-related gene polymorphisms are associated with sensitivity and treatment response of primary immune thrombocytopenia

Shuwen Wang

Department of Hematology, Qilu Hospital, Cheeloo College of Medicine, Shandong University, China

BP09 TINF2 mutations are associated with poor outcome post hematopoietic stem cell transplantation for dyskeratosis congenita

Yeon Jung Lim¹², Yigal Dror^{2*}, Omri A Arbiv², Melanie E Kalbfleisch², Mohammed Al Nuaimi⁶, MacGregor Steele³, Geoff Cuvelier⁴, Tal Schechter-Finkelstein⁵, Bozana Zlateska² and Michaela Cada²

¹Pediatrics, College of Medicine, Chungnam national university, Korea

²Genome and the Genetics and Genome Biology Program, Research Institute, The Hospital for Sick Children, Canada

³Pediatrics, Alberta Children's Hospital, Calgary, Alberta, Canada

⁴Pediatrics, CancerCare Manitoba, Winnipeg, Manitoba, Canada

⁵Blood and Marrow Transplantation Section, Division of Haematology/Oncology, The Hospital for Sick Children, Toronto, Canada

⁶Pediatrics, The Hospital for Sick Children and the University of Toronto, Toronto, Ontario, Canada

BP10 Two-stage genome-wide association studies of hemoglobin concentration in Taiwan Han Chinese

Vanessa Joy Timoteo 1*, Kuang-Mao Chiang² and Wen-Harn Pan²

¹National Yang-Ming University and Institute of Biomedical Sciences-Academia Sinica, Taiwan International Graduate Program in Molecular Medicine, Rep of China (Taiwan)

²Academia Sinica, Institute of Biomedical Sciences, Rep of China (Taiwan)

PP01-01 Next generation sequencing (NGS)-based interpretation of FLT3/NPM1 mutations in adult patients with acute myeloid leukemia (AML) in a single institution

Tong Yoon Kim¹, Hee-Je Kim^{1,2*}, Jong Hyuk Lee¹, Joon yeop Lee¹, Gi June Min¹, Sung Soo Park¹, Silvia Park¹, Seung-Ah Yahng³, Young-Woo Jeon⁴, Seung-Hwan Shin⁵, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung Sik Cho^{1,2}, Ki-Seong Eom^{1,2}, Yoo-Jin Kim^{1,2}, Seok Lee^{1,2}, Chang-Ki Min^{1,2}, Seok-Goo Cho^{1,2} and Jong Wook Lee^{1,2}

¹Department of Hematology, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea

²Department of Hematology, Leukemia Résearch Institute, College of Medicine, The Catholic University of Koreá, Korea

Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Incheon, Korea

⁴Department of Hematology, Yeoido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

⁵Department of Hematology, Catholic Hematology Hospital, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

PP01-02 Impact of FLT3-ITD gene mutations in acute promyelocytic leukemia in Malaysia

Siew Lian Chong

Department of Hematology, Hospital Ampang, Selangor, Malaysia

PP01-03 Overexpression of prohibitn 2 mRNA and protein is associated with poor prognostic indicator in cytogenetically normal acute myeloid leukemia

Young Eun Lee¹, Ha Jin Lim², Ju Heon Park², Hye Ran Kim³, Min Gu Kang⁴ and Myung Geun Shin^{1,2*}

¹Department of Medical Laboratory Science, Gimhae College, Gimhae, Korea

²Brain Korea 21 Plus Program, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea

³College of Korean Medicine, DongShin University, Naju, Korea

⁴Department of Laboratory Medicine, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea

PP01-04 Frequency and characteristics of risk-stratified adult acute myeloid leukemia according to the NCCN guideline version 2.2021 revealing categorization uncertainty and candidate cases for germline testing

Young-Uk Cho^T, Hyunji Kim¹, Min-Sun Kim¹, Sang-Hyun Hwang^T, Seongsoo Jang^T, Chan-Jeoung Park^T, Eul-Ju Seo^T, Eun-Ji Choi^T, Je-Hwan Lee^T and Kyoo-Hyung Lee^T

¹Department of Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

²Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP01-05 Clinical efficacy of venetoclax combined chemotherapy for newly diagnosed and relapsed or refractory acute myeloid leukemia (AML): 1-year experience in catholic hematologic hospital

<u>Silvia Park</u>¹, Tong Yoon Kim¹, Jong Hyuk Lee¹, Joon yeop Lee¹, Gi June Min¹, Sung Soo Park¹, Seung-Ah Yahng², Young-Woo Jeon³, Seung-Hwan Shin⁴, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung Sik Cho¹, Ki-Seong Eom¹, Seok Lee¹, Chang-Ki Min¹, Seok-Goo Cho¹, Jong Wook Lee¹, Yoo-Jin Kim¹ and Hee-Je Kim^{1*}

Department of Hematology, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea

²Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

³Department of Hematology, Yeoido St. Mary's Hospital, College of Medicine, The Catholic University of Korea , Korea

⁴Department of Hematology, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea , Korea

PP01-06 Allelic burden of FLT3-ITD mutation matters in AML patients who received allogene hematopoietic stem cell transplantation

Cheol Kyung Sin¹, Sang Eun Yoon^{1*} and Chul Won Jung¹

¹Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, 81 Irwon-ro, Gangnam-gu, Seoul 06351, Korea

PP01-07 Clinical characteristics and prognostic impacts of mutations of RAS pathway-related genes in acute myeloid leukemia patients

Yusook Jeong^{3,4}, Hee Sue Park^{1,2}, Bo Ra Son^{1,2} and <u>Jihyun Kwon^{3,4*}</u>

Laboratory Medicine, Chungbuk National University College of Medicine, Korea

²Laboratory Medicine, Chungbuk National University Hospital, Korea

³Internal Medicine, Chungbuk National University College of Medicine, Korea

⁴Internal Medicine, Chungbuk National University Hospital, Korea

PP01-08 Treatment patterns and clinical outcomes in unfit AML patients receiving first-line systemic treatment or best supportive care: Korean sub-analysis

<u>Soo-Mee Bang</u>¹, Ka-Won Kang², Ik-Chan Song³, Alexander Delgado⁴, Maria Belen Guijarro Garbayo⁵, Cynthia Llamas⁶, Yinghui Duan⁶ and Je-Hwan Lee⁷

¹Division of Hematology and Medical Oncology, Department of Internal Medicine, Seoul National University, College of Medicine, Seoul National University Bundang Hospital, Korea

²Department of Internal Medicine, Korea University College of Medicine, Korea

³Division of Hematology and Oncology, Department of Internal Medicine, Chungnam National University School of Medicine, Korea

⁴AbbVie Singapore, Singapore

⁵AbbVie Spain, Spain

⁶Abbvie Inc., North Chicago, IL, USA

⁷Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP01-09 Effect of delayed treatment in acute myeloid leukemia patients: Treatment delay matters in younger patients

<u>Daehun Kwag</u>¹², Hee-Je Kim^{12*}, Byung-Sik Cho¹², Gi June Min¹², Sung-Soo Park¹², Silvia Park¹², Seung-Ah Yahng³, Young-Woo Jeon⁴, Seung-Hwan Shin⁵, Jae-Ho Yoon¹², Sung-Eun Lee¹², Ki-Seong Eom¹², Yoo-Jin Kim¹², Seok Lee¹², Chang-Ki Min¹², Seok-Goo Cho¹, Dong-Wook Kim^{1,2} and Jong Wook Lee

¹Department of Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

²Leukemia Research Institute, College of Medicine, The Catholic University of Korea, Seoul, Korea

 3 Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

⁴Department of Hematology, Yeouido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

⁵Department of Hematology, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

PP01-10 A prospective randomized comparison of high-dose cytarabine and high-dose daunorubicin in the induction chemotherapy for acute mveloid leukemia

Eun-Ji Choi¹, Jun-Hong Park¹, Han-Seung Park¹, Jung-Hee Lee¹, Kyoo-Hyung Lee¹, Young-Shin Lee¹, Young-Ah Kang¹, Mijin Jeon¹, Ji Min Woo¹, Hyeran Kang¹ and Je-Hwan Lee

¹Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP01-11 Quality-adjusted time without symptoms of disease and toxicity analysis of CPX-351 Vs 7+3 in older adults with newly diagnosed high-risk/secondary AML

Jorge E. Cortes², <u>Janet Pong</u>^{3*}, Robert J. Ryan¹, Stefan Faderl⁴ and Tara L. Lin⁵
¹Biostatistics, Jazz Pharmaceuticals, Philadelphia, PA, USA

²Georgia Cancer Center, Augusta University, Augusta, GA, USA

International and Partner Markets, Jazz Pharmaceuticals, Oxford, UK

⁴Clinical Development, Jazz Pharmaceuticals, Palo Alto, CA, USA

 5 Department of Hematologic Malignancies and Cellular Therapeutics, University of Kansas Medical Center, Kansas City, KS, USA

Children acute promyelocytic leukemia in the southern Vietnam: The 10 year experience

Truc Phan^{1*}, Nghia Huynh²³ and Yi Hyeon Gyu^{1,4}
¹Regenerative Medicine and Cellular Therapy, Vinmec Times City International Hospital, Viet Nam

²Hematology, University of Medicine and Pharmacy at Ho Chi Minh city, Viet Nam

³Pediatric Hematology, Blood Transfusion and Hematology Hospital, Viet Nam

⁴College of Health Science, Vin University, Viet Nam

PP01-13 Phospholipase C beta 2 protein overexpression is a favorable prognostic indicator in newly diagnosed normal karyotype acute myeloid leukemia

Mi Suk Park¹, Young Eun Lee², Hye Ran Kim³, Jong Hee Shin⁴, Hyun Wook Cho⁵, Jun Hyung Lee⁴ and Myung Geun Shin^{2,4*}

¹Department of Medical Laboratory Science, Gimhae College, Gimhae, Korea

²Brain Korea 21 Plus Program, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea

³College of Korean Medicine, DongShin University, Naju, Korea

⁴Department of Laboratory Medicine, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea

⁵Department of Biology, Sunchon National University, Sunchon, Koŕea

PP01-14 Real time PCR based quantitative evaluation of WT1 gene expression from diagnosis to end of induction in acute myeloid leukaemia

Pranay Tanwar^{1*}, Dimpy Gupta¹, Ekta Rahul¹, Amar Ranjan¹, Anita Chopra¹ and Sameer Bakhshi²

¹Laboratory Oncology, Dr. BRA-IRCH, All India Institute of Medical Sciences, New Delhi, India

²Medical Óncology, Dr. BRA-IRCH, All India Institute of Medical Sciences, New Delhi, India

PP01-15 Infectious complications of venetoclax-based chemotherapy in acute myeloid leukemia: Baseline for selecting proper antimicrobial prophylaxis

Raeseok Lee¹, Sung-Yeon Cho¹, Dong-Gun Lee^{1*}, Sang Woon Bae¹, Silvia Park², Byung Sik Cho², Yoo-Jin Kim² and Hee-Je Kim²

Division of Infectious Diseases, Department of Internal Medicine, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

²Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

PP01-16 The application of the updated 2016 WHO classification of AML in pediatric patient cohort: A single center study

Won Kee Ahn¹, Seungmin Hahn¹, John Hoon Rim², Jin Ju Kim², Saeam Shin², Seung-Tae Lee², Jong Rak Choi², Jung Woo Han¹ and Chuhl Joo Lyu¹

¹Department of Pediatrics, Yonsei Cancer Center, Yonsei University College of Medicine, Korea

²Department of Laboratory Medicine, Yonsei University College of Medicine, Korea

PPUI-I/	decitabine Hee Sue Park ^{1,2} , Bo Ra Son ^{1,2} , Seonggyu Byeon ^{3,4} and <u>Jihyun Kwon</u> ^{3,4*} ¹ Laboratory Medicine, Chungbuk National University College of Medicine, Korea ² Laboratory Medicine, Chungbuk National University Hospital, Korea ³ Internal Medicine, Chungbuk National University College of Medicine, Korea ⁴ Internal Medicine, Chungbuk National University Hospital, Korea ⁴ Internal Medicine, Chungbuk National University Hospital, Korea
PP01-18	Incidence of differentiation syndrome (DS) and other complications in acute promyelocytic leukaemia (APML) – A single centre retrospective observational study <u>Niket Mantri</u> , Anand Kumar ^{1*} , Poornima P ¹ , Mahesh Rajashekaraiah ¹ and Sunil Udgire ¹ *Hematology and Bone Marrow Transplant, Sparsh Hospital Banglore, India
PP01-19	Laboratory profile of acute myeloblastic leukemia promyelocytic type patients in Sardjito Hospital, Indonesia Adika Zhulhi Arjana¹, Usi Sukorini¹⁺, Tri Ratnaningsih¹ and Setyowati Setyowati¹ ¹Clinical Pathology and Laboratory Medicine, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia
PP01-20	Infection profile and outcomes of adult acute leukemia patients developing chemotherapy-associated febrile neutropenia Camille Ariadne Tanchanco ^{1*} , Monica Pia Reyes-Montecillo ¹ , Angelina Mirasol ¹ and Karl Evans Henson ¹ Internal Medicine, University of the Philippines - Philippine General Hospital, Philippines
PP01-21	Variantion and relationship of homo sapiens acute myeloid leukemia homo sapiens cDNA, mRNA sequence Ramlah Ramlah Biology, Universitas Gadjah Mada, Indonesia
PP01-22	Src family kinase inhibitor bosutinib and dasatinib enhances differentiation of acute promyelocytic leukemia cell line induced by combination of all-trans-retinoic acid Min-Young Lee ¹ , Hee-Jeong Cheong ² , Seug Yun Yoon ¹ , Kyoung-Ha Kim ¹ , Namsu Lee ¹ and Jong-Ho Won ^{1*} Department of Internal Medicine, Division of Hematology & Oncology, Soonchunhyang University College of Medicine, Korea ² Institute for Clinical Molecular Biology Research, Soonchunhyang University College of Medicine, Korea
PP01-23	Study of anti-leukemic activity of ethanolic extract of zingiber officinale in a leukemic rat model Rahul Kumar Zoology, J K College, India
PP01-26	Role of hydro-ethanol extract of citrullus colocynthis seed in benzene-induced toxicity of acute myeloid leukemia mice <u>Gireesh Dayma</u> SLS, Manipal University, India
PP01-27	Effect of madhuca longifolia on etoposide action in acute myeloid leukemia Minakshi Sarswati ^{1*} and Pooja Gupta ¹ Internal Medicine, Shakuntla Hospital and research center, India
PP01-28	Biological importance and therapeutic benefit of cirsimaritin against human leukemia cells: Medicinal importance through scientific data analysis <u>Dinesh Kumar Patel</u> and Kanika Patel Faculty of Health Sciences, Sam Higainbottom University of Agriculture, Technology and Sciences, Payagrai, India

PO1-30 Potency of MicroRNA (miR142, miR302, and miR503): Biomolecular therapy of acute myeloid leukemia cells proliferation by targeting cyclin-D1 pathway: Systematic literature review

Faculty of Health Sciences, Sam Higginbottom University of Agriculture, Technology and Sciences, Payagraj, India

Biological potential of tricetin against acute myeloid leukemia: Therapeutic benefit in the medicine for their anticancer effect

Han Yang

PP01-29

Internal Medicine, University of Sebelas Maret, Indonesia

through scientific data analysis <u>Dinesh Kumar Patel</u>^{1*} and Kanika Patel¹

PP01-31 Acute myeloid leukemia with RAM immunophenotype: Distinct or Hazy?

<u>Chandan Kumar</u>¹, Garima Jain , Anita Chopra and Amar Ranjan Laboratory Onology, All India Insitute of Medical Sciences, India

PP01-32 Impact of COVID-19 on the treatment of acute myeloid leukemia: A systematic review

Ramlah Ramlah

Biology, Universitas Gadjah Mada, Indonesia

PP01-33 Repeated and sustained remissions with decitabine therapy in an elderly male with acute myeloid leukemia

Jeremiah Vallente¹ and Teresita Dumagay¹

Department of Medicine, University of the Philippines – Philippine General Hospital, Philippines

PP01-34 A rare case of acute promyelocytic leukemia with BCR-ABL1 rearrangement

Yonggeun Cho¹, Miyoung Kim^{1*}, Boram Han² and Young Kyung Lee¹

¹Department of Laboratory Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea ²Department of Internal Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea

PP01-36 Nonleukemic myeloid sarcoma involving the ileum, duodenum, lungs, mesentery, posterior cul-de-sac and multiple lymph node

groups: A case report

Jeremiah Vallente^{1*}, Teresita Dumagay¹ and Rogelio Jr. Velasco¹

¹Department of Medicine, University of the Philippines – Philippine General Hospital, Philippines

PP01-37 Analytical performance of the oncomine myeloid research assay testing for myeloid neoplasms

A-Jin Lee¹, Sang-Gyung Kim¹ and Chang-Ho Jeon¹ Department of Laboratory Medicine, Daegu Catholic University, Korea

PP02-01 Screening of dysplastic neutrophils using cell population data by automated hematology analyzer

<u>Hyunjung Kim</u>¹, Eunhee Han¹, Hae Kyung Lee¹, Yonggoo Kim¹ and Kyungja Han¹ Laboratory Medicine, College of Medicine, The Catholic University of Korea, Seoul, Korea

PP02-02 TET2 mutation and high miR-22 expression as biomarkers to predict clinical outcome in myelodysplastic syndrome patients treated with hypomethylating therapy

Seong Kyu Park^{1*}, <u>Young Sok Ji</u>, Jina Yun , Se Hyung Kim , Chan Kyu Kim and Jong Ho Won Hematolog/Oncology, Soonchunhyang University Bucheon Hospital, Korea

PP02-03 Molecular profile in adult myelodysplastic/myeloproliferative neoplasms highlighting diagnostic ambiguity in certain cases

<u>Hyunji Kim</u>¹, Young-Uk Cho^{1*}, Sang-Hyun Hwang¹, Seongsoo Jang¹, Eul-Ju Seo¹ and Chan-Jeoung Park¹ Department of Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

PP03-01 Germline and somatic mutations in Korean patients with ALL

Sang-Yong Shin¹, Hyeonah Lee², Seung-Tae Lee³, Jong Rak Choi³, Chul Won Jung⁴, Hong Hoe Koo⁵ and Sun-Hee Kim^{6*}

Department of Laboratory Medicine, Mokpo Jung Ang Hospital , Korea Brain Korea 21 PLUS Project for Medical Science, Yonsei University, Korea

³Department of Laboratory Medicine, Yonsei University College of Medicine, Korea

 4 Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

⁵Department of Pediatrics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

 6 Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

PP03-02 Spectrum of genetic mutations detected by next-generation sequencing in pediatric acute lymphoblastic leukemia

<u>Jae Wook Lee¹,</u> Seongkoo Kim¹, Ari Ahn², Myungshin Kim², Yonggoo Kim², Pil-Sang Jang¹, Nack-Gyun Chung^{1*} and Bin Cho¹

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

²Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea

PP03-04 Minimal residual disease status of patients with B-cell precursor acute lymphoblastic leukemia in South Korea

Seok Lee^{1*}, Nack Gyun Chung³, Myungshin Kim² and Jae-Ho Yoon¹

Department of Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

²Department of Laboratory Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

³Department of Pediatrics, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

PP03-18

Ramlah Ramlah Biology, Universitas Gadjah Mada, Indonesia

PP03-05	Prognosis of pediatric acute lymphoblastic leukemia treated by SCCLG-ALL 2016 protocol - A single institutional experience Huirong Mai ¹ , Shilin Liu ¹ , Ximin Fang ¹ , Ying Wang ¹ , Changgang Li ¹ , Huiying Ye ¹ , Chunyan Wang ¹ , Feiqiu Wen ¹ and Qi Li ¹ Hematology and Oncology Department, Shenzhen Children's Hospital, China
PP03-06	Clinicopathological and immunophenotypic profile of T-cell acute lymphoblastic leukaemia <u>Priya Pai</u> ¹ , Sushma Belurkar ¹ and Sindhura Lakshmi Koulmane Laxminarayana ¹ <u>Department of Pathology, Kasturba Medical College, Manipal, MAHE, India</u>
PP03-07	Treatment response to targeted immunotherapy in adult ALL with isolated extramedullary relapse after previous allogeneic HCT Seung-Hwan Lee ² , Jae-Ho Yoon ¹ , Gi June Min ¹ , Sung-Soo Park ¹ , Silvia Park ¹ , Sung-Eun Lee ¹ , Byung-Sik Cho ¹ , Ki-Seong Eom ¹ , Yoo-Jin Kim ¹ , Hee-Je Kim ¹ , Chang-Ki Min ¹ , Seok-Goo Cho ¹ , Jong Wook Lee ¹ and Seok Lee ¹ Department of Hematology, Catholic Hematology Hospital and Leukemia Research Institute, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea College of Medicine, The Catholic University of Korea, Seoul, Korea
PP03-08	Strategies to prevent and manage complications of acute lymphoblastic leukaemia in young people in Bihar Rajeev Sinha Department of Pharmacology, Agra College, India
PP03-09	A case controlled study on digital dermatoglyphic patterns among children with acute lymphoblastic leukemia in Guyana Ameet Kumar Jha Pre-clinical sciences, Texila American University, Guyana
PP03-10	Wearble technology to assess the sleep quality of patients with acute lymphoblastic leukemia after treatment with chemotherapy Manvendra Singh HMFA-MIET, AKTU, AKTU, India
PP03-11	Methotrexate mitigates leukemia by targeting toll/NF-kB pathway in both in vivo and in vitro model systems <u>Dushyant Gautam</u> ¹ , Indira Paddibhatla ¹ and Ravi Gutti ^{1*} **Department of Biochemistry, University of Hyderabad, India
PP03-12	Anti-leukemic effects of Ibrutinib on B-cell acute lymphoblastic leukemia cells Han-Seung Park ¹ , Eun-Hye Hur ¹ , Bon-Kwan Goo ¹ , Juhyun Moon ¹ and Je-Hwan Lee ^{1*} ¹ Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea
PP03-13	Anti-proliferative and apoptotic effect of zeaxanthin on different malignant cell lines <u>Pardeep Kumar</u> ^{1*} and Vinod Sharma ¹ <u>Applied Sciences, Shri Maha Maya Vaishnav Devi Mandir Research Institute, India</u>
PP03-14	Anti-leukemia effect of solid lipid nanoparticles of hesperidine against the benzene induced leukemia via regulation of growth factors and inflammatory mediators <u>Prakash Bhatt</u> Biotechnology, Fermentis Biotech, India
PP03-15	Anti-leukemic effect of ajwain oil against DMBA induced leukemic rat model: Possible mechanism of action Niti Singh and Deepika Singh ¹ Information Technology, Continental Automotive LTD, BAngalore, India
PP03-17	Association MTHFR gene polymorphisms in promotor-677C/T with risk for adult acute lymphoblastic leukemia in Asia population: An update metaanalysis Bastomy Eka Rezkita Pathology Anatomy, Sebelas Maret University, Indonesia

Factors related to quality of life of children with acute lymphoblastic leukemia who undergo chemotherapy

PP03-19 Identification of acute lymphoblastic leukemia (ALL) cells in peripheral blood smear image based on morphology of white blood cells (WBC) with classification technique using support vector machine (SVM)

<u>Rifaldy Fajar</u>^{1*}, Nana Indri Kurniastuti ¹ and Prihantini Jupri ¹ ¹ Computational Biology Laboratory, Yogyakarta State University, Indonesia

PP03-20 Acute lymphoblastic leukemia with lytic lesions

Namita Kumari¹, Amar Ranjan^{2*}, Ekta Rahul², Pranay Tanwar² and Harshita Dubey² ¹Pathology, Patna Medical College and Hospital(PMCH), India ²Lab Oncology, Cancer Hospital, AllMS, New Delhi, India

PP03-21 A case illustrating therapy-related acute lymphoblastic leukemia eventually progressed to therapy-related myelodysplastic syndrome with clonal branching evolution

Youn-Ji Hong¹, Young-Uk Cho^{1*} and Han-Seung Park² ¹Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea ²Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP03-22 Mixed phenotype acute leukemia - A pathologist's nightmare

Sushma Belurkar

Associate Professor, Pathology, Kasturba Medical College, Manipal Academy of Higher Education, Manipal, Karnataka, India

PP04-01 Pulmonary hypertension in newly diagnosed and tyrosine kinase inhibitor-treated chronic myelogneous leukemia patients: A single center retrospective analysis

<u>Ik-Chan Song</u>¹, Sang-Hoon Yeon¹, Won-Hyoung Seo¹, Myung-Won Lee¹, Hyewon Ryu¹, Hyo-Jin Lee¹, Hwan-Jung Yun¹, Byung-Joo Sun², Jin-Ok Jeong², Jae-Hyeong Park² and Deog-Yeon Jo^{1*}

¹Division of hematology/Oncology, Department of Internal Medicine, Chungnam National University Hospital, Korea ²Division of Cardiology, Department of Internal Medicine, Chungnam National University Hospital, Korea

PP04-02 Clinically diagnosed chronic myeloid leukemia in hyperleukocytosis complicated by acute respiratory distress syndrome from SARS-CoV-2 (COVID-19)

<u>Leah Anne Legaspi</u>¹, Camille Ariadne Tanchanco¹ and Loreta Zoleta¹ ¹Internal Medicine, De La Salle University Medical Center, Philippines

PP04-03 A case of e1a2 (Minor, P190) BCR-ABL1-positive chronic myeloid leukemia in Korea

Yu Jeong Choi¹, Ja Yoon Heo² and Jongha Yoo³

¹Department of Laboratory Medicine, Severance Hospital, Yonsei University College of Medicine, Korea

²Division of Hematology-Óncology, Department of Internal Medicine, National Health Insurance Service Ilsan Hospital, Korea

³Department of Laboratory Medicine, National Health Insurance Service Ilsan Hospital, Korea

PP04-04 Measuring health related quality of life of chronic myeloid leukemia patients on newer generation TKIs using the Filipino version of the FACT-Leu questionnaire

<u>Camille Ariadne Tanchanco</u>¹, Karen Kate Tobias¹ and Teresita Dumagay¹ ¹Internal Medicine, University of the Philippines - Philippine General Hospital, Philippines

PP05-01 Outcome of non-Hodgkin lymphoma: A single center experience

Rohit Kapoor^{1*}, Neha Rastogi¹, Dhwanee Thakkar¹, Goutomi Chatterjee¹ and Satya Prakash Yadav¹

¹Pediatric Hematology Oncology and Bone Marrow Transplant Unit, Cancer Institute, Medanta The Medicity Hospital, Gurgaon, Haryana, India 122001., Medanta The Medicity Hospital, Gurgaon, Haryana, India 122001., Medanta

PP05-02 Small extracellular vesicle-derived messenger RNA for liquid biopsy-based biomarker research in non-Hodgkin lymphomas

Seok Jin Kim^{1*}, Yeong Hak Bang², Joon Ho Shim², Kyung Ju Ryu², Ji Young Lee², Myung Eun Choi², Sang Eun Yoon² and Won Seog Kim¹

Hematology-Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

²Health Sciences and Technology, Samsung Advanced Institute for Health Sciences and Technology, Sungkyunkwan University, Korea

PP05-03 Bone marrow involvement in lymphoma: Flow cytometry verusus bone marrow biopsy; The gold standard?

<u>Garima Jain</u>¹, Chandan Kumar¹, Pranay Tanwar^{1*} and Amar Ranjan¹ *Laboratory Oncology, ALL India Institute of Medical Sciences, India*

PP05-04 Diagnostic accuracy and prognostic relevance of immunoglobulin heavy chain rearrangement and 18F-FDG-PET/CT compared with unilateral bone marrow trephination for detecting bone marrow involvement in patients with diffuse large B-cell lymphoma

Mihee Kim¹, Seo-Yeon Ahn¹, Jae-Sook Ahn¹, Je-Jung Lee¹, Hyeoung-Joon Kim¹, Jun Hyung Lee², Myung-Geun Shin², Sang Yun Song³ and Deok-Hwan Yang^{1†}

Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Chonnam National University Medical School, Korea

²Department of Laboratory Medicine, Chonnam National University Hwasun Hospital, Chonnam National University Medical School, Korea

³Thoracic and Cardiovascular Surgery, Chonnam National University Hwasun Hospital, Chonnam National University Medical School, Korea

PP05-05 Role of FDG-PET/CT in the management of pediatric burkitt lymphoma

Ahmed Abdelsalam

Pediatric oncology/hematology, Children's Cancer Hospital Egypt (CCHE 57357), Egypt

PP05-06 Clinical outcomes of early-progressed follicular lymphoma in Korea: A multicenter, retrospective analysis

Jun Ho Yi¹, Seok Jin Kim³, Dok Hyun Yoon⁷, Cheolwon Suh⁷, Won-Sik Lee⁹, Deok Hwan Yang⁶, Jae-Cheol Jo¹⁰, Youngil Koh⁵, Jeong-Ok Lee⁴, Byeong Su Kim¹¹, Sung Nam Lim¹⁴, Mi Hwa Heo¹³, Byeong Seok Sohn¹², Yoon Seok Choi¹⁵, Hyo Jung Kim¹⁶, Soon II Lee⁸, Sung Yong Oh² and Won Seog Kim^{3*}

¹Hematology & Oncology, Chung-Ang University Hospital, Korea

²Hematology-Oncology, Dong-A University College of Medicine, Korea

³Division of Hematology-Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

 4 Division of Hematology-Oncology, Seoul National University Bundang Hospital, Korea

⁵Division of Hematology-Oncology, Seoul National University Hospital, Korea

⁶Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Korea

⁷Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Korea

⁸Division of Hematology-Oncology, Dankook University College of Medicine, Korea

⁹Division of Hematology-Oncology, Inje University Busan Paik Hospital, Korea

¹⁰Department of Hematology and Oncology, Ulsan University Hospital, University of Ulsan College of Medicine, Korea

¹¹Division of Hematology and Oncology, Korea University Anam Hospital, Korea University College of Medicine, Korea

¹²Division of Hematology and Oncology, Sanggye Paik Hospital, Inje University College of Medicine, Korea

¹³Division of Hematology and Oncology, Dongsan Medical center, Keimyung University School of Medicine, Korea

¹⁴Division of Hematology and Oncology, Haeundae Paik Hospital, Inje University College of Medicine, Korea

¹⁵Department of Hematology-Oncology, Ajou University School of Medicine, Korea

16 Division of Hematology and Oncology, Department of Internal Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea

PP05-07 Long-term clinical outcomes of gastric MALT lymphoma: A single-center experience of 207 patients in Catholic Hematology Hospital

Gi June Min¹, Seok-Goo Cho^{1*}, Byung-Ock Choi⁵, Seung-Jun Kim⁶, Han Hee Lee⁷, Young-Woo Jeon², Jong Hyuk Lee¹, Sung-Soo Park¹, Silvia Park¹, Seung-Ah Yahng⁴, Seung-Hawn Shin³, Byung-Su Kim³, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Dong-Wook Kim¹ and Jong Wook Lee¹

¹Department of hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, Korea

²Department of Hematology, Yeouido St. Mary's Hospital, Korea

³Department of Hematology, Eunpyeong St. Mary's Hospital, Korea

Department of Hematology, Incheon St. Mary's Hospital, Korea

⁵Department of Radiation Oncology, Seoul St. Mary's Hospital, Korea

Department of Radiation Oncology, Seoul St. Mary's Hospital, Korea

Department of Gastroenterology, Seoul St. Mary's Hospital, Korea

⁷Department of Gastroenterology, Yeouido St. Mary's Hospital, Korea

PP05-08 Long-term clinical outcome of R-CVP chemoimmunotherapy in treatment-naïve patients with orbital adnexal MALT lymphoma: A single-center experience

Gi June Min¹, Seok-Goo Cho^{1*}, Seok-Woo Yang⁵, Young-Woo Jeon², Jong Hyuk Lee¹, Sung-Soo Park¹, Silvia Park¹, Seung-Ah Yahng⁴, Seung-Hawn Shin³, Byung-Su Kim³, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹,

Chang-Ki Min¹, Dong-Wook Kim¹ and Jong Wook Lee¹ Department of Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, Korea

Department of Hematology, Catrolic Hematology Hospital, Seoul ²Department of Hematology, Yeouido St. Mary's Hospital, Korea

³Department of Hematology, Feodido 3t. Mary's Hospital, Korea

Department of Hematology, Incheon St. Mary's Hospital, Korea

⁵Department of Ophthalmology and Visual Science, Seoul St. Mary's Hospital, Korea

PP05-09 CNS involvement in relapsed mantle cell lymphoma

Dr Aekta¹, Amar Ranjan^{2*}, Ekta Rahul² Pranay Tanwar² and Harshita Dubey²

1Pathology, Patna Medical College and Hospital, India ²Pathology, Lab Oncology, Dr. Brairch, Aiims, New Delhi, India

PP05-10 Efficacy and safety of ibrutinib in mantle cell lymphoma patients: Real world experience in a single center, retrospective analysis

<u>Jong Hyuk Lee</u>¹, Gi-June Min¹, Young-Woo Jeon², Sung-Soo Park¹, Silvia Park¹, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Dong-Wook Kim¹, Jong Wook Lee¹, Seok-Goo Cho^{1*} and Byung-Su Kim³

¹Department of Hematology, Seoul St. Mary's Hematology Hospital, Korea

²Department of Hematology, Yeouido St. Mary's Hematology Hospital, Korea

³Department of Hematology, Eunpyeong St. Mary's Hematology Hospital, Korea

PP05-11 Long-term real-world results of R-CHOP chemoimmunotherapy in 479 previously untreated elderly patients with diffuse large B-cell lymphoma: A single-center experience at Catholic Hematology Hospital

Gi June Min¹, Seok-Goo Cho¹, Young-Woo Jeon², Jong Hyuk Lee¹, Sung-Soo Park¹, Silvia Park¹, Seung-Ah Yahng⁴, Seung-Hawn Shin³, Byung-Su Kim³, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Dong-Wook Kim¹ and Jong Wook Lee¹

¹Department of hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, Korea

²Department of Hematology, Yeouido St. Mary's Hospital, Korea

³Department of Hematology, Eunpyeong St. Mary's Hospital, Korea

⁴Department of Hematology, Incheon St. Mary's Hospital, Korea

PP05-12 Role of upfront ASCT in patients with bone marrow involvement by immunoglobulin gene rearrangement of diffuse large B-cell lymphoma

Ýu Ři Kim¹, Ho jin Shin², Ho-Young Yhim³, Deok-Hwan Yang⁴, Yong Park⁵, Ji Hyun Lee⁵, Won-sik Lee⁻, Young Rok Do®, Yeung-Chul Mun⁰ and Jin Seok kim¹*

¹Internal medicine, Yonsei University College of Medicine, Korea

²Internal medicine, School of Medicine, Medical Research Institute, Pusan National University Hospital, Korea

Internal Medicine, Chonbuk National University Medical School, Korea

⁴Internal Medicine, Chonnam National University Hwasun Hospital, Korea

⁵Internal Medicine, Korea University College of Medicine, Korea

⁶Internal Medicine, Dong-A University College of Medicine, Korea

⁷Internal Medicine, Inje University Busan Paik Hospital, Korea

⁸Hemato-Oncology, Keimyung University Dongsan Medical Center, Korea

⁹Internal Medicine, Ewha Women's University College of Medicine, Korea

PP05-13 Long-term follow-up of limited-stage ocular adnexal lymphoma patients treated with chemoimmunotherapy

Sung-Yong Kim¹, Won-Sik Lee², Sung Yong Oh³, Deok-Hwan Yang⁴, Seong Kyu Park⁵, Hyo Jung Kim⁶ and Seok-Goo Cho⁷

Department of Hematology-Oncology, Konkuk University Medical Center, Konkuk University School of Medicine, Korea

²Department of Hematology and Oncology, Inje University College of Medicine, Busan Paik Hospital, Korea

³Department of Internal Medicine, Dong-A University College of Medicine, Korea

⁴Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Korea

 5 Department of Internal Medicine, Soonchunhyang University Bucheon Hospital, Soonchunhyang University, Korea

⁶Division of Hematology-Oncology, Department of Internal Medicine, College of Medicine, Hallym University, Hallym University Sacred Heart Hospital, Korea

⁷Department of Hematology, Catholic Blood and Marrow Transplantation Center, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

PP05-14 Use of high dose methotrexate in patients with primary CNS lymphoma without therapeutic drug monitoring of methotrexate levels; Challenges & outcome

<u>Gaurav Prakash</u>^{1*}, Charanpreet Singh¹, Pankaj Malhotra¹, Aniruddha Aggrawal², Astha Takkar³ and Arihant Jain¹

¹Clinical Hematology Unit, Department of Internal Medicine, PGIMER, Chandigarh, India

²Department of Ophthalmology, PGIMER Chandigarh, India

³Department of Neurology, PGIMER, Chandigarh, India

PP05-15 Efficacy and safety of high-dose etoposide cytarabine as consolidation in transplant ineligible primary central nervous system lymphoma

<u>Yu Ri Kim</u>¹, Hyunsoo Cho¹, Soo-Jeong Kim², June-Won Cheong¹, Haerim Chung¹, Ji Eun Jang¹, Yoo Hong Min¹ and Jin Seok Kim¹˚

Internal medicine, Yonsei University College of Medicine, Korea

²Internal Medicine, Yongin Severance Hospital, Yonsei University College of Medicine, Korea

PP05-16 Effect of systemic intravenous methotrexate administration on CNS relapse in patients with primary intraocular lymphoma

<u>Gi June Min</u>¹, Seok-Goo Cho^{1*}, Young-Hoon Park⁵, Young-Woo Jeon², Jong Hyuk Lee¹, Sung-Soo Park¹, Silvia Park¹, Seung-Ah Yahng⁴, Seung-Hawn Shin³, Byung-Su Kim³, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Dong-Wook Kim¹ and Jong Wook Lee¹

¹Department of Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, Korea

²Department of Hematology, Yeouido St. Mary's Hospital, Korea

³Department of Hematology, Eunpyeong St. Mary's Hospital, Korea

⁴Department of Hematology, Incheon St. Mary's Hospital, Korea

⁵Department of Ophthalmology and Visual Science, Seoul St. Mary's Hospital, Korea

PP05-17 GIT DLBCL in hospital Malacca, Malaysia

Siong Leng Hon

Hematology Unit, Hospital Malacca, Ministry of Heatlh, Malaysia

PP05-18 Subcutaneous mosunetuzumab shows promising safety and encouraging efficacy in relapsed or refractory B-cell lymphoma: Initial results from dose escalation

Matthew Matasar³, Chan Yoon Cheah², <u>Dok Hyun Yoon</u>8, Sarit Assouline¹, Nancy Bartlett⁴, Matthew Ku³, Pratyush Giri¹o, Anna Johnston¹¹, lan Flinn¹², Andre Goy¹³, Dimitrios Tzachanis¹⁴, Carol OʻHear⁵, Shen Yin⁵, Iris To⁵, Kati Sarouei⁵, Chi-Chung Li⁵, Brendan Bender⁵, Elicia Penuel⁵, Huang Huang⁶ and L. Elizabeth Budde⁻

¹Division of Hematology, Jewish General Hospital, Montreal, QC, Canada

²Department of Haematology, Linear Clinical Research and Sir Charles Gairdner Hospital, Nedlands, WA, Australia

³Department of Hematology and Oncology, Memorial Sloan Kettering Cancer Center, New York, NY, USA

⁴Department of Oncology, Washington University School of Medicine, St. Louis, MO, USA

⁵Genentech, Inc., Genentech, Inc., South San Francisco, CA, USA

⁶F. Hoffmann-La Roche Limited, F. Hoffmann-La Roche Limited, Mississauga, ON, Canada

⁷Department of Hematology & Hematopoietic Cell Transplantation, City of Hope National Medical Center, Duarte, CA, USA

⁸Department of Oncology, Hematologic Cancer & BMT center, Asan Medical Center/University of Ulsan College of Medicine, Seoul, Korea

Department of Haematology, St Vincent's Hospital, University of Melbourne, VIC, Australia

¹⁰Department of Haematology, Royal Adelaide Hospital, SA, Australia

Department of Haematology, Royal Hobart Hospital, Hobart, Australia

¹²Department of Haematology, Sarah Cannon Research Institute-Tennessee Oncology, Nashville, TN, USA

¹³Division of Lymphoma, John Theurer Cancer Center, Hackensack, NJ, USA

¹⁴Department of Oncology, Moores Cancer Center, University of California San Diego, La Jolla, CA, USA

PP05-19 Treatment outcomes of involved-field radiotherapy in elderly patients with high-grade or recurrent non-Hodgkin lymphoma

<u>Dong Soo Lee</u>¹, Yoon Ho Ko², Der Sheng Sun² and Hye Sung Won²

¹Radiation Oncology, College of Medicine, The Catholic University of Korea, Korea

²Division of Medical Oncology, Department of Internal Medicine, College of Medicine, The Catholic University of Korea, Korea

PP05-20 ECHELON-2: 5-year results of a phase 3 study of frontline brentuximab vedotin + CHP vs CHOP in patients with CD30-positive peripheral T-cell lymphoma

Won Seog Kim^{1*}, Steven M. Horwitz², Owen A. O'Connor^{3,4}, Barbara Pro⁵, Tim Illidge⁶, Swami P. Iyer⁷, Ranjana Advani⁸, Nancy L. Bartlett⁹, Jacob Haaber Christensen¹⁰, Franck Morschhauser¹¹, Eva Domingo-Domenech¹², Giuseppe Rossi¹³, Tatyana A. Feldman¹⁴, Tobias Menne¹⁵, David Belada¹⁶, Árpád Illés¹⁷, Kensei Tobinai¹⁸, Kunihiro Tsukasaki¹⁹, Su-Peng Yeh²⁰, Andrei R. Shustov²¹, Andreas Hüttmann²², Kerry J. Savage²³, Sam Yuen²⁴, Pier Luigi Zinzani²⁵, Harry Miao²⁶, Veronica Bunn²⁶, Keenan Fenton²⁷, Michelle A. Fanale²⁷, Markus Puhlmann²⁷ and Lorenz Trümper²⁸

¹Division of Hematology-Oncology, Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

²Department of Medicine, Lymphoma Service, Memorial Sloan Kettering Cancer Center, New York, NY, USA

³Department of Medicine, É. Couric Cancer Center, University of Virginia, Charlottesville, VA, USA

⁴Division of Hematology and Oncology, TG Therapeutics, New York, NY, USA

⁵Division of Hematology and Oncology, Department of Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, USA

⁶Division of Cancer Services, Faculty of Biology, Medicine and Health, University of Manchester, NIHR Biomedical Research Centre, Manchester Academic Health Sciences Centre, Christie Hospital NHS Foundation Trust, Manchester, UK

⁷Department of Lymphoma - Myeloma, Division of Cancer Medicine, MD Anderson Cancer Center/University of Texas, Houston, TX, USA

⁸Department of Medicine, Division of Oncology, Stanford Cancer Center, Blood and Marrow Transplant Program, Stanford, CA, USA

⁹Division of Oncology, Washington University School of Medicine in St Louis, St. Louis, MO, USA

¹⁰Department of Hematology, Odense University Hospital, Odense, Denmark

Department of Hematology, CHRU de Lille, Lille cedex, Nord-Pas-de-Calais, France

¹²Clinical Hematology Department, Institut Catala D'oncologia, L'Hospitalet de Llobregat, Barcelona, Spain

¹³Department of Medical Oncology, Azienda Ospedaliera Spedali Civili di Brescia, Brescia, Italy

¹⁴Department of Hematology, Hackensack University Medical Center, Hackensack, NJ, USA

¹⁵Haematology Department, Freeman Hospital, Newcastle-upon-Tyne, UK

¹⁶4th Department of Internal Medicine – Hematology, University, Hospital and Faculty of Medicine, Hradec Králové, Czech

¹⁷Department of Hematology, Debreceni Egyetem, Debrecen, Hungary

¹⁸Department of Hematology, National Cancer Center Hospital, Tokyo, Japan

¹⁹Department of Hematology, Saitama Medical University, International Medical Center, Department of Hematology, Saitama, Japan

²⁰ Division of Hematology and Oncology, Department of Internal Medicine, China Medical University Hospital, Taichung, Rep of China (Taiwan)

²¹Division of Hematology, University of Washington Medical Center, Seattle, WA, USA

²²Department of Haematology, Universitatsklinikum Essen, Nordrhein-Westfalen, Germany

²³Department of Medicine, Division of Medical Oncology, BC Cancer Centre for Lymphoid Cancer and The University of British Columbia, Vancouver, BC, Canada

²⁴Department of Hematology, Calvary Mater Newcastle Hospital, Sydney, Australia

²⁵Dipartimento di Medicina Specialistica, Istituto di Ematologia "Seràgnoli", Diagnostica e Sperimentale Università degli Studi, Bologna, Italy

²⁶Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda Pharmaceuticals Company Limited, Cambridge, MA, USA

²⁷Seagen, Inc., Bothell, WA, USA

²⁸Department of Hematology and Medical Oncology, Universitätsmedizin Göttingen, Göttingen, Germany

PP05-21 Prognostic effect of C-reactive protein-to-albumin ratio in peripheral T-cell lymphoma

Jongheon Jung¹, Ja Yoon Heo², Eunyoung Lee¹, Hyewon Lee¹, Myung Hee Chang² and Hyeon-Seok Eom^{1*} *Center for Hematologic Malignancy, National Cancer Center, Goyang, Korea*

²Division of Oncology-Hematology, Department of Internal Medicine, National Health Insurance Service Ilsan Hospital, Korea

PP05-22 Cutaneous T cell lymphoma in Asian patients: A multinational, multicenter, prospective registry study in Asia

Yong-Pyo Lee¹ and Sang Eun Yoon¹

¹Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

PP05-23 Long-term clinical outcome of of ProMACE-CytaBOM regimen with sandwiched radiotherapy in newly diagnosed patients with localized extranodal NK/T-cell lymphoma, nasal type

Gi June Min², Sung-Soo Park², Silvia Park², Jae-Ho Yoon², Sung-Eun Lee², Byung-Sik Cho¹, Ki-Seong Eom², Yoo-Jin Kim², Hee-Je Kim², Seok Lee², Chang-Ki Min², Jong-Wook Lee², Seok-Goo Cho^{1,23*} and <u>Youngwoo Jeon</u>^{1,3}

Hematology, Lymphoma-Cell therapy Research Center, Yeouido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

²Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

³Institute for Translational Research and Molecular Imaging, Catholic Institutes of Medical Science, Korea

PP05-24 A novel ICOS gene mutation in a patient with common variable immunodeficiency and T large granular lymphocyte leukemia Anli Liu¹ and Jun Peng¹*

¹Department of Hematology, Qilu Hospital, Shandong University, China

PP05-25 Brentuximab vedotin with chemotherapy for previously untreated, stage III/IV classical Hodgkin lymphoma: 5-year update of the ECHELON-1 study

Won Seog Kim^{1*}, David J. Straus², Monika Długosz-Danecka³, Joseph M. Connors⁴, Árpád Illés⁵, Marco Picardi⁶, Ewa Lech-Maranda⁷, Tatyana Feldman⁸, Piotr Smolewski⁹, Kerry J. Savage⁴, Nancy L. Bartlett¹⁰, Jan Walewski¹¹, Radhakrishnan Ramchandren¹², Pier Luigi Zinzani¹³, Martin Hutchings¹⁴, Javier Munoz¹⁵, Ranjana Advani¹⁶, Stephen M. Ansell¹⁷, Anas Younes², Andrea Gallamini¹⁸, Rachael Liu¹⁹, Meredith Little¹⁹, Keenan Fenton²⁰, Michelle Fanale²⁰ and John Radford²¹

Division of Hematology-Oncology, Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

²Department of Medicine, Lymphoma Service, Memorial Sloan Kettering Cancer Center, New York, NY, ÚSA

³Oncology Centre, Maria Sklodowska-Curie National Research Institute of Oncology, Kraków, Poland

⁴Department of Medicine, Division of Medical Oncology, BC Cancer Centre for Lymphoid Cancer, Vancouver, Canada

⁵Department of Hematology, University of Debrecen, Debrecen, Hungary

⁶Department of Clinical Medicine and Surgery, Federico II University, Naples, Italy

⁷Department of Hematology, Institute of Hematology and Transfusion Medicine, Warsaw, Poland

Department of Hematology, Hackensack University Medical Center, Hackensack, NJ, USA

Department of Experimental Hematology, Medical University of Lodz, Poland

¹⁰Division of Oncology, Washington University School of Medicine Siteman Cancer Center, St Louis, MO, USA

¹¹Department of Lymphoid Malignancies, Maria Sklodowska-Curie Institute and Oncology Centre, Warsaw, Poland

¹²Division of Hematology and Oncology, The University of Tennessee Graduate School of Medicine, Knoxville, TN, USA

¹³Dipartimento di Medicina Specialistica, Istituto di Ematologia, Italy

¹⁴Department of Haematology, Rigshospitalet, Copenhagen University Hospital, Copenhagen, Denmark

¹⁵Department of Hematology, Banner MD Anderson Cancer Center, Gilbert, AZ, USA

¹⁶Department of Medicine, Division of Oncology, Stanford University, Stanford, CA, USA

¹⁷Division of Hematology, Mayo Clinic, Rochester, MN, USA

¹⁸Research and Innovation, Antoine-Lacassagne Cancer Centre, Nice, France

¹⁹Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda Pharmaceutical Company Limited, Cambridge, MA, USA

²⁰Seagen, Inc., Bothell, WA, USA

²¹ Division of Cancer Sciences, The University of Manchester and the Christie NHS Foundation Trust, Manchester Academic Health Science Centre, Manchester, UK

PP05-26 Influence of DNA repair and TLR4 gene variants on response to ABVD regimen in South Indian patients with Hodgkin lymphoma

<u>Dimpal Thakkar</u>¹, Kesavan Ramasamy^{2*}, Sandhiya Selvarajan³ and Biswajit Dubashi⁴

Content design and solution, Indegene INC., Associate scientific writer, India

²Department of Pharmacology, JIPMER, Associate Professor, India

³Department of Clinical Pharmacology, JIPMER, Associate Professor, India

⁴Department of Medical Oncology, JIPMER, Additional Professor, India

PP05-27 Multicenter, retrospective analysis of patients with chronic lymphocytic leukemia in Korea

<u>Jun Ho Yi</u>¹, Gyeong-Won Lee², Ji Hyun Lee³, Kwai Han Yoo⁴, Chul Won Jung⁵, Dae Sik Kim⁶, Jeong-Ok Lee⁷, Hyeon Seok Eom⁸, Ja Min Byun⁹, Youngil Koh⁹, Sung Soo Yoon⁹, Jin Seok Kim¹⁰, Jee Hyun Kong¹¹, Ho-Young Yhim¹², Deok-Hwan Yang¹³, Dok Hyun Yoon¹⁴, Do Hyoung Lim¹⁵, Won-Sik Lee¹⁶ and Ho-Jin Shin^{17*}

¹Hematology & Oncology, Chung-Ang University Hospital, Korea

²Hematology-Oncology, Gyeongsang National University College of Medicine, Korea

³Hematology-Oncology, Dong-A University College of Medicine, Korea

⁴Division of Hematology-Oncology, Gachon University College of Medicine, Korea

⁵Division of Hematology-Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

⁶Division of Hematology-Oncology, Korea University Guro Hospital, Korea

⁷Division of Hematology-Oncology, Seoul National University Bundang Hospital, Korea

⁸Department of Internal Medicine, National Cancer Center, Korea

⁹Division of Hematology-Oncology, Seoul National University Hospital, Korea

¹⁰Division of Hematology, Severance Hospital, Yonsei University College of Medicine, Korea

¹¹Division of Hematology-Oncology, Yonsei University Wonju College of Medicine, Korea

¹²Department of Internal Medicine, Jeonbuk National University Medical School, Korea

¹³Department of Hematology-Oncology, Chonnam National Úniversity Hwasun Hospital, Korea

¹⁴Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Korea

¹⁵Division of Hematology-Oncology, Dankook University College of Medicine, Korea

¹⁶Division of Hematology-Oncology, Inje University Busan Paik Hospital, Korea

¹⁷Division of Hematology-Oncology, School of Medicine, Medical Research Institute, Pusan National University Hospital, Korea

PP05-28 Possible correlation of torque teno virus/torque teno-like minivirus and human herpes virus-8 in kikuchi-fujimoto disease

Yosep Chong^{1*}, Nishant Thakur¹ and Chang Suk Kang¹

Department of Hospital Pathology, The Catholic University of Kore College of Medicine, Korea

²Department of Pathology, Samkwang Medicial Laboratories, Korea

PP06-01 Clinical study on risk-stratified treatment in children with HLH

Ang Wei¹, Tianyou Wang¹ and Rui Zhang¹

¹Hematology Oncology Center, Beijing Children's Hospital, Capital Medical University, China

PP06-02 Clinical analysis of chronic active EBV infection with coronary artery dilatation and a matched case-control study

Ang Wei¹, Honghao Ma¹, Tianyou Wang¹ and Rui Zhang¹

¹Hematology Oncology Center, Beijing Children's Hospital, Capital Medical University, China

PP06-03 Outcome of langerhans cell histiocytosis: A single center experience

Rohit Kapoor^{1*}, Neha Rastogi¹, Dhawnee Thakkar¹, Goutomi Chatterjee¹ and Satya Prakash Yadav¹

Pediatric Hematology Oncology and Bone Marrow Transplant Unit, Cancer Institute, Medanta The Medicity Hospital, Gurgaon, Haryana, India 122001., Medanta The Medicity Hospital, Gurgaon, Haryana, India

PP06-04 Clinical analysis of pediatric systemic juvenile xanthogranulomas: A retrospective single-center study

Huixia Gao¹ and Rui Zhang¹

. Hematology, Beijing Children's Hospital Affiliated with Capital Medical University, China

Generation of potent dendritic cells using interleukin-15 in multiple myeloma

Tan-Huy Chu¹, Manh-Cuong Vo¹, Jaya Lakshmi¹, Seo-Yeon Ahn², Sung-Hoon Jung² and Je-Jung Lee^{2*}
¹Research Center for Cancer Immunotherapy, Chonnam National University Hwasun Hospital, Hwasun, Jeollanamdo, Korea
²Department of Hematology Oncology, Chonnam National University Hwasun Hospital, Hwasun, Jeollanamdo, Korea

PP07-02 Relationship between number of plasma cells with monoclonal protein levels in myeloma multiple patients

Ninda Devita¹ and Adika Zhulhi Arjana²

¹Biomedical Sciences Programme, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia

²Clinical Pathology and Laboratory Medicine, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia

PP07-03 Galectin-3 in multiple myeloma in residents of Gomel region of Belarus

Zhanna Kozich¹, Victor Martinkov², Zhanna Pugacheva³ and Liudmila Smirnova⁴

THematology Department, Si "Republican Research Center for Radiation Medicine and Human Ecology", Belarus

²Department of Molecular Genetics, Si "Republican Research Center for Radiation Medicine and Human Ecology", Belarus

³Clinical and Diagnostics Laboratory, Si "Republican Research Center for Radiation Medicine and Human Ecology", Belarus

⁴Head of Research Chair of Clinical Hematology and Transfusiology, Ei "Belarusian Medical Academy of Postgraduate Education", Belarus

PP07-04 Translational data supporting the rational combination of iberdomide with proteasome inhibitors

Michael Amatangelo¹, Chad Bjorklund¹, Jian Kang¹, Archana Mukhopadhyay¹, María Dolores Jiménez Nuñez², Lilly Wong¹, William Pierceall¹, Sagar Lonial³, Niels W.C.J. van de Donk⁴, Rakesh Popat⁵, Sundar Jagannath⁶, Jeffrey A. Zonder⁷, Monique C. Minnema⁸, Albert Oriol⁹, Jeremy Larsen¹⁰, Ashraf Z. Badros¹¹, Paula Rodríguez Otero¹², Pieter Sonneveld¹³, Tuong Vi Nguyen¹, Kevin Hong¹, April Sorrell¹ and Anian Thakurta¹

¹Bristol Myers Squibb, Princeton, NJ, USA

²Bristol Myers Squibb's Center for Innovation and Translational Research Europe (CITRE), Seville, Spain

³Winship Cancer Institute, Emory University, Atlanta, GA, USA

⁴Department of Hematology, Cancer Center Amsterdam, Amsterdam University Medical Center, VU Amsterdam, Amsterdam, Netherlands

 5 NIHR UCLH Clinical Research Facility, University College London Hospitals NHS Foundation Trust, London, UK

⁶The Mount Sinai Hospital, New York, NY, USA

⁷Karmanos Cancer Institute, Detroit, MI, USA

⁸Department of Hematology, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands

9 Institut de Recerca contra la Leucèmia Josep Carreras and Institut Català d'Oncologia, Hospital Germans Trias i Pujol, Badalona, Spain

10 Mayo Clinic, Scottsdale, AZ, USA

¹¹Thé University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center, University of Maryland Medical Center, Baltimore, MD, USA

¹²Clínica Universidad de Navarra, CIMA, IDISNA, CIBERONC, Pamplona, Spain

¹³Erasmus Medical Center, Rotterdam, Netherlands

PP07-05 Adaptive natural killer cells facilitate effector functions of daratumumab in multiple myeloma

<u>Hyunsoo Cho</u>¹, Haerim Chung¹, Yoon Seok Choi³, Ji Eun Jang¹, Yu Ri Kim¹, June-Won Cheong¹, Yoo Hong Min¹, Eui-Cheol Shin² and Jin Seok Kim^{1*}

¹Department of Internal Medicine, Yonsei University College of Medicine, Korea

²Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Korea

³Department of Hematology-Oncology, Ajou University School of Medicine, Korea

PP07-06 Translational data supporting the rational combination of iberdomide with CD38- and SLAMF7-directed monoclonal antibodies

Michael Amatangelo^{1*}, Chad Bjorklund¹, Peilin Ma¹, Krista Wollerman¹, William Pierceall¹, Sagar Lonial², Niels W.C.J. van de Donk³, Rakesh Popat⁴, Sundar Jagannath⁵, Jeffrey A. Zonder⁶, Monique C. Minnema⁷, Albert Oriol⁸, Jeremy Larsen⁹, Ashraf Z. Badros¹⁰, Paula Rodríguez Otero¹¹, Pieter Sonneveld¹², Tuong Vi Nguyen¹, Kevin Hong¹, April Sorrell¹ and Anjan Thakurta¹

¹Bristol Myers Squibb, Princeton, NJ, USA

²Winship Cancer Institute, Emory University, Atlanta, GA, USA

³Department of Hematology, Cancer Center Amsterdam, Amsterdam University Medical Center, VU Amsterdam, Amsterdam, Netherlands

 4 NIHR UCLH Clinical Research Facility, University College London Hospitals NHS Foundation Trust, London, UK

⁵The Mount Sinai Hospital, New York, NY, USA

⁶Karmanos Cancer Institute, Detroit, MI, USA

⁷Department of Hematology, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands

⁸Institut de Recerca contra la Leucèmia Josep Carreras and Institut Català d'Oncologia, Hospital Germans Trias i Pujol, Badalona, Spain

⁹Mayo Clinic, Scottsdale, AZ, USA

¹⁰The University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center, University of Maryland Medical Center, Baltimore, MD, USA

¹¹Clínica Universidad de Navarra, CIMA, IDISNA, CIBERONC, Pamplona, Spain

¹²Erasmus Medical Center, Rotterdam, Netherlands

PP07-07 Clinical implication of next-generation flow cytometry based minimal residual disease assessment in patients with multiple

Hyun-Young Kim¹, Dae Jin Lim¹, Hee-Jin Kim¹, Sun-Hee Kim¹, Sang Eun Yoon², Seok Jin Kim², Kihyun Kim² and Duck Cho¹

Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

PP07-08 Association between vitamin D receptor (VDR) gene polymorphisms and multiple myeloma susceptibility: A systematic review and meta-analysis

Indah Sagitaisna Putri

Faculty of Medicine, Sebelas Maret University, Indonesia

PP07-09 Immunomodulatory drugs increase the risk of serious infections in multiple myeloma patients: A meta-analysis

<u>Zeba Haque</u>

Department of Chemistry, Jamia Millia Islamia, New Delhi. 110025, India

PP07-10 Diagnostic impact of non-CRAB myeloma-defining events in multiple myeloma

Sooyong Park¹ and Yoon Hwan Chang¹

Department of Laboratory Medicine, Seoul National University Hospital, Korea

PP07-11 Determinant factors for early mortality in newly diagnosed multiple myeloma patients

<u>Javad Alizargar</u>

Research Center for Healthcare Industry Innovation, National Taipei University of Nursing and Health Sciences, Rep of China (Taiwan)

PP07-12 The clinical characteristics and survival outcomes of multiple myeloma patients aged 80 or over

<u>Sang Hwan Lee</u>¹, Sung Hwa Bae^{2*}, Hun Mo Ryoo², Jung Lim Lee¹, Hee-Jeong Cho³, Joon Ho Moon³, Ji Yoon Jung⁴, Min Kyoung Kim⁴, Mi Hwa Heo⁵ and Young Rok Do⁵

¹Hematology/Oncology, Daegu Fatima Hospital, Korea

²Hematology/Oncology, Daegu Catholic University Hospital, Korea

³Hematology/Oncology, Kyungpook National University Hospital, Korea

⁴Hematology/Oncology, Yeungnam University Hospital, Korea

⁵Hematology/Oncology, Dongsan Medical Center, Korea

PP07-13 Addition of cyclophosphamide to pomalidomide/dexamethasone has a benefit in refractory multiple myeloma?: The comparison with pomalidomide-based chemotherapy in Asian patients

Hyunkyung Park¹, Ja Min Byun², Sock-won Yoon², Youngil Koh², Dong-Yeop Shin², Junshik Hong², Inho Kim² and Sung-Soo Yoon^{2*}

Internal Medicine, Seoul National University Boramae Medical Center, Korea

²Internal Medicine, Seoul National University Hospital, Korea

PP07-16 Primary plasma cell leukemia with long term survival - A report of two cases

Ekta Rahul¹, Amar Ranjan¹ and Pranay Tanwar¹ Department of Lab Oncology, AllMS, New Delhi, India

PP07-17 Analysis of overall survival in plasma cell leukemia

Amar Ranjan, Harshita Dubey, Ekta Rahul and Pranay Tanwar Lab Oncology, Cancer Institute, All India Institute of Medical Sciences, New Delhi, India

PP07-18 Multiple myeloma in man 32 years old with metachronous soft tissue sarcoma. A multiple primary malignant tumors with successfull chemotherapy medication

Loudry Amsal Elfa Gustanar^{1*} and Darwin Prenggono¹

¹Hematology Oncology Division, Internal Medicine Department, Indonesian Medical Association, Indonesia

PP08-01 Thrombotic and hemorrhagic events in 2016 who-defined Philadelphia-negative myeloproliferative neoplasms

<u>Deog-Yeon Jo</u>^{1*}, Myung-Won Lee¹, Sang Hoon Yeon¹, Won-Houng Seo¹, Hyewon Ryu¹, Ik-Chan Song¹, Hyo-Jin Lee¹, Hwan-Jung Yun¹ and Seon Young Kim²

Division of Hematology/Oncology, Department of Internal Medicine, College of Medicine, Chungnam National University, Korea

²Department of Laboratory Medicine, College of Medicine, Chungnam National University, Korea

PP08-02 Effect of CALR mutant type and allele burden on the phenotype of BCR/ABL1-negative myeloid proliferative neoplasms

Yujin Han¹, Hyun-Young Kim¹, Jun Ho Jang², Chul Won Jung², Sun-Hee Kim¹ and Hee-Jin Kim

¹Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

²Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

PP08-03 Impact of MPNs on quality of life: Korean landmark survey

<u>Ja Min Byun¹</u>, Chul Won Choi⁷*, Soo-Mee Bang², Eun-Ji Choi³, Ki-Seong Eom⁴, Chul Won Jung⁵, Hye-seon Kim⁶ and Jiwon Park⁶

¹Internal Medicine, Seoul National University Hospital, Korea

²Internal Medicine, Seoul National University Bundang Hospital, Korea

³Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

⁴Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

⁵Internal Medicine , Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

⁶Medical Science Liaison, Novartis Korea, Korea

⁷Internal Medicine, Korea University Guro Hospital, Korea

PP08-04 Characteristics of hydroxyurea-resistant or intolerant polycythemia patients in Korea

Sung-Yong Kim^{1*}, Junshik Hong², Soo-Mee Bang³, Jinny Park⁴, Chul Won Choi⁵ and Sung Hwa Bae⁶

Department of Hematology-Oncology, Konkuk University Medical Center, Konkuk University School of Medicine, Korea

²Division of Hematology and Medical Oncology, Department of Internal Medicine, Seoul National University Hospital, Korea

³Department of Internal Medicine, Seoul National University Bundang Hospital, Korea

⁴Division of Hematology, Department of Internal Medicine, Gachon University Gil Medical Center, Korea

⁵Division of Hematology-Oncology, Department of Internal Medicine, Korea University Guro Hospital, Korea

⁶Department of Internal Medicine, Daegu Catholic University School of Medicine, Korea

PP08-05 The risks and benefits of hydroxyurea in children and young adults with essential thrombocythemia and polycythemia vera

<u>Hyoung Soo Choi</u>¹, Junshik Hong², Sang Mee Hwang³, Ju Hyun Lee⁴, Youngeun Ma¹, Sang-A Kim⁴, Ji Yun Lee⁴, Jeong-Ok Lee⁴ and Soo-Mee Bang^{4*}

¹Pediatrics, Seoul National University College of Medicine, Seoul National University Bundang Hospital, Korea

²Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Korea

³Laboratory Medicine, Seoul National University College of Medicine, Seoul National University Bundang Hospital, Korea

⁴Internal Medicine, Seoul National University College of Medicine, Seoul National University Bundang Hospital, Korea

PP08-06 Radiologic splenomegaly in patients with essential thrombocythemia and prefibrotic/early primary myelofibrosis

Myungwon Lee', Sang Hoon Yeon', Won-Hyoung Seo', Hyewon Ryu', Ik-Chan Song', Hyo-Jin Lee', Hwan-Jung Yun', Seon Young Kim², Kyung Sook Shin³ and Deog-Yeon Jo¹*

¹Division of Hematology/Oncology, Department of Internal Medicine, College of Medicine, Chungnam National University, Korea

²Department of Laboratory Medicine, College of Medicine, Chungnam National University, Korea

³Department of Radiology, College of Medicine, Chungnam National University, Korea

PP08-07 Clinical predictors in diagnosing essential thrombocytosis: A correlational study

Fatima Louise Gutierrez¹, Joy Ann De Castro¹ and Flordeluna Mesina¹

Department of Internal Medicine, Section of Hematology, University of Santo Tomas Hospital, Philippines

PP08-08 Soluble ST2 for prediction of bone marrow fibrosis

Mikyoung Park¹, Mina Hur^{2*}, Jong Ho Lee¹, Hyung Woo Kim¹, Hanah Kim² and Minjeong Nam²

Department of Laboratory Medicine, Yeungnam University College of Medicine, Daegu, Korea Department of Laboratory Medicine, Konkuk University School of Medicine, Seoul, Korea

PP08-09 Coexistence of JAK2 and CALR mutations in a patient with myelofibrosis

Jung-ah Kim¹, Hae In Bang¹, Woo Yong Shin¹, Jieun Kim and Rojin Park¹
Department of Laboratory Medicine, Soonchunhyana University Seoul Hospital, Seoul, Korea

PP08-10 Immune gene signature distinguishes overt primary myelofibrosis from other myeloproliferative neoplasms

Sung-Eun Lee¹, Seowon Choi¹, Gi June Min¹, Sung-Soo Park¹, Silvia Park¹, Jae-Ho Yoon¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Chang-Ki Min¹, Hee-Je Kim¹, Seok-Goo Cho¹, Dong-Wook Kim¹ and Jong Wook Lee¹

Department of Hematology, Catholic Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea

PP08-11 A case of atypical chronic myeloid leukemia with concomitant CSF3R T618I and JAK2 V617F variants

Eungjun Yoon¹, Hyun-Young Kim¹, Hee-Jin Kim¹, Chul-Won Jung² and Sun-Hee Kim¹

Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea
²Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

PP08-12 Reslizumab treatment in a Korean adolescent patient with hypereosinophilic syndrome: A case report

Ye Jee Shim^{1*} and Heung Sik Kim²

¹Department of Pediatrics, Keimyung University School of Medicine, Keimyung University Dongsan Hospital, Daegu, Korea ²Department of Pediatrics, Keimyung University School of Medicine, Keimyung University Daegu Dongsan Hospital, Daegu, Korea

PP09-01 Evaluation of the efficacy of CsA combined with recombined human erythropoietin in the treatment of patients with chronic aplastic anemia

Wanshu Chen¹, Bing Han^{1*} and Menglu Zhang¹

Department of Hematology, PUMC Hospital, CAMS and PUMC, China

PP09-02 The outcome of hematopoietic stem cell transplantation in children with Shwachman-Diamond syndrome

Yeon Jung Lim^{1,2}, Yigal Dror^{2*}, Omri A Arbiv², Melanie E Kalbfleisch², Yves D Pastore⁴, Robert J Klaassen⁵, Geoff Cuvelier⁶, Conrad Fernandez⁷, Meera Rayar⁸, MacGregor Steele³, Mariana Silva⁹, Josee Brossard¹⁰, Bruno Michon¹¹, Sharon Abish¹², Roona Sinha¹³, Mark J Belletrutti¹⁴, Vicky R Breakey¹⁵, Lawrence Jardine¹⁶, Lisa Goodyear¹⁷, Lillian Sung¹⁹, Tal Schechter-Finkelstein¹⁸, Bozana Zlateska² and Michaela Cada²

¹Pediatrics, College of Medicine, Chungnam National University, Korea

²Genome and the Genetics and Genome Biology Program, Research Institute, The Hospital for Sick Children, Canada

³Pediatrics, Alberta Children's Hospital, Calgary, Alberta, Canada

⁴Pediatrics, Hôpital Ste. Justine, Montréal, Québec, Canada

⁵Pediatrics, Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada

⁶Pediatrics, CancerCare Manitoba, Winnipeg, Manitoba, Canada

⁷Pediatrics, IWK Health Centre, Halifax, Nova Scotia, Canada

⁸Pediatrics, British Columbia Children's Hospital, Vancouver, British Columbia, Canada

⁹Pediatrics, Queen's University, Kingston, Ontario, Canada

¹⁰Pediatrics, Centre U Sante de l'Estrie-Fleur, Sherbrooke, Quebec, Canada

¹¹Pediatrics, Centre Hospital University Quebec-Pav CHUL, Sainte-Foy, Quebec, Canada

¹²Pediatrics, Montreal Children's Hospital, Montreal, Québec, Canada

¹³Pediatrics, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

¹⁴Pediatrics, University of Alberta/Health Sciences Centre, Edmonton, Alberta, Canada

¹⁵Pediatrics, McMaster Children's Hospital/McMaster University Health Sciences Centre, Hamilton, Ontario, Canada

¹⁶Pediatrics, Children's Hospital of Western Ontario, London, Ontario, Canada

¹⁷Pediatrics, Janeway Child Health Centre, St. John's, Newfoundland, Canada

 ${}^{18}Blood\ and\ Marrow\ Transplantation\ Section,\ Division\ of\ Haematology/Oncology,\ The\ Hospital\ for\ Sick\ Children,\ Toronto,\ Canada$

¹⁹Pediatrics, The Hospital for Sick Children and the University of Toronto, Toronto, Ontario, Canada

PP09-03 A predictive scoring system for severe aplastic anemia patients treated with antithymocyte globulin and cyclosporine

Sung-Soo Park¹, Gi June Min¹, Silvia Park¹, Jae-Ho Yoon¹, Seung-Ah Yahng², Seung Hwan Shin³, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Seok-Goo Cho¹ and Jong Wook Lee¹*

EOM , YOO-JIN AM , SEOK LEE , HEE-JE AM , Chang-A MIN , SEOK-GOO CHO , and Jong Wook LEE ¹Department of Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

²Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

³Department of Hematology, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

PP09-04 Long-term outcome of allogeneic hematopoietic stem cell transplantation from HLA-matched sibling donor in young patients with severe acquired aplastic anemia

Thanh Le Vu Ha

Stem cell transplantation Department, Blood transfusion and hematology hospital, Viet Nam

PP10-01 Authenticating a common NGS-detected ASXL1 codon 646 mutation using Sanger sequencing

Miyoung Kim^{1,2*}, Nan Young Kim², Sangkyoon Hong², Yonggeun Cho¹, Han-Sung Kim¹, Hee Jung Kang¹ and Young Kyung Lee¹²

¹Départment of Laboratory Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea

²Department of Laboratory Medicine, Hallym University Hangang Sacred Heart Hospital, Hallym University College of Medicine, Korea

PP10-02 HTLV-1 viral oncoprotein HBZ protects cells from pro-apoptotic stress by upregulating stabilization of HAX-1

Takayuki Ohshima

Faculty of Pharmaceutical Sciences at Kagawa Campus, Tokushima Bunri University, Japan

PP10-03 Complete blood count and cell population data parameters are useful in differentiating myelodysplastic syndromes from other forms of cytopenia

Sang Mee Hwang^{1*} and Youngwon Nam¹

Laboratory Medicine, Seoul National University Bundang Hospital, Korea

PP10-04 Comparison of hematology profile between recovery and death group of COVID-19 patient in Jember, East Java, Indonesia: Preliminary study

Elvia Rahmi Marga Putri^{1*}, Nanda Eka Sri Sejati², Adhista Eka Noveyani³, Angga Madro Raharjo⁴, Rini Riyanti¹, Diana Chusna Mufida⁵, Eprilia Darma Sari⁵ and Putu Ayu Laksmi Lestari⁵

¹Clinical Pathology Department, Faculty of Medicine, University of Jember, Indonesia

²Emergency Department, dr. Subandi General Hospital, Jember, Indonesia

³Department of Epidemiology, Faculty of Public Health, University of Jember, Indonesia

⁴Department of Pulmonology, dr. Soebandi General Hospital, Jember, Indonesia

⁵Microbiology Department, Faculty of Medicine, University of Jember, Indonesia

⁶Undergraduate Programs, Faculty of Medicine, University of Jember, Indonesia

⁷Department of Public Health, Faculty of Medicine, University of Jember, Indonesia

PP10-05 Benign variants associated with hematologic malignancy in the catalogue of somatic mutations in cancer

<u>Kyoung-Jin Park</u>^{1*}, Jong-Ho Park² and Moon Jung Kim³

Department of Laboratory Medicine & Genetics, Samsung Changwon Hospital, Sungkyunkwan University School of Medicine

²Department of Laboratory Medicine & Genetics, Samsung Medical Center, Korea

³Department of Laboratory Medicine, Myongji Hospital, Hanyang University College of Medicine, Korea

PP10-06 Novel factor VII gene mutations in six families with hereditary coagulation factor VII deficiency

Xiaoyu Zhanq¹ and Jun Peng¹

¹Department of Hematology, Qilu Hospital, Cheeloo College of Medicine, Shandong University, China

PP10-07 Red blood cell deformability and distribution width in patients with hematologic neoplasms

Yu Kyung Kim^{1*}, Jae Min Lee² and Jang Soo Suh¹

¹Laboratory medicine, Kyungpook National Üniversity School of Medicine, Korea

²Pediatric hematology, Yeungnam University College of Medicine, Korea

PP10-08 Establishment of reference intervals in Malaysia: A performance evaluation and comparison of haematological parameters between Sysmex XE5000 and XN3000

Siew Lian Chong

Department of Hematology, Hospital Ampang, Selangor, Malaysia

PP10-09 Label-free rapid differential diagnosis of lymphocyte and leukemic blast using optical diffraction tomography

Nuree Park¹, Hyunji Kim² and Seongsoo Jang^{1,2}

Laboratory of Clinical Research Center, Asan Institute for Life Science, Asan Medical Center, University of Ulsan College of Medicine, Korea
Department of Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP10-10 Determination of reference range (Based on CLSI) leukocyte parameters for Indonesian subject

Adika Zhulhi Arjana^{1*}, Ninda Devita², Sri Irianti¹ and Tri Ratnaningsih¹

¹Clinical Pathology and Laboratory Medicine, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia ²Biomedical Sciences Programmes, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia

PP10-11 Blood smear pitfall of platelet count confirmation examination: A case study

Adika Zhulhi Arjana¹, Ninda Devita² and Usi Sukorini¹

¹Clinical Pathology and Laboratory Medicine, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia ²Biomedical Sciences Programmes, Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia

PP10-12 Effectivenes of quality assessment program for blood smear examination

Nhu Cao Thi Bich¹, Son Nguyen Truong¹, Oanh Le Hoang¹, Tung Tran Thanh¹, Thao Nguyen Van¹, Thao Nguyen Thi¹ and Huy Vu Quang² CHO RAY Hospital, Ho Chi Minh City University of Medicine and Pharmacy, Viet Nam

²The Quality Control Centre Medical - University of Medical and Pharmacy Ho Chi Minh City, Ho Chi Minh City University of Medicine and Pharmacy, Viet Nam

PP10-13 A meta-analysis on the role of the -308 G/A polymorphism of the TNF-α gene with malaria susceptibility

Raphael Enrique Tiongco^{1*}, Ivy Cayabyab¹, Benjie Clemente², Chastene Christopher Flake¹, Dianne Dizon¹, Joey Kyle Mallari¹ and Maria Ruth Pineda-Cortel^{2,3}

Department of Medical Technology, College of Allied Medical Professions, Angeles University Foundation, Angeles City, Philippines

²Department of Medical Technology, Faculty of Pharmacy, University of Santo Tomas, Manila, Philippines

³Research Center for the Natural and Applied Sciences, University of Santo Tomas, Manila, Philippines

PP11-01 Hemoglobin polygenic risk score as a tool in elucidating the causal role of elevated iron status on cardiometabolic outcomes in Taiwan Han Chinese

Vanessa Joy Timoteo^{1*}, Kuang-Mao Chiang² and Wen-Harn Pan²

National Yang-Ming University and Institute of Biomedical Sciences-Academia Sinica, Taiwan International Graduate Program in Molecular Medicine, Rep of China (Taiwan)

²Academia Sinica, Institute of Biomedical Sciences, Rep of China (Taiwan)

PP11-02 Association of the V736A polymorphism in the TMPRSS6 gene with the risk of developing iron deficiency anemia: A meta-analysis

<u>Chastene Christopher Flake</u>^{1,2*}, Marlex Lee Sanchez^{1,3}, Maurice Russel Espino^{1,2,4}, Jemimah Suba^{1,5}, Jane Nicolas^{1,6}, Michelle Bautista^{1,7} Angelica Gueco¹, Allena Milan^{1,8}, Raphael Enrique Tiongco² and Annalyn Navarro^{1,2}

¹Public Health Program, Graduate School, Angeles University Foundation, Philippines

²Department of Medical Technology, College of Allied Medical Professions, Angeles University Foundation, Philippines

³Department of Medical Technology, College of Our Lady of Mt. Carmel, Philippines

⁴Department of Pathology, The Medical City Clark Inc, Philippines

⁵Laboratory Department, Singapore Medical Laboratories Inc., Philippines

⁶Laboratory Department, Legacy Diagnostic Center, Philippines

Regional Voluntary Blood Service Program, Department of Health-Central Luzon Center for Health Development, Philippines

⁸Department of Medical Technology, Central Luzon Doctors' Hospital Educational Institution, Philippines

PP11-03 Sickle cell anemia: A risk factor for craniofacial abnormalities and dental malocclusion— A systematic review

Vaibhav Gupta^{1*}, Amar Ranjan² and Poonam Goel ¹Laboratory Oncology, Research Fellow, AllMS, India ²Laboratory Oncology, Additional Professor, AllMS, India

PP11-04 The prevalence of thalassemia in Bangladesh: Evidence from a molecular study

Md Abdullah Al Maruf¹ and Farhana Sultana Mitu²

¹Department of Health Technology & Informatics, The Hong Kong Polytechnic University, Hong Kong

²Department of Biotechnology & Genetic Engineering, Islamic University, Bangladesh

PP11-05 A comprehensive study of prevalence and distribution of anaemia among OPD patients visiting Integral Institute of Medical Sciences Research & Hospital, Lucknow

Smriti Rastogi^{1*} and Narsingh Verma¹
¹Physiology, King George's Medical University, India

PP11-06 Assessment of knowledge, attitude and practices on iron-deficiency anemia among Filipino teens in Laguna, Philippines

Cherry Ann Durante^{1,2*} and Estrella San Juan

Nursing, University of Perpetual Help - Dr. Jose G Tamayo Medical University, Philippines

²Public Health Nutrition, University of the Philippines, Philippines

PP11-07 The characteristics of anemia among patients with diabetic foot infection admitted to Dr. Hi. Abdul Moeloek General Hospital,

Lampung, Indonesia

Gusti Ngurah P Pradnya Wisnu 1^{*}, Iswandi Darwis 1 and Sekar Mentari 1 Internal Medicine, Dr. Hi. Abdul Moeloek General Hospital, Indonesia

PP11-08 Protein, iron, and vitamin C intake with anemia in adolescent girls in Yogyakarta city

Destriyani Destriyani

Nutrition, Pambusuang Primary Health Center, Indonesia

PP11-09 Screening of MT-CO3 gene mutations for sickle cell anaemia in tribes from Tamil Nadu, South India

Balachandar Vellingiri^{1*}, Nimmisha Eruppakotte¹, Dhivya Venkatesan¹ and Soumya Kizhakkillach

¹Human Molecular Cytogenetics and Stem Cell Laboratory, Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore 641046,

PP11-10 Identifications of β-globin gene mutations among the sickle cell anaemia patients from the tribes of Coimbatore, Tamil Nadu

²Department of Zoology, Bharathiar University, Coimbatore 641046, Tamil Nadu, India

PP11-12 Risk factor for anemia in infancy: A literature review

Nuraliah Nuraliah

Public Health, West Sulawesi Research and Empowerment Center, Indonesia

PP11-13 Compliance of consuming iron tablets and anemia cases in pregnant women

Nuraliah Nuraliah

Public Health, West Sulawesi Research and Empowerment Center, Indonesia

PP11-14 Coping strategy in preventing anemia: Case study of Indonesian pregnant women on WhatsApp groups

Mahyuddin Mahyuddin^{1*} and Kadriah Kadriah² Sociology, State Islamic Institute of Parepare, Indonesia

²Public Health, Al Asyariah Mandar University, Indonesia

PP11-15 Relationship of economic status with the occurrence of anemia in the third trimester of pregnant women at Caile Health Center, Bulukumba Regency, South Sulawesi

Sahnaz Vivinda Putri^{1*} and Rosmani Bahtiar

Management, International University Semen Indonesia, Indonesia ²Community Nutrition, Bulukumba Caile Health Center, Indonesia

PP11-18 The influence of health and socio-economic factors on prevalence of anemia among children in six countries based on income

<u>Putri Ayu</u>^{1*} and Ade Kartikasari Sebba² ¹Economics, Andalas University, Indonesia ²Health, Universitas Gadjah Mada, Indonesia

PP11-19 Effect of lavandula officinalis leaves ethanolic extract on hematological and biochemical parameters in male rats

Ankit Jain 1* and DK Singh

¹Pharmaceutical Sciences, D. Y. Patil Institute of Pharmaceutical Sciences and Research, India

PP11-20 Study of punica granatum (pomegranate) seed oil extract in phenylhydrazine induced-anemia in
--

Rohit Kumar^{1*} and Madhu Vati¹

Applied Sciences, HMFA Memorial Institute of Engineering and Technology, India

PP11-21 Anemia in pregnancy: Risk factors influencing age and level of education among mothers in Sawangan healthcare center

Fitri Rachmawati Putri

General Practitioner, Medika Mulya Hospital, Indonesia

PP11-22 Automatic anemia identification based on machine learning on red blood cell image

Rifaldy Fajar^{1*} and Nana Indri Kurniastuti

¹Computational Biology Laboratory, Yogyakarta State University, Indonesia

PP11-23 Pregnant women, health crisis and hemogoblin detect in the age of COVID-19 in Indonesia

Kadriah Kadriah

Public Health, Alasyariah Mandar University, Indonesia

PP11-24 A case of acute intermittent porphyria in a young woman with epilepsy

Sanka Vijayabandara

Teaching Hospital karapitiya, Galle, Consultant Physician, Sri Lanka

PP12-02 A delayed presentation of neonatal alloimmune thrombocytopenia (NAIT): A case report

Jian An Boo

Paediatric, Hospital Sultanah Bahiyah Alor Setar, Malaysia

PP12-03 Treatment outcomes and profile of patients with immune thrombocytopenia at a tertiary hospital: The TOP-IT study

Rmin Sheila Miranda

Hematology, Philippine General Hospital, Philippines

PP12-05 A study on the association of immune thrombocytopenia with viral infection through public health data analysis

Yu Kyeong Kim², So Hyeon Min², Jae Hee Lim², Young Hwan Lee¹ and Jae Min Lee¹

Pediatrics, College of medicine, Yeungnam University, Korea

²Medicine, College of Medicine, Yeungnam University, Korea

PP12-06 Efficacy of Helicobacter pylori eradication for the treatment of chronic or persistent immune thrombocytopenia patients with moderate thrombocytopenia: multicenter prospective randomized phase 3 study

Boram Han¹, Hyo Jung Kim¹, Ho-Young Yhim², Doyeun Oh³, Sung Hwa Bae⁴, Ho-Jin Shin⁵, Won-Sik Lee⁶, JiHyun Kwon⁷, Hwa Jung Kim⁸, Jeong-Ok Lee⁹ and Soo-Mee Bang⁹

¹Department of Internal Medicine, Hallym University Sacred Heart Hospital, Korea

²Department of Internal Medicine, Jeonbuk National University Hospital, Korea

³Department of Internal Medicine, CHA Bundang Medical Center, CHA University, Korea

⁴Department of Internal Medicine, Daegu Catholic University Hospital, Korea

⁵Department of Internal Medicine, Pusan National University Hospital, Pusan National University School of Medicine, Korea

⁶Department of Internal Medicine, Inje University Busan Paik Hospital, Korea

 7 Department of Internal Medicine, Chungbuk National University Hospital, Chungbuk National University College of Medicine, Korea

[®]Department of Clinical Epidemiology and Biostatistics, Department of Prevention Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

⁹Department of Internal Medicine, Seoul National University Bundang Hospital, Korea

PP12-07 Clinical outcomes after splenectomy for relapsed or refractory immune thrombocytopenia according to first-line intravenous immunoglobulin response

Daehun Kwag¹², Jae-Ho Yoon^{12*}, Gi June Min¹², Sung-Soo Park¹², Silvia Park¹², Sung-Eun Lee¹², Byung-Sik Cho¹², Ki-Seong Eom¹², Yoo-Jin Kim¹², Hee-Je Kim¹², Seok Lee¹², Chang-Ki Min¹², Seok-Goo Cho¹, Dong-Wook Kim¹² and Jong Wook Lee¹

Department of Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

²Leukemia Research Institute, College of Medicine, The Catholic University of Korea, Seoul, Korea

PP12-08 An escalating treatment strategy for children with severe chronic immune thrombocytopenia: The preliminary report from a single-

Lingling Fu¹, Runhui Wu^{1*}, Jie ma¹, Hao Gu¹ and Jingyao Ma¹

Hematology Oncology Center, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing Key Laboratory of Pediatric Hematology Oncology; National Key Discipline of Pediatrics (Capital Medical University); Key Laboratory of Major Diseases in Children, Ministry of Education, China, 100045, China

PP12-10 An intronic variant at a splice-site (c.5170+5G>A) of VWF gene causes exon 29 skipping in a patient with von Willebrand disease

Ye Jee Shim¹ and Jae Min Lee²

TDepartment of Pediatrics, Keimyung University School of Medicine, Keimyung University Dongsan Hospital, Daegu, Korea

²Department of Pediatrics, Yeungnam University College of Medicine, Daegu, Korea

PP12-12 Performance evaluation of coaguchek pro II in comparison with CoaguChek XS Plus and STA-R Max Analyzer

Minieong Nam

Department of Laboratory Medicine, Konkuk University Medical Center. Korea

PP12-13 Promotion of platelet production by cotransplatation of tonsil-derived mesenchymal stem cells in allogeneic bone marrow transplantation mouse model

Yu-Hee Kim¹, Hyun-Ji Lee¹ and Kyung-Ha Ryu^{2*}

Department of Microbiology, Ewha Womans University College of Medicine, Korea

²Department of Pediatrics, Ewha Womans University College of Medicine, Korea

PP12-14 Extended platelet parameters on COVID-19

Usi Sukorini^{1*}, Tri Ratnaningsih¹, Ika Ridlawati¹, Adika Zhulhi Arjana¹ and Annisa Ginar Indrarsi¹

¹Clinical Pathology and Laboratory Medicine, Dr. Sardjito Hospital/Faculty of Medicine Public Health and Nursing, Universitas Gadjah Mada, Indonesia

PP13-01 Low survival rate in patients with veno-occlusive disease whose creatinine levels have already begun to increase when defibrotide is administered

Seom Gim Kong¹, Je-Hwan Lee², Young Tak Lim³, Ji Hyun Lee⁴, Hyeon-Seok Eom⁵, Hyewon Lee⁵, Do Young Kim⁶, Sung-Nam Lim⁷, Sung-Soo Yoon⁸, Sung-Yong Kim⁹ and Ho Sup Lee^{10*}

¹Department of Pediatrics, Kosin University College of Medicine, Korea

²Department of Internal Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

³Department of Pediatrics, Pusan National University School of Medicine, Korea

⁴Department of Internal Medicine, Dong-A Medical Center, Dong-A University College of Medicine, Korea

⁵Department of Internal Medicine, National Cancer Center of Korea, Korea

⁶Department of Internal Medicine, Pusan National University Hospital, Korea

⁷Department of Internal Medicine, Haeundae Baek Hospital, Korea

⁸Department of Internal Medicine, Seoul National University Hospital, Korea

⁹Department of Internal Medicine, Konkuk University Medical Center, Korea

¹⁰Department of Internal Medicine, Kosin University College of Medicine, Korea

ABO incompatibility and outcomes of allogeneic hematopoietic stem cell transplantation

<u>Jun-Hong Park</u>', Je-Hwan Lee¹', Kyoo-Hyung Lee¹, Jung-Hee Lee¹, Han-Seung Park¹, Eun-Ji Choi¹, Young-ah Kang¹, Hyeran Kang¹, Jimin Woo¹, Youngshin Lee¹ and Mijin Jeon¹

Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

PP13-03 DEFIFrance registry study: Defibrotide treatment of veno-occlusive disease/sinusoidal obstruction syndrome after hematopoietic cell transplantation

Mohamad Mohty¹, Ibrahim Yakoub-Agha², Myriam Labopin¹, Didier Blaise³, Delphine Lebon⁴, Virginie Gandemer⁵, Sébastien Maury⁶, Charlotte Jubert⁷, <u>Janet Pong</u>^{8*}, Robert J. Ryan⁹, Jean-Hugues Dalle¹⁰ and Régis Peffault de Latour¹¹

Department of Clinical Hematology and Cellular Therapy, Hôpital St Antoine, Sorbonne University, INSERM UMRs 938, Paris, France

²Department of Hematology, CHU de Lille, Univ Lille, INSERM U1286, Infinite, 59000 Lille, France

³Department of Hematology, Institut Paoli-Calmettes, Aix Marseille Univ, CNRS, INSERM, CRCM, Marseille, France

⁴Department of Clinical Hematology, CHU Amiens Picardie Hôpital, Amiens, France

⁵Department of Pediatric Hematology/Oncology, University Hospital of Rennes, Rennes, France

⁶Department of Clinical Hematology, Hôpital Henri Mondor, Université Paris-Est Créteil Val de Marne (UPEC), Créteil, France

⁷Department of Clinical Hematology, Hopital des Enfants, Bordeaux, France

8 International and Partner Markets, Jazz Pharmaceuticals, Oxford, UK

⁹Biostatistics, Jazz Pharmaceuticals, Philadelphia, PA, USA

¹⁰Pediatric Hematology and Immunology Unit, Hôpital Robert-Debré, GHU APHP Nord and Université of Paris, Paris, France

¹¹Hematology and Bone Marrow Transplant Department, Hôpital Saint-Louis, Paris, France

PP13-04 Haploidentical hematopoietic stem cell transplantation for malignant infantile osteopetrosis and intermediate osteopetrosis: A retrospective analysis of a single-center

Ang Wei¹, Guanghua Zhu^{1*} and Tianyou Wang

¹Hematology Oncology Center, Beijing Children's Hospital, Capital Medical University, China

PP13-05 Outcome of allogenic hematopoietic stem cell transplantation in chronic granulomatous disease: A single center experience of 31 patients

<u>Hyun Jin Park</u>¹, Kyung Taek Hong¹, Jung Yoon Choi¹, Hong Yul An¹, Bo Kyung Kim¹, Hee Young Shin¹ and Hyoung Jin Kang¹ʾ ¹Department of Pediatrics, Seoul National University College of Medicine, Korea

PP13-06 Benefit of leukemia induction treatment and allogeneic stem cell transplantation for blastic plasmacytoid dendritic cell neoplasm

<u>Ji Hyun Lee</u>¹, Seok Jin Kim^{2*}, Won Seog Kim², Dok Hyun Yoon³, Cheolwon Suh³, Youngil Koh⁴, Sung-Soo Yoon⁴, Ja Min Byun⁴, Hyeon Seok Eom⁵, Hyewon Lee⁵, Jong Ho Won⁶, Ho Sup Lee⁷, Deok-Hwan Yang⁸, Ho-Young Yhim⁹, Ji Yun Lee¹⁰, Jae-Cheol Jo¹¹ and Yoo Jin Lee¹¹

¹Department of Internal Medicine, Dong-A University College of Medicine, Korea

²Department of Medicine, Samsung Medical Center, Sunkyunkwan, University School of Medicine, Korea

³Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Korea

 4 Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Korea

⁵Department of Internal Medicine, National Cancer Center of Korea, Korea

⁶Department of Internal Medicine, Soonchunhyang University Seoul Hospital, Soonchunhyang University College of Medicine, Korea

⁷Department of Hematology and Oncology, Kosin University Gospel Hospital, Korea

⁸Department of Internal Medicine, Chonnam National University Medical School, Korea

Department of Internal Medicine, Chonbuk National University Medical School, Korea

 0 Department of Hematology-Oncology, Department of Internal Medicine, Seoul National University Bundang Hospital, Korea

¹¹Department of Hematology and Oncology, Ulsan University Hospital, University of Ulsan College of Medicine, Korea

PP13-07 Evaluation of the bacterial and fungal infection status in hematopoietic stem cell transplantation patients in HCMC blood transfusion and hematology hospital

Man Huynh Van

Stem Cell Transplantation, Blood Transfusion and Hematology Hospital, Viet Nam

PP13-08 Outcome of BK virus induced hemorrhagic cystitis in children undergoing haploidentical stem cell transplant with post transplant cyclophosphamide

Rohit Kapoor^{1*}, Dhwanee Thakkar¹, Goutomi Chatterjee¹, Neha Rastogi¹ and Satya Prakash Yadav¹

Pediatric Hematology Oncology and Bone Marrow Transplant Unit, Cancer Institute, Medanta The Medicity Hospital, Gurgaon, Haryana, India 122001., Medanta The Medicity Hospital, Gurgaon, Haryana, India 122001.

PP13-09 Predictive model by machine learning through repetitive internal validation for hepatic SOS/VOD and early death after allogeneic-HCT

<u>Jae-Ho Yoon</u>^{1*}, Seung-Joon Lee³, Eun-Saem Lee², Sung-Soo Park¹, Min-Sue Park², Jae-Woo Jung³, Gi June Min¹, Siolvia Park¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Hee-Je Kim¹, Chang-Ki Min¹, Seok-Goo Cho¹, Jong Wook Lee¹ and Hyung-Ju Hwang^{2,3}

Department of Hematology, Catholic Hematology Hospital and Leukemia Research, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

²Department of Mathematics, Pohang University of Science and Technology, Pohang, Korea

³AMSquare Corporation, Pohang, Gyeongbuk, Korea

PP13-10 Metabolic syndrome as a recognized complication after allogeneic haematopoietic stem cell transplantation: A single Asian institute experience

Ching Soon Teoh^{1*} and Ai Sim Goh¹

¹Haematology Unit, Internal Medicine, Hospital Pulau Pinang, Malaysia

PP13-11 Efficacy of entecavir versus lamivudine prophylaxis in preventing hepatitis B virus reactivation in patients with allogeneic stem cell transplant

Dexton Johns

Clinical Research, National Medicity Hospital, India

PP14-01 Single-cell characterization of hematopoietic stem and progenitor cells in immune thrombocytopenia

Yan Liu '2 and Jun Peng'

¹Department of Hematology, Qilu Hospital of Shandong University, China

²Medical department, Shandong University, China

PP14-02 SETDB1, histone methyltransferase maintains blood cell homeostasis by modulating the differentiation into cancerous blood cells

Indira Paddibhatla^{1*}, Dushyant Gautam¹, Isabel Aymanns² and Ravi Gutti¹

Department of Biochemistry, University of Hyderabad, India

²Department of Life Sciences, Westfälische Wilhelms - Universität, Münster, Germany

PP14-03 CH223191, a potent aryl hydrocarbon receptor antagonist promotes the expansion of HPCs and megakaryocyte

Dongchan Kim¹², Dong-Yeop Shin^{123*}, Jun Liu¹², Na-Rae Jeong¹², Youngil Koh¹²³, Junshik Hong¹²³ and Sung-Soo Yoon¹²³

Cancer Research Institute, Seoul National University College of Medicine, Korea

²Center for Medical Innovation of Biomedical Research Institute, Seoul National University Hospital, Korea

³Department of Internal Medicine, Seoul National University College of Medicine, Korea

PP14-04 Clonal hematopoiesis in cardio-cerebrovascular diseases

Jin-Yeong Han^{1*}, Min-Sun Kwak¹, Ji-Hyun Lee², Sung-Hyun Kim³ and Moo-Hyun Kim³

¹Laboratory Medicine, Dong-A University College of Medicine, Korea ²Hematooncology, Dong-A University College of Medicine, Korea ³Cardiology, Dong-A University College of Medicine, Korea

PP14-05 Sivelestat-loaded nanostructured lipid carriers modulate oxidative and inflammatory stress in human dental pulp and mesenchymal stem cells subjected to oxygen-glucose deprivation

Anas Ahmad

Nano-Therapeutics, Institute of Nano Science and Technology, India

PP15-01 A combination of immunoadjuvant nanocomplex and dendritic cell vaccine in the presence of immune checkpoint blockade for effective cancer immunotherapy

Manh-Cuong Vo^{1,2}, Seo-Yeon Ahn¹, Tan-Huy Chu², Saji Uthaman³, Shammer Pillarisetti⁴, Thangaraj Jaya Lakshmi², Mihee Kim¹, Ga-Young

Song¹, Sung-Hoon Jung¹, Deok-Hwan Yang¹, Jae-Sook Ahn¹, Hyeoung-Joon Kim¹, In-Kyu Park⁴ and Je-Jung Lee¹

¹Hematology-Oncology, Chonnam National University Hwasun Hospital, Hwasun, Jeollanamdo, Korea

 2 Research Center for Cancer Immunotherapy, Chonnam National University Hwasun Hospital, Hwasun, Jeollanamdo, Korea

³Department of Polymer Science and Engineering, Chungnam National University, Korea

⁴Department of Biomedical Science, Chonnam National University Medical School, Korea

PP15-02 Production and in vivo evaluation of chimeric antigen receptor (CAR)-γδT cells

Minsong Kim¹, Hyori Kim¹, Hyun Ju Hwang¹, Eun Seok Choi², Ho Joon Im², Nayoung Kim¹ and Kyung-Nam Koh^{2*}

Asan Institute for Life Sciences and Department of Convergence Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

²Department of Pediatrics, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP16-01 ABO blood groups may play a role in the development of dengue hemorrhagic fever: A meta-analysis

Archie Policarpio¹, Imoan Shallom Aguas¹, Marc Nicole Mercado², Regine Gonzales³, Czar Kenneth Sarmiento⁴, Mark Aaron Buan⁵, Jenny

David⁶, Raphael Enrique Tiongco¹ and Annalyn Navarro⁷

¹Department of Medical Technology, Angeles University Foundation, Philippines

²College of Medical Laboratory Science, Our Lady of Fatima University Pampanga Campus, Philippines

³Pathology Department, Philippine Rehabilitation Institute Medical Center, Philippines

Department of Clinical Pathology, The Medical City Clark, Philippines

⁵Laboratory Department, Rafael Lazatin Memorial Medical Center, Philippines

⁶Central Luzon Center for Health and Development, Department of Health, Philippines

⁷Graduate School, Angeles University Foundation, Philippines

PP16-02 Transfusion of the least-incompatible blood with intravenous immunoglobulin and steroid to a patient with anti-Fy(a)

<u>Joonsang Yu</u>¹, Jin Seok Kim¹, John Jeongseok Yang¹, Sang-Hyun Hwang¹, Heung-Bum Oh¹ and Dae-Hyun Ko¹

¹Department of Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

PP16-03 The benefit of lekodepleted PRC transfusion for biliary patient after Kasai procedure

Adika Zhulhi Arjana¹ and Teguh Triyono¹

¹Clinical Pathology and Laboratory Medicine, Universitas Gadjah Mada, Indonesia

PP16-04 A comparative evaluation of effect of DTT and heat on ABO isoagglutinin titers in 2005 group O donors

<u>Divya Setya</u>¹, Prashant Pandey^{1*}, Shweta Ranjan¹ and Supriya Sharma

¹Transfusion Medicine, Jaypee Hospital Noida, India

PP16-06 Does Rh and Kell phenotyping of donor units complement type and screen method of compatibility testing?

<u>Prashant Pandey</u>^{1*}, Divya Setya¹, Shweta Ranjan¹ and Supriya Sharma¹

¹Transfusion Medicine, Jaypee Hospital Noida, India

PP16-07 Convalescent plasma therapy in severe to critical COVID-19 patients in the De La Salle University Medical Center: A case series Alyssa Alessandra Hubo¹ and Camille Ariadne Tanchanco¹

¹Internal Medicine, De La Salle University Medical Center, Philippines

PP16-08 Transfusion in coronavirus disease 2019 patients: A preliminary study in tertiary hospital in Daegu

Hyung Woo Kim¹, Mikyoung Park^{1*}, Chae Hoon Lee¹, Jong Ho Lee¹, Hee-Jung Chung² and Mina Hur²

Department of Laboratory Medicine, Yeungnam University College of Medicine, Daegu, Korea
Department of Laboratory Medicine, Konkuk University School of Medicine, Seoul, Korea

PP16-09 Does ABO grouping have an association with severity and distribution of COVID-19? A cross sectional study

Elaina Pasangha¹, Arkadeep Dhali¹, Christopher D'Souza¹ and Soumya Umesh²

¹Internal Medicine, St John's Medical College, India

PP17-01 Information is power: Hoax news and celebrity health prompt Indonesian audience into finding out more about leukemia

Khariz Fahrurrozi^{1*}, Ibnu Agus Aryanto² and Agus Jati Sunggoro³

¹Emergency Departement, RSU Islam Klaten, Indonesia

²Virology and Cancer Pathobiology Research Center, Universitas Indonesia, Indonesia

³Internal Medicine Departement, RSUD Dr. Moewardi, Indonesia

PP17-02 Clinical characteristic in cancer patients with febrile neutropenia at Sanglah General Hospital, Denpasar – Bali Indonesia

Joko Anggoro^{1*}, Ketut Suega², Tjok Gde Dharmayuda², Wayan Losen Adnyana² and Ni Made Renny Anggreni Rena²

¹Hematology and Oncology Division Department of Internal Medicine, University of Mataram, Mataram, Indonesia ²Hematology and Oncology Division Department of Internal Medicine, University of Udayana, Denpasar, Indonesia

PP17-03 COVID-19 infection in hematological patients: Results of a prospective cohort study

<u>Igor Stoma</u>^{1*}, Maryia Shapetska² and Igor Iskrov²

Infectious Diseases, Gomel state medical university, Belarus

²Hematology №3, Minsk Scientific and Practical Center of Surgery, Transplantology and Hematology, Belarus

PP18-01 Vitamins: A cure for oral mucositis induced by cancer chemo/ radiotherapy – A meta-analysis of RCTs

Poonam Goel1*, Amar Ranjan1 and Vaibhav Gupta1

¹Laboratory Oncology, AIIMS, India

PP18-02 Self-care behavior: Support for improving a quality of life in patients thalassemia in Indonesia

Mega Dwi Septivani^{1*} and Indra Suwardi¹

¹Department of Science Management, Universitas Gadjah Mada, Indonesia

²Department of Midwifery, Hasanuddin University, Makasar, Indonesia

PP18-03 Epidemiological burden of anemia and its impact on the quality of life in diabetic kidney disease patients

Salman Hussain

Department of Pharmaceutical Medicine, Jamia Hamdard, India





PRESCRIBING INFORMATION [控星性품및 工론점]이 약 접순 중 10.2 mg 유용성분 역사조및시트웨어트 (변규) 3.2 mg 유용성분 역사조및시트웨어트 (변규) 4.3 mg (약사조및) 2.2 mg 사주를 2.2 mg 사주를 2.2 mg 사주를 2.2 mg 사주를 2.2 mg 유용성분 역사조및시트웨어트 (변규) 4.3 mg (약사조및) 2.2 mg 사주를 2.2 mg 사수를 2.











Chronic Immune Thrombocytopenia (cITP)

treatment of adult cITP patients who have had an insufficient response to corticosteroids, immunoglobulines, or splenectomy

- ► Rapid and Sustained Platelet Response
- ► Improved Patients' Quality of Life
- ► Established Long-term Safety Profile

Severe Aplastic Anemia [SAA]

treatment of sAA patients who have had an insufficient response to immunosuppressive therapy

- ► Improved hematologic responses
- Decreased transfusion dependency
- ► Non-immunosuppressive, Non-invasive

Multicenter, open-label, randomized phase 1b/2 trial to evaluate safety and antitumor activity of polatuzumab in DLBCL in combination with BR. The phase 2 part of the study randomised 80 patients to receive either BR, or BR in combination with polatuzumab for six 21-day cycles. Eligible patients had relapsed/refractory DLBCL after ≥ 1 prior line of therapy and were not candidates for hematopoietic stem cell transplant. The primary endpoint was complete response (CR) assessed by an independent review committee

For previously treated R/R DLBCL who are not eligible for HSCT

FOR SURVIVAL

References. Sehn LH, Herrera AF, Flowers CR, et al. Polatuzumab Vedotin in Relapsed or Refractory Diffuse Large B-Cell Lymphoma. J Clin Oncol. 2020 Jan 10;38(2):155-165

CR

POLIVY+BR

P=0.026

ORR

mPFS

POLIVY+BR

BR

(HR, 0.36; 95% CI, 0.21 to 0.63; P<.001)1,*

폴라이비® + BR 병용요법 및 BR요법에서 median OS는 각각 12.4개월, 4.7개월이었습니다.

(Exploratory analysis, HR=0.42; 95% CI, 0.24-0.75; P=0.002) †

Median observation time: 22 months

* As defined by an IRC.

†Stratification by duration of response to prior therapy (<12 months vs >12 months).

BR=bendamustine and rituximab; Cl=confidence interval; CR=complete response; mPFS=median Progression Free Survival; HR=hazard ratio; ORR=overall response rate; OS=overall survival; **DLBCL**=Diffuse Large B-cell Lyphomal; **HSCT**=Hematopoietic Stem Cell Transplantation; **R/R**=Refractory/Relapse.

> Polivy-2020-10-27-1.0 M-KR-00000496



레블리미드[®]과 리툽시맙의 병용으로 재발 또는 불응성 소포림프종 환자의 생존기간을 향상시켰습니다.

Leonard JP, Trneny M, Izutsu K, et al. AUGMENT: A Phase III Study of Lenalidomide Plus Rituximab Versus Placebo Plus Rituximab in Relapsed or Refractory Indolent Lymphoma. *J Clin Oncol.* 2019 May 10;37(14):1188-1199.

- A phase III, multicenter, randomized trial of lenalidomide plus rituximab versus placebo plus rituximab in patients with relapsed and/or refractory follicular or marginal zone lymphoma
- Progression-free survival was significantly improved for lenalidomide plus rituximab versus placebo plus rituximab, with a hazard ratio of 0.46 (95% CI, 0.34 to 0.62; P, .001) and median duration of 39.4 months (95% CI, 22.9 months to not reached) versus 14.1 months (95% CI, 11.4 to 16.7 months), respectively.



레블리미드®캡슐 (레날리도마이드) 2.5 mg/5 mg/7.5 mg/10 mg/15 mg/20 mg/25 mg



FN Prophylaxis through every cycle

Neulasta® used first and every cycle

helps reduce the incidence of febrile neutropenia



전문의약품





APPROVED ON MARCH 6TH, 2020 IN KOREA

XOSPATA gilteritinib

First Approved* FLT3 Inhibitor Indicated for Adult Patients with Relapsed or Refractory FLT3m+AML^{¶,1}

9.3 vs. 5.6 months²

median OS

XOSPATA® (95% CI: 7.7, 10.7) vs. salvage chemotherapy (95% Cl: 4.7, 7.3)

HR=0.64 (95% CI: 0.49, 0.83); p<0.001

34.0% (n=84/247)²

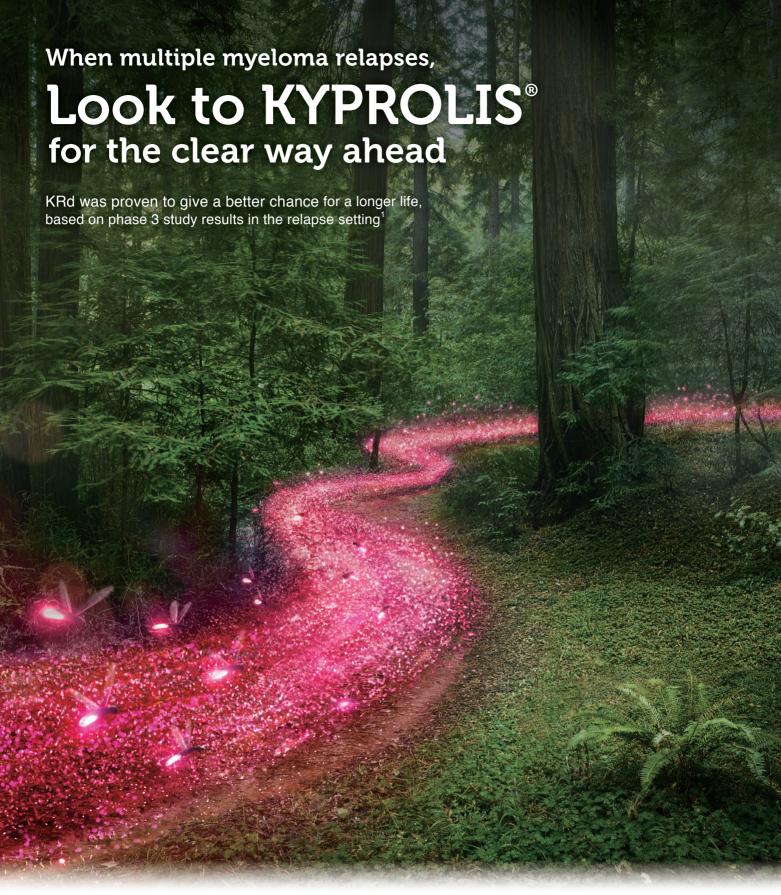
CR[†]/CRh[‡]

Risk difference (95% CI) : 18.6 (9.8-27.4)

mDOR=11 months (4.6-NE)²



Immune system disorders			
Anaphylactic reaction	1.3	1.3	Common
Investigations			
Alanine aminotransferase increased*	82.1	12.9	Very common
Aspartate aminotransferase increased*	80.6	10.3	Very common
Blood alkaline phosphatase increased*	68.7	1.6	Very common
Blood creatine phosphokinase increased*	53.9	6.3	Very common
Musculoskeletal and connective tissue disorders			
Pain in extremity	14.7	0.6	Very common
Arthralgia	12.5	1.3	Very common
Myalgia	12.5	0.3	Very common
Musculoskeletal pain	4.1	0.3	Common
Nervous system disorders			
Dizziness	20.4	0.3	Very common
Posterior reversible encephalopathy syndrome	0.6	0.6	Uncommon
Renal and urinary disorders			
Acute kidney injury	6.6	2.2	Common
Respiratory, thoracic and mediastinal disorders			
Cough	28.2	0.3	Very common
Dyspnea	24.1	4.4	Very common
Differentiation syndrome	3.4	2.2	Common
Vascular disorders			
Hypotension	17.2	7.2	Very common
Preferred term in MedDRA (v. 19.1). * Frequency is based on central laboratory values.			



KRd, Kyprolis® (carfilzomib)+lenalidomide+dexamethasone.

Reference 1. Siegel DS, et al. J Clin Oncol. 2018;36(8):728-734.







For MCL, CLL Patients

THE FIRST DRAL BTK TARGET AGENT IMBRLIVICA



IMBRUVICA®(ibrutinib) works differently than chemotherapy by inhibiting Bruton's tyrosine kinase (BTK)

- BTK is an important component of the BCR and cytokine receptor athways, playing an essential role in regulating B-cell survival and proliferation 1-4
- IMBRUVICA is a small molecule that covalently binds to BTK, inhibiting BTK-dependent signaling pathways^{1,5,6}

IMBRUVICA® 140mg(ibrutinib)

IDOSAGE FORMS AND STRENGTHS] 1. DOSAGE FORMS IMBRUVICA capsules contain 140 mg of ibrutinib, 2. STRENGTHS White opaque, size 0, hard gelatin capsule marked with "ibr 140 mg" in black ink. [Indications] 1. Mantle cell lymphoma [MCL]: IMBRUVICA is indicated for the treatment of adult patients with MCL who have received at least one prior therapy. 2. Chronic lymphocytic leukemia (CLL): IMBRUVICA is indicated for the treatment of adult patients with CLL who have received at least one prior therapy [Dosage and Administration]IMBRUVICA should be administered orally once daily with a glass of water at approximately the same time each day. The capsules or tablets should be swallowed whole with water. Do not open, break, or chew the capsules. Do not break or chew the tablets. IMBRUVICA must not be taken with grapefruit juice. IMBRUVICA should continue until disease progression or no longer tolerated by the patient. 1. Mantle cell lymphoma (MCL) The recommended dose of IMBRUVICA for MCL is 560 mg once daily. 2. Chronic lymphocytic leukemia (CLL) The recommended dose of IMBRUVICA for CLL is 420 mg once daily [Warnings and Precautions] 1. Contraindications IMBRUVICA is contraindicated in patients who have known hypersensitivity [e.g., anaphylactic and anaphylactoid reactions] to ibrutinib or to the excipients in its formulation 2. Adverse Reactions Isolated cases of leukostasis have been observed. 1) Mantle cell lymphoma The most commonly occurring non-hematological adverse reactions for MCL [≥ 20%] were diarrhea, fatigue, nausea, angioedema, dyspnea, contusion, upper respiratory tract infection, vomiting. The most commonly occurring hematological adverse reactions for MCL [≥ 20%] were neutropenia, thrombocytopenia, anemia. 2. Chronic lymphocytic leukemia (CLL) The most commonly occurring adverse reactions for CLL [≥ 20%] were diarrhea, musculoskeletal pain, upper respiratory tract infection, bruising, rash, nausea, pyrexia, neutropenia and anemia. 3. Precautions 1) Bleeding-related events 2) Leukostasis 3) Infections 4)



FOR YOUR OPTIMAL TREATMENT IN HEMATOLOGY

혈액질환환자를위한 시로 떠장에 Sanofin 함께 하겠습니다.









the New Standard of Care for PNH



Selected prescribing information

* 보다 자세한 정보는 제품설명서를 참조하시기 바랍니다.







ICKSH 2022

2022 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 64th ANNUAL MEETING

March 31 - April 2, 2022 Grand Walkerhill Hotel, Seoul, Korea

















2021 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 62nd ANNUAL MEETING