CKSH 2022

2022 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 63rd ANNUAL MEETING

March 31 - April 2, 2022

VIRTUAL



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WELCOME MESSAGE

Dear Colleagues and Friends,

On behalf of the organizing committee, it is our great pleasure to invite you to participate in the 2022 Korean Society of Hematology (KSH) International Conference & 63rd Annual Meeting, hosted by KSH, from March 31 to April 2, 2022.

Held every year since 2018, the ICKSH conference shares up-to-date information and provides a unique opportunity for world class leaders in the field to debate vital and contentious issues in Hematology.

While many of us have endured personal and professional challenges over the course of the pandemic and the world is slowly taking the road to recovery, it remains our top priority and responsibility to ensure the health and safety of our participants. With this in mind, the ICKSH 2021 was held as a virtual event last year. Hoping to overcome all these difficulties, we are eagerly looking forward to meeting face to face in Seoul, Korea in the near future.

At the ICKSH 2022, our internationally renowned faculty will provide you with expert insights on the latest developments in benign hematologic diseases, various types of hematologic malignancies, coagulation/thrombosis related disorders and transfusion medicine, offering an unparalleled opportunity to explore the latest global updates.

We hope you to enjoy ICKSH 2022!



Dong-Wook Kim, MD., Ph.D. Congress Chair The Korean Society of Hematology



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

President

The Korean Society of Hematology

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Hallym University College of Medicine

PROGRAM AT A GLANCE Thursday, March 31

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4	
08:00- 09:00	Registration				
08:50- 09:00	Opening Remark				
09:00- 10:30	JS01 KAI-KSH Joint Session	SS01 Pediatric Disease	SS02 Lymphoma (1) - B cell / CLL	ES01 Platelet Disorder	
	Next generation CAR-T cell therapy against hematological malignancies (Kyungho Choi, Korea)	Primary immune regulatory disorder for the pediatric hematologist and oncologist (Shanmuganathan Chandrakasan, USA)	Molecular classification of diffuse large B-cell lymphoma and novel treatment strategies (Daisuke Ennishi, Japan)	Diagnostic work up of inherited platelet disorder (Bohyun Kim, Korea)	
	Effective conditioning regimen in adoptive T cell therapy of cancer (Chungyong Han, Korea)	Clonal evolution and somatic reversion in bone marrow failure	Novel immunotherapeutic antibodies for B-cell NHL	Recent advances in treatments of immune thrombocytopenia	
	Tissue resident memory T cells in multiple myeloma (Yoon Seok Choi, Korea)	(Akiko Shimamura, USA)	(Gilles Salles, USA)	(Dae Sik Kim, Korea)	
	T-cell-based immunotherapeutic strategies against EBV-positive malignancies using the novel TCR specific for LMP1 antigen (Tai-Gyu Kim, Korea)	Molecular landscape of pediatric AML (Soheil Meshinchi, USA)	Targeting B-cell receptor and BCL-2 in chronic lymphocytic leukemia (Susan M. O'Brien, USA)	Thrombocytopenia in pregnancy (Young Hoon Park, Korea)	
10:30- 11:15	PLENARY LECTURE I				
	Immune landscape of hematological malignancies and functional screening tools (Satu Mustjoki, Finland)				
11:15- 11:30	Break				

PROGRAM AT A GLANCE Thursday, March 31

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
11:30- 12:10	[Satellite] SY01 HANDOK	[Satellite] SY02 astellas	[Satellite] SY03 UNOVARTIS	[Satellite] SY04 Janssen
	What is the role of C5 inhibitors in PNH? (Jin Seok Kim, Korea)	Gilteritinib: ADMIRAL study and real world experience (Byung Sik Cho, Korea)	Role of CD19-directed CAR-T therapy in patients with DLBCL (Novartis Kymriah symposium) (Koji Izutsu, Japan)	Immunotherapy in multiple myeloma (Ajai Chari, USA)
12:10- 12:40		E-poster E	Exhibition	
12:40- 13:40	Young Investigator Presentation	OP01 AML, MDS	OP02 Lymphoma, Histiocytosis	OP03 Laboratory Hematology
13:40- 13:55		Bre	eak	
13:55- 15:25	AS01 Asian Session 1 - AA (13:55-14:55)	SS03 MPN	SS04 MM	ES02 AML
	Korean treatment guideline for aplastic anemia (Jun Ho Jang, Korea)	Recent advances in molecular diagnosis, prognosis and monitoring of MPNs (Myungshin Kim, Korea)	Evolution of myeloma from the normal plasma cell to disease complexity (Niccolo Bolli, Italy)	Human AML stem cell: evolution of concept (Dong-Yeop Shin, Korea)
	Aplastic anemia immunosuppressive therapy in China (Zhao Xin, China)	Molecular mechanisms underlying the development of MPN by	The power of ONE: immunology in the age of single cell genomics	Recent update of AML risk stratification (Hyoeun Shim, Korea)
	Clinical significance of detecting HLA-class I allele-lacking leukocytes in patients with aplastic anemia (Kohei Hosokawa, Japan)	mutant calreticulin and the therapeutic potential of an antibody targeting mutant calreticulin (Norio Komatsu, Japan)	(Ido Amit, Israel)	
		Targeting pro- inflammatory signaling, including IL8, in myelofibrosis: the pathway into the clinic (Andrew J. Dunbar, USA)	Clinical implication of immune network in multiple myeloma (Je-Jung Lee, Korea)	FLT3 mutated AML (Jae-Sook Ahn, Korea)

PROGRAM AT A GLANCE Thursday, March 31

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
15:25- 15:40	Break			
15:40- 17:10	JS02 KOGO-KSH Joint Session	SS05 CML	SS06 Cell Therapy/ Transplantation	ES03 Thrombosis/ Hemostasis
	Developing single-cell data integration pipeline to find novel cell types and gene markers for immune diseases (Jong-Eun Park, Korea)	Resistance mechanism in CML (Kimmo Porkka, Finland)	Immune landscapes and chemotherapy resistance in AML (Sergio Rutella, UK)	Advances in laboratory assessment in thrombosis/hemostasis (Jaewoo Song, Korea)
Detection of enhancer hijacking of oncogenes in multiple myeloma (Jin-Wu Nam, Korea) Pharmacogenetics of childhood acute lymphoblastic leukemia (Hyery Kim, Korea)	Mutational landscape in CML (Simona Soverini, Italy)	Towards next-generation T cell engineering for cancer (Chan Hyuk Kim, Korea)	Cancer-associated thrombosis (Ho-Young Yhim, Korea)	
	of childhood acute lymphoblastic leukemia		(CHAITTIYUK MITI, NOICA)	
	Evaluating leukemic structural variations using optical genome mapping (Saeam Shin, Korea)	CML/MPN stem cells and the bone marrow microenvironment (Steffen Koschmieder, Germany)	Endogenous retroviruses as a source of tumor antigens in solid tumors and acute myeloid leukemia (Stéphane Depil, France)	Recent advances in the management of immune mediated TTP (Sung Hwa Bae, Korea)

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
08:00- 09:00	Registration			
09:00- 10:30	JS03 ASH-KSH Joint Symposium - Histiocytosis	Stem Cell Biology	SS08 Thrombosis & Hemostasis	ES04 Plasma Cell Disorder
	Biologic and clinical consequences of the BRAF ^{V600E} mutation in Langerhans cell histiocytosis (Kenneth McClain, USA)	Losing sense of self and surroundings: hematopoietic stem cell aging and leukemic transformation (Emmanuelle Passegue, USA)	Mechanism of thrombosis and bleeding in viral infection: focusing on COVID-19 (Marcel Levi, UK)	Diagnosis and management of monoclonal gammopathy of clinical significance (Hyungwoo Cho, Korea)
	Advances in the diagnosis and treatment of hemophagocytic	Hematopoietic stem and	COVID-19 vaccine	Update in the POEMS
	lymphohistiocytosis (Kim E. Nichols, USA)	progenitor cell signaling in the niche (Peter Kurre, USA)	related hematologic manifestations (Soo-Mee Bang, Korea)	syndrome (Yu Ri Kim, Korea)
	Current status of diagnosis and treatment of Langerhans cell histiocytosis in Korea (Kyung-Nam Koh, Korea)			
	Adult hemophagocytic lymphohistiocytosis in Korea (Seok Jin Kim, Korea)	Thrombopoietin as an expansion factor for hematopoietic stem cells (Toshio Suda, Japan)	Thrombotic thrombocytopenic purpura in 2022: novel therapies and focus on long term outcomes (Shruti Chaturvedi, USA)	Update in the primary plasma cell leukemia (Sung-Hoon Jung, Korea)
10:30-	PLENARY LECTURE II			
11:15	Rational development of targeted therapies to cure molecular subtypes of DLBCL (Louis M. Staudt, USA)			
11:15- 11:30	Break			

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
11:30- 12:10	[Satellite] SY05	[Satellite] SY06	[Satellite] SY07	[Satellite] SY08
	G yowa Kirin	Otsuka	Roche	ر ^{اآل} Bristol Myers Squibb [°] Celgene A Bristol Myers Squibb Company
	Role of romiplostim in ITP and AA (Jun Ho Jang, Korea)	The updated information of ponatinib use in chronic myeloid leukemia (Jorge E. Cortes, USA)	Strategic treatment for diffuse large B-cell lymphoma; incorporating polatuzumab to DLBCL (Christopher Flowers, USA)	Optimal treatment with IMiDs in Newly diagnosed multiple myeloma (Luciano J. Costa, USA)
12:10- 12:40	E-poster Exhibition			
12:40- 13:40	OP04 ALL	OP05 Anemia, BMF, CML, MPN	OP06 MM	OP07 Platelet, Transfusion
13:40- 13:55	Break			
13:55- 14:40	Presidential Symposium			
14.40	Toward precision medicine in AML (Hartmut Döhner, Germany)			

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
14:40- 16:10	MS01 MOU Country Session - MM (14:40-15:40)	SS09 MDS	SS10 ALL	ES05 AA and BMF
	Managing multiple myeloma in a resource- limited region: diagnosis and treatment in Armenia (Yervand K. Hakobyan, Armenia)	Pathophysiology of spliceosome mutations in MDS (Andrea Pellagatti, UK)	Chemotherapy vs. allogeneic HSCT for Ph– negative adult ALL (Josep-Maria Ribera, Spain)	Genetics and genomics of bone marrow failure syndrome (Hyun-Young Kim, Korea)
	Renal involvement in plasma cell disorder:			
	learning from real-life practice (Suporn Chun, Thailand)	Role of extracellular vesicles and miRNA in MDS (Sophie Park, France)	Clonal heterogeneity in ALL (Jan Cools, Belgium)	Aplastic anemia: transplant vs. non- transplant options (Ik-Chan Song, Korea)
	Treatment sequence decision in multiple myeloma considering reimbursement status (Youngil Koh, Korea)			
		Challenges in the diagnosis and treatment of overlap MDS/MPN syndromes (Antonio Almeida, Portugal)	Adoptive cellular immunotherapies based on chimeric antigen receptors (Pablo Menendez, Spain)	Overview of bone marrow failure syndrome (Meerim Park, Korea)
16:10- 16:25	Break			

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4
16:25- 17:55	JS04 EHA-KSH Joint Symposium - CML	SS11 Advanced Technology	SS12 Benign Hematology (Anemia)	ES06 Lymphoma
	Failing a second- generation TKI: when the guidelines don't always help (Jane Apperley, UK)	Hematopoiesis and leukemia through the lens of single cell genomics (Lars Velten, Spain)	The iron-erythropoiesis cross-talk in health and disease (Antonella Nai, Italy)	Lymphoma pathology: basic immunohistochemistry for lymphoma diagnosis (Junhun Cho, Korea)
	Discontinuation of tyrosine kinase inhibitors			
	in CML patients in clinical Computer vis practice in hematolo (Antonio Almeida, malignancio	Computer vision in hematologic malignancies (Oscar Brück, Finland)	Autoimmune hemolytic anemia: state-of-the-art hypotheses on pathogenesis and their	Staging and response assessment of lymphoma (Kwai Han Yoo, Korea)
Second and later line therapy: the role of ponatinib in Korean patients with CML (Jeong-Ok Lee, Korea)	therapy: the role of ponatinib in Korean patients with CML		application to treatment (Bruno Fattizzo, Italy)	
	Stopping tyrosine kinase inhibitor in CML; perspectives from Korean data (Hawk Kim, Korea)	Hydrogel-based stamping technology for solution- free blood cell staining (Dongyoung Lee, Korea)	Cold agglutinin disease: an update on pathogenesis and future prospects on therapy (Sigbjørn Berentsen, Norway)	Treatment of indolent lymphoma (Seong Hyun Jeong, Korea)

Time	ROOM 1	ROOM 2	ROOM 3	ROOM 4	
07:30- 08:30	Business Meeting				
08:30- 09:00	Working Party Reports				
09:00- 10:30	AS02 Asian Hematology Session 2 - Pediatric ALL [09:00-10:00]	SS13 AML	SS14 Lymphoma (2) - T cell / HL	ES07 Supportive Care	
	Ma-Spore ALL studies: truly Asia approach to curing childhood ALL (Allen E.J. Yeoh, Singapore)	AML microenvironment and FLT3 inhibitor resistance (Elie Traer, USA)	Genomic landscape of peripheral T-cell lymphomas (Keisuke Kataoka, Japan)	Comprehensive geriatric assessment in older patients for intensive chemotherapy	
	Childhood ALL in Thailand and multicenter studies of Thai pediatric			(Jung-Yeon Choi, Korea)	
	oncology group (Samart Pakakasama, Thailand)	Targeting TP53 mutation in AML (David A. Sallman, USA)	T-cell lymphomas of follicular helper T-cell derivation: pathology,	Evaluation and management of platelet transfusion refractoriness	
	The adherence to MRD time points improves treatment outcomes of childhood ALL in Taiwan: the experience of TPOG-ALL-2013 protocol (Hsi-Che Liu, Taiwan)		mechanisms and therapeutic implications (Laurence de Level, Switzerland)	(Dae-Hyun Ko, Korea)	
		Adaptive immune resistance and immune evasion by programmed death-1 homolog (PD-1H/ VISTA) in AML (Tae Kon Kim, USA)	Targeted therapy to small molecules in peripheral T cell lymphomas (Deok Hwan Yang, Korea)	Advances in management of invasive fungal infections: perspectives on hematologic diseases (Dong-Gun Lee, Korea)	
10:30- 11:15					
				Э	
11:15- 11:30	Break				
11:30- 12:10	Award Ceremony & Closing				

VIRTUAL CONFERENCE WEBSITE

http://virtual.icksh.org

REGISTRATION

Please log in using the ID and PW you used to pre-register on the ICKSH 2022 website. If you missed pre-registration, please register onsite.

- >> On-Site Registration Days March 31 - April 2, 2022
- >> 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	-

^{*} If you use multiple devices with the same ID, your login will be canceled automatically.

VIDEO LECTURES AND Q&A

All lectures and presentations are pre-recorded and broadcast during session time. After the videos are streamed, chairs and speakers have live Q&A and discussion.

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

Please attend the satellite symposium hosted by each of our sponsors over the three-day period and get a point for the prize.

[SY01] Satellite Symposium 01

March 31 (Thursday), 11:30-12:10 / Room 1

Chair

Jun Ho Jang (Sungkyunkwan University, Korea)

Presentation

What is the role of C5 inhibitors in PNH?

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



[SY02] Satellite Symposium 02

March 31 (Thursday), 11:30-12:10 / Room 2

Chair

Hyeoung-Joon Kim (Hwasun Chonnam National University Hospital, Korea)



Presentation

Gilteritinib: ADMIRAL study and real world experience

Byung Sik Cho (College of Medicine, The Catholic University of Korea, Korea)

[SY03] Satellite Symposium 03

March 31 (Thursday), 11:30-12:10 / Room 3

Chair

Sung-Soo Yoon (Seoul National University College of Medicine, Korea)



Presentation

Role of CD19-directed CAR-T therapy in patients with DLBCL (Novartis Kymriah symposium)

Koji Izutsu (National Cancer Center Hospital, Japan)

[SY04] Satellite Symposium 04

March 31 (Thursday), 11:30-12:10 / Room 4

Chair

Chang-Ki Min (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea)



Presentation

Immunotherapy in multiple myeloma

Ajai Chari (Mount Sinai, USA)

[SY05] Satellite Symposium 05

April 1 (Friday), 11:30-12:10 / Room 1

Chair

Jong Wook Lee (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea)



Presentation

Role of romiplostim in ITP and AA

Jun Ho Jang (Sungkyunkwan University, Korea)

[SY06] Satellite Symposium 06

April 1 (Friday), 11:30-12:10 / Room 2

Chair

Dong-Wook Kim (Uijeongbu Eulji Medical Center, Eulji University, Korea)



Presentation

The updated information of ponatinib use in chronic myeloid leukemia

Jorge E. Cortes (Georgia Cancer Center, USA)

[SY07] Satellite Symposium 07

April 1 (Friday), 11:30-12:10 / Room 3

Chair

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



Presentation

Strategic treatment for diffuse large B-cell lymphoma; incorporating polatuzumab to DLBCL

Christopher Flowers (The University of Texas MD Anderson Cancer Center, USA)

[SY08] Satellite Symposium 08

April 1 (Friday), 11:30-12:10 / Room 4

Chai

Ulli Bristol Myers Squibb Celæne | A Bristol Myers Squibb Company

Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)

Presentation

Optimal treatment with IMiDs in newly diagnosed multiple myeloma

Luciano J. Costa (The University of Alabama at Birmingham, USA)

E-POSTER & ORAL PRESENTATIONS

All participants can view the E-posters and oral presentations in the E-Poster/Oral section of the ICKSH2022 virtual conference website. Participants will have an opportunity to win the Lucky Draw after viewing more than 50 of the E-posters.

VIRTUAL EXHIBITION HALL

Meet our sponsors virtually. If you visit e-booths and complete the stamp sheet, and win a chance to get prizes.

ICKSH 2022 SECRETARIAT OFFICE

Onsite	T.TBA T.TBA E. icksh@icksh.org
Post Conference	T. +82-2-566-6031 F. +82-2-566-6087 E. icksh@icksh.org

CME CREDIT INFORMATION (DOMESTIC PARTICIPANTS ONLY)

Please be sure that Korean participants who claim CME credit must press the Enter / Exit button when entering or leaving the session room to record the training time.

1) CME Credit Rating: By the Korean Medical Association

Category	March 31	April 1	April 2	Remarks
KMA CME Credit	6	6	2	-
KAIM CME Credit		2		During the conference period

- 2) Korean participants must attend the sessions and complete the viewing time everyday to get Daily CME credits.
- 3) 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.
 - * When moving between rooms, you must click the "Exit" button, and click the "Enter" button in the new room.

4) Credits accrued per hour of attendance 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

^{**}The training time you see on My page of the Virtual conference website includes the break time. The exact session viewing time will be counted after the conference.

EVENTS

We have exciting events for participants. Participants who complete the mission will win a prize!

ICKSH POINTS

>> Event Period: March 31 to April 2 (KST)
The Point Event Prizes will be given if you get 300P (points) a day! (200P on Saturday)
You can check your accumulated points on My Page of the virtual conference website.

HOW TO EARN POINTS

Action	Points
Enter the Platform (Log in)	100P/Day
Attend an Oral Session	100P/Day
Attend a Session (Except Satellite Symposia, Oral Sessions)	50P/Session
Attend the Closing Ceremony (Saturday Only)	50P
Submit the Conference Survey (Saturday Only)	50P

PRIZES



For Korean participants and those living in Korea, KRW 10,000 (daily) Starbucks Gift Card will be given for the prize.



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

E-POSTER LUCKY DRAW

View more than 50 of the e-posters and get the chance to be a winner!

>> Event Period: March 31 to April 2, 11:00(KST)

Eligibility to win the lucky draw is awarded after viewing more than 50 E-Posters.

Winners will be posted on the ICKSH2022 website after the conference and will be contacted individually.

PRIZES

For Korean participants and those residing in Korea, gifts will be given for the prize.

1 winner 3 winners 10 winners Dyson Airwrap™ styler Complete Apple Watch SE (GPS, 44mm) or Galaxy Watch 4 Classic (Bluetooth, 46mm) LG TONE Free * For others, an Amazon eGift card in the amount of the product will be provided.

EVENTS

E-BOOTH STAMP TOUR

If you visit e-booths and complete the stamp sheet, the prizes will be given.

>> Event Period: March 31 to April 2 (KST)

ELIGIBILITY TO GET GIFTS: GET 21 STAMPS [DAILY]

Sponsor Level	How to Get Stamps
Diamond 8 E-Booths	Download 1 Leaflet & Watch 1 Advertisement (Each E-Booth)
Platinum 3 E-Booths	Download 1 Leaflet (Each E-Booth)
Gold 6 E-Booths	Download 1 Leaflet (Each E-Booth)
4 E-Booths of Silver & Bronze	Access E-Booth

PRIZES



SATELLITE SYMPOSIA EVENT

Attend the Satellite symposium and get an e-gift card!

- >> Event Period: March 31 to April 1 (KST)
- >> Daily Event: It is required to watch at least 30 minutes of the luncheon symposium.

PRIZES



For Korean participants and those residing in Korea, KRW 10,000 (Daily) Culture Land Certificate will be given for the prize.



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

SPONSORS (Acknowledgements)



















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KEY SPEAKERS

MARCH 31 (Thursday)



[PL01] Plenary Lecture 01

10:30 - 11:15 | Room 1

Immune landscape of hematological malignancies and functional screening tools

Satu Mustjoki University of Helsinki, Finland

APRIL 1 (Friday)



[PL02] Plenary Lecture 02

10:30 - 11:15 | Room 1

Rational development of targeted therapies to cure molecular subtypes of DLBCL

Louis M. Staudt National Cancer Institute, USA

APRIL 2 (Saturday)



[PL03] Plenary Lecture 03

10:30 - 11:15 | Room 1

Improving outcomes after CD19-targeted CART-cell therapy

Jordan Gauthier University of Washington, USA

APRIL 1 (Friday)



[PS] Presidential Symposium

13:55 - 14:40 | Room ^{*}

Toward precision medicine in AML

Hartmut Döhner University of Ulm, German

DAILY PROGRAM

Thursday, March 31 Friday, April 1 Saturday April 2

08:50-09:00	Opening Remark	
09:00-10:30	[JS01] KAI-KSH Joint Session	om 1
Chairs	Kyungho Choi (Seoul National University College of Medicine, Korea) Seok-Goo Cho (The Catholic University of Korea, Korea)	
JS01-1	Next generation CAR-T cell therapy against hematological malignancies Kyungho Choi (Seoul National University College of Medicine, Korea)	
JS01-2	Effective conditioning regimen in adoptive T cell therapy of cancer Chungyong Han (National Cancer Center, Korea)	
JS01-3	Tissue resident memory T cells in multiple myeloma Yoon Seok Choi (Ajou University School of Medicine, Korea)	
JS01-4	T-cell-based immunotherapeutic strategies against EBV-positive malignancies using the novel TCR specific for LMP1 antigen Tai-Gyu Kim (The Catholic University of Korea, Korea)	
09:00-10:30	[SS01] Pediatric Disease	om 2
Chairs	Hye Lim Jung (Sungkyunkwan University School of Medicine, Korea) Hyeon Jin Park (National Cancer Center, Korea)	
SS01-1	Primary immune regulatory disorder for the pediatric hematologist and oncologist Shanmuganathan Chandrakasan (Emory University School of Medicine, USA)	
SS01-2	Clonal evolution and somatic reversion in bone marrow failure Akiko Shimamura (Harvard Medical School, USA)	
SS01-3	Molecular landscape of pediatric AML Soheil Meshinchi (Fred Hutchinson Cancer Research Center, USA)	
09:00-10:30	[SS02] Lymphoma (1) - B cell / CLL	om 3
Chairs	Jae-Yong Kwak (Jeonbuk National University Medical School, Korea) Deok Hwan Yang (Chonnam National University Medical School, Korea)	
SS02-1	Molecular classification of diffuse large B-cell lymphoma and novel treatment strategies Daisuke Ennishi (Okayama University Hospital, Japan)	
SS02-2	Novel immunotherapeutic antibodies for B-cell NHL Gilles Salles (Memorial Sloan Kettering Cancer Center, USA)	
SS02-3	Targeting B-cell receptor and BCL-2 in chronic lymphocytic leukemia	

09:00-10:30	[ES01] Platelet Disorder		Room 4
Chairs	Hyun Kyung Kim (Seoul National University College of Medicine, Korea) Sung Hwa Bae (Daegu Catholic University Hospital, Korea)		
ES01-1	Diagnostic work up of inherited platelet disorder Bohyun Kim (Soonchunhyang University College of Medicine, Korea)		
ES01-2	Recent advances in treatments of immune thrombocytopenia Dae Sik Kim (Korea University Guro Hospital, Korea)		
ES01-3	Thrombocytopenia in pregnancy Young Hoon Park (Ewha Womans University Mokdong Hospital, Korea)		
10:30-11:15	[PL01] Plenary Lecture 01		Room 1
Chair	Dong-Wook Kim (Uijeongbu Eulji Medical Center, Eulji University, Korea)		
	Immune landscape of hematological malignancies and functional screening Satu Mustjoki (University of Helsinki, Finland)	ng tools	
11:15-11:30	Break		
11:30-12:10	[SY01] Handok	HANJOOK	Room 1
Chair	Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)		
	What is the role of C5 inhibitors in PNH? Jin Seok Kim (Yonsei University College of Medicine, Korea)		
11:30-12:10	[SY02] Astellas	astellas	Room 2
Chair	Hyeoung-Joon Kim (Hwasun Chonnam National University Hospital, Korea)		
	Gilteritinib: ADMIRAL study and real world experience Byung Sik Cho (College of Medicine, The Catholic University of Korea, Korea)		
11:30-12:10	[SY03] Novartis	b novartis	Room 3
Chair	Sung-Soo Yoon (Seoul National University College of Medicine, Korea)		
	Role of CD19-directed CAR-T therapy in patients with DLBCL (Novartis Kym Koji Izutsu (National Cancer Center Hospital, Japan)	nriah symposium)	

Room 4 [SY04] Janssen janssen Chair Chang-Ki Min (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea) Immunotherapy in multiple myeloma Ajai Chari (Mount Sinai, USA) 12:10-12:40 **E-poster Exhibition** 12:40-13:40 Room 1 [YI] Young Investigator Presentation Chairs Je-Hwan Lee (University of Ulsan College of Medicine, Korea) Deok Hwan Yang (Chonnam National University Medical School, Korea) YI-1 Establishment of a preclinical model for acquired resistance to FMS-like tyrosine kinase 3 (FLT3) inhibitors and development of a basis for overcoming the resistance in FLT3 mutated acute myeloid leukemia Eun-Ji Choi (University of Ulsan College of Medicine, Korea) YI-2 Identification of tyrosine kinase resistance mechanisms through next-generation sequencing analysis in chronic myeloid leukemia patients Saeam Shin (Yonsei University College of Medicine, Korea) YI-3 Correlation between cytomorphological findings and molecular genetic characteristics using digital imaging in patients with pre-myelodysplastic syndrome Chang-Hun Park (Samsung Changwon Hospital, Korea) YI-4 Clinical implication of plasma-derived circulating tumor DNA (ctDNA) changes in patients with advanced diffuse large B-cell lymphoma treated with immunochemotherapy Ga-Young Song (Chonnam National University Medical School, Korea) YI-5 A cohort study to investigate the correlation between the microbiome and diffuse large B cell lymphoma (DLBCL) Sang Eun Yoon (Sungkyunkwan University School of Medicine, Korea) YI-6 Analysis of marrow-infiltrating T cell subpopulation in newly diagnosed multiple myeloma Myung-Won Lee (Chungnam National University College of Medicine, Korea) YI-7 Multi-omics analysis of pediatric patients undergoing haploidentical hematopoietic stem cell transplantation with busulfun-based conditioning regimen and post-transplant cyclophosphamide Kyung Taek Hong (Seoul National University College of Medicine, Korea) YI-8 Development of acute GVHD biomarkers in pediatric patients Sung Han Kang (Asan Medical Center, Korea)

Chairs

Byung-Soo Kim (Korea University College of Medicine, Korea)

Dong-Yeop Shin (Seoul National University College of Medicine, Korea)

Potential prognostic significance of promoter methylation status of DNA repair genes at diagnosis in acute myeloid leukemia: analysis of TCGA-LAML cohort and patients in a single institution

Sholhui Park (Ewha Womans University School of Medicine, Korea)

OP01-2	TP53-mutated AML with high variant allele frequency show better survival outcome with hypomethylating agents than with cytarabine-based induction Hye Won Kook (Yonsei University College of Medicine, Korea)
OP01-3	WT1 gene expression in primary acute myeloid leukemia Ishan Gupta (All India Institute of Medical Sciences, India)
OP01-4	Preliminary results by age group of treatment with CPX-351 plus venetoclax in adults with newly diagnosed AML: subgroup analysis of the v-fast trial Vinod Pullarkat (City Of Hope Comprehensive Cancer Center, USA)
OP01-5	A randomized, phase II, comparative study with a parallel control for evaluating the efficacy and safety of 5-day azacitidine for patients with lower-risk MDS Silvia Park (The Catholic University of Korea, Korea)
12:40-13:40	[OP02] Lymphoma, Histiocytosis
Chairs	Ki-Seong Eom (College of Medicine, The Catholic University of Korea, Korea) Sukjoong Oh (Hanyang University Seoul Hospital, Korea)
OP02-1	High incidence of MYD88 mutation associated with mutated IGHV gene in Korean chronic lymphocytic leukemias Ari Ahn (The Catholic University of Korea, Korea)
OP02-2	First interim analysis results of ALPINE phase 3 study of zanubrutinib vs ibrutinib in R/R chronic lymphocytic leukemias/small lymphocytic leukemias Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)
OP02-3	CD 19 chimeric antigen receptor T cell therapy for relapsed/refractory B-cell lymphoid malignancies: the efficacies and safeties of tisa-cel in the real world Sang Eun Yoon (Sungkyunkwan University School of Medicine, Korea)
OP02-4	Long-term real-world experience of Castleman's disease treatment Gi June Min (The Catholic University of Korea, Korea)
OP02-5	Clinical analysis of modified HLH-04 regimen for the treatment of childhood hemophagocytic lymphohistiocytosis Fenfen Cheng (Capital Medical University, China)
12:40-13:40	[OP03] Laboratory Hematology
Chairs	Myung-Hyun Nam (Korea University Anam Hospital, Korea) Young-Uk Cho (University of Ulsan College of Medicine, Korea)
OP03-1	Clinical-biochemical screening and genetic analysis of suspected inherited iron metabolism related anaemias using targeted NGS approach Pankaj Sharma (PGIMER, India)
OP03-2	Comparison of clinical features, genetic alterations, and outcomes in patients with prefibrotic, overt primary myelo- fibrosis, and secondary myelofibrosis Tong Yoon Kim (The Catholic University of Korea, Korea)
OP03-3	Flow cytometry of body fluid specimens: diagnostic value in hematologic malignancy

0P03-4	Single-cell analysis of Multiple Myelomas refines bortezomib treatment responsiveness Sung-Soo Park (The Catholic University of Korea, Korea)	
OP03-5	Empagliflozin modulates CD4+ T cell differentiation via metabolic reprogramming in immune thrombocyt Qin Jing (Shandong University, China)	topenia
13:40-13:55	Break	
13:55-14:55	[AS01] Asian Session I - AA	Room 1
Chairs	Jong Wook Lee (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea) Hoon Kook (Chonnam National University Medical School, Korea)	
AS01-1	Korean treatment guideline for aplastic anemia Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)	
AS01-2	Aplastic anemia immunosuppressive therapy in China Zhao Xin (Institute of Hematology and Blood Diseases Hospital, China)	
AS01-3	Clinical significance of detecting HLA-class I allele-lacking leukocytes in patients with aplastic anemia Kohei Hosokawa (Kanazawa University, Japan)	
13:55-15:25	[SS03] MPN	Room 2
Chairs	Chul Won Choi (Korea University Guro Hospital, Korea) Sung-Yong Kim (Konkuk University School of Medicine, Korea)	
SS03-1	Recent advances in molecular diagnosis, prognosis and monitoring of MPNs Myungshin Kim (The Catholic University of Korea, Korea)	
SS03-2	Molecular mechanisms underlying the development of MPN by mutant calreticulin and the therapeutic po of an antibody targeting mutant calreticulin Norio Komatsu (Juntendo University Graduate School of Medicine, Japan)	otential
SS03-3	Targeting pro-inflammatory signaling, including IL8, in myelofibrosis: the pathway into the clinic Andrew J. Dunbar (Memorial Sloan Kettering Cancer Center, USA)	
13:55-15:25	[SS04] MM	Room 3
Chairs	Dong Soon Lee (Seoul National University College of Medicine, Korea) Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)	
SS04-1	Evolution of myeloma from the normal plasma cell to disease complexity Niccolo Bolli (University of Milan, Italy)	
SS04-2	The power of ONE: immunology in the age of single cell genomics Ido Amit (Weizmann Institute, Israel)	

SS04-3	Clinical implications of immune networks in multiple myeloma Je-Jung Lee (Chonnam National University Medical School, Korea)	
13:55-15:25	[ES02] AML	Room 4
Chairs	Dong-Yeop Shin (Seoul National University College of Medicine, Korea) Byung Sik Cho (College of Medicine, The Catholic University of Korea, Korea)	
ES02-1	Human AML stem cell: evolution of concept Dong-Yeop Shin (Seoul National University College of Medicine, Korea)	
ES02-2	Recent update of AML risk stratification Hyoeun Shim (National Cancer Center, Korea)	
ES02-3	FLT3 mutated AML Jae-Sook Ahn (Chonnam National University Medical School, Korea)	
15:25-15:40	Break	
15:40-17:10	[JS02] KOGO-KSH Joint Session	Room 1
Chairs	Hae-Ock Lee (The Catholic University of Korea, Korea) Sun-Young Kong (National Cancer Center, Korea)	
JS02-1	Developing single-cell data integration pipeline to find novel cell types and gene markers for immune disease Jong-Eun Park (Korea Advanced Institute of Science and Technology, Korea)	ises
JS02-2	Detection of enhancer hijacking of oncogenes in multiple myeloma Jin-Wu Nam (Hanyang University, Korea)	
JS02-3	Pharmacogenetics of childhood acute lymphoblastic leukemia Hyery Kim (University of Ulsan College of Medicine, Korea)	
JS02-4	Evaluating leukemic structural variations using optical genome mapping Saeam Shin (Yonsei University College of Medicine, Korea)	
15:40-17:10	[SS05] CML	Room 2
Chairs	Chul Won Jung (Sungkyunkwan University School of Medicine, Korea) Won Sik Lee (Inje University College of Medicine, Korea)	
SS05-1	Resistance mechanism in CML Kimmo Porkka (Helsinki University Central Hospital, Finland)	
SS05-2	Mutational landscape in CML Simona Soverini (University of Bologna, Italy)	
SS05-3	CML/MPN stem cells and the bone marrow microenvironment Steffen Koschmieder (RWTH Aachen University, Germany)	

15:40-17:10	[SS06] Cell Therapy / Transplantation	Room 3
Chairs	Hyeon-Seok Eom (National Cancer Center, Korea) Hyoung Jin Kang (Seoul National University College of Medicine, Korea)	
SS06-1	Immune landscapes and chemotherapy resistance in AML Sergio Rutella (Nottingham Trent University, UK)	
SS06-2	Towards next-generation T cell engineering for cancer Chan Hyuk Kim (Korea Advanced Institute of Science and Technology, Korea)	
SS06-3	Endogenous retroviruses as a source of tumor antigens in solid tumors and acute myeloid leukemia Stéphane Depil (Université Claude Bernard Lyon 1, France)	
15:40-17:10	[ES03] Thrombosis / Hemostasis	Room 4
Chairs	Sung-Hyun Kim (Dong-A University College of Medicine, Korea) Jin-Yeong Han (Dong-A University College of Medicine, Korea)	
ES03-1	Advances in laboratory assessment in thrombosis/hemostasis Jaewoo Song (Yonsei University College of Medicine, Korea)	
ES03-2	Cancer-associated thrombosis Ho-Young Yhim (Jeonbuk National University Medical School, Korea)	
ES03-3	Recent advances in the management of immune mediated TTP Sung Hwa Bae (Daegu Catholic University Hospital, Korea)	

09:00-10:30	[JS03] ASH-KSH Joint Symposium: Histiocytosis	Room 1
Chairs	Jane Winter (Feinberg School of Medicine, USA) Ho Joon Im (University of Ulsan College of Medicine, Korea)	
JS03-1	Biologic and clinical consequences of the BRAF ^{V600E} mutation in Langerhans cell histiocytosis Kenneth McClain (Texas Children's Cancer Center, USA)	
JS03-2	Advances in the diagnosis and treatment of hemophagocytic lymphohistiocytosis Kim E. Nichols (St. Jude Children's Research Hospital, USA)	
JS03-3	Current status of diagnosis and treatment of Langerhans cell histiocytosis in Korea Kyung-Nam Koh (University of Ulsan College of Medicine, Korea)	
JS03-4	Adult hemophagocytic lymphohistiocytosis in Korea Seok Jin Kim (Sungkyunkwan University School of Medicine, Korea)	
09:00-10:30	[SS07] Stem Cell Biology	Room 2
Chairs	Myung Geun Shin (Chonnam National University Medical School, Korea) June-Won Cheong (Yonsei University College of Medicine, Korea)	
SS07-1	Losing sense of self and surroundings: hematopoietic stem cell aging and leukemic transformation Emmanuelle Passegue (Columbia University Irving Medical Center, USA)	
SS07-2	Hematopoietic stem and progenitor cell signaling in the niche Peter Kurre (Children's Hospital of Philadelphia, USA)	
SS07-3	Thrombopoietin as an expansion factor for hematopoietic stem cells Toshio Suda (Kumamoto University, Japan)	
09:00-10:30	[SS08] Thrombosis & Hemostasis	Room 3
Chairs	Soo-Mee Bang (Seoul National University College of Medicine, Korea) Seongsoo Jang (University of Ulsan College of Medicine, Korea)	
SS08-1	Mechanism of thrombosis and bleeding in viral infection: focusing on COVID-19 Marcel Levi (University College London Hospitals NHS Foundation Trust, UK)	
SS08-2	COVID-19 vaccine related hematologic manifestations Soo-Mee Bang (Seoul National University College of Medicine, Korea)	
SS08-3	Thrombotic thrombocytopenic purpura in 2022 - novel therapies and focus on long term outcomes Shruti Chaturvedi (Johns Hopkins University School of Medicine, USA)	
09:00-10:30	[ES04] Plasma Cell Disorder	Room 4
Chairs	Je-Jung Lee (Chonnam National University Medical School, Korea) Dok Hyun Yoon (University of Ulsan College of Medicine, Korea)	
ES04-1	Diagnosis and management of monoclonal gammopathy of clinical significance Hyungwoo Cho (University of Ulsan College of Medicine, Korea)	

ES04-2 Update in the POEMS syndrome

Yu Ri Kim (Yonsei University College of Medicine, Korea)

ES04-3 Update in the primary plasma cell leukemia

Sung-Hoon Jung (Chonnam National University Hwasun Hospital, Korea)

[PL02] Plenary Lecture 02

Sung-Soo Yoon (Seoul National University College of Medicine, Korea)

Rational development of targeted therapies to cure molecular subtypes of DLBCL

Louis M. Staudt (National Cancer Institute, USA)

11:15-11:30 **Break**

Chair

Chair

11:30-12:10 [SY05] Kyowa Kirin

Jong Wook Lee (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea)

Role of romiplostim in ITP and AA

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

11:30-12:10 [SY06] Otsuka

> Dong-Wook Kim (Uijeongbu Eulji Medical Center, Eulji University, Korea) Chair

The updated information of ponatinib use in chronic myeloid leukemia

Jorge E. Cortes (Georgia Cancer Center, USA)

11:30-12:10 [SY07] Roche

Chair

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

Strategic treatment for diffuse large B-cell lymphoma; incorporating polatuzumab to DLBCL

Christopher Flowers (The University of Texas MD Anderson Cancer Center, USA)

11:30-12:10 [SY08] BMS-Celgene

> Chair Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)

> > Optimal treatment with IMiDs in newly diagnosed multiple myeloma

Luciano J. Costa (The University of Alabama at Birmingham, USA)

Room 1

Gyowa KIRIN

Room 1

Room 2

Roche

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Room 3

Room 4 Celgene | A Bristol Myers Squibb Company

12:10-12:40

12:10-12:40	E-poster Exhibition
12:40-13:40	[OP04] ALL Room 1
Chairs	Inho Kim (Seoul National University Hospital, Korea) Kyung-Nam Koh (University of Ulsan College of Medicine, Korea)
OP04-1	Expression pattern of non-homologous end joining DNA repair pathway genes and its clinical relevance in T-lineage acute lymphoblastic leukemia Anita Chopra (All India Institute of Medical Sciences, India)
OP04-2	Interim analysis of the prospective phase II study of individualized 6-mercaptopurine dosing based on pharmacogenomics in childhood acute lymphoblastic leukemia Hyery Kim (University of Ulsan College of Medicine, Korea)
OP04-3	Current treatment trends of infant Leukemia in Korea based on a retrospective multicenter reivew: the Korean society of hematology, pediatric all working group Seung Min Hahn (Yonsei Cancer Center, Korea)
OP04-4	Prognostic impact of cytogenetic classification in adult all patients treated with intensive chemotherapy and allogeneic HCT-based post-remission therapy Jae-Ho Yoon (The Catholic University of Korea, Korea)
OP04-5	DEFIFrance registry study: efficacy and safety of defibrotide for the treatment of severe/very severe VOD/SOS after hematopoietic cell transplantation Mohamad Mohty (Hôpital St Antoine, Sorbonne University, France)
12:40-13:40	[OP05] Anemia, BMF, CML, MPN
Chairs	Hawk Kim (Gachon University College of Medicine, Korea) Sung-Eun Lee (The Catholic University of Korea, Korea)
OP05-1	Causal role of iron status on anemia and on cardiometabolic outcomes among UK whites and Taiwanese Han Chinese using hemoglobin-genetic risk scores Vanessa Joy Timoteo (National Yang Ming Chiao Tung University and Academia Sinica, Taiwan)
OP05-2	Favorable outcomes of familial-mismatched donor transplantation using post-transplant cylophosphamide(PTCy) for pediatric severe aplastic anemia Jae Won Yoo (The Catholic University of Korea, Korea)
OP05-3	The long-term efficacy and safety of eculizumab in patients with paroxysmal nocturnal hemoglobinuria; retrospective study on behalf of Korean society of hematology aplastic anemia working party Jin Seok Kim (Yonsei University College of Medicine, Korea)
OP05-4	Response to chemotherapy in patients with juvenile Myelomonocytic Leukemia in Korea: The Korean pediatric hematology-oncology group(KPHOG) Eun Sang Yi (Korea University College of Medicine, Korea)
OP05-5	A multicenter, open-label, phase IV clinical study for efficacy and safety evaluation of anagrelide in patients with treatment-naïve, high-risk essential thrombocythemia as a primary treatment

Ja Min Byun (Seoul National University Hospital, Korea)

12:40-13:40	[OP06] MM
Chairs	Jeong Yeal Ahn (Gachon University Gil Medical Center, Korea) Min Kyoung Kim (Yeungnam University Medical Center, Korea)
OP06-1	Prognostic role of the ratio of natural killer to regulatory T cells in multiple myeloma treating lenalidomide and dexamethasone Seung Yeon Kim (The Catholic University of Korea, Korea)
OP06-2	Rejuvenation of antigen-specific CD8+T cells using induced pluripotent stem cell technology and specific regulatory pathways for T cell commitment Jooeun Bae (Harvard Medical School, USA)
OP06-3	Busulfan and thiotepa as a conditioning regimen for autologous stem cell transplantation in multiple myeloma: KMMWP-1801 study Ga-Young Song (Chonnam National University Medical School, Korea)
OP06-4	Comparative analysis of single versus tandem autologous stem cell transplantation in patients with multiple myeloma in Korea: the KMM2102 study Jongheon Jung (National Cancer Center, Korea)
OP06-5	Subcutaneous daratumumab with bortezomib, cyclophosphamide, and dexamethasone in patients with newly diagnosed light chain (AL) amyloidosis: 18-month analysis of the phase 3 andromeda study Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)
12:40-13:40	[OP07] Platelet, Transfusion
Chairs	Eun Sun Yoo (Ewha Womans University Seoul Hospital, Korea) Jaewoo Song (Yonsei University College of Medicine, Korea)
OP07-1	2021 operation of the surveillance system of covid-19 vaccination induced thrombosis with thrombocytopenia syndrome in Korea Daehyun Chu (University of Ulsan College of Medicine, Korea)
OP07-2	Validation of khorana score in cancer patients undergoing chemotherapy with east asian ethnicity Junshik Hong (Seoul National University College of Medicine, Korea)
OP07-3	Acute transfusion reactions of pediatric blood transfusions at Chiang Mai university hospital Pattira Rungruansarn (Chiang Mai University, Thailand)
OP07-4	Risk factors of platelet transfusion refractoriness in patients with AA/MDS who receive allogeneic hematopoietic stem cell transplantation Jaeik Oh (Seoul National University Hospital, Korea)
OP07-5	Combining pharmacokinetics and comprehensive evaluation system to individualize the prophylaxis in pediatric patients with hemophilia A Kun Huang (Capital Medical University, China)
13:40-13:55	Break

DAILY PROGRAM Friday, April 1

13:55-14:40	[PS01] Presidential Symposium	Room 1
Chair	Je-Hwan Lee (University of Ulsan College of Medicine, Korea)	
	Toward precision medicine in AML Hartmut Döhner (University of Ulm, Germany)	
14:40-15:40	[MS01] MOU Country Session: MM	Room 1
Chairs	Jae Hoon Lee (Gachon University Gil Medical Center, Korea) Jin Seok Kim (Yonsei University College of Medicine, Korea)	
MS01-1	Managing multiple myeloma in a resource-limited region: diagnosis and treatment in Armenia Yervand K. Hakobyan (Armenian Hematology Association, Armenia)	
MS01-2	Renal involvement in plasma cell disorder: learning from real-life practice Suporn Chuncharunee (Ramathibodi hospital, Thailand)	
MS01-3	Treatment sequence decision in multiple myeloma considering reimbursement status Youngil Koh (Seoul National University Hospital, Korea)	
14:40-16:10	[SS09] MDS	Room 2
Chairs	Yoo-Jin Kim (College of Medicine, The Catholic University of Korea, Korea) Yoon Hwan Chang (Seoul National University Hospital, Korea)	
SS09-1	Pathophysiology of spliceosome mutations in MDS Andrea Pellagatti (University of Oxford, UK)	
SS09-2	Role of extracellular vesicles and miRNA in myelodysplastic syndromes Sophie Park (CHU de Grenoble Service hematologie clinique, France)	
SS09-3	Challenges in the diagnosis and treatment of overlap MDS/MPN syndromes Antonio Almeida (Hospital da Luz Lisboa, Portugal)	
14:40-16:10	[SS10] ALL	Room 3
Chairs	Nack-Gyun Chung (The Catholic University of Korea, Korea) Ho-Jin Shin (Pusan National University School of Medicine, Korea)	
SS10-1	Chemotherapy vs. allogeneic HSCT for Ph–negative adult ALL Josep-Maria Ribera (ICO-Hospital Germans Trias i Pujol, Spain)	
SS10-2	Clonal heterogeneity in ALL Jan Cools (Center for Human Genetics, Belgium)	
SS10-3	Adoptive cellular immunotherapies based on chimeric antigen receptors Pablo Menendez (Josep Carreras Leukemia Research Institute, Spain)	

DAILY PROGRAM Friday, April 1

14:40-16:10	[ES05] AA and BMF	Room 4
Chairs	Myungshin Kim (The Catholic University of Korea, Korea) Yeung-Chul Mun (Ewha Womans University College of Medicine, Korea)	
ES05-1	Genetics and genomics of bone marrow failure syndrome Hyun-Young Kim (Sungkyunkwan University School of Medicine, Korea)	
ES05-2	Aplastic anemia: transplant vs non-transplant options Ik-Chan Song (Chungnam National University Hospital, Korea)	
ES05-3	Overview of bone marrow failure syndrome Meerim Park (National Cancer Center, Korea)	
16:10-16:25	Break	
16:25-17:55	[JS04] EHA-KSH Joint Symposium: CML	Room 1
Chairs	Kimmo Porkka (Helsinki University Central Hospital, Finland) Sang Kyun Sohn (Kyungpook National University School of Medicine, Korea)	
JS04-1	Failing a second-generation TKI: when the guidelines don't always help Jane Apperley (Imperial College London, UK)	
JS04-2	Discontinuation of tyrosine kinase inhibitors in CML patients in clinical practice Antonio Almeida (Hospital da Luz Lisboa, Portugal)	
JS04-3	Second and later line therapy: the role of ponatinib in Korean patients with CML Jeong-Ok Lee (Seoul National University Bundang Hospital, Korea)	
JS04-4	Stopping tyrosine kinase inhibitor in CML; perspectives from Korean data Hawk Kim (Gachon University College of Medicine, Korea)	
16:25-17:55	[SS11] Adv Technology	Room 2
Chairs	Duck Cho (Sungkyunkwan University School of Medicine, Korea) Ji-Myung Kim (Chungnam National University Hospital, Korea)	
SS11-1	Hematopoiesis and leukemia through the lens of single cell genomics Lars Velten (Centre for Genomic Regulation, Spain)	
SS11-2	Computer vision in hematologic malignancies Oscar Brück (University of Helsinki, Finland)	
SS11-3	Hydrogel-based stamping technology for solution-free blood cell staining Dongyoung Lee (Noul Co., Ltd, Korea)	

DAILY PROGRAM Friday, April 1

16:25-17:55	[SS12] Benign Hematology	3
Chairs	Deog-Yeon Jo (Chungnam National University College of Medicine, Korea) Hyoung Soo Choi (Seoul National University College of Medicine, Korea)	
SS12-1	The iron-erythropoiesis cross-talk in health and disease Antonella Nai (San Raffaele Scientific Institute, Italy)	
SS12-2	Autoimmune hemolytic anemia: state-of-the-art hypotheses on pathogenesis and their application to treatment Bruno Fattizzo (Università degli Studi di Milano, Italy)	
SS12-3	Cold agglutinin disease: an update on pathogenesis and future prospects on therapy Sigbjørn Berentsen (Haugesund Hospital, Norway)	
16:25-17:55	[ES06] Lymphoma Room	4
Chairs	Jong Ho Won (Soonchunhyang University College of Medicine, Korea) Young Rok Do (Keimyung University School of Medicine, Korea)	
ES06-1	Lymphoma pathology: basic immunohistochemistry for lymphoma diagnosis Junhun Cho (Sungkyunkwan University School of Medicine, Korea)	
ES06-2	Staging and response assessment of lymphoma Kwai Han Yoo (Gachon University Gil Medical Center, Korea)	
ES06-3	Treatment of indolent lymphoma Seong Hyun Jeong (Ajou University School of Medicine, Korea)	

DAILY PROGRAM Saturday April 2

07:30-08:30	Business Meeting	Room 1
08:30-09:00	Working Party Reports	Room 1
09:00-10:00	[AS02] Asian Session II - Pediatric ALL	Room 1
Chairs	Chuhl Joo Lyu (Yonsei University Health System, Korea) Keon Hee Yoo (Sungkyunkwan University School of Medicine, Korea)	
AS02-1	Ma-Spore ALL studies: truly Asia approach to curing childhood ALL Allen E.J. Yeoh (National University of Singapore, Singapore)	
AS02-2	Childhood ALL in Thailand and multicenter studies of Thai pediatric oncology group Samart Pakakasama (Mahidol University, Thailand)	
AS02-3	The adherence to MRD time points improves treatment outcomes of childhood ALL in Taiwan: the experie TPOG-ALL-2013 protocol Hsi-Che Liu (Mackay Memorial Hospital, Taiwan)	nce of
09:00-10:30	[SS13] AML	Room 2
Chairs	Hee-Je Kim (The Catholic University of Korea, Korea) Young Kyung Lee (Hallym University College of Medicine, Korea)	
SS13-1	AML microenvironment and FLT3 inhibitor resistance Elie Traer (Oregon Health & Science University, USA)	
SS13-2	Targeting TP53 mutation in AML David A. Sallman (H. Lee Moffitt Cancer Center and Research Institute, USA)	
SS13-3	Adaptive immune resistance and immune evasion by programmed death-1 homolog (PD-1H/VISTA) in AN Tae Kon Kim (Vanderbilt University Medical Center, USA)	ΛL
09:00-10:30	[SS14] Lymphoma (2) - T cell / HL	Room 3
Chairs	Won Seog Kim (Sungkyunkwan University School of Medicine, Korea) Ho-Young Yhim (Jeonbuk National University Medical School, Korea)	
SS14-1	Genomic landscape of peripheral T-cell lymphomas Keisuke Kataoka (National Cancer Center Research Institute, Japan)	
SS14-2	T-cell lymphomas of follicular helper T-cell derivation: pathology, mechanisms and therapeutic implication Laurence de Level (Lausanne University Hospital, Switzerland)	ıs
SS14-3	Targeted therapy to small molecules in peripheral T cell lymphomas Deok Hwan Yang (Chonnam National University Medical School, Korea)	

DAILY PROGRAM Saturday April 2

09:00-10:30	[ES07] Supportive Care	Room 4
Chairs	Seong Kyu Park (Soonchunhyang University Bucheon Hospital, Korea) Hyo Jung Kim (Hallym University College of Medicine, Korea)	
ES07-1	Comprehensive geriatric assessment in older patients for intensive chemotherapy Jung-Yeon Choi (Seoul National University Bundang Hospital, Korea)	
ES07-2	Evaluation and management of platelet transfusion refractoriness Dae-Hyun Ko (University of Ulsan College of Medicine, Korea)	
ES07-3	Advances in management of invasive fungal infections: perspectives on hematologic diseases Dong-Gun Lee (Seoul St. Mary's Hospital, The Catholic University of Korea, Korea)	
10:30-11:15	[PL03] Plenary Lecture 03	Room 1
Chair	Chuhl Joo Lyu (Yonsei University Health System, Korea)	
	Improving outcomes after CD19-targeted CART-cell therapy Jordan Gauthier (University of Washington, USA)	
11:15-11:30	Break	
11:30-12:10	Award Ceremony & Closing	Room 1

BEST POSTER

BP01	Acute Myeloid Leukemia	Identification of cell type-specific effects of DNMT3A mutations involved in relapse of acute myeloid leukemia Seo-Gyeong Bae ¹ , Jihwan Park ^{1*} , Jae-Sook Ahn ^{2,3} , Hyeoung-Joon Kim ^{2,3} and Mi Yeon Kim ^{2,3} School of Life Sciences, Gwangju Institute of Science and Technology (GIST), Korea Department of Internal Medicine, Chonnam National University Hwasun Hospital, Korea Genomic Research Center for Hematopoietic Diseases, Chonnam National University Hwasun Hospital, Korea
BP02	Myelodysplastic Syndrome	DNA methylation-based biomarkers for azacitidine resistance in myelodysplastic syndrome Da Yeon Kim ^{1,2} and Eun Ju Kim ^{1,2*} Division of Radiation Biomedical Research, Korea Institute of Radiological and Medical Sciences, Korea Department of Radiological and Medico-Oncological Sciences, University of Science and Technology, Korea
BP03	Acute Lymphoblastic Leukemia	Integrated targeted RNA fusion analysis and deep sequencing highlights diverse primary and secondary clonal abnormalities in a cohort of paired diagnosis-relapse pediatric B-cell acute lymphoblastic leukemia cases Rozy Thakur Pediatric Hematology-Oncology Lab-Advanced Pediatrics Centre, India
BP04	Lymphoma	A retrospective analysis of real-world outcomes of dose-adjusted EPOCH compared with CHOP based chemotherapy as frontline therapy for untreated PTCL Sang-Bo Oh ¹ , Ho-Jin Shin ^{2*} and Do-Young Kim ² ¹ Division of Hematology-Oncology, Department of Internal Medicine, School of Medicine, Medical Research Institute, Pusan National University Yangsan Hospital, Yangsan, Korea ² Division of Hematology-Oncology, Department of Internal Medicine, School of Medicine, Medical Research Institute, Pusan National University Hospital, Busan, Korea
BP05	Multiple Myeloma	First-line treatment with either VMP or RD for Transplant-ineligible patients with multiple myeloma: a pooled analysis of multicenter real-world data Jung Yeon Lee ¹ , Young-Woo Jeon ² , Seung-Ah Yahng ³ , Seung-Hwan Shin ⁴ , Chang-Ki Min ¹ and Sung-Soo Park ^{1*} Department of Hematology, Catholic Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea Department of Hematology, Yeoido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea Department of Hematology, Eunpyeong St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea
BP06	Myeloproliferative Neoplasm	Neutrophil–lymphocyte ratio and carotid plaque burden in patients with essential thrombocythemia and polycythemia vera <u>Seug Yun Yoon</u> , Sun Young Jeong, Min-Young Lee, Kyoung-Ha Kim, Namsu Lee and Jong-Ho Won* Division of Hematology & Medical Oncology, Department of Internal Medicine, Soonchunhyang University Seoul Hospital, Seoul, Korea
BP07	Laboratory Hematology	Detection of recurrent, rare gene fusions and correlation with clinical manifestations in acute leukemia by targeted RNA-sequencing Seo Wan Kim Department of Laboratory Medicine, Yonsei University College of Medicine, Seoul, Korea
BP08	Anemia and Other Red Cell Disorders	Characterization of alpha beta double negative T cells in children with acquired aplastic anemia Hui Chen Hematologic Disease Laboratory, Beijing Children's Hospital, China

BEST POSTER

BP09 Platelet/ Hemostasis Levels of heparin induced anti-PF4 antibodies and endogenous glycosaminoglycans and their relationship with inflammatory biomarkers in pulmonary embolism patients

<u>Bulent Kantarcioglu</u>^{1*}, Amir Darki², Fakiha Siddiqui¹, Debra Hoppensteadt¹, Joseph Lewis¹, Roland Krämer³ and Jawed Fareed¹

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³Institute of Inorganic Chemistry, Heidelberg University, Germany

BP10 Quality of Life

Differences in comorbidities by trajectory groups as a reference in identifying patients at risk for late mortality in childhood cancer survivors

Hyery Kim¹, Hae Reong Kim², Sunghan Kang¹, Kyung-Nam Koh¹, Ho Joon Im¹ and Yu Rang Park^{2*}

¹Pediatrics, Asan Medical Center Children's Hospital, University of Ulsan College of Medicine, Korea

²Biomedical Systems Informatics, Yonsei University College of Medicine, Korea

PP01-01 RUNX1 mutation in children with acute myeloid leukemia of a single-center

<u>Hong Bo He</u>, Hu Yong Zheng and Chao Gao *Hematology Center, Beijing Children's Hospital, China*

PP01-02 Establishment of a panel of biomarkers for immunophenotyping in acute leukemia

Amar Ranjan, Harshita Dubey* and Pranay Tanwar

Lab Oncology Unit, AllMS, New Delhi, India

PP01-03 The prognostic impact of reduced variant burden in elderly patients with acute myeloid leukemia treated with decitabine

Mihee Kim¹, Seo-Yeon Ahn¹, Sung-Hoon Junq¹, Ga-Young Song¹, TaeHyung Kim³, Deok-Hwan Yang¹, Je-Jung Lee¹, Seung-Hyun Choi²,

MiYoen Kim², Hyeoung-Joon Kim^{1,2}, Dennis Dong Hwan Kim⁴ and Jae-Sook Ahn^{1,2*}

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PP01-04 Therapeutic effect of metformin on acute myeloid leukemia through targeting AMPK/mTOR, cell cycle, apoptosis and autophagy

Juan liu and Wenyu shi*

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PP01-05 Epigenetic regulation and synthetic lethal targeting of genetically deficient acute myeloid leukemia by siRNA loaded customized

 $polymeric \ and \ superparamagnetic \ multifunctional \ nanoparticles$

Anas Ahmad

Pharmacology, Chandigarh College of Pharmacy, India

PP01-06 Investigation of genes and pathways associated with low platelet count in normal karyotype acute myeloid leukemia

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PP01-07 Clinical and molecular significance of multilineage dysplasia in acute myeloid leukemia: a single-center experience

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PP01-09 Stepwise combination of azacitidine and low-dose venetoclax in treatment-näive, critically ill elderly patient with acute myeloid leukemia: a case report

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PP01-10 Relevance of Wilms' tumor 1 (WT1) gene expression in AML patients among north Indian population

Harsh Goel¹, Anita Chopra¹, Amar Ranjan¹, Ganesh Kumar Viswanathan², Aditya Kumar Gupta³, Jagdish Prasad Meena³, Sameer Bakhshi⁴,

Maroof Ahmad Khan⁵ and Pranay Tanwar¹¹

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PP01-11 Clinical outcomes in patients with relapsed/refractory acute myeloid leukemia treated with gilteritinib who received prior mido-staurin or sorafenib

Alexander E Perl^{1*}, Jessica K Altman², Naoko Hosono³, Pau Montesinos⁴, Nikolai Podoltsev⁵, Giovanni Martinelli⁶, Catherine C Smith⁷, Mark J Levis⁸, Christoph Röllig⁹, Marco Groß-Langenhoff¹⁰, Nahla Hasabou¹¹, Qiaoyang Lu¹¹, Ramon V Tiu¹¹ and <u>Joon Seong Park</u>¹²

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PP01-12 Prognostic implications of Wilms' tumor 1 (WT1) gene expression in newly diagnosed cases of primary acute myeloid leukemia

<u>Pranay Tanwar</u>¹, Harsh Goel¹, Anita Chopra¹, Aditya Kumar Gupta³, Jagdish Prasad Meena³, Sameer Bakhshi² and Amar Ranjan¹ <u>Laboratory Oncology, Dr. BRA-IRCH, AllMS, New Delhi, India</u>

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PP01-13 Arsenic trioxide-based regimen versus autologous hematopoietic stem cell transplantation as post-remission therapy in relapsed acute promyelocytic leukemia

Gi June Min, Byung-Sik Cho*, Daehun Kwag, Tong Yoon Kim, Jong Hyuk Lee, Joonyeop Lee, Sung-Soo Park, Silvia Park, Jae-Ho Yoon, Sung-Eun Lee, Ki-Seong Eom, Yoo-Jin Kim, Seok Lee, Chang-Ki Min, Seok-Goo Cho, Jong Wook Lee and Hee-Je Kim Department of Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea

PP01-14 Diagnosis of acute promyelocytic leukemia with 3D microscope: toward an objective diagnosis

<u>Hyunji Kim</u>¹, Seongsoo Jang^{1*}, Daehyun Chu¹, Miyoung Kim¹, Young-Uk Cho¹, Sang-Hyun Hwang¹, Chan-Jeoung Park¹ and YongKeun Park²

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PP01-15 Efficacy of cytarabine, daunorubicin plus etoposide as induction regimen for pediatric acute myeloid leukemia

<u>Huong-Giang Nguyen-Tran</u>^{1*}, Tuan Nguyen¹ and Nghia Huynh²

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PP01-16 Genetic characteristics according to subgroup of acute myeloid leukemia with myelodysplasia-related changes

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PP01-17 Clinical significance of masked systemic mastocytosis with associated hematological neoplasm in AML with RUNX1: RUNX1T1

Beom Joon Kim¹, Jee Soo Lee², Moon-Woo Seong², Soo Hyun Seo¹, Jinho Paik⁴, Sang A Kim³, Ji Yun Lee³, Jeong Ok Lee³, Soo Mee Bang³, Yoon Hwan Chang² and <u>Sang Mee Hwang</u>^{1*}

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PP01-18 Incidence of therapy-related myeloid neoplasms and their risk factors for the selection of patients with an increased risk: a Korean nationwide study

<u>Hyerim Ha</u>^{1,2}, Hyo Jeong Kim³, Ju Hyun Park³, Na Rae Lee² and Junshik Hong¹*

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PP01-19 Induction of differentiation in acute myeloid leukemic stem cells by a natural compound: esculetin

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PP01-20 Acute promyelocytic leukemia with cryptic IRF2BP2-RARA rearrangement in a patient with Germline DDX41 mutation: the first

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PP01-21 Therapy-related myeloid neoplasm with Inv(11)(p15q22)/NUP98-DDX10 rearrangement: the first case in Korea

Noorie Kanq¹, Jae Joon Lee¹, Hyun-Young Kim¹, Chul Won Jung², Sun-Hee Kim¹ and Hee-Jin Kim^{1*}

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PP01-22 Gene expression profiling of VASH1 and its prognostic role in acute myeloid leukemia

<u>Avanish Kumar Pandey</u>¹, Sarita Kumari¹, Jay Singh¹, Mohit Arora³, M Shadab Ali⁴, Jayanth Kumar Palanichamy³, Sameer Bakhshi², Atul Sharma², Mercilena Benjamin¹, Neha Thukral¹ and Anita Chopra^{1*}

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PP01-23 Clinical usefulness of next-generation sequencing panel for myeloid neoplasms

A-Jin Lee, Sang-Gyung Kim*, Chang-Ho Jeon and Eun-Hyung Yoo

Department of laboratory medicine, Daegu Catholic University School of Medicine, Korea

PP01-24 Differences of genetic alteration between pediatric and adult acute myeloid leukemia detected by panel-based next generation sequencing

<u>Jae Won Yoo</u>¹, Tong Yoon Kim², Jong Mi Lee³, Ari Ahn³, Seongkoo Kim¹, Silvia Park², Jae Wook Lee¹, Myungshin Kim³, Yonggoo Kim³, Byung-Sik Cho², Hee-Je Kim², Nack-Gyun Chung¹ and Bin Cho^{1*}

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PP01-25 Allogeneic hematopoietic cell transplantation overcomes adverse prognosis in patients with low allelic ratio FLT3-ITD and NPM1 mutated AML

Ga-Young Song¹, TaeHyung Kim^{2,3}, Seo-Yeon Ahn¹, Sung-Hoon Jung¹, Mihee Kim¹, Deok-Hwan Yang¹, Je-Jung Lee¹, Seung Hyun Choi⁴, Mi Yeon Kim⁴, Chul Won Jung⁵, Jun-Ho Jang⁵, Hee Je Kim⁶, Joon Ho Moon⁷, Sang Kyun Sohn⁷, Jong-Ho Won⁸, Seong-Kyu Park⁸, Sung-Hyun Kim⁹, Zhaolei Zhang^{2,3,10}, Jae-Sook Ahn^{1,4}, Dennis Dong Hwan Kim¹¹ and Hyeoung-Joon Kim^{1,4*}

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PP01-27 Treatment outcomes of venetoclax and hypomethylating agents for newly diagnosed acute myeloid leukemia

<u>Eun-Ji Choi</u>, Je-Hwan Lee*, Han-Seung Park, Jung-Hee Lee and Kyoo-Hyung Lee Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea

PP01-28 Cannabidiol exhibits anti-leukemic and anti-inflammatory activities through regulation of the NF-kB signaling pathway in human leukemia monocytic cell line

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PP01-30 Risk of serious infections with the use of immunomodulatory drugs in multiple myeloma patients

Md. Sarfaraj Hussain

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PP01-31 An evaluation of the efficacy and safety of lenalidomide as monotherapy and as part of a combination regimen in the treatment of acute myeloid leukaemia

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PP01-32 Early bone marrow assessment after 3+7 induction chemotherapy is predictable of outcome in AML with intermediate or adverse cytogenetics

<u>Daehun Kwag</u> ^{1,2}, Byung-Sik Cho ^{1,2}, Tong Yoon Kim^{1,2}, Jong Hyuk Lee^{1,2}, Joonyeop Lee^{1,2}, Gi-June Min^{1,2}, Sung-Soo Park^{1,2}, Silvia Park ^{1,2}, Young-Woo Jeon³, Seung-Hwan Shin⁴, Seung-Ah Yahng⁵, Jae-Ho Yoon ^{1,2}, Sung-Eun Lee ^{1,2}, Ki-Seong Eom ^{1,2}, Yoo-Jin Kim ^{1,2}, Seok Lee ^{1,2}, Chang-Ki Min ^{1,2}, Seok-Goo Cho¹, Jong Wook Lee¹ and Hee-Je Kim^{1,2*}

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PP01-33 Decetabine plus venetoclax versus decetabine alone for older adults with newly diagnosed acute myeloid leukemia

<u>Daehun Kwag</u> ^{1,2}, Tong Yoon Kim^{1,2}, Jong Hyuk Lee^{1,2}, Joonyeop Lee^{1,2}, Gi-June Min^{1,2}, Sung-Soo Park^{1,2}, Silvia Park^{1,2}, Young-Woo Jeon³, Seung-Hwan Shin⁴, Seung-Ah Yahng⁵, Jae-Ho Yoon^{1,2}, Sung-Eun Lee^{1,2}, Ki-Seong Eom^{1,2}, Yoo-Jin Kim^{1,2}, Seok Lee^{1,2}, Hee-Je Kim^{1,2}, Chang-Ki Min^{1,2}, Seok-Goo Cho¹, Jong Wook Lee¹ and Byung-Sik Cho^{1,2*}

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Real-world experience of gilteritinib in relapsed/refractory FLT3 mutated acute myeloid leukemia

Jong Hyuk Lee, Daehun Kwag, Joonyeop Lee, Tong Yoon Kim, Gi-June Min, Sung-Soo Park, Silvia Park, Jae-Ho Yoon, Sung-Eun Lee, Byung-Sik Cho, Ki-Seong Eom, Yoo-Jin Kim, Seok Lee, Chang-Ki Min, Seok-Goo Cho, Jong Wook Lee, and Hee-Je Kim* Department of Hematology, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Banpo-daero 222, Seocho-Gu, Seoul, Korea

PP02-01 Genetic mutations associated with blood count abnormalities in myeloid neoplasms

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PP02-02 Increased apoptotic activity in patients with lower risk myelodysplastic syndrome

Songyi Park¹, Dong-Yeop Shin^{1,2,3*}, Hee Sue Park⁴, Soo Young Moon⁵, Sung-Soo Yoon^{1,3} and Dong-Soon Lee^{3,6} Division of Hematology and Medical Oncology, Department of Internal Medicine, Seoul National University Hospital, Korea

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PP02-03 DDX41-mutated myeloid neoplasms with propensity for higher-risk myelodysplastic syndrome and distinct bone marrow features depending on mutation type

Youn Ji Hong¹, Young-Uk Cho^{1*}, Miyoung Kim¹, Seongsoo Jang¹, Chan-Jeoung Park¹, Eul-Ju Seo¹, Eun-Ji Choi², Je-Hwan Lee² and Kyoo-Hyung Lee²

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PP02-04 R-loop induced DNA damage and clinical features of DDX41- mutated Korean MDS

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PP02-05 Survival analysis of post-transplant MDS according to relapse and treatment pattern

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

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PP02-06 Treatment outcomes of secondary acute myeloid leukemia from myelodysplastic syndrome, according to previous treatment history

<u>Daehun Kwag</u>¹, Tong Yoon Kim¹, Jong Hyuk Lee¹, Joon yeop Lee¹, Gi June Min¹, Sung Soo Park¹, Silvia Park¹, Seung-Ah Yahng², Seung-Hwan Shin³, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung Sik Cho^{1,4}, Ki-Seong Eom^{1,4}, Seok Lee^{1,4}, Hee-Je Kim^{1,4}, Chang-Ki Min^{1,4}, Jong Wook Lee¹ and Yoo-Jin Kim^{1,4}*

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PP03-01 Clinical application of next-generation sequencing -based monitoring of minimal residual disease in childhood acute lymphoblastic leukemia

Mai Huirong* and Li Qin

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PP03-03 Pediatric leukemia: a systematic review of oral manifestations, post-treatment complications & oro-dental management

<u>Vaibhav Gupta</u>* and Poonam Goel *National Institute of Pathology, India*

PP03-04 IKZF1 plus profile and outcome analysis in a cohort of paediatric B-cell acute lymphoblastic leukaemia cases

Prateek Bhatia^{1*}, Minu Singh¹, Pragna Hc¹, Rozy Thakur¹, Amita Trehan¹ and Neelam Varma²

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Genetic variation and relationship of homo sapiens t(4;11)(q21;q23) translocation breakpoint sequence, MLL-AF4 gene fusion, in acute lymphoblastic leukemia

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Biology, Universitas Sulawesi Barat, Indonesia

PP03-07 Prognostic utility of key copy number alterations in T cell acute lymphoblastic leukemia

<u>Sarita Kumari</u>^{2,5}, Md Shadab Ali¹, Jay Singh², Mohit Arora³, Deepak Verma², Dr. Sameer Bakhshi⁴, Jayanth Kumar Palanichamy³, Atul sharma⁴, Inder Singh⁶ and Anita Chopra^{2*}

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PP03-08 Segmentation of red blood cell image based on cell morphology to detect iron deficiency anemia

Elfiany Elfiany*, Rosmani Bahtiar and Bannure Bannure

Computational Science, Universitas Muhammadiyah Bulukumba, Indonesia

PP03-09 Delineating CRLF2 positivity and its clinical significance in pediatric B-cell acute lymphoblastic leukemia

<u>Jay Singh</u>¹, Mercillena Benjamin¹, Avanish Kumar Pandey¹, Sarita Kumari¹, Mohit Arora³, Gunjan Sharma³, Md. Shadab Ali⁸, Deepak Verma⁷, Sameer Bakhshi². Rachna Seth⁴. Amitabh Singh⁶. Jayanth Kumar Palanichamy³. Inder Kumar Singh⁵ and Anita Chopra^{1*}

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PP03-10 High-throughput drug sensitivity analysis strategy and salvage autologous CD19 CAR-T therapy in second marrow relapse of acute lymphoblastic leukemia with NT5C2 mutation

Xue Tang

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PP03-11 Circular RNA (CircRNA) transcriptomic signature in T-cell acute lymphoblastic leukemia

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PP03-17 A real world experience of clinical characteristics & treatment outcome of T-ALL: the Ampang experience

Siew Lian Chong*, Kim Wah Ho, Tee Chuan Ong, Veena Selvaratnam and Sen Mui Tan

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PP03-18 Role of SOX4 and KRAS activation in relapsed pediatric B- cell acute lymphoblastic leukemia

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PP03-19 Clinical and genetic characteristics of IGH aberrations detected by FISH analysis in childhood B-lymphoblastic leukemia

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PP03-20 Analysis of cerebrospinal fluid for malignant cells

<u>Saransh Verma</u>, Amar Ranjan*, Harshita Dubey and Pranay Tanwar Laboratory Oncology Unit, All India Institute of medical Sciences, New Delhi, India

PP03-21 Evaluation of genetic alterations in HBB gene and unravel the Biochemical parameters among the sickle cell anemia (SCD) patients

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PP03-22 The outcome of blinatumomab in relapsed or refractory pediatric B-ALL: single center experience

Hyun Jin Park^{1,2,3}, Kyung Taek Hong^{1,2,3}, Jung Yoon Choi^{1,2,3}, Hong Yul An^{1,2,3}, Bo Kyung Kim^{1,2,3} and Hyoung Jin Kang^{1,2,3*}

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PP03-24 Comparison of mutational spectrum of IDH2, NRAS and TP53 genes in B-cell precursor lymphoblastic leukemia and acute myeloid

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PP03-25 Efficacy and safety of decitabine in the management of acute myeloid leukemia

Mohammad Asad Hussain

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PP03-26 Anti-leukemic effect of Umbelliferone β-D-galactopyranoside against DMBA induced leukemic rat model: possible mechanism of

action

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PP03-27 A comparative study on digital dermatoglyphic patterns among adolescent with acute lymphoblastic leukemia in Guyana

Ameet Kumar Jha

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PP04-01 A single-center report on treatment outcomes of patients with CML treated with TKIs with a survey of health-related quality of life

Hee Jeong Cho, Jung Min Lee, Ju-Hyung Kim, Dong Won Baek, Joon Ho Moon and Sang-Kyun Sohn*

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$PP04-03 \qquad \textbf{Long-term outcomes of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of tyrosine kinase inhibitor discontinuation in chronic myeloid leukemia patients in real-world clinical practices and the properties of the properties of$

tice

Chang-Hoon Lee¹, So-Yeon Jeon¹, Ho-Young Yhim¹, Jeong-A Kim² and Jae-Yong Kwak^{1*}

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PP04-05 Clinical and hematological profile of chronic myeloid leukemia in sub-himalayan region

Rajeev Sandal, Pravesh Dhiman*, Manish Gupta, Sunil Sharma, Vikas Fotedar, Sidharth Vats and Purnima Thakur

Department of radiotherapy and oncology, Indira Gandhi Medical College, India

PP04-06 Discontinuation of tyrosine kinase inhibitors based on BCR-ABL1 monitoring by digital droplet PCR in pediatric chronic myeloid leukemia

<u>Seongkoo Kim</u>¹, Yeojae Kim ², Jong Mi Lee^{2,3}, Ari Ahn^{2,3}, Jae Won Yoo¹, Jae Wook Lee¹, Bin Cho¹, Nack-Gyun Chung¹, Yonggoo Kim^{2,3}, Myunqshin Kim^{2,3}

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PP05-01 Productivity of 18F-FDG-PET/CT diagnostic tool in the management of pediatric lymphoblastic lymphoma

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PP05-03 A case of primary effusion lymphoma

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PP05-04 Bone marrow infiltration in non-hodgkin lymphoma: 18 F-FDG PET/CT versus bone marrow aspiration biopsy

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PP05-05 Diabetic foot ulcer as a manifestation of T-cell lymphoma: a case report

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PP05-06 Flow cytometry v/s BM aspirate v/s BM biopsy as a screening tool for detection of marrow involvement by lymphoma: study at a tertiary cancer hospital

<u>Garima Jain</u>1*, Chandan Kumar², Pranay Tanwar² and Amar Ranjan² 1Pathology, National Institute of Pathology-ICMR, India

²Laboratory Oncology, AllMS, New Delhi, India

PP05-07 A retrospective analysis of the efficacy of low-dose metronomic cyclophosphamide for treatment in patients with low grade non-hodgkin lymphoma

<u>Boram Han</u>, Bum Jun Kim, Ho Young Kim, Dae Young Zang and Hyo Jung Kim* Internal Medicine, Hallym University Sacred Heart Hospital, Hallym University Medical Center, Korea

PP05-08 The endothelial activation and stress index (EASIX) score is an independent prognostic factor in patients with diffuse large B cell lymphoma

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PP05-09 CC-95251, a novel anti-SIRPα antibody, enhances phagocytosis of non-hodgkin lymphoma (NHL) cells when combined with rituximab

Henry Chan^{1*}, Christina Trout², David Mikolon¹, Preston Adams¹, Roberto Guzman³, Gustavo Fenalti⁴, Konstantinos Mavrommatis⁵, Mahan Abbasian⁶, Lawrence Dearth¹, Brian Fox⁷, Pallavur Sivakumar⁸ and Kandasamv Hariharan¹

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PP05-10 First clinical study of the anti-SIRPα Antibody CC-95251 combined with rituximab in patients with relapsed/refractory (R/R) non-hodgkin lymphoma (NHL)

Paolo Strati¹*, Eliza Hawkes², Nilanjan Ghosh³, Joseph Tuscano⁴, Quincy Chu⁵, Mary Ann Anderson⁶, Amar Patelˀ, Michael R. Burgessˀ, Kristen Hegeˀ, Sapna Chhaganˀ, Sarandeep Boyanapalli³, Tracey Dayˀ, Frank Shen⁶, $\underline{Jin\text{-Seok Kim}}$ ¹⁰ and Amitkumar Mehta¹¹

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PP05-11 The clinical outcome of rituximab biosimilars versus rituximab originator with CHOP as first-line treatment for patients with DLBCL

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PP05-12 Bone marrow involvement in korean patients with various lymphoma types: a 21-year large single-center study

 $\underline{\text{Min-Sun Kim}^1}, \\ \text{Miyoung Kim}^{2^*}, \\ \text{Young-Uk Cho}^2, \\ \text{Sang-Hyun Hwang}^2, \\ \text{Seongsoo Jang}^2, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Jung-Hee Lee}^3, \\ \text{Dok Hyun Yoon}^4, \\ \text{Han-Seung Park}^3, \\ \text{Han$

Cheolwon Suh⁴, Hyery Kim⁵, Kyung-Nam Koh⁵, Ho Joon Im⁵, Jooryung Huh⁶ and Chan-Jeoung Park²

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PP05-13 MicroRNA-196a sensitizes B cell lymphoma cells to daunorubicin through FOXO1

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PP05-14 Clinicopathological correlation of mantle cell lymphoma

Harshita Dubey, Amar Ranjan* and Pranay Tanwar Labortaory Oncology, Dr.B.R.A-IRCH, AllMS, New Delhi, India

PP05-15 Epigenetic priming improves salvage chemotherapy in diffuse large B-cell lymphoma via endogenous retrovirus-induced cGAS-

TING activation

Jun Liu², Ja Min Byun^{1,2} Dong-Yeop Shin^{1,2} Youngil Koh^{1,2} Junshik Hong^{1,2} and Sung-Soo Yoon^{1,2}

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PP05-16 Morphologic variant of hairy cell leukemia: a diagnostic challenge

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PP05-17 Diagnostic challenge for composite mature B cell lymphoma and CD8+T cell lymphoma

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PP05-18 Exosomal miR-155 and miR-21 in ibrutinib-resistant diffuse large B cell lymphoma cells

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PP05-20 Impact of the epstein-barr virus positivity on consolidation radiotherapy (RT) for hodgkin's lymphoma

Tong Yoon Kim¹, Seok-Goo Cho^{1*}, Daehun Kwag¹, Gi June Min¹, Sung-Soo Park¹, Silvia Park¹, Young-Woo Jeon², Seung-Hawn Shin³, Seung-Ah Yahng⁴, Jae-Ho Yoon¹, Sung-Eun Lee¹, Byung-Sik Cho¹, Ki-Seong Eom¹, Yoo-Jin Kim¹, Seok Lee¹, Chang-Ki Min¹, Jong-Wook Lee¹ and Hee-Je Kim¹

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PP07-02

PP05-21 Cytokine profile in patients with DLBCL: prognostic value of IL6 and C- reactive protein in predicting poor survival - a prospective study Gaurav Prakash*, Vaishali Agrawal, Nidhi Jain, Manupdesh Singh, Arihant Jain, Deepesh Lad, Aditya Jandial and Pankaj Malhotra Clinical Hematology and Medical Oncology, Postgraduate Institute of Medical Education and Research, India PP05-22 Bloodless treatment of Jehovah's witness patients with lymphoma: single center experience Kyoung Ha Kim, Sun Young Jeong, Seug Yun Yoon, Min-Young Lee, Namsu Lee and Jong-Ho Won* Internal Medicine, Soonchunhyang University College of Medicine, Soonchunhyang University Hospital, Seoul, Korea PP05-23 Long term effectiveness of autologous peripheral blood stem cell transplantation (Auto-PBSCT) using busulfan, melphalan, and thiotepa (BMT) regimen in patients with recurrent or refractory CNS lymphoma: single center experience Youngwoo Jeon¹², Gi June Min³, Sung-Soo Park³, Silvia Park³, Jae-Ho Yoon³, Sung-Eun Lee³, Ki-Seong Eom³ and Seok-Goo Cho^{1,23*} ¹Hematology, The Catholic University of Korea, Yeouido ST. Mary's Hospital, Korea ²Institute for Translational Research and Molecular Imaging, Catholic Institutes of Medical Science, College of Medicine, Seoul St. Mary's Hospital, Korea ³Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea PP06-01 18F-FDG PET/CT for identifying the potential primary diseases and predicting prognosis of secondary hemophagocytic lymphohistiocytosis in children Ang Wei, Honghao Ma, Sitong Chen, Zhigang Li, Tianyou Wang and Rui Zhang* Hematology center, Beijing children's hospital, China PP06-02 Clinical analysis of chronic active EBV infection involving gastrointestinal tract: a retrospective analysis of a single-center Ang Wei, Honghao Ma, Liping Zhang, Zhigang Li, Tianyou Wang and Rui Zhang* Hematology center, Beijing children's hospital, China PP06-03 Clinical-biological characteristics and treatment outcome of children with multisystem Langerhans cell histiocytosis and secondary hemophagocytic lymphohistiocytosis Lingling Fu, Dong Wang, Honghao Ma And Rui Zhang* Hematologic Diseases Laboratory, Hematology Center, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, China PP06-04 Clinical significance of soluble CD25 in cerebrospinal fluid in hemophagocytic lymphohisticoytosis with central nervous system involvement Wenxin Ou Hemotology, Beijing Children's Hospital, China PP06-05 Effect analysis of Ruxolitinib combinations liposomal doxorubicin, etoposide methylprednisolone +/- PEG-asparaginase in treatment of refractory and relapsed hemophagocytic lymphohistiocytosis in children Ang Wei, Tianyou Wang* and Rui Zhang Hematology center, Beijing children's hospital, China PP06-06 The role of pre-therapeutic 18F-FDG PET-CT in pediatric hemophagocytic lymphohistiocytosis with Epstein-Barr virus infection Liping Zhang, Ang Wei, Rui Zhang and Tianyou Wang Hematology, Beijing Children's Hospital, China PP06-07 A case report of adult bone eosinophilic granuloma Altanshagai Boldbaatar¹, Ulzii-Orshikh Namkhai², Erdenetsetseg Battulga³, Elbegjargal Erdenebaatar¹ and Khishigjargal Batsukh^{1*} ¹Center of Hematology, Blood and Marrow Transplantation, The First Central Hospital of Mongolia, Mongolia General Laboratory of Clinical Pathology, The First Central Hospital of Mongolia, Mongolia ³Diagnostic Imaging Center, The First Central Hospital of Mongolia, Mongolia

Significance of LDH level in development of secondary plasma cell leukemia

<u>Harshita Dubey</u>, Amar Ranjan* and Pranay Tanwar *Labortaory Oncology*, *Dr.B.R.A-IRCH*, *AlIMS*, *New Delhi*, *India*

PP07-03 Clinical benefit of measurable residual disease assessment by fragment analysis or next-generation sequencing in patients with multiple myeloma

<u>Hyunsoo Cho</u>¹, Saeam Shin², Haerim Chung¹, Ji Eun Jang¹, Yu Ri Kim¹, June-Won Cheong¹, Yoo Hong Min¹, Seung-Tae Lee², Jong Rak Choi² and Jin Seok Kim^{1*}

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PP07-04 Updated risk assessment and staging systems in multiple myeloma - real world scenario

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PP07-05 Light chain multiple myeloma presenting as AL amyloidosis

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PP07-06 Overexpression of PFKFB4 promotes adaptation to hypoxic microenvironment in multiple myeloma

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PP07-07 Case series: Daratumumab monotherapy in relapsed and refractory multiple myeloma patients with severely compromised forced expiratory volume in one second

Jin-Hyo Kim², Sung-Soo Park^{1*}, Jae-Ho Yoon¹, Sung-Eun Lee¹, Hee-Je Kim¹ and Chang-Ki Min¹

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PP07-08 Multiple myeloma in borneo sarawak malaysia: a decade of experience in a single center

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PP07-10 Talquetamab, a GPRC5D x CD3 bispecific antibody, in patients with relapsed/refractory multiple myeloma: updated phase 1 results from monumental-1

Amrita Krishnan^{1*}, Monique C. Minnema², Jesus G. Berdeja³, Albert Oriol⁴, Niels W.C.J. van de Donk⁵, Paula Rodríguez-Otero⁶, Elham Askari⁷, María-Victoria Mateos⁸, Luciano J. Costa⁹, Raluca Verona¹⁰, Joanne Ma¹¹, Suzette Girgis¹¹, Shiyi Yang¹², Brandi W. Hilder¹³, Jeffery Russell¹³, Jenna D. Goldberg¹³ and Ajai Chari¹⁴

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PP07-11 The recovery of absolute lymphocyte count predicts a good prognosis in daratumumab-treated patients with relapsed/refractory multiple myeloma

Hee Jeong Cho¹, Jae-Cheol Jo², Yoo Jin Lee², Myung Won Lee³, Do-young Kim⁴, Ho Jin Shin⁴, Sung Nam Lim⁵, Ji Hyun Lee⁶, Sung Hwa Baeˀ, Young Rok Doð, Won Sik Lee⁶, Min Kyung Kim¹0, Jung Min Lee¹, Ju-Hyung Kim¹, Dong Won Baek¹, Sang-Kyun Sohn¹ and Joon Ho Moon¹*

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PP07-12 Galectin-1, Galectin-9 and their role in monoclonal gammopathy of undetermined significance and multiple myeloma in residents of the Gomel region of Belarus

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PP07-13 CC-92480 when combined with bortezomib/dexamethasone enhances cell-autonomous cytotoxicity through G₂/M transition blockade in multiple myeloma

Chad C. Bjorklund^{1*}, Michael Amatangelo¹, Jian Kang², Hsiling Chiu², Archana Mukhopadhyay¹, Krista Wollerman³, Michael Pourdehnad⁴, Patrick Hagner¹ and Anjan Thakurta¹

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PP07-14 The GNRI (Geriatric Nutritional Risk Index) as a prognostic factor in patients with newly diagnosed multiple myeloma

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PP07-15 Treatment outcome and prognostic factors of newly diagnosed multiple myeloma receiving bortezomib-based induction in Hong Kong: an analysis of 448 patients

Hoi Ki Karen Tang¹, Chi Yeung Fung¹, Yu Yan Hwang¹, Harold Lee², Sze Fai Yip³, Howard Wong⁴, Chi Kuen Lau⁵, Kwan Hung Leung⁶, Elaine Au⁷, Bonnie Kho⁴, Eric Tse¹, Joycelyn Sim¹, Yok Lam Kwong¹ and Chor Sang Chim^{1*}

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PP07-16 Favorable outcomes of 3-weekly daratumumab-based regimens in relapsed/refractory multiple myeloma: impact of MRD, rapid doubling time, LDH, triplets and quadruplets

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PP07-17 Effective substances for the treatment of multiple myeloma using a prohibitin-targeted chromanone compound derivatives

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PP07-18 Determinant factors for early mortality in newly diagnosed multiple myeloma patients

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PP07-19 Clinical profiles and survival outcomes of adult patients with multiple myeloma at a tertiary hospital in the Philippines

Jeremiah Vallente*, Carlo Francisco Cortez and Ma. Angelina Mirasol

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PP07-20 Treatment outcomes with reduced-dose bortezomib in adult patients with multiple myeloma: a single-center experience

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PP07-21 Inhibition of mitochondrial thioredoxin by auranofin increases bortezomib-induced cell death through autophagy and mitochondrial ROS in multiple myeloma cell line

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PP07-23 Real-world toxicity and efficacy of ixazomib, lenalidomide, and dexamethasone in Asian patients with relapsed and refractory multiple myeloma

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PP07-24 Prognosis of chronic kidney disease stage 5 or under dialysis in asian multiple myeloma patients - on behalf of Korean multiple myeloma working party (KMM177 study)

<u>Ji Hyun Lee</u>¹, Sung-HyunKim Kim¹, Ki-Hyun Kim², Chang-Ki Min³, Je-Jung Lee ⁴, Sung-Hoon Jung⁴, Sung-Soo Yoon⁵, Dong-Yeop Shin⁵, Ja Min Byun⁵, Jae-Yong Kwak⁶, Ho-Young Yhim⁶, Byeong Seok Sohn⁷, Jin Seok Kim⁸, Hyo Jung Kim⁹, Ho Sup Lee¹⁰, Sung Hwa Bae¹¹, Gyeong-Won Lee¹², Sungwoo Park¹², Jae Hoon Lee¹³, Min Kyoung Kim¹⁴, Young Rok Do¹⁵ and Jun Ho Yi¹⁶

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PP07-25 The benefit of pomalidomide in RRMM with plasmacytomas - on behalf of Korean multiple myeloma working party (KMM1907 study)

<u>Ji Hyun Lee</u>¹, Sung-Hyun Kim¹, Ki-Hyun Kim^{2*}, Chang-Ki Min³, Sung-Soo Park³, Je-Jung Lee⁴, Sung-Hoon Jung⁴, Sung-Soo Yoon⁵, Ja Min Byun⁵, Jae-Yong Kwak⁶, Ho-Young Yhim⁶ and Ho-Jin Shin⁷

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PP07-26 A pilot study to identify role of minimal residual disease in multiple myeloma patients who received autologous stem cell transplantation

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PP08-01 Splenic infarction in patient with Philadelphia-negative myeloproliferative neoplasm

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PP08-02 Volumetric splenomegaly in patients with polycythemia vera

 $\underline{Myung\text{-}Won\text{Lee}^1, Sang\text{-}Hoon\text{ Yeon}^1, Hyewon\text{ Ryu}^1, Ik\text{-}Chan\text{ Song}^1, Hyo\text{-}Jin\text{Lee}^1, Hwan\text{-}Jung\text{ Yun}^1, Seon\text{ Young Kim}^2, Jeoung\text{ Eun Lee}^3, Kyung\text{ Sook Shin}^3 and Deog\text{-}Yeon\text{ Jo}^{1*}$

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PP08-03 Tuberculosis of the bone marrow in a patient with JAK2- positive myelofibrosis presenting with jaundice: a case report

Joseph Emmanuelle Siatan* and Chrystal Anne Catli-Burog

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PP08-04 Myelofibrotic and leukemic transformation in 2016 WHO-defined Philadelphia-negative myeloproliferative neoplasm

<u>Ik-Chan Song</u>, Sang Hoon Yeon, Myung-Won Lee, Hyewon Ryu, Hyo-Jin Lee, Hwan-Jung Yun, Seon Young Kim and Deog-Yeon Jo* Department of Internal Medicine, Chungnam National University Hospital, Korea

PP08-05 Real-world outcomes of ruxolitinib in patients with myelofibrosis focusing on RBC transfusion: a multicenter study from the MPN working party of the KSH

Eunhee Jung¹, Junshik Hong^{1*}, Sung-Yong Kim², Young Park³, Young Jin Yuh⁴, Yeung-Chul Mun⁵, Won-Sik Lee⁴, Sung-Kyu Park⁶ and Soo-Mee Rang¹

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PP08-07 Modified cell-based model of JAK2V617F mutation by using CRISPR/Cas9

Rujira Mekchaaum¹, Supaporn Kalasin¹, Krai Daotak^{1,2} and <u>Nungruthai Nilsri</u>^{1,2}

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PP09-01 Pure red cell aplasia after ABO- mismatched allogeneic haematopoietic stem cell transplantation for very severe aplastic anaemia

Ching Soon Teoh

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PP09-03 Application of next-generation sequencing to distinguish inherited from acquired in bone marrow failure syndrome: a single-cen-

ter study

WonKee Ahn, Seungmin Hahn, Jung Woo Han and Chuhl Joo Lyu*

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PP09-04 Comprehensive genetic analysis for patients with inherited bone marrow failure syndrome

Jong Mi Lee¹², Hoon Seok Kim¹², Ari Ahn¹², Jisook Lim¹², Jae Won Yoo³, Seongkoo Kim³, Jae Wook Lee³, Bin Cho³, Nack-Gyun Chung³,

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PP10-01 Performances of targeted RNA sequencing for the analysis of fusion, mutation, and expression in ph like B-ALL

<u>Jing Li</u>

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PP10-02 Novel usefulness of krebs von den lungen 6 (KL-6) for assessing bone marrow fibrosis

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PP10-03 Diagnostic validity %Micro-R of the Sysmex Xn1000 for iron deficiency screening in adolescent female without anemia

Ikky Nabila Nandinanti and Tri Ratnaningsih*

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PP10-05 Evaluation of somatic hypermutation status and cytogenetic abnormalities in Korean patients with chronic lymphocytic leukemia

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PP10-06 Aplastic anemia and risk of incident atrial fibrillation - the good, the bad and the ugly

Wei Syun Hu

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PP10-07 Association of HTLV-1 bZIP factor with PICT1 impairs the nucleolar stress inducible RPL11/MDM2 complex

Takayuki Ohshima

Faculty of Science and Engineering, Tokushima Bunri University, Japan

PP10-09 Myeloproliferative Neoplasm (MPN)-associated gene mutations in non -MPN patients highlighting distinct features in plausible

ases

Daehyun Chu¹, Young-Uk Cho¹*, Seongsoo Jang¹, Miyoung Kim¹, Chan-Jeoung Park¹, Eul-Ju Seo¹, Eun-Ji Choi², Je-Hwan Lee² and Kyoo-

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PP10-10 Deep sequencing for BCR-ABL1 kinase domain variants analysis in chronic myeloid leukemia patients with TKI treatment

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PP10-11 Routine use of targeted RNA sequencing in leukemia patients and comparative evaluation with commercially available panels

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PP10-12 Hemoglobin concentration, leukocyte and platelet counts in patients with gestational diabetes

Nhu Cao Thi Bich, Thao Nguyen Van*, Tung Tran Thanh, Tuan Nguyen Huu, Thao Nguyen Thi, Ha Vy The, An Pham Thi Thuy, Diem Pham Ngoc and Trung Thai Minh Hematology, Cho Ray hospital, Viet Nam

PP10-13 Establishment of next-generation sequencing protocol for highly sensitive tracking of minimal residual disease in B-lymphoblastic

Hyeon Ah Lee¹, Jin Ju Kim², Saeam Shin^{2*}, Seung-Tae Lee² and Jong Rak Choi² ¹Department of Laboratory Medicine, Graduate School of Medical Science, Brain Korea 21 PLUS Project, Yonsei University College of Medicine, Seoul, Korea ²Department of Laboratory Medicine, Yonsei University College of Medicine, Seoul, Korea

PP10-14 Higher value of hemoglobin in optical methods of hematology analyzer ADVIA 2120 in diagnosing anemia

Adika Zhulhi Ariana and Tri Ratnaningsih*

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PP10-15 Diagnostic validity of percentage of hypochromic red cells (% HYPO) for iron deficiency screening without anemia

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PP10-17 Correlation of reticulocyte hemoglobin content (CHr) and iron status parameters

Pradita Sri Mitasari and Tri Ratnaningsih*

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PP10-18 Validation of a machine learning expert supporting system, immunogenius, using immunohistochemistry results of 3000 Korean patients with lymphoid neoplasms

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PP11-01 Iron deficiency anaemia presenting as idiopathic intracranial hypertension

Sanka Vijayabandara*, Dawpadee Dharmasena and Malika Udugama Teaching Hospital, Karapitiya, Galle, Sri Lanka

PP11-02 Risk factors associated with anemia among teens in Laguna, Philippines

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PP11-05 Impairment of invasion and maturation and decreased selectivity of plasmodium falciparum in G6PD Viangchan and Mahidol

Duangdao Palasuwan¹, Attakorn Palasuwan¹, <u>Kanyarat Boonpeng</u>¹, Mallika Imwong², Kasem Kulkeaw^{3*} and Nutpakal Ketprasit⁴ 'Oxidation in Red Cell Disorders Research Unit, Department of Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand ²Department of Molecular Tropical Medicine and Genetics. Faculty of Tropical Medicine. Mahidol University, Thailand

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PP11-08 Association of hematologic parameters with TMPRSS6 gene variations in iron deficiency anemia patients

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PP11-09 Identification of genetic alterations in TMPRSS6 gene of anaemic patients from tribal region of Tamil Nadu, India

<u>Balachandar vellingiri</u>^{1*}, Dhivya Venkatesan¹, Nimmisha Eruppakotte¹, Soumya Kizhakkillach¹, Harsha Ganesan¹, Arul Narayanasamy² and Abilash Valsala Gopalakrishnan³

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PP11-11 Identification of CYP2A6 alteration and its effect on sickle cell anaemia (SCA) in tribal population of Tamil Nadu. India

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PP11-12 Risk factors of anemia in pregnancy woman: primary healthcare centre

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PP11-13 Diagnostic performance of % hypo as discriminator parameter of iron deficiency and hemoglobinopaties

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PP11-14 Favism a common but rare seen cause for hemolytic anemia for glucose-6-phosphate dehydrogenase (G6PD) deficiency: a case

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PP11-15 How Do current health expenditure per capita, labor force participation rate, GDP per capita relate to the prevalence of anemia among pregnant and non-pregnant women in the Philippines?

Putri Ayu

Economics, Andalas University, Indonesia

PP11-17 Analysis of the influence of the prevalence of anemia among pregnant women, current health expenditure and stunting on the prevalence of anemia among children in the Philippines

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PP11-18 The effect of analysis nutritional status and blood adding tablets on anemia in pregnancy

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²Nursing, Bina Generasi Bangsa of College Foundation, Indonesia
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PP12-01 Single nucleotide polymorphisms of the HIF1A gene are associated with sensitivity of glucocorticoid treatment in pediatric ITP patients

Hao Gu, Runhui Wu* and Zhenping Chen

Hematology center, Beijing Pediatric Research Institute, Beijing Children's Hospital, Capital Medical University, China

PP12-02 Efficacy and safety of two different low-dose rituximab regimens for chinese children patients with primary immune thrombocy-topenia

Xiaojing Zhu, Xingjuan Xie, Jialu Zhang and Runhui Wu*

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

PP12-03 Comparison of AggreGuide A-100 with platelet function tests and thromboelastrography in patient with ischemic stroke

Hyunjung Kim, Hey Kyung Lee and Young Woo Kim'

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PP12-04 Rare acquired bleeding disorders in adolescents and young adults

Young Shil Park

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PP12-05 Incidence of complications in Korean patients with haemophilia A based on the Korean health insurance review and assessment service database: a study by the Korean pediatric hematology oncology group (KPHOG)

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PP12-06 CD4+CD25+FOXP3+, CD8+ predict development of chronic disease in newly diagnosed idiopathic Thrombocytopenia

 $\underline{Zhi\ Wang^{1,23}}$, Zhenping Chen^{1,23}, Hao Gu^{1,23}, Jingyao Zhang^{1,23}, Shuyue Dong^{1,23}, Xinjuan Xie^{1,23}, Lingling Fu^{1,23}, Jialu Zhang^{1,23} and Runhui Wu^{1,23*}

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PP12-07 Case of acquired hemophilia a post Covid-19 vaccination

Guang Yong Chong* and Nor Rafeah Tumian

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PP12-08 Effect of anti-nuclear antibody positivity on adult newly diagnosed immune thrombocytopenia prognosis

 $\underline{\text{Ngoc-Sang Nguyen}}^*, \text{Tuan Nguyen, Thanh-Thanh Suzanne and Tung Tran}$

Hemotology, Cho Ray Hospital, Viet Nam

PP12-09 Eltrombopag affects interferon-induced antiviral response through iron metabolism pathway

Yuefen Hu, Sai Ma and Jun Peng*

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PP12-10 Piper betel ethanolic extract prolongs prothrombin time (PT) in plasma of Group O and Group A blood donors

Evana Kamarudin

Medical Laboratory Department, University Technology MARA (UiTM), Malaysia

PP12-12 Clinical characteristics of hemophilia in Korea – data from the Korean bleeding disorder registry (KBDR)

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PP12-13 Increased TCRαβ+ double-negative T Cells in pediatric Primary Immune Thrombocytopenia

Xingjuan Xie¹, Runhui Wu^{2*}, Zhenping Chen¹, Hui Chen¹, Hao Gu¹ and Jingyao Ma²

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PP12-14 FOXO1 SNPs are associated with the severity and clinical outcome of pediatric immune thrombocytopenia in the Chinese population

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PP12-15	The metformin effect in adult patients with ITP and pre-existing T2DM
FFIZ-IJ	THE HIELIOHTHIT EHECLIH AGGIL DAHEHUS WILHTT AHG DIE-EXISTING (ZDIVI

Chaoyang Li, Ming Hou, Qi Feng* and Jun Peng

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PP12-16 Treatment and bleeding complications of cancer-associated venous thromboembolism: a Korean population-based study

Sang-A Kim¹, Ju Hyun Lee¹, Ji Yun Lee¹, Hun-Gyu Hwang², Yang-Ki Kim³, Ho-Young Yhim⁴, Junshik Hong⁵, Jeong-Ok Lee¹ and Soo-Mee Bang^{1*}

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PP12-17 Evaluation of guidelines for childhood primary immune thrombocytopenia

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PP12-18 Adapted guideline for the diagnosis and treatment of primary immune thrombocytopenia in children in China (2021 edition):

recommendations external review

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PP12-19 Immune thrombocytopenia and incidence of H. pylori infection - a prospective study from India

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PP12-22 To predict the pretest probability score in deep vein thrombosis (DVT) - a single center study

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PP12-23 Management of chronic adult ITP patients: a single center study

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PP12-24 An escalating treatment strategy for children with chronic immune thrombocytopenia: prospective clinical study from a single

center

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PP12-25 HDAC3 single-nucleotide polymorphism rs2530223 is associated with increased susceptibility and severity of primary immune

thrombocytopenia

Leng Shaogiu, MD, Liu Anli, MD, Wang Shuwen, MD, Peng J, MD

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PP13-01 Outcome of allogenic hematopoietic stem cell transplantation for pediatric acute lymphoblastic leukemia: a retrospective analysis

of a single-center

Hongbo He, Huyong Zheng and Bin Wang Hematology Center, Beijing Children's Hospital, China

$PP13-03 \qquad \text{Early infectious complications among adult autologous hematopoietic stem cell transplant recipients at the national kidney and} \\$

transplant institute

 $\underline{\textit{Ernest Matthew Paggabao}}^* \, \text{and Lynn Bonifacio}$

Internal Medicine, National Kidney and Transplant Institute, Philippines

PP13-05 Haploidentical stem cell transplantation using post cyclophosphamide: a single –center initial experience in Viet Nam

Van Man Huynh

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

PP13-07 Efficacy of imatinib mesylate in patients with steroid-refractory chronic graft-versus-host disease

 $\underline{Dong\ Won\ Baek^1}, Hee\ Jeong\ Cho^1, Ju-Hyung\ Kim^1, Jae\ Sook\ Ahn^2, Hyung\ Joon\ Kim^2, Sung\ Nam\ Lim^3, Jun\ Won\ Cheong^4, Sung-Yong\ Manney Gang, M$

Kim⁵, Ho Sup Lee⁶, Jong Ho Won⁷, Ho-Young Yhim⁸, Joon Ho Moon¹ and Sang Kyun Sohn^{1*}

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PP13-09 Immune reconstitution following autologous hematopoietic stem cell transplantation: a study from AIIMS

Mohini Mendiratta¹, Vineet Govinda Gupta¹, Sandeep Rai², Saroj Singh², Lalit Kumar¹, Ritu Gupta², Gajendra Smeeta² and Ranjit Kumar Sahoo^{1*}

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PP13-10 Post-transplant cyclophosphamide for GVHD prophylaxis in haploidentical peripheral blood stem cell transplantation

Jinhang Kim, Nanyoung Yun and Jeong-A Kim*

Hematology, St. Vincent Hospital, College of Medicine, The Catholic University of Korea, Korea

PP13-11 Outcome of infant younger than 1 year with acute lymphoblastic or myeloid leukemia following intensive chemotherapy and hematopoietic stem cell transplantation

<u>Bo Kyung Kim</u>, Kyung Taek Hong, Jung Yoon Choi, Hong Yul An, Hyun Jin Park and Hyoung Jin Kang* Pediatrics, Seoul National University College of Medicine, Korea

PP13-12 Symptomatic diarrhoeal and non-symptomatic clostridioides difficile infection (CDI) in hematopoietic stem cell transplantation recipients

Alka Khadwal

Clinical Hematology & Medical Oncology, Post Graduate Institute of Medical Education & Research, Chandigarh, India

PP13-13 The management and protocol of bone marrow transplantation (BMT) in the era of the COVID-19 pandemic: strategy to minimize risk of exposure to hazards

Lintong Hottua Simbolon¹, Aprilia Grace A. Maay²
¹Alumnus of University of Lampung, Indonesia
¹Public Health, Institute of Health, Papua, Indonesia

PP14-01 Expansion of human megakaryocyte-axis progeny via aryl hydrocarbon receptor antagonism of CH223191

 $\underline{Dongchan\ Kim^{12}}, Dong-Yeop\ Shin^{1,23*}, Jun\ Liu^{12}, Na-rae\ Jeong^{12}, Youngil\ Koh^{1,23}, Junshik\ Hong^{1,23}, Xinxin\ Huang^4, Hal\ E.\ Broxmeyer^5\ and\ Sung-Soo\ Yoon^{1,23}$

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PP14-02 Genetic variation of method of producing human liver stem cells or projenitor cells by direct reprogramming

<u>Haerani Haerani</u>

Midwifery, Sekolah Tinggi Ilmu Kesehatan Bina Bangsa Majene, Indonesia

PP14-03 BAFF blockade attenuates acute graft-versus-host disease directly via the dual regulation of T- and B-cell homeostasis

Youngwoo Jeon^{1,2}, Jung-Yeon Lim³, Keon-II Lim², Nayoun Kim² and Seok-Goo Cho^{1,2,4*}

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PP15-01 Mesenchymal stem cells application improves face hyperpigmentation

<u>Mahmood Saba</u>

Human Genetics & Molecular Biology, University of Health Sciences, Pakistan

PP15-02 A combination of immunoadjuvant nanocomplex and dendritic cell vaccine in the presence of immune checkpoint blockade for

effective cancer immunotherapy

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PP15-03 Antitumor activity of activated marrow-infiltrating lymphocytes in patients with multiple myeloma

Manh-Cuong VO, Sung-Hoon Jung and Je-Jung Lee'

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PP15-04 Potent antimyeloma efficacy of dendritic cell therapy in combination with pomalidomide and programmed death ligand 1 block-

ade in a preclinical model of multiple myeloma

Van-Tan Nguyen, Tan-Huy Chu, Manh-Cuong Vo, Sung-Hoon Jung and Je-Jung Lee*

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PP15-05 Novel IL-15 dendritic cells have a potent immunomodulatory effect in cancer immunotherapy

Hoyoon Shin, Tan-Huy Chu, Manh-Cuong Vo, Sung-Hoon Jung and Je-Jung Lee'

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

PP15-07 Filterless-filter: microfluidic approach for cell separation and concentration

Myeongwoo Kang¹, Taehwan Shin¹, Yujin Lee¹, Sunggyu Shin¹, Seungjung Song¹, Sungyoung Choi², Seong Soo A. An³, Jaewoo Song⁴, In

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PP15-08 Analysis of bone marrow mesenchymal stem cells for its protective effect on leber's hereditary optic neuropathy (LHON)

Mohana Devi Subramaniam* and Aswathy P Nair

SN ONGC Department of Genetics and Molecular Biology, Vision Research Foundation, CHennai, India

PP15-09 Material-based system for stem cell implant: aim to increase stem cell survival by drug

<u>Saher Khan</u>

Uttar Pradesh Rajarshi Tandon Open University, Uttar Pradesh Rajarshi Tandon Open University, Uttar Pradesh, India

PP16-01 Anaphylactic shock to a hematological disorder patient during transfusion of a platelet apheresis unit stored in platelet additive

solution: a rare case report

Bala Bhasker

Transfusion medicine, Sparsh Hospital, India

PP16-04 Detection of anti-B Antibodies in a patient with A1B blood group: a case report and literature review

Hee-Jeong Youk¹, Jin Seok Kim¹, Hyungsuk Kim², Sang-Hyun Hwang¹, Heung-Bum Oh¹, Yousun Chung³ and Dae-Hyun Ko^{1*}

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PP16-05 The effect of plasma transfusion platelet to red blood cell ratio on mortality and morbidity: update meta-analysis

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Mangunkusumo National Central General Hospital, Jakarta, Indonesia

PP16-07 Clinical significance of hemagglutination grades determined using the IH-1000 automated blood typing system: real world data

 $\underline{Bosung\ Park^1}, Jin\ Seok\ Kim^1, Hee-Jeong\ Youk^1, Yousun\ Chung^2, Hyungsuk\ Kim^3, Sang-Hyun\ Hwang^1, Heung-Bum\ Oh^1\ and\ Dae-Hyun\ Ko^{1*}$

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PP16-09 Effects of vitamin-C and L-carnitine as additives in stored erythrocytes

Masannagari Pallavi

Biotechnology, JAIN (Deemed-to-be University), India

PP16-12 Effect of patient characteristics on outcome of platelet transfusion in haemato-oncological patients

Rahul Katharia*, Vasundhara Singh, Rajendra Chaudhary and Priti Elhence

Department of Transfusion Medicine, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

PP17-01 Summary and analysis of 13 RAS-associated autoimmune leukoproliferative disease clinical features

Lingling Fu, Jie Ma, Jiafeng Yao, Rui Zhang, Yunyun Wei, Bixi Yang, Ruixin Wang, Hongmin Li and Runhui Wu*

 $He matologic\ Diseases\ Laboratory, Hematology\ Center, \textit{Beijing}\ Children's\ Hospital, Capital\ Medical\ University,\ National\ Center\ for\ Children's\ Health,\ Chinal\ Center\ Children's\ Hospital\ Center\ Children's\ Center\ Children's\ Hospital\ Center\ Children's\ Center\ Center\ Children's\ Cen$

PP17-02 Effectiveness of sirolimus in partial DiGeorge syndrome with refractory immune cytopenia: spot of elevated TCRαβ+

CD4-CD8-double-negative T cells

 $\underline{\text{Hao Gu}}$, Runhui Wu * and Zhenping Chen

Hematology center, Beijing Pediatric Research Institute, Beijing Children's Hospital, Capital Medical University, China

PP17-03 Effectiveness of sirolimus in a novel CTLA-4 haploinsufficiency with ALPS phenotype

<u>Hao Gu</u>, Wenjun Mou, Zhenping Chen and Runhui Wu

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PP17-04 Analysis of the relationship between the expression levels of neutrophil gelatinase-associated lipocalin and cytokine genes in bone

narrow

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PP17-06 Prolonged duration of the SARS-CoV-2 viral shedding in patients with oncohematological diseases

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PP17-07 Incidence of pregnancy-associated venous thromboembolism: second nationwide study

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PP17-08 Pregnancy and the barriers in preventing anemia during Covid-19: result from a qualitative study of nurse-midwives perception in

rural area

Mahyuddin Mahyuddin

Sociology, State Islamic Institute of Parepare, Indonesia

PP17-09 Machine learning in gene expression microarrays for leukemia cancer classification

<u>Rifaldy Fajar</u>*, Nana Indri Kurniastuti, Dewi Mustika Sari and Maria Rosalia Computational Biolov and Medicine Laboratory, Yoayakarta State University, Indonesia

PP17-10 Clinical characteristics and real world burden of Kimura's disease in Korea

 $\underline{\text{Hyun Jung Lee}^1}, \text{Myung Hee Chang}^{2*}, \text{Do Yeon Kim}^1, \text{Dal Yong Kim}^1 \text{ and Yueun Lee}^1$

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PP17-11 Epstein-Barr virus-related lymphoproliferative disease mimicking acute leukemia after mRNA COVID-19 vaccination

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PP17-16 Consideration of differences in SARS-CoV-2 vaccination strategies in patients with hematologic malignancies

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PP17-17 Xanthohumol suppresses interleukin-1ß secretion and prevents inflammation through inhibition of NLRP3 inflammasome

Chena Zhana

Department of Hematology, Shandong Provincial Hospital Affiliated to Shandong First Medical University, China

PP17-18 Anticoagulation in patients with antiphospholipid syndrome-related venous thromboembolism: a nationwide study

Hun-Gyu Hwang¹, Ju Hyun Lee², San-A Kim², Yang-Ki Kim³, Myung-Shin Kim¹, Junshik Hong⁴, Ho-Young Yhim⁵ and Soo-Mee Bang^{2*}

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PP17-19 Molecular abnormalities and their correlation with the prognosis of younger Indian patients with de novo myelodysplastic syn-

dromes: AIIMS study

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PP18-01 Acute critical illness and cancer risk: implications from a nationwide population based study in Asia

Wei Syun Hu

CMUH, Rep of China (Taiwan)

PP18-02 Comparison of CHA 2 DS 2-VASc, CHADS 2 and HATCH scores for the prediction of new-onset atrial fibrillation in cancer patients:

novel messages for hematologist

Wei Syun Hu

CMUH, Rep of China (Taiwan)

PP18-04 Factors associated with quality of life in patients with leukemia

Elaheh Alizargar

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PP18-06 Self efficacy approach for the prevention of acute lymphoblastic leukemia (ALL) in Indonesia

Mega Dwi Septivani

 $Department \ of \ Science \ Management, Alumnae \ of \ Universitas \ Gadjah \ Mada, Indonesia$

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References 1, Perl AE, et al. Gilteritinib or Chemotherapy for Relapsed or Refractory FLT3-Mutated AML, N Engl J Med. 2019 Oct 31:381(18):1728-1740. 2, HIRA Notice 2022-38 Released on Feb 25" 2022. Effective on Mar 1º 2022. 3. XOSPATA® Prescribing Information

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1. Warnings 1) Differentiation Syndrome 3% of 319 patients treated with this drug experienced differentiation syndrome. Differentiation syndrome is associated with rapid proliferation and differentiation of myeloid cells and may be life-threatening or fatal if not treated. Symptoms of differentiation syndrome in patients treated with this drug included fever, dyspnea, pleural effusion, pericardial effusion, pulmonary edema, hypotension, rapid weight gain, peripheral edema, ash, and renal dysfunction. Some cases had concomitant acute febrile neutrophilic dematosis, Differentiation syndrome occurred as early as 1 day and up to 82 days after this drug littlation and has been observed with or without concomitant feukcyotas, If differentiation syndrome is suspected, initiate corticosteroids and hemodynamic monitoring until improvement. Taper conficiosteroids after residution of symptoms and administer corticosteroids for a minimum of 3 days. Symptoms of differentiation syndrome may recur with premature discontinuation of corticosteroid treatment. If severe signs and/or symptoms persist for more than 48 hours after initiation of corticosteroids, interrupt this drug until signs and symptoms are no longer severe (see Peoplogy and method of administation and 4. Adverse reactions section). no borger severe (see Posology and method of administration and 14. Advisers reactions' section.)

2) Posterior Reversible Encephalopathy Syndrome (PRES) Three have been reports of PRES with symptoms including seizure and altered mental status in patients (%) treated with this fung. Symptoms have rescleded after discontinuation of treatment. A diagnoss of PRES requires confirmation by brain imaging, preferably magnetic resonance imaging (MRI). Discontinue this fung in patients with obereign PRES see Possdoy, and method of administration and 4. Adverser reactions' section.) 3) Profonged QT interval! Among the patients with this drug, 1% were reactions' section.) 3 Profonged QT interval! Among the patients with this drug, 1% were reactions' section.) 3 Profonged QT interval! Among the patients with this drug, 1% were reactions' section.) 4 Profonged QT interval! Control of base of QTG greatest than 500 mesc and 15 of cycle, 1 and prior to the start of the next two subsequent cycles; Intervall this drug on reduce the dose of this drug for treatment reinitiation in patients who have a QTGF 5500 mesc. (hypotelemia or hypomagnesmia prior to and during this drug administration of the see Possdoy and method of administration and 4. Adverser reactions' section.)

2. Contraindications hypersensitivity to the active substance or to any of the excipients of the product. Anaphylactic reactions have been reported. 3. Precauditions There have been reported. The productions There have been reported. 3. Precauditions There have been reported by a processitis in patients who develop particients who develop signs and symptoms suggestive of particients, but this drug, is build syndrome stocke, interrupt and reduce the dose of this drug for treatment reinitation in patients who develop particients who develop as a developed to the dose of this drug for treatment reinitation in patients who develop are creatified. A Adverse reaction of particients are also and the patients of the patients and the patients who developed and the patie (82,7%), aspartate aminotransferase (AST) increased (80,6%), blood alkaline phosphatase increased (68,7%). Blood creatine phosphokinase increased (53,7%), diarrhose (53,7%), etigliue (30,4%), etigliue (30,4%),

[Table 2] Adverse reactions observed during clinical studies

	this drug 120 mg daily (N=31		
Adverse drug reaction	A ll Grades %	Grades ≥3 %	Frequency category
Cardiac disorders			
Pericardial effusion	4,1	0.9	Common
Pericarditis	1,6	0	Common
Cardiac failure	1,3	1.3	Common
Electrocardiogram QT prolonged	8.8	2,5	Common
Gastrointestinal disorders			
Diarrhea	35,1	4,1	Very common
Nausea	29.8	1.9	Very common
Constipation	28.2	0.6	Very common
General disorders and administration site	e conditi		
Fatigue	30.4	3.1	Very common
Peripheral edema	24.1	0.3	Very common
Asthenia	13.8	2.5	Very common
Malaise	4.4	0	common
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 disc	rde		
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 disor	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		

Hypotension 17.2 7.2 Very common
Preferred term in MedDRA (v. 19.1). * Frequency is based on central laboratory values,
Description of selected adverse reactions 1) Differentiation syndrome 07 319 patients
treated with this drug in the clinical studies, 11 (3%) experienced differentiation syndrome, 09 (2%) recovered after treatment or
after dose interruption of this drug. For recommendations in case of suspected differentiation
syndrome, 9 (28%) recovered after treatment or
after dose interruption of this drug. For recommendations in case of suspected differentiation
syndrome (see Possclogy and method of administration and 1. Warning's section.) 2-Posterior
Reversible Encephalopathy Syndrome (PRES) of the 319 patients treated with this
after discontinuation of present existing particles of the section of the se Pl revision date: 2022.02.14 Effective date: 2022.03.01











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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.

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Months
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Months
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Median OS from POLIVY®+BR combination regimen and BR regimen was 12.4 mo and 4.7 mo respectively.

(Exploratory analysis, HR=0.42; 95% CI, 0.24-0.75; P=0.002)[†]

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*As defined by an IRC.

† Stratification by duration of response to prior therapy (≤12 months vs>12 months).

BR=bendamustine and rituximab; CI=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 injection (polatuzumab vedotin)

DMPOSITION
vial(448.5mg) contains
tive ingredient: Polatuzumab Vedotin (in-house)
cipient(stabilizer): Sucrose
ther excinients: Sodium Hydroxide Succinic Acid. Polysorhate 20.

APPEARANCE.
Colorless vial filled with white to grayish-white lyophilized cake. The reconstituted solution is colorless

slightly brown, c

INDICATION(S)

POLIVY in combination with bendamustine and rituximab is indicated for the treatment of adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL) who are not eligible for haematopoietic stem

DOSAGE AND ADMINISTRATION

UDSNEY AND OPINION INCLUDE.

The recommended use of Polity is 18mg/kg given at an intravenous influsion every 21 days in combination for evolutions the mention of the properties of the propert

administration should be adjusted to maintain a 2F-day interval between doses.

Dose Modifications The initiosion rate of Polity should be slowed or interrupted if the patient develops infusion-related reaction. Discontinue Polity immediately and permanently if the patient experiences a lithresterior macrition. For rose modifications for negatives for propriats use in Fability.

ble 1 Polivy dose modifications for Peripheral Neuropathy

	lable i Polivy dose modifications for Peripheral Neuropathy		
	Severity on Day 1 of any cycle	Dose modification	
	Grade 2-3	Hold Polivy dosing until improvement to ≤ Grade \(\text{L}\) if recovered to Grade \(\text{L}\) in on or before Day 14, restart Polivy at a permanently reduced dose of 1.4mg/kg, if a prior dose reduction to 1.4mg/kg has occurred, discontinue Polivy. If not recovered to Grade \(\text{L}\) in on or before Day 14, discontinue Polivy.	
	Grade 4	Discontinue Polivy.	

For dose modifications for myelosuppression see Table 2.

of any cycle	Dose modification"
Grade 3-4 Neutropenia	Hold all treatment until AMC recovers to 9000/Lul. If AMC recovers to 1000/Lul on of before Day 7, resume all treatment without any additional dose reductions. If AMC recovers to 1000/Lul after Day 7. restart all treatment, with a dose reduction of bendamustine from 90mg/m² to 70mg/m² or 70mg/m² to 50mg/m². If a bendamustine dose reduction to 50mg/m² has already occurred, discontinue all treatment.
Grade 3-4 Thrombocytopenia	Hold all treatment until platelets recover to 75.000/LL. If platelets recover to 75.000/LL on or before Day 7, resume all treatment without any additional dose reductions. If platelets recover to 75.000/LL after Day 7. restart all treatment, with a dose reduction of bendamustine from 90mg/m² to

primary cause is due to lymphoma, the dose of bendamustine may not need to be reduced.

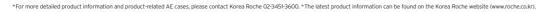
Table 3 Polivy, bendamustine and rituximab dose modifications for Infusion-related reactions (IRR:

	Severity of IRR on Day 1 of any cycle	Dose modification
	Grade 1-3 IRR	Interrupt POLIVY inclision and give supportive treatment. For the first indiance of Grade's whereigh, bronchospsm, or generalized urticaria, permanently discontinue Polivy. For recurrent Grade's whereing or urticaria, or for recurrence of amy Grade's symptoms, permanently discontinue Polivy. Otherwise, upon complete resolution of symptoms, infusion may be resumed at 50% of the rate achieved prior to interruption. In the absence of intrision-related symptoms, the rate of infusion may be escalated in increments of 50mg/hour every 30 minutes. The properties of the pr
	Grade 4 IRR	Stop Polivy infusion immediately. Give supportive treatment. Permanently discontinue Polivy.

PRECAUTIONS FOR USE

CONTRAINDICATIONS Polivy is contraindicated in patients with a known hypersensitivity to polatuzuma vedotin or any of the excipients.

Polivy-2020-10-27-1.









FN Prophylaxis through every cycle

Neulasta[®] used first and every cycle helps reduce the incidence of febrile neutropenia





with KYMRIAH®

In R/R DLBCL,

DURABLE EFFICACY

- 2-year PFS rate of 33% & OS rate of 40%
- mDOR not reached at 40.3 months¹
- ORR 52% (95% CI 41-62) & CR 40%²

QUALITY OF SURVIVAL

- Low rates of CRS (1-4.5%) & neurotoxicity (0-5%) in the real world^{3,4}
- QoL improvements

CONVENIENCE & FLEXIBILITY

- Simple, 1-time infusion⁶
- Flexible scheduling



의약품통합정보시스템(https://nedrug.mfds.go.kr)을

Product Information 킴리아주 (티사젠렉류셀)

처방하시기 전 QR 코드 또는 식품의약품안전처

• 25세 이하의 소아 및 젊은 성인 환자에서의 이식 후 재발 또는 2차재발 및 이후의 재발 또는 불응성 B세포 급성 림프성 백혈병

NOW APPROVED

2021년 3월 국내 허가 승인

세계 최초의 CAR-T 세포 치료제 KYMRIAH®

(B-cell acute lymphoblastic leukemia, ALL)의 치료 두가지 이상의 전신 치료 후 재발성 또는 불응성 미만성 거대 B세포 림프종

(diffuse large B-cell lymphoma, DLBCL) 성인 환자의 치료







INFORMATION

제품명 : 부실펙스 주(바이일)(부설판)(성분명 : Busulfan) 성상 : 이 약은 바이일에 충전된 무색의 액상주사제이다. 성분·함량 : 이 약 1바이일(10ml)중 (주성분) 부설판(USP) : 60.0mg (첨기제) 폴리에틸렌글리콜400 6.7mL, 디메틸아세트아미드 3.3mL 효능효과 : 다음 질환에 대하여 시클로포스파미드 와 병용하여 초혈모세포 이식시 전치되었었다고로 시용한다 : 급성 백혈병, 만성 골수성 백혈병, 림프중, 골수 이형성증후 군 용반·용량 : 1) 성인 0.8 mg/kg으로서 이상 체중 또는 그 보다 낮으는 실제 체중을 작용하여 색임간 매 6시간마다 16회를 중심 정명 가테터를 통하여 2시간 동안 투여한다. 시클로쪼스파미드는 이 약 16회째 요법이 인료된 6시간 후, 골수이에 개시 3일전에 60 mg/kg용장으로 한시간 동안 '이를간' 주인한다. 자체중으로 시작한 비만 환자의 경우, 교정 이상 체중(AIBW)에 근거하여 용량을 신정하여야 한다. 이상 체중(IBW)은 다음과 같이 계산된다. (단위 : 신장 cm, 몸무게 kg) IBW(남성) = 50 + 0.91 × (신장 - 152) IBW(여성) = 45 + 0.91 ×





CML/Ph(+)ALL

T315I mutation disease or After failure of 2nd generation TKIs



1. Massaro F, et al. Curr Cancer Drug Targets. 2018;18(9):847-856.

Product Information

[제품명] 아이클루시그정15밀리그램(포나티납엽산염) 아이클루시그정45밀리그램(포나티납염산염) [정성] 흰색의 양면이 볼록한 원형 필름코팅 정제 [효능효과] 1. 다른 티로신 키나제 억제제(TKI)로 치료되지 않는 만성기, 가속기, 급성기 만성 골수성 백혈병(CML) 또는 필라델피아 염색체 양성 급성 림프구성 백혈병(Ph+ ALL) 성인 환자의 치료. 2. T315l 양성 만성기, 가속기, 급성기 만성 골수성 백혈병(CML) 또는 필라델피아 염색체 양성 급성 림프구성 백혈병(Ph+ ALL) 성인 환자의 치료. [8번용량] 1. 권장 용량 권장 시작 용량은 1일 1회 45mg 이다. 주요 세포유전학적 반응에 도달한 만성기 CML 및 가속기 CML 환자에 대해 이 약의 감량을 고려해야 한다. 3개월 (90월)까지 반응이 없다면, 이 약의 중단을 고려해야 한다. 이 약은 음식물에 삼관없이 복용할 수 있다. 정제는 통째로 성격야 한다. [사용상주의사항] 1. 경고 1) 동맥 폐쇄제 1상 및 제 2상 임상시험에서 이 약을 투여 받은 환자 중 최소 35%에게서 치명적인 심근경색, 뇌출중, 뇌의 큰 동맥 협착, 중증 말초혈관 질환을 포함한 동맥 폐쇄 가 발생하였다. 제2상 임상시험에서 최소 48개월 추적조사 시 치료를 지속중인 환자(N=133)를 포함한 이 약을 투여 받은 환자 중 33%(150/449)가 심혈관(21%), 모호혈관(12%), 또는 뇌혈관(9%) 동맥폐쇄 서례를 경험하였으며, 일부 환자는 1가지 유형 이상의 문맥폐쇄 사례를 경험하였다. 이 약은 치료 시작 후 2주 이내 및 하루 15mg 정도의 낮은 용량에도 치명적이고 생명을 위협하는 동맥 폐쇄를 유발할 수 있다. 또한 이 약은 재발성 또는 다병소성 혈관 폐쇄를 유발할 수 있다. 환자들은 이 약에 의한 결관 패보로 인해 혈관재개통술 (관상통맥, 뇌혈관 및 말초동맥)을 받아야 했다. 제 2상 임상시험에서, 최초 심혈관, 뇌혈관 및 말초동맥 폐쇄성 사례의 발생 시까지의 기간 중앙값은 각각 193일(범위: 1-1355), 526일(범위: 5-1339), 478일(범위: 3-1344)이 있다. 심혈관 위험이지가 있었던 환자와 않았던 환자 모두에서 이러한 사례들은 검험하였으며, 여기에는 50세 이하 환자도 포함되어 있었다. 동맥 폐쇄 서례가 나타난 환자에서 관찰된 가장 흔한 위험인지는 고형업(영수, 93/150), 국고회혈증(61%, 91/150) 및 심정질환 병력(48%, 72/150)이었다. 동맥 폐쇄성 이상시현들은 연령이 증가할수록, 그리고 허혈, 교험일, 당보 또는 고지혈증의 과거력이 있는 환자일수록 더 흔하게 나타났다. ※기타 상세한 사형은 최신의 제품설명서를 참조하시기 바랍니다.



CKSH 2023

2023 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 64th ANNUAL MEETING

MARCH 30 - APRIL 1, 2023

The Korean Society of Hematology



The Korean Society of Hematology

ICKSH 2022 Secretariat: PEOPLE-X., Com. 1F, Haeoreum B/D 16, Yeoksam-ro 17 gil, Yeoksam-dong, Gangnam-gu, Seoul 06246, Korea Tel. +82-2-566-6031, 6033 Fax. +82-2-566-6087 E-mail icksh@ickshorg



2022 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE $\&\,63^{\rm rd}$ ANNUAL MEETING