



## PROGRAM AND ABSTRACT BOOK

# 18<sup>th</sup> Annual Meeting of Asian Society for Neuro-Oncology

## ASNO

*Bali* "Building Capacity for Neuro-Oncology in Asia:  
Existing Opportunity and Future Directions"

In Conjunction with

### 3<sup>rd</sup> Scientific Meeting of INASNO

#### Pre-ASNO 2023 Teaching Courses

Wednesday - Thursday, 25 - 26 October 2023

#### Pre-ASNO 2023 Clinical Trial Scholar Course & Educational Session

Thursday, 26 October 2023

#### ASNO 2023 & Exhibition

Friday - Sunday, 27 - 29 October 2023



**Hyatt Regency Hotel | Sanur, Bali - Indonesia**

**Weds, 25 October 2023**

**TEACHING COURSE**  
- Low Grade Glioma

**Thurs, 26 October 2023**

**TEACHING COURSE**  
- Awake Surgery & IOM in NO  
- High Grade Glioma

**EDUCATIONAL SESSION**  
- Clinical Trial Scholar Course  
- Neuropathology Program -  
Adaptation to WHO 5th Program

**Fri – Sun, 27 – 29 October 2023**

**18th Annual Meeting of Asian Society  
for Neuro-Oncology**  
*In Conjunction with*  
**3rd Scientific Meeting of INASNO  
& Exhibition**  
**E-Posters**  
**Oral Presentations**

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## ABOUT ASNO

ASNO is organized to promote the development of the field of neuro-oncology in the Asian region. The aims of the society are:

- By establishing and promoting high standards for the treatment of patients with cancer affecting the nervous system
- By elevating and sustaining the education of all involved in neuro-oncology
- By encouraging mutual fellowship, goodwill, and scientific collaboration among physicians and scientists actively involved in the field of neuro-oncology.

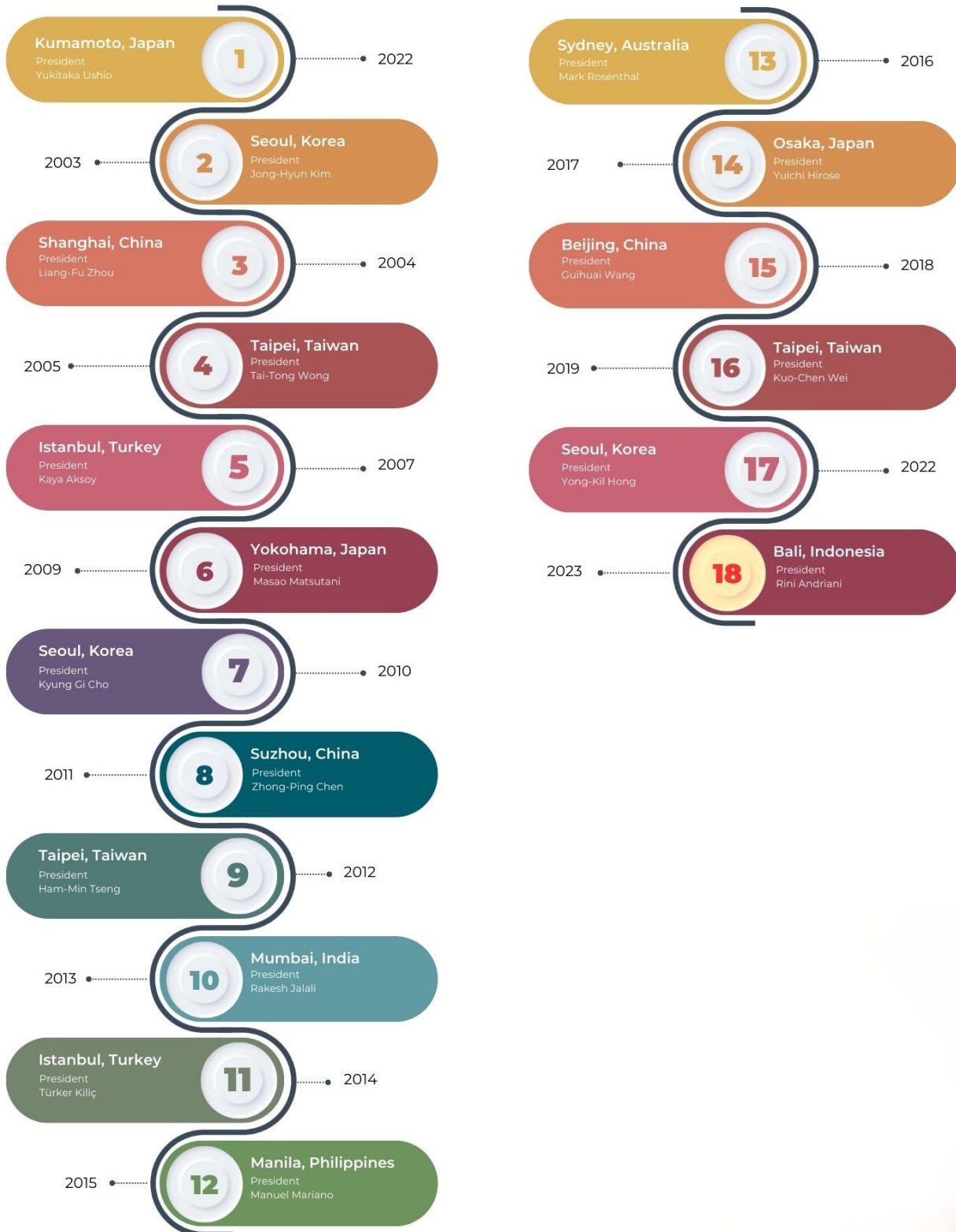
The organization has widened its coverage to become a multi-disciplinary group, by welcoming neurosurgeons, radiation oncologist, paediatric and adult oncologists, neurologists, neuropathologists, neuroradiologists, neuroscientists, neuropsychologists, neuropsychiatrists, and allied health professionals.

### HISTORY OF THE ASIAN SOCIETY FOR NEURO-ONCOLOGY (ASNO)

To talk about our history, we should go back to the 1st World Federation of Neuro-Oncology (WFNO) Meeting in 2001 in Washington, D.C., USA, which was held just a couple of months after the September 11 tragedy. During the Meeting, Prof. Mitchel S. Berger, UCSF, the President of the 1st WFNO Meeting, encouraged professors Yukitaka Ushio, Kumamoto, Japan, and Masao Matsutani, Saitama, Japan, to establish a neuro-oncology society in Asia. At this business meeting, this was decided that the European society would organize the WFNO Meeting in 2005, and, then, the Asian society should organize the 3rd WFNO Meeting in 2009.

In 2002, we had the memorable 1st meeting of the Asian Society for Neuro-Oncology, in Kumamoto, Japan. The original core member countries were, Korea, China, Taiwan, Turkey, and Japan. Please find a picture of the original central members at the Kumamoto Meeting. Since then, we have had 16 meetings as shown. In 2009 the 6th meeting was held together with the 3rd WFNO Meeting, in Yokohama, Japan. In 2020 and 2021, the Meetings was canceled because of the pandemic. In 2022, we have the 17th Meeting in Seoul, Korea, together with the 6th WFNOS Meeting.

## ASNO CONGRESS MILESTONES



## FOREWORD

### From President of the Indonesian Society for Neuro-Oncology (INASNO)

Dear Colleagues,

The upcoming 18th Annual Meeting of the Asian Society for Neuro-Oncology (ASNO 2023), in conjunction with the 3rd Scientific Meeting of INASNO, will be set on the beautiful island of Bali – Indonesia, the famed island of Gods, where we shall meet up. Bali is more than a place; its mood; its aspiration, whereas the Scientific Committee has prepared an exciting simultaneous 3-day Schedule on Friday - Sunday, 27 - 29 October 2023 at Hyatt Regency Hotel, Sanur, Bali – Indonesia to fully load up on the latest and upcoming “Building Capacity for Neuro-Oncology in Asia: Existing Opportunity and Future Directions” in Neuro-Oncology. ASNO 2023 has also provided fruitful Teaching Courses to enhance and create a new breed of skilled manpower in Neuro-Oncology as its pre-setting on Wednesday - Thursday, 25 - 26 October 2023.

ASNO has dedicated itself to promoting advances in Neuro-Oncology through research. Every year over 300-400 medical professionals from 10 member countries of ASNO gather. Together with worldwide invited speakers, we share knowledge and experience focusing on the diagnosis, treatment, pathology, and biology of brain tumors, engage in spirited discussion and enjoy the hospitality of islands of gods and friends.

With the support of the Asian Neuro-Oncology Society (ASNO), world-class and famous international faculty speakers will present ASNO 2023 to share their thoughts, perspectives, and the latest technology, ensuring an exciting and interactive annual meeting. We do hope that ASNO 2023 can give participants widened understanding of neuro-oncology standardization; an updated and advanced knowledge concerning Neuro-Oncology to foster high standards for treating patients with cancer affecting the nervous system.

The ASNO 2023 is your opportunity to influence your specialty and promote the art and science of Neuro-Oncology, raising awareness amongst doctors, scientists, and other allied healthcare professionals in this exciting field. We aim to provide plenty of opportunities to interact and network with each other for mutual collaboration in this prestigious event.

Warmest welcoming you to the island of Gods!

Dr. dr. Rini Andriani, Sp.S(K)  
President of Indonesian Society for Neuro-Oncology (INASNO)

## FOREWORD

### From Chairman of 18th Annual Meeting of Asian Society for Neuro-Oncology (ASNO) 2023

Dear Colleagues and Friends,

It is our sincere honor and pleasure to greet you all at the upcoming 18th Annual Meeting of the Asian Society for Neuro-Oncology (ASNO) 2023 in conjunction with the 3rd Scientific Meeting of INASNO at our iconic island of Gods, Bali, Indonesia. We provide a challenging experience to load up and freshen our knowledge with the most recent updated research and information. We have prepared and will conduct an interactive three-day symposium on 27th- 29th October 2023 at Hyatt Regency Hotel, Sanur, Bali – Indonesia. We also provide some great workshops to enhance your skills in Neuro-Oncology fields with conjunction event Pre-ASNO on 25th-26th October at the same venue. Our upcoming event will bring up the theme “Building Capacity for Neuro-Oncology in Asia: Existing Opportunity and Future Directions” in such an unforgettable way and new exotic experience and ambiance that we can explore in Bali – Indonesia.

Indonesia, a member country of ASNO, has been honored to host the annual meeting promoting advanced and recent studies through breakthrough research across the lands. As a developing country, this will be an excellent opportunity for over 300-400 medical professionals from 10 member- nations of ASNO to gather and explore a new perspective and updates toward neuro-oncology knowledge and technology development in Asia, especially Indonesia. We provide a new approach to the diagnosis, treatment, pathology, and biology of brain tumors, elaborate on the multi-perspective discussion, and open the opportunity to new ideas and research to be published and presented in our main event.

World-class and famous international faculty speakers will present ASNO Bali 2023 to share their thoughts, perspectives, and the latest technology, ensuring an exciting and interactive annual meeting with the support of society. We expect ASNO Bali 2023 could provide a better understanding and widen the perspective of the participants towards neuro-oncology standardization, an updated and advanced knowledge concerning Neuro-Oncology to foster high standard for treating patients with cancer affecting the nervous system.

Now is the right time for you to enroll in one of the best Annual Asia-Pacific Meeting on Neuro-Oncology updates, thus promoting the art and science also raising awareness amongst doctors, scientists, and other allied healthcare professionals in this exciting field. We aim to provide plenty of opportunities to interact and network with each other for mutual collaboration in this prestigious event.

Most tremendous gratitude for your excitement towards ASNO Bali 2023



dr. Henry Riyanto Sofyan, Sp.N(K)  
Chairman of 18th Annual Meeting of Asian Society for Neuro-Oncology (ASNO) 2023

## ORGANIZING COMMITTEE

### PATRON

Teguh A.S. Ranakusuma (Neurologist) Founder  
Indonesian Society for Neuro-Oncology, President - Rini Andriani (Neurologist)  
Indonesian Neurological Association, President  
Indonesian Neurosurgical Society, President  
Indonesian Radiation Oncology Society, President  
Indonesian Society of Hematology Medical Oncology, President  
Indonesian Association of Pathologists, President  
Indonesian Psychiatric Association, President  
Indonesian Physical Medicine and Rehabilitation Association, President  
Indonesian Pediatric Society, President  
Indonesian Association of Clinical Pathologist and Laboratory Medicine, President  
Indonesian Society of Radiology, President  
Neuro-Oncology Task Group Comprehensive Cancer Center Dr. Cipto Mangunkusumo Hospital - Indonesia  
Neuro-Oncology Multidisciplinary Tumor Board Dharmais National Cancer Hospital - Indonesia  
ASNO Central

### EXECUTIVE COMMITTEE

**Chairman:** Henry Riyanto Sofyan (Neurologist)  
**Vice-Chairman:** Rusdy Ghazali Malueka (Neurologist)  
**Secretary I:** Sylvanie Ratna Permatasari (Neurologist)  
**Secretary II:** Irma Savitri Madjid (Neurologist)  
**Treasurer I:** Feranindhya Agiananda (Psychiatrist)  
**Treasurer II:** Dessika Rahmawati (Neurologist)

#### Scientific Committee

Chairman: Tiara Aninditha (Neurologist)  
Members: Rini Andriani (Neurologist)

#### Event Program

Chairman: Rahmi Ardhini (Neurologist)  
Members: Nadia Ayu Mulansari (Hematologist-Medical Oncologist)

#### Registration, Accommodation & Consumption:

Ni Putu Witari (Neurologist)  
Elsa Susanti (Neurologist)

#### Publication & Social-Media:

Yunni Diansari (Neurologist)  
Joice Rosewitasari Aryanti Djohansjah (Neurologist)

#### Poster & Rapid Reports:

Kusumo Dananjoyo (Neurologist)  
Djohan Ardiansyah (Neurologist)

## FORMAT OF THE PROGRAM

### PRE-ASNO 2023: TEACHING COURSE

To emphasize the importance of this essential part of its annual meeting, ASNO 2023 will organize a broad spectrum of teaching courses, which consist of special design courses and case studies, as its Pre-Symposium programs, enhancing the learning process through suite of its expertise and resources. The Pre-Symposium Teaching Courses program will be held each half-day from Wednesday - Thursday, 25 - 26 October 2023. See *the detailed program*.

### PRE-ASNO 2023: EDUCATIONAL SESSION - CLINICAL TRIAL SCHOLARS COURSE

Given the momentum of the second part of the clinical trial course generated on July/August 2023, ASNO will conduct the Clinical Trial Scholars Course that is eligible for all Registrants of ASNO 2023 in pre-setting on Thursday, 26 October 2023

### PRE-ASNO 2023: EDUCATIONAL SESSION - NEUROPATHOLOGY PROGRAM: ADAPTATION TO WHO 5<sup>TH</sup> PROGRAM

Organized by the Asian Society of Neuro-Oncology (ASNO), which has continuously kept its workforce to deliver the educational session on how to implement the most recent WHO neuropathology classification that has been known to neurologists, neurooncologists, neurosurgeons, and scientists in Asia widely. The Organizing Committee cordially invites all the Registrants to join this educational session in pre-setting on Thursday, 26 October 2023.

### ASNO 2023 EXHIBITION & E-POSTER VIEWING SESSION

The ASNO 2023 will host a scientific exhibition from Friday - Sunday, 27 - 29 October 2023, in conjunction with the scientific meeting scheduled, including the latest technology, equipment for clinical management of neuro-oncology, research, and literature. The exhibition area, as well as E-Posters, is in WANTILAN 5 Room – Hyatt Regency Hotel, Bali - Indonesia, as well as the daily coffee/tea breaks and lunch for all registrants.

### KEYNOTE LECTURE

These State-of-the-Art lectures will be presented in ASNO 2023 meeting with the most recognized global guest lecturers, highlighting various advances and updates in neuro-oncology by international key experts from societies' members.

### THEMATIC SESSIONS

These sessions include lectures and sharing experiences by key experts on related topics and some of these sessions have been organized with the participation of our industry patrons. These thematic sessions are held daily from Friday - Sunday, 27 - 29 October 2023, in a plenary setting on each particular interest.

### EXPERTS SESSION

A one-hour afternoon get-togethers meetings provide a productive forum for neuro-oncology issues by focusing on active interaction between panelists and participants to ensure the most advantages of the scientific session, making lasting connections between colleagues and participants who encounter similar issues.

### ORAL PRESENTATION

Free Paper Presentations are opportunities for registrants interested in the various field of Neuro-Oncology, who meet the criteria after selection and are willing to communicate the results of their research or case reports.



## GENERAL INFORMATION

**EVENT** 18<sup>th</sup> Annual Meeting of Asian Society for Neuro-Oncology (ASNO) in conjunction with the 3<sup>rd</sup> Scientific Meeting of INASNO

**THEME** "Building Capacity for Neuro-Oncology in Asia: Existing Opportunity and Future Directions"

### ORGANIZED BY

Indonesian Society for Neuro-Oncology

### ALLIANCE

Indonesian Neurological Association

Indonesian Neurosurgical Society

Indonesian Radiation Oncology Society

Indonesian Society of Hematology Medical Oncology

Indonesian Association of Pathologists

Indonesian Psychiatric Association

Indonesian Physical Medicine and Rehabilitation Association

Indonesian Pediatric Society

Indonesian Association of Clinical Pathologist and Laboratory Medicine

Indonesian Society of Radiology

Neuro-Oncology Task Group Comprehensive Cancer Center Dr. Cipto Mangunkusumo Hospital - Indonesia

Neuro-Oncology Multidisciplinary Tumor Board Dharmais National Cancer Hospital - Indonesia

### SUPPORTED BY

Asian Society for Neuro-Oncology (ASNO)

### INTENDED PARTICIPANTS

As a multi-disciplinary group, ASNO & INASNO are involving medical professionals audience from 10 member-countries from the specialty of Neurologists, Neurosurgeon, Psychiatrists, Radiation-oncologists, Radiologists, Pediatric and Adult Oncologists, Clinical Pathologists, Pathologists, Anesthesiologist, Neuroscientists, General Practitioners, Residents, and Allied Health Professionals.

### PLACE

Hyatt Regency Hotel, Sanur, Bali – Indonesia

## AGENDA

### PRE-ASNO 2023: TEACHING COURSE

Wednesday, 25 October 2023

-Low Grade Glioma

Thursday, 26 October 2023

-Awake Surgery & Intraoperative Monitoring in Neurooncology

-High Grade Glioma

### PRE-ASNO 2023: EDUCATIONAL SESSIONS

Thursday, 26 October 2023

-Clinical Trial Scholars Course

-Neuropathology Program - Adaptation to WHO 5th Program

### ASNO 2023

Friday – Sunday, 27 – 29 October 2023

18<sup>th</sup> Annual Meeting of Asian Society for Neuro-Oncology Symposium, E-Poster Viewing & Exhibition, and Oral Presentations

### E-CERTIFICATION

ASNO 2023 provides the Accreditation of the Indonesian Medical Association for medical professionals. The E-Certificate of attendance will be provided on 29 October 2023 at 14.00 hours. There will be no printed version of the certificate.

### OFFICIAL LANGUAGE

The official language of the ASNO 2023 is in English. English will be used for all printed materials. Simultaneous translation will not be provided.

### DISCLAIMER

Every attempt will be made to present the program as printed. However, Organizers and its agent reserve the right to alter or cancel, without prior notice, any of the arrangements, timetables, plans, or other items related.

## RE-REGISTRATION INFORMATION

All registrants must appear at the registration counter to complete re-registration procedures and acquire the official participants' wristband. The re-registration counter, located at **WANTILAN 4** Room - Hyatt Regency Hotel Sanur, Bali - Indonesia, will be available during the following opening hours:

- Wednesday, 25 October 2023 07.00 – 17.00
- Thursday, 26 October 2023 07.00 – 17.00
- Friday, 27 October 2023 07.00 – 17.00
- Saturday, 28 October 2023 07.00 – 17.00
- Sunday, 29 October 2023 07.00 – 12.00

To facilitate on-site registration, unsettled registration, and accommodation payments, participants can make the payment by credit card during October 24th –29th 2023.

### PARTICIPANTS ID

18th Annual Meeting of Asian Society for Neuro-Oncology (ASNO) 2023 Participants' Wristband will be issued as you foresee at the Registration Counters. The wearing of participants wristbands is compulsory for participants to enter the scientific meeting room and exhibition/luncheon area.

### REGISTRATION FEE INCLUDES

- Admission to scientific sessions.
- Entrance to the Exhibition & Luncheon.
- E-Program & Abstract Book
- E-Certificate with Indonesian Medical Association Accreditation

### E-CERTIFICATE OF ATTENDANCE

18th Annual Meeting of ASNO 2023 will provide official digital Certificate of Attendance for all registrants, with Indonesian Medical Association and Indonesian Pediatric Society Accreditation to provide the following CME activity for medical specialists and/or general practitioners. No printed version of the certificate will be provided.

### REGISTRATION & ROOM RESERVATION NO SHOW POLICY

No show for not attending the symposium or workshops, postponed and/or delayed for the room reservation will automatically cancel the entire registration and/or reservation, thus cause the loss of the deposit made. It's non refundable.

## **SPEAKERS/MODERATOR GUIDELINES**

### **SPEAKER SLIDE PREVIEW & LUNCHEON ROOM**

The Speaker Slide Preview Room for Speakers is located at **WANTILAN 2** Room, Hyatt Regency Hotel Sanur, Bali - Indonesia, in conjunction with the Luncheon for Speakers/Chairpersons and the Organizing Committee.

### **SPEAKERS/MODERATOR FORESEEN**

All Speakers, Chairpersons, and the Organizing Committee may get their privilege name badge and administration settlements in the mentioned Speakers Slide Preview room, as well as confirming their attendance as foreseen. E-certificate of attendance will be emailed post-event.

### **SPEAKERS SLIDE PREVIEW**

- Presenters are responsible for their PowerPoint check-up and arrangement preparation at least 1 hour before the session.
- Slide Preview Counter is for speaker's slide personal check-up and arrangement only. The slides should be handed over directly to the operator of the audio-visual desk inside the mentioned conference room at least 1 hour before the session starts.
- All speakers are not allowed to print their materials in the slide preview room. Printers are not provided in the Slide Preview Room.
- All speakers should collect their presentation materials from the audio-visual desk immediately after their session ends. Presentation materials are privately proprietary and will not be distributed without the speaker's permission.

### **SPEAKERS AND CHAIRPERSON'S TIPS**

- All speakers and moderators must be familiar with the date, time, and place of their sessions. They are expected to get inside the meeting room at least 30 minutes before the sessions commence and report their attendance to the Audio-Visual Desk person-in-charge, which position is next to the podium in the ballroom.
- Speakers are required to complete their presentation within the time frame allocated. Moderators and speakers are required to adhere to the time limits.
- Moderators are in charge of presenting each speaker in their sessions and are responsible for starting and ending each session on time.
- Moderators may read the brief resume of the speaker before the presentation starts. The speaker's CV or resume will be displayed on the main screen, as well as in the Program Book.
- Moderators are in charge of leading the discussion in the related session.

## PROGRAM OVERVIEW

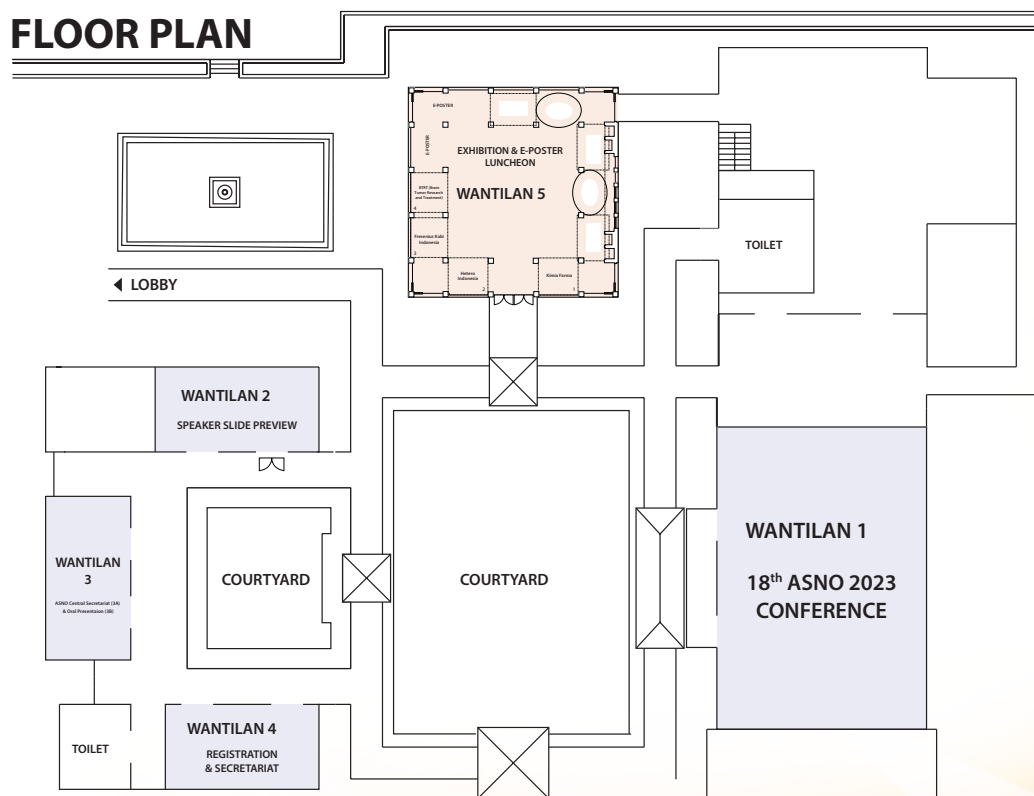
### PRE-ASNO 2023

ROOMS	25-Oct-23		26-Oct-23	
	AM	PM	AM	PM
WANTILAN 2			TC. AWAKE SURGERY	EDUCATIONAL SESSION NEUROPHATOLOGY PROGRAM Adaptation to WHO 5 <sup>th</sup> Program
WANTILAN 3	TC. LOW GRADE GLIOMA		EDUCATIONAL SESSION CLINICAL TRIAL SCHOLAR COURSE	TC. HIGH GRADE GLIOMA
WANTILAN 4	REGISTRATION & SECRETARIAT / LOGISTIC		REGISTRATION & SECRETARIAT / LOGISTIC	
WANTILAN 5				

### ASNO 2023

ROOMS	27-Oct-23		28-Oct-23		29-Oct-23	
	AM	PM	AM	PM	AM	PM
WANTILAN 1	18 <sup>th</sup> ANNUAL MEETING of ASIAN SOCIETY for NEURO-ONCOLOGY (ASNO) DAY1		18 <sup>th</sup> ANNUAL MEETING of ASIAN SOCIETY for NEURO-ONCOLOGY (ASNO) DAY 2		18 <sup>th</sup> ANNUAL MEETING of ASIAN SOCIETY for NEURO-ONCOLOGY (ASNO) DAY 3	
	ORAL PRESENTATION		GENERAL ASSEMBLY			
WANTILAN 2	SPEAKER SLIDE PREVIEW VIP COFFEE / TEA BREAK LUNCHEON ROOM		SPEAKER SLIDE PREVIEW VIP COFFEE / TEA BREAK LUNCHEON ROOM			
WANTILAN 3	COMMITTEE(S) MEETING	ORAL PRESENTATION	ORAL PRESENTATION	EXECUTIVE BOARD MEETING		INASNO BUSINESS MEETING
WANTILAN 4	REGISTRATION & SECRETARIAT / LOGISTIC		REGISTRATION & SECRETARIAT / LOGISTIC		REGISTRATION & SECRETARIAT / LOGISTIC	
WANTILAN 5	EXHIBITION / E-POSTER VIEWING / COFFEE BREAK / LUNCH		EXHIBITION / E-POSTER VIEWING / COFFEE BREAK / LUNCH		EXHIBITION / E-POSTER VIEWING / COFFEE BREAK / LUNCH	

## FLOOR PLAN



## SCIENTIFIC PROGRAM

### WEDNESDAY, 25 OCTOBER 2023

#### PRE-ASNO 2023: TEACHING COURSE

##### LOW GRADE GLIOMA

WEDNESDAY, 25 OCTOBER 2023, 07.30 – 12.10

WANTILAN 3 ROOM, HYATT REGENCY HOTEL SANUR, BALI - INDONESIA

Course Director: Renindra Ananda Aman (Neurosurgeon/Indonesia)

TIME	WS. LOW GRADE GLIOMA
	Moderator: Renindra Ananda Aman (Neurosurgeon/Indonesia) N/BS/RT/PA/HOM/R
07.30 - 08.00	Re-Registration
08.00 - 08.40	Clinical Diagnosis and Management of Low Grade Glioma - Jay-Jiguang Zhu (Neurologist/USA)
08.40 - 09.20	The Challenges of Neuroimaging - Sri Andreani Utomo (Radiologist/Indonesia)
09.20 - 10.00	What Is So Specific In Seizure on Glioma? - Fitri Octaviana (Neurologist/Indonesia)
10.00 - 10.20	Small Discussion
10.20 - 11.00	Functional Mapping Resection Strategies, Extent of Resection, and Outcome - Mitchel S. Berger (Neurosurgeon/USA)
11.00 - 12.00	Neurosurgery - Facilitators: 1. Nyoman Golden (Neurosurgeon/Indonesia) 2. Oskar Ady Widarta (Neurosurgeon/Indonesia) Case discussion (All Speakers)
12.00 - 12.10	Closing

#### PRE-ASNO 2023: TEACHING COURSE

##### AWAKE SURGERY + WS. IOM IN NEURO-ONCOLOGY

THURSDAY, 26 OCTOBER 2023, 07.30 – 12.30

WANTILAN 2 ROOM, HYATT REGENCY HOTEL SANUR, BALI - INDONESIA

Course Director: Selfy Oswari (Neurosurgeon/Indonesia)

TIME	WS AWAKE SURGERY + WS. IOM IN NEURO-ONCOLOGY
	Moderator: Julius July (Neurosurgeon/Indonesia)
07.30 - 08.00	Re-Registration
08.00 - 08.45	Awake Craniotomy for Glioma: Basic and Advance - Mitchel S. Berger (Neurosurgeon/USA)
08.45 - 09.30	Awake Craniotomy - Takashi Maruyama (Neurosurgeon/Japan)
09.30 - 09.50	Neuroanesthesia in Awake Craniotomy - Ida Bagus Krisna Jaya Sutawan (Neuroanesthesiologist/Indonesia)
09.50 - 10.10	Intraoperative Monitoring - Djohan Ardiansyah (Neurologist/Indonesia)
10.10 - 11.00	Facilitator 1. Irwan Barlian (Neurosurgeon/Indonesia) 2. Firman Priguna (Neurosurgeon/Indonesia) 3. Selfy Oswari (Neurosurgeon/Indonesia)
11.00 - 12.00	1. Skill Station - Surgical Tumor Workflow - Microscope : Image Guidance, DTI, Yellow Fluorescence 2. Skill Station - Anesthesiology Station 3. Skill Station - IOM - Neurological assessment in Awake Craniotomy/Intraoperative Mapping
12.00 - 12.15	Discussion: The Challenges and Opportunity - Awake Craniotomy & Building The Team (Steps)
12.15 - 12.30	Closing

## SCIENTIFIC PROGRAM THURSDAY, 26 OCTOBER 2023

### PRE-ASNO 2023: TEACHING COURSE

#### HIGH GRADE GLIOMA

THURSDAY, 26 OCTOBER 2023, 12.30 - 17.10

WANTILAN 3 ROOM, HYATT REGENCY HOTEL SANUR, BALI - INDONESIA

Course Director: Roland Sidabutar (Neurosurgeon/Indonesia)

TIME		WS. HIGH GRADE GLIOMA
		Moderator: Roland Sidabutar (Neurosurgeon/Indonesia)
12.30 - 13.00	<i>Re-Registration</i>	
13.00 - 13.40	The Role of CT dan MRI on Low and High Grade Glioma - <a href="#">Rahmad Mulyadi (Radiologist/Indonesia)</a>	
13.40 - 14.20	Maximizing Safe Resection in High-Grade Glioma - <a href="#">Mitchel S. Berger (Neurosurgeon/USA)</a>	
14.20 - 15.00	Systemic Treatment of High Grade Glioma - <a href="#">Zarnie Lwin (Medical Oncologist/Australia)</a>	
15.00 - 15.40	Radiotherapy in High Grade Glioma - <a href="#">Serra Kamer (Radiation-Oncologist/Turkey)</a>	
15.40 - 16.20	Assessment of Therapeutic Response in High Grade Glioma - <a href="#">Rusdy Ghazali Malueka (Neurologist/Indonesia)</a>	
16.20 - 16.50	Neurosurgery - Facilitators: 1. <a href="#">Arwinder Singh (Neurosurgeon/Indonesia)</a> 2. <a href="#">Ande Fachniadin (Neurosurgeon/Indonesia)</a> 3. <a href="#">Rahadian Indarto Susilo (Neurosurgeon/Indonesia)</a>	
16.50 - 17.10	<i>Discussion &amp; Closing</i>	

## SCIENTIFIC PROGRAM

### THURSDAY, 26 OCTOBER 2023

#### PRE-ASNO 2023:

#### EDUCATIONAL SESSION - CLINICAL TRIAL SCHOLARS COURSE

THURSDAY, 26 OCTOBER 2023, 08.00 – 12.00

WANTILAN 3, HYATT REGENCY HOTEL, SANUR BALI - INDONESIA

Course Director: Rakesh Rattan Jalali (India)

THURSDAY		26 OCTOBER 2023	
<b>WANTILAN 3</b>			
Chairperson: Ryo Nishikawa (Neurosurgeon/Japan), Zhong-ping Chen (Neurosurgeon/China)			
08.00 - 08.10	Developing Clinical Trials in Neuro Oncology - A Global Perspective	Susan Chang (Neurosurgeon/USA)	
08.10 - 08.20	Need for Clinical Trials in ASNO/LMIC Region and The Way Forward	Rakesh Rattan Jalali (Radiation-Oncologist/India)	
08.20 - 08.40	Shakthivel Mani (India)		
08.40 - 09.00	Wei Shi (China)		
09.00 - 09.20	Noriyuki Kijima (Japan) (ASNO Awardee)		
09.20 - 09.40	Sonikpreet Aulakh (USA) (ASNO Awardee)		
09.40 - 09.55	Breakout session/Peer Review-1		
09.55 - 10.15	Break		
Chairperson: Se-Hyuk Kim (Neurosurgeon/Korea), Julette Batara (Neurologist/Philippines)			
10.15 - 10.35	Adhithyan Rajendran (India) (ASNO Awardee)		
10.35 - 10.55	Indraja Devidas Dev (India) (ASNO Awardee)		
10.55 - 11.15	Almira Doreen Abigail O. Apor (Phillipines)		
11.15 - 11.35	Fahad Zahid (Pakistan)		
11.35 - 11.50	Breakout session/Peer Review-2		
	Panelists/Peer-Reviewers	Susan Chang (Neurosurgeon/USA) Patrick Yung Wen (Neurologist/USA) Gelareh Zadeh (Neurosurgeon/Canada) Vinay Puduvalli (Neurologist/USA) Rakesh Rattan Jalali (Radiation-Oncologist/India) Tejpal Gupta (Radiation-Oncologist/India) Zarnie Lwin (Medical Oncologist/Australia) Syed Ather Enam (Neurosurgeon/Pakistan) Ying Yuan (USA) - Statistician Support Pankaj Kumar Panda (Senior Research Officer/Singapore)	
11.50 - 12.00	Concluding Remarks		ASNO/SNO Course Directors and Leadership



## SCIENTIFIC PROGRAM

### THURSDAY, 26 OCTOBER 2023

#### PRE-ASNO 2023:

#### EDUCATIONAL SESSION - NEUROPATHOLOGY PROGRAM: Adaptation to WHO 5<sup>th</sup> Program

THURSDAY, 26 OCTOBER 2023, 13.00 – 16.50

WANTILAN 1, HYATT REGENCY HOTEL, SANUR BALI - INDONESIA

THURSDAY 26 OCTOBER 2023		
WANTILAN 1		
Chairperson: Takashi Komori (Neuropathologist/Japan), Co-Chairperson: Eka Susanto (Pathologist/Indonesia)		
13.00 - 13.10	Introduction	Takashi Komori (Neuropathologist/Japan)
13.10 - 13.40	Adult Diffuse Gliomas	Vani Santosh (Neuropathologist/India)
13.40 - 14.10	Pediatric Type Diffuse Low & High Grade Gliomas	Sung-Hye Park (Pediatric Pathologist/Korea)
14.10 - 14.30	Break	
14.30 - 15.00	Circumscribed Gliomas and GNTs	Takashi Komori (Neuropathologist/Japan)
15.00 - 15.30	Ependymomas	Michael Buckland (Neuropathologist/Australia)
15.30 - 16.00	Embryonal Tumors	Vani Santosh (Neuropathologist/India)
16.00 - 16.30	Meningiomas	Shinya Tanaka (Pathologist/Japan)
16.30 - 16.50	Discussion - Q&A	

**FRIDAY, 27 OCTOBER 2023**

**18<sup>th</sup> Annual Meeting Of Asian Society For Neuro-Oncology (ASNO)**

**Friday - Sunday, 27 - 29 October 2023**  
**Hyatt Regency Hotel, Sanur Bali - Indonesia**

<b>FRIDAY DAY 1, 27 OCTOBER 2023</b>	
WANTILAN 1	
08.00 - 08.30	<b>GRAND OPENING</b> Speech from Chairman of 18th Annual Meeting of ASNO 2023 Speech from INASNO President Speech from ASNO President
	Henry Riyanto Sofyan (Indonesia) Rini Andriani (Indonesia) Ryo Nishikawa (Japan)
08.30 - 08.40	<b>ETHIC</b> Ethical Dilemma & Patient's Safety in Neuro-Oncology Cases
	Teguh A. S. Ranakusuma (Neurologist/Indonesia)
<b>SESSION</b> <b>DIAGNOSIS OF CNS TUMOR</b> Chairperson: Renindra Ananda Aman (Neurosurgeon/Indonesia)	
08.40 - 09.00	WHO Classification of CNS Tumor 2021
09.00 - 09.20	Major Changes in 2021 WHO Classification of CNS Tumors Imaging
09.20 - 09.40	Updates of Neuropathology in 2021 WHO Classification
09.40 - 09.50	Discussion
	Patrick Yung Wen (Neurologist/USA) Lim Choie Cheio Tchoyoson (Radiologist/Singapore) Sung-Hye Park (Pathologist/Korea)
WANTILAN 5	
10.00 - 10.30	Coffee/Tea Break & Exhibition & E-Poster Viewing
WANTILAN 1	
<b>KEYNOTE LECTURE</b> Chairperson: Patrick Yung Wen (Neurologist/USA)	
Neurooncology in Developing Countries:	
10.40 - 11.00	- Vietnam
11.00 - 11.20	- Philippines
11.20 - 11.40	- Indonesia
11.40 - 11.50	Clinical Implementation of WHO CNS 5 Classification: From Resource Limited Regions Perspective
	Pham Gia Du (Neurosurgeon/Vietnam) Juliette Batara (Neurologist/Philippines) Dessika Rahmawati (Neurologist/Indonesia) Rakesh Rattan Jalali (Radiation-Oncologist/India)
WANTILAN 5	
12.00 - 13.00	Lunch & Exhibition & E-Poster Viewing
WANTILAN 1	
<b>LUNCH SESSION</b> <b>TREATMENT FOR NEUROPHATIC PAIN: RECENT UPDATE</b> Supported by a grant from Mitsubishi Tanabe Pharma Indonesia Chairperson: Henry Riyanto Sofyan (Neurologist/Indonesia)	
13.00 - 13.20	Henry Riyanto Sofyan (Neurologist/Indonesia)
13.20 - 13.30	Discussion
<b>SESSION</b> <b>UPDATE ON TREATMENT OF INFRATENTORIAL TUMOR</b> Chairperson: Jay-Jiguang Zhu (Neurologist/USA)	
13.30 - 13.50	Surgery in Infratentorial Tumor (Brainstem Glioma)
13.50 - 14.10	How to Improve Radiotherapy Outcome in Brainstem Glioma?
14.10 - 14.30	Perspectives in Treatment for Aggressive Embryonal Brain Tumors - Insights on Subtype-directed Therapies
14.30 - 14.40	Discussion
	Rahadian Indarto Susilo (Neurosurgeon/Indonesia) Serra Kamer (Radiation-Oncologist/Turkey) Wan-Yee Teo (Pediatric Oncologist/Singapore)
<b>EXPERTS SESSION</b> <b>PRIMARY BRAIN TUMOR</b> Chairperson: Rini Andriani (Neurologist/Indonesia)	
14.40 - 15.40	Case Presenter
	Panel Discussion
	Sylvanie Ratna Permatasari (Neurologist/Indonesia) Susan Chang (Neurosurgeon/USA) Patrick Yung Wen (Neurologist/USA) Lim Choie Cheio Tchoyoson (Radiologist/Singapore) Handoko (Radiation-Oncologist/Indonesia) Michael Buckland (Neuropathologist/Australia)
WANTILAN 1	
WANTILAN 3B	
15.50 - 17.00	<b>ORAL PRESENTATION</b> Panel of Jury: Jay-Jiguang Zhu (USA), Handoko (Indonesia), Rahmad Mulyadi (Indonesia)
15.50 - 16.00	1. Motoo Nagane (Japan)
16.00 - 16.10	2. Vani Santosh (India)
16.10 - 16.20	3. Pin-Yuan Chen (Taiwan)
16.20 - 16.30	4. Ho-Shin Gwak (South Korea)
16.30 - 16.40	5. Junjie Zhen (China)
16.40 - 16.50	
16.50 - 17.00	
	<b>ORAL PRESENTATION</b> Panel of Jury: Chae Yong Kim (South Korea), Sith Sathornsumetee (Thailand), Haridini Intan S Mahdi (Indonesia)
	1. Pham Gia Du (Vietnam)
	2. Yong Hwy Kim (South Korea)
	3. Zhong-ping Chen (China)
	4. Zhifeng Shi (China)
	5. Jong Hee Chang (South Korea)
	6. Yang Wang (China)
	7. Ho Kang (South Korea)

## SATURDAY, 28 OCTOBER 2023

### 18<sup>th</sup> Annual Meeting Of Asian Society For Neuro-Oncology (ASNO)

Friday - Sunday, 27 - 29 October 2023

Hyatt Regency Hotel, Sanur Bali - Indonesia

SATURDAY DAY 2, 28 OCTOBER 2023		
WANTILAN 3B		
<b>ORAL PRESENTATION</b>		
Panel of Jury: Eka Susanto (Indonesia), Lyana Setiawan (Indonesia), Zarnie Lwin (Australia)		
08.30 - 08.40	1. Diko Anugrah (Indonesia)	
08.40 - 08.50	2. Masamichi Takahashi (Japan)	
08.50 - 09.00	3. Octavia So Hangrainy (Indonesia)	
09.00 - 09.10	4. Syed Ather Enam (Pakistan)	
09.10 - 09.20	5. Syed Ather Enam (Pakistan)	
09.20 - 09.30	6. Aya El Helali (China)	
09.30 - 09.40	7. Fu Zhao (China)	
09.40 - 09.50	8. Shuai Wu (China)	
09.50 - 10.00	9. Jun Dong (China)	
10.00 - 10.10	10. Peter Adidharma (Indonesia)	
10.10 - 10.20	11. SHin-Hyuk Kang (South Korea)	
10.20 - 10.30	12. Lei Ye (China)	
WANTILAN 1		
<b>KEYNOTE LECTURE</b>		
Chairperson: Sith Sathornsumetee (Neurologist/Thailand)		
08.00 - 08.30	Standard of Care in Glioma	Patrick Yung Wen (Neurologist/USA)
08.30 - 09.00	Gamma Knife Radiosurgery Approach in Cerebellopontine Angle Tumor	Setyo Widi Nugroho (Neurosurgeon/Indonesia)
WANTILAN 5		
09.00 - 09.30	Coffee/Tea Break & Exhibition & E-Poster Viewing	
WANTILAN 1		
<b>SESSION</b>		
<b>PRIMARY AND METASTATIC SPINAL TUMOR</b>		
Chairperson: Arwinder Singh (Neurosurgeon/Indonesia)		
09.30 - 09.50	Recent Surgical Management of Spinal Metastasis	Tjokorda Gde Bagus Mahadewa (Neurosurgeon/Indonesia)
09.50 - 10.10	Functional Improvement in Patient with Spinal Tumor	Rumaisah Hasan (Physiatrist/Indonesia)
10.10 - 10.30	Role of Intraoperative Monitoring in Spinal Surgery	Djohan Ardiansyah (Neurologist/Indonesia)
10.30 - 10.50	Spinal Metastases from Conventional Fractionated Radiotherapy to SABR	Soehartati Argadikoesoema Gondhowiardjo (Radiation-Oncologist/Indonesia)
10.50 - 11.00	Discussion	
<b>SESSION</b>		
<b>PEDIATRIC BRAIN TUMOR</b>		
Chairperson: Wan-Yee Teo (Pediatric Oncologist/Singapore)		
11.00 - 11.20	Diagnostic and Management in Pediatric Germ Cell Tumor	Haridini Intan S. Mahdi (Pediatric Oncologist/Indonesia)
11.20 - 11.40	Radiation Therapy in the Management of Childhood Brain Tumors	Serra Kamer (Radiation-oncologist/Turkey)
11.40 - 12.00	Challenge in the Treatment of Central Nervous System Germ Cells Tumor	Ryo Nishikawa (Neurosurgeon/Japan)
12.00 - 12.10	Discussion	
WANTILAN 5		
12.10 - 13.00	Lunch & Exhibition & E-Poster Viewing	
WANTILAN 1		
<b>SESSION</b>		
<b>BRAIN AND LEPTOMENINGEAL METASTASIS</b>		
Chairperson: Rahmi Ardhini (Neurologist/Indonesia)		
13.00 - 13.20	Prevention and Treatment of Cognitive Impairment in Brain Metastasis	AAA. Putri Laksmidewi (Neurologist/Indonesia)
13.20 - 13.40	Recent Update in Imaging of Brain and Leptomeningeal Metastasis	Yuyun Yueniwati (Radiologist/Indonesia)
13.40 - 14.00	Treatment and Prevention of Brain Metastasis	Zarnie Lwin (Medical Oncologist/Australia)
14.00 - 14.10	Discussion	
<b>EXPERTS SESSION</b>		
<b>CANCER RELATED TROMBOSIS IN HOSPITALIZED NEUROONCOLOGY PATIENTS</b>		
Supported by a grant from Kalventis Sinergi Farma		
Chairperson: Nadia Ayu Mulansari (Hematologist-Medical Oncologist/Indonesia)		
14.10 - 15.10	Case Presenter	Irma Savitri (Neurologist/Indonesia)
	Panel Discussion	Lim Choie Cheio Tchoyoson (Radiologist/Singapore)
		Sith Sathornsumetee (Neurologist/Thailand)
		Oskar Ady Widarta (Neurosurgeon/Indonesia)
15.10 - 16.30	<b>GENERAL ASSEMBLY</b>	

**SUNDAY, 29 OCTOBER 2023**

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<b>SUNDAY DAY 3, 29 OCTOBER 2023</b>	
WANTILAN 1	
<b>SESSION UPDATE ON TREATMENT OF HIGH GRADE GLIOMA</b>	
Chairperson: Rusdy Ghazali Malueka (Neurologist/Indonesia)	
08.00 - 08.20	Update in Surgical Treatment of High Grade Glioma Gelareh Zadeh (Neurosurgeon/Canada)
08.20 - 08.40	Radiotherapy in High Grade Glioma Rakesh Rattan Jalali (Radiation-Oncologist/India)
08.40 - 09.00	Update in Systemic Treatment of High Grade Glioma Zarnie Lwin (Medical Oncologist/Australia)
09.00 - 09.10	Discussion
WANTILAN 5	
09.10 - 09.30	Coffee/Tea Break & Exhibition Viewing
WANTILAN 1	
<b>SESSION COMPLICATIONS AND PAIN MANAGEMENT IN NEUROONCOLOGY</b>	
Chairperson: Rini Andriani, (Neurologist/Indonesia)	
09.30 - 09.50	Opioid Management in Cancer Pain Nadia Ayu Mulansari (Hematologist-Medical Oncologist/ Indonesia)
09.50 - 10.10	Role of Early Rehabilitation in Brain Tumor Patients Herdiman Bernard Purba (Physiatrist/Indonesia)
10.10 - 10.30	Management of Neuropathic Pain in Cancer Pain Tiara Aninditha (Neurologist/Indonesia)
Supported by a grant from Novell Pharmaceutical Laboratories	
10.30 - 10.50	Discussion
<b>SESSION SUPPORTIVE CARE MANAGEMENT</b>	
Chairperson: Sith Sathornsumetee (Neurologist/Thailand)	
10.50 - 11.10	Neurologic Complication of Brain Tumor Rini Andriani (Neurologist/Indonesia)
Supported by a grant from Hetero Indonesia	
11.10 - 11.30	Integrating Psychological Care in Brain Tumor Management Feranindhya Agiananda (Psychiatrist/Indonesia)
11.30 - 11.50	Palliative Rehabilitation Care and The Role of Caregiver Sisca Susantio (Physiatrist/Indonesia)
11.50 - 12.10	Discussion
WANTILAN 5	
12.10 - 12.30	Lunch & Exhibition Viewing
WANTILAN 1	
<b>SESSION SPECIAL APPROACH IN SPECIFIC MENINGIOMA</b>	
Chairperson: Roland Sidabutar (Neurosurgeon/Indonesia)	
12.30 - 12.50	Meningioma/Surgical Approach in Specific Meningioma Gelareh Zadeh (Neurosurgeon/Canada)
12.50 - 13.10	Update Imaging in Meningioma Widiana Ferriastuti (Radiologist/Indonesia)
13.10 - 13.20	Radiotherapy and Radiosurgery in Meningioma Rakesh Rattan Jalali (Radiation-Oncologist/India)
13.20 - 13.30	Discussion
<b>EXPERTS SESSION BRAIN METASTASIS</b>	
Chairperson: Dessika Rahmawati (Neurologist/Indonesia)	
13.30 - 14.30	Case Presenter Kusumo Dananjoyo (Neurologist) (Indonesia)
	Panel Discussion Jay-Jiguang Zhu (Neurologist/USA)
	Nadia Ayu Mulansari (Hematologist-Medical Oncologist/ Indonesia)
	Rahmad Mulyadi (Radiologist/Indonesia)
	Tiara Bunga Mayang Permata (Radiation-Oncologist/Indonesia)
	Roland Sidabutar (Neurosurgeon/Indonesia)
14.30 - 14.40	Closing Remarks



# ORAL PRESENTATION SCHEDULE



## 18<sup>th</sup> Annual Meeting of Asian Society for Neuro-Oncology ASNO

Bali

"Building Capacity for Neuro-Oncology in Asia:  
Existing Opportunity and Future Directions"

In Conjunction with

### 3<sup>rd</sup> Scientific Meeting of INASNO

#### Pre-ASNO 2023 Teaching Courses

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**DATE: FRIDAY, 27 October 2023**  
**WANTILAN 1 ROOM**

**Category:**  
**Neurosurgery, Neurology, Radiation Oncology, and Medical Oncology**

**Panel Of Juries:**  
**Jay-Jiguang Zhu (USA)**  
**Handoko (Indonesia)**  
**Rahmad Mulyadi (Indonesia)**

NO	TIME	PRESENTER	INSTITUTION	COUNTRY	ABSTRACT TITLE
OP.01	15.50-16.00	Motoo Nagane	Department of Neurosurgery, Kyorin University Faculty of Medicine	Japan	REAL-WORLD TREATMENT RESULTS OF TIRABRUTINIB MONOTHERAPY IN PATIENTS WITH RELAPSED PRIMARY CENTRAL NERVOUS SYSTEM LYMPHOMA.
OP.02	16.00-16.10	Vani Santosh	National institute of mental Health and Neuro Sciences (NIMHANS)	India	TRANSCRIPTOME PROFILING IDENTIFIES MYBL2 AS A NOVEL AGGRESSIVE BIOMARKER IN ASTROCYTOMA, IDH-MUTANT, CNS WHO GRADE 3 TUMORS
OP.03	16.10-16.20	Pin-Yuan Chen	Chang Gung Memorial Hospital	Taiwan	PREVALENCE OF SLEEP DISTURBANCES AND THEIR LONGITUDINAL IMPACTS ON QUALITY OF LIFE IN PATIENTS WITH BENIGN AND MALIGNANT BRAIN TUMOR
OP.04	16.20-16.30	Ho-Shin Gwak	National Cancer Center	Korea	INCIDENCE AND RISK FACTORS FOR DISSEMINATING NECROTIZING LEUKOENCEPHALOPATHY ASSOCIATED WITH INTRA-CSF METHOTREXATE CHEMOTHERAPY FOR LEPTOMENINGEAL METASTASIS
OP.05	16.30-16.40	Junjie Zhen	Guangdong Sanjiu Brain Hospital	China	CUMULATIVE TUMOR VOLUME THRESHOLD CORRELATES WITH NEUROCOGNITIVE IMPAIRMENT IN PATIENTS WITH NEWLY DIAGNOSED BRAIN METASTASES

**DATE: FRIDAY, 27 October 2023**  
**WANTILAN 3 ROOM**

**Category:**  
**Neurosurgery, Neurology, Radiation Oncology, and Medical Oncology**

**Panel of Jury:**  
**Chae Yong Kim (South Korea)**  
**Sith Sathornsumtee (Thailand)**  
**Haridini Intan S Mahdi (Indonesia)**

NO	TIME	PRESENTER	INSTITUTION	COUNTRY	ABSTRACT TITLE
OP.06	15.50-16.00	Pham Gia Du	Vietnam National Cancer Hospital	Vietnam	MULTIMODAL TREATMENT FOR MEDULLOBLASTOMA: LONG-TERM FOLLOW-UP RESULTS AT A SINGLE INSTITUTION
OP.07	16.00-16.10	Yong Hwy Kim	Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea	South Korea	COMBINED TRANSCRANIAL AND ENDOSCOPIC ENDONASAL APPROACH FOR TUBERCULUM SELLEA MENINGIOMAS
OP.08	16.10-16.20	Zhong-ping Chen	Sun Yat-sen University Cancer Center, Guangzhou, China	China	REAL MANAGEMENT AND SURVIVAL TRENDS OF PATIENTS WITH NEWLY DIAGNOSED DIFFUSE GLIOMAS FROM A SINGLE NEURO-ONCOLOGY CENTER IN CHINA: RESULT OF A 20-YEAR RETROSPECT
OP.9	16.20-16.30	Zhifeng Shi	Huashan Hospital, Fudan University	Shanghai, China	STUDY OF RADIOCHEMOTHERAPY DECISION-MAKING FOR YOUNG HIGH-RISK LOW-GRADE GLIOMA PATIENTS USING A MACROSCOPIC AND MICROSCOPIC COMBINED RADIOMICS MODEL
OP.10	16.30-16.40	Jong Hee Chang	Yonsei University Health System	South Korea	SURVIVAL ANALYSIS OF ADULT MIDLINE-LOCATED GLIOMAS: DOES THE H3K27 ALTERATION IN ADULT MIDLINE-LOCATED GLIOMAS ACTUALLY INDICATE A POOR PROGNOSIS?
OP.11	16.40-16.50	Yang Wang	Huashan Hospital, Fudan University	China	RETROSPECTIVE ANALYSIS OF RADIO-CHEMOTHERAPY WITH OR WITHOUT CONCURRENT TUMOR-TREATING FIELDS (TTFIELDS) IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA (GBM) IN CHINA
OP.12	16.50-17.00	Ho Kang	Seoul National University Bundang Hospital	Korea	HEARING PRESERVATION AFTER STEREOTACTIC RADIOSURGERY FOR SPORADIC INTRACANALICULAR VESTIBULAR SCHWANNOMAS: THE POSSIBILITY OF PROACTIVE TREATMENT FOR PETIT VESTIBULAR SCHWANNOMAS

**DATE: SATURDAY, 28 October 2023**  
**WANTILAN 3 ROOM**

**Category:**  
**Pathology, Laboratory, Epidemiology, Supportive Care**

**Panel of Jury:**  
**Eka Susanto (Indonesia)**  
**Lyana Setiawan (Indonesia)**  
**Zarnie Lwin (Australia)**

NO	TIME	PRESENTER	INSTITUTION	COUNTRY	ABSTRACT TITLE
OP.13	08.30-08.40	Diko Anugrah	Faculty of Medicine, Universitas Indonesia	Indonesia	EPIDEMIOLOGY OF PEDIATRIC GERM CELL TUMORS (P-GCTS) IN INDONESIA IN THE YEAR 1999 – 2022. A SINGLE-CENTER INDONESIAN NATIONAL REFERRAL HOSPITAL STUDY
OP.14	08.40-08.50	Masamichi Takahashi	National Cancer Center Hospital	Japan	RESULTS OF COMPREHENSIVE GENOMIC PROFILING OF 974 ADULT CENTRAL NERVOUS SYSTEM TUMORS IN JAPAN
OP.15	08.50-09.00	Octavia So Hanggrainy	Dharmais National Cancer Center	Indonesia	OVERALL SURVIVAL OF BRAIN METASTASES PATIENTS AFTER WHOLE BRAIN RADIATION THERAPY AT DHARMAIS NATIONAL CANCER CENTER
OP.16	09.00-09.10	Syed Ather Enam	Department of Surgery, Aga Khan University Hospital, Karachi, Pakistan	Pakistan	MICRORNA MIR-21 OVEREXPRESSION IN GLIOMA IS ASSOCIATED WITH MALIGNANT GLIOMA (GLIOBLASTOMA), DNA DEMETHYLATION MACHINERY AND PATIENTS' POOR PROGNOSIS
OP.17	09.10-09.20	Syed Ather Enam	Aga Khan University, Karachi, Pakistan	Pakistan	AUTOPHAGY-ASSOCIATED MARKERS LC3-II, ULK2 AND MICRORNAS MIR-21, MIR-126 AND MIR-374 AS A POTENTIAL PROGNOSTIC INDICATOR FOR GLIOMA PATIENTS
OP.18	09.20-09.30	Aya El Helali	University of Hong Kong	China	THE CLINICAL SIGNIFICANCE OF THE DNA DAMAGE REPAIR PATHWAY AND IMPACT OF GENOMIC SEQUENCING ON TREATMENT DECISIONS IN GLIOBLASTOMA
OP.19	09.30-09.40	Fu Zhao	Beijing Neurosurgical Institute	China	THE MOLECULAR LANDSCAPE OF VESTIBULAR SCHWANNOMA IN PATIENTS WITH NEUROFIBROMATOSIS TYPE 2



OP.20	09.40-09.50	Shuai Wu	Huashan Hospital, Shanghai Medical College, Fudan University, Shanghai	China	THE ROLE OF TERT PROMOTER MUTATION IN THE GUIDANCE OF TREATMENTS FOR GLIOBLASTOMA PATIENTS - INSIGHTS INTO THE CNS5
OP.21	09.50-10.00	Jun Dong	the Second Affiliated Hospital of Soochow University	China	GLIOMA STEM CELLS-DERIVED EXOSOMAL MIR-3065-5P EDUCATED ASTROCYTES CONFERS TEMOZOLOMIDE RESISTANCE OF GLIOBLASTOMA VIA DELIVERING ALKBH7
OP.22	10.00-10.10	Peter Adidharma	Faculty of Medicine, Universitas Indonesia; Newcastle University	Indonesia	UNRAVELING THE MOLECULAR BASIS OF MEDULLOBLASTOMA IN CHILDREN UNDER FIVE: INSIGHTS FROM SONIC-HEDGEHOG AND GROUP3 SUBGROUPS
OP.23	10.10-10.20	SHin-Hyuk Kang	Korea University Anam Hospital	Korea	REAL-TIME BRAIN TUMOR DIAGNOSIS ENABLED BY NOVEL CONFOCAL LASER ENDOMICROSCOPY: ASSESSING PRECLINICAL AND CLINICAL FEASIBILITY
OP.24	10.20-10.30	Lei Ye	First Affiliated Hospital of Anhui Medical University	China	ASSOCIATION STUDY OF INTRA-TUMORAL MICROBIOME AND PROGRESSION OF GLIOBLASTOMA: WHAT CAN WE DO NEXT?



# ORAL PRESENTATION ABSTRACT



## 18<sup>th</sup> Annual Meeting of Asian Society for Neuro-Oncology ASNO



"Building Capacity for Neuro-Oncology in Asia:  
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## EP005

### THALLIUM 201 SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY (TI-SPECT) FOR THE DIFFERENTIATION OF MALIGNANT VERSUS BENIGN NERVOUS SYSTEM SPACE OCCUPYING LESIONS: A RETROSPECTIVE STUDY, SYSTEMATIC REVIEW, AND META-ANALYSIS

Mark Willy L. Mondia, MD<sup>1†</sup>; Anisah Hayaminah D. Alonto, MD<sup>1†</sup>; Nicole Girlyn T. Pang, MD<sup>2</sup>; Francis Manuel L. Resma, MD<sup>3</sup>; John Kenneth V. Gacula, MD<sup>3</sup>; Arnel E. Pauco, MD<sup>3</sup>; Annabell E. Chua, MD<sup>1,2</sup>; Juliette Marie F. Batara, MD<sup>1,2</sup>

<sup>1</sup>Department of Neurosciences, College of Medicine and Philippine General Hospital, University of the Philippines Manila, Manila, Philippines

<sup>2</sup> Institute for Neurosciences, St. Luke's Medical Center, Quezon City & Global City, Philippines

<sup>3</sup> Division of Nuclear Medicine, Department of Medicine, Philippine General Hospital, University of the Philippines Manila, Manila, Philippines

†MWMD and AHDA contributed equally to manuscript.

#### Objectives

Our study aims to review existing literature and conduct a retrospective study and meta-analysis on the use of TI-SPECT to differentiate malignant from non-malignant nervous system lesions.

#### Methods

A retrospective study on use of TI-SPECT in differentiating malignant versus benign nervous system masses was conducted in two tertiary hospitals in the Philippines.

Systematic review of relevant studies regarding TI-SPECT for brain and spinal cord lesions was also done. Meta-analysis (including the dataset from the retrospective study) was performed to generate pooled sensitivity and specificity.

#### Results

Thirty-two (32) articles were qualitatively described and 25 datasets were subjected to meta-analysis. Pooled sensitivity and specificity were 0.89 (95% CI: 0.82-0.94) and 0.82 (95% CI: 0.74-0.88), respectively with an area under the curve (AUC) for diagnostic accuracy of 0.92.

#### Conclusion

Thallium scans may be utilized to discriminate malignant from benign nervous system lesions, especially, in cases with a >80% pre-test probability. It may be of benefit in confirming the diagnosis, especially in resource limited settings when doing a biopsy is not feasible. Further studies are needed to validate this findings.

## EP006

### THE IMPACT OF RADIOTHERAPY ON TREATING INOPERABLE BONE SOLITARY PLASMACYTOMA : CASE REPORT

Yuki Andrianto<sup>1</sup>, R. Surjoseto<sup>1</sup>, Putu B. Didiet K.W.<sup>2</sup>, Maryastuti<sup>3</sup>, Aida Lufti Huswatun<sup>1</sup>

<sup>1</sup>Department of Radiation Oncology, Persahabatan Central General Hospital, Jakarta, Indonesia

<sup>2</sup>Department of Orthopaedics and Traumatology, Persahabatan Central General Hospital, Jakarta, Indonesia

<sup>3</sup>Department of Radiology, Persahabatan Central General Hospital, Jakarta, Indonesia

#### Objective

A bone solitary plasmacytoma is a rare disorder, a mass of abnormal plasma cells in bone and soft tissue. Radiotherapy may be the most effective treatment option for inoperable tumors.

#### Case

A 67-year-old female reported back pain since the end of 2022, with no history of previous injuries. Months

later, she couldn't flex both of her legs and walking was excruciatingly painful. On January 2023, an MRI vertebra result revealed a paravertebral mass at vertebral bodies of lumbar 2 - 4, resulting in the destruction of vertebral bodies of lumbar 2, stenosis of the spinal canal, and compression of the cauda equina. On February 2023, the patient underwent a core biopsy due to the high risk of operation due to age. She could flex her legs after surgery, but she still had back pain and couldn't walk. A biopsy revealed plasmacytoma. Because of her age, the patient was recommended to radiotherapy.

The patient underwent CT simulation with a pelvic mask to minimize mobility. MRI and simulation images were compared. Gross tumor volume (GTV) was used to define the lesion. CTV was characterized as a 1 cm margin expansion from GTV. PTV was defined as a 0.7 cm margin expansion from CTV. Intensity modulated radiation treatment (IMRT) with 40 Gy in 20 fractions is planned. The generated plans were compared for dosage distributions of GTV, CTV, PTV, and different nearby organs at risk (OARs), including both kidneys, bowel, liver, and spinal cord.

After 5 weeks of radiotherapy, there were no side effects and could flex both knees and get up, despite slight pain.

### Conclusion

In the treatment of unresectable Solitary Bone Plasmacytoma, radiotherapy is an effective treatment. A radiation dose of 40 Gy appears to be a successful treatment for mass control and patient improvement with few side effects.

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### EP007

#### A RARE CASE: MULTIFOCAL GLIOBLASTOMA IN ELDERLY

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### Objectives

Multifocal or multicentric glioblastoma is a rare variant of glioblastoma multiforme, with a low incidence of 2-20%.<sup>1</sup> The majority of glioblastoma cases present as a single lesion, making multifocal or multicentric lesions uncommon.<sup>2</sup> However, research on this specific type of glioblastoma remains limited. It is hypothesized that the multiple lesions in multifocal glioblastoma originate at the cellular level, potentially contributing to its aggressiveness and poor prognosis. Currently, there is no established standard treatment for multifocal glioblastoma, but a combination therapy approach involving surgical resection and chemoradiotherapy is commonly employed, despite the tumor's resistance to this treatment in most cases.<sup>3</sup> The objective of this case report is to document a rare case of multifocal glioblastoma in a 61-year-old woman, highlighting the need for further research, the absence of a standardized treatment protocol, and the importance of accurate differentiation from metastatic brain tumors for appropriate management strategies.

### Case

A 61-year-old woman presented to the outpatient neurology department with a chief complaint of generalized weakness. Neurological examination revealed a positive Brudzinski sign. According to her medical records, she was diagnosed with multifocal glioblastoma in August 2022 and subsequently underwent tumor resection, chemoradiotherapy, and an urgent VP-shunt due to decreased consciousness. She is currently receiving adjuvant chemotherapy. The latest magnetic resonance imaging shows improvement in the original tumor, but new fluid collection and hygroma are observed in multiple lobes of the brain.

### Conclusion

This case report highlights a rare occurrence of multifocal glioblastoma in a 61-year-old woman. Distinguishing between multifocal glioblastoma and metastatic brain tumors is crucial, as it influences the subsequent management strategies.