

UM SPECIALIST CENTRE®



MALAYSIA'S PREMIER  
QUATERNARY HOSPITAL

# MASTER **CLASS** <sup>2025</sup> CARDIAC, NEURO & VASCULAR CLINICAL ESSENTIALS

*PROLOGUE TO UMSC'S ANNUAL SCIENTIFIC MEETING*

NOV  
**11**  
2025

M World Hotel  
Petaling Jaya, Selangor



# KEYNOTE

It gives me great pleasure to extend my heartfelt congratulations to UM Specialist Centre (UMSC) for organising the UMSC Master Class 2025. This event reflects UMSC's unwavering commitment to advancing clinical excellence, fostering continuous learning, and nurturing the next generation of healthcare leaders.

As part of Universiti Malaya's ecosystem, UMSC continues to exemplify the integration of clinical expertise, academic rigour, and compassionate care. The Master Class serves as a vital platform for knowledge exchange — bringing together distinguished specialists, researchers, and practitioners to share the latest advancements in cardiac, neuro, and vascular medicine. By cultivating expertise in these critical disciplines, this initiative contributes not only to the advancement of healthcare but also to the nation's aspiration for a healthier and more resilient society.

In fulfilling our shared responsibility as a university community, we recognise the importance of representing the diverse voices of our stakeholders — the government, industry partners, alumni, and the wider community — in shaping the future of healthcare and education. Through meaningful collaborations and strategic partnerships, we uphold Universiti Malaya's distinguished reputation and public trust as Malaysia's premier university.

In today's rapidly evolving healthcare landscape, collaboration and innovation remain key to driving meaningful progress. I am confident that this Master Class will not only deepen professional knowledge but also inspire new ideas and partnerships that strengthen our collective pursuit of excellence in medicine.

My sincere appreciation goes to the organising committee, speakers, and participants for their dedication and contribution to making this event a success. May this initiative continue to uphold Universiti Malaya's legacy of leadership in education, research, and healthcare — for the betterment of society and the nation.



**Tan Sri Zarinah Anwar**  
**Chairman, Board of Directors**  
Universiti Malaya (UM)

# VICE CHANCELLOR'S MESSAGE

It is my great pleasure to welcome you to Master Class 2025: Cardiac, Neuro & Vascular Clinical Essentials, a distinguished platform that reflects Universiti Malaya's unwavering commitment to academic excellence, clinical innovation, and impactful research in advancing healthcare for the benefit of society.

This Master Class 2025 exemplifies the spirit of collaboration between academia and clinical practice, bringing together leading experts to exchange ideas, explore breakthroughs, and shape the future of patient care. Through initiatives like this, UM Specialist Centre (UMSC) continues to uphold our shared mission of transforming knowledge into meaningful impact and advancing the frontiers of medicine.

Congratulations UMSC for successfully organising this Master Class 2025! May this Master Class 2025 spark new collaborations and insights that will continue to elevate Universiti Malaya and UMSC as beacons of knowledge, service, and impact.

Since its inception in 1905, Universiti Malaya has been steadfast in driving research, innovation, and global partnerships that uplift communities and inspire progress. I am confident that the insights and connections fostered here will continue to strengthen our collective pursuit of excellence in healthcare and education.

Together, let us advance with purpose: to heal, to innovate, and to inspire.



**Prof. Dato' Seri Ir.  
Dr. Noor Azuan Abu Osman**

**Vice Chancellor**  
Universiti Malaya (UM)



# CHAIRMAN'S ADDRESS

Since its establishment, UMSC has continued to advance with purpose and determination, growing into one of Malaysia's leading quaternary healthcare institutions. Guided by our strong partnership with Universiti Malaya, we remain inspired by a shared pursuit of academic excellence, clinical innovation, and meaningful impact. This synergy has been the foundation of our success and continues to drive our evolution in an ever-changing healthcare landscape.

Master Class 2025: Cardiac, Neuro & Vascular Clinical Essentials reaffirms our unwavering commitment to clinical advancement and collaboration. This Master Class 2025 provides a vital platform for the exchange of knowledge, the strengthening of partnerships, and the shaping of future-ready healthcare practices.

To our partners, consultants, and collaborators, I extend my deepest appreciation for your continued trust and support. Together, let us continue to build on UMSC's legacy of excellence, pushing boundaries and achieving new milestones that benefit our patients, our nation, and the global healthcare community.



**Datuk Zulkarnain Bin Md Eusope**

**Chairman**

UM Specialist Centre (UMSC)

# WELCOME ADDRESS

As UMSC continues its journey of excellence, we remain steadfast in our mission to advance as a leading quaternary healthcare centre, one that champions specialised expertise, multidisciplinary collaboration, and innovation grounded in evidence-based medicine. Our pursuit of excellence is driven by a commitment to transform care through compassion, precision, and the seamless integration of technology and clinical expertise.

Master Class 2025: Cardiac, Neuro & Vascular Clinical Essentials marks another milestone in our continuous effort to elevate clinical knowledge and professional growth. This event brings together experts, clinicians, and thought leaders to share insights, explore emerging techniques, and strengthen our collective resolve in advancing patient outcomes.

More than a professional gathering, this Master Class 2025 represents the spirit of collaboration that defines UMSC, a place where knowledge transcends boundaries and innovation inspires progress. Through dialogue and partnership, we continue to bridge academia and practice, nurturing a healthcare ecosystem that is both dynamic and human-centred.

I extend my heartfelt appreciation to our distinguished speakers, dedicated organising committee, and all participants who have contributed to making this Master Class 2025 possible. May this event inspire new perspectives, foster meaningful connections, and reaffirm our shared vision of excellence in healthcare for Malaysia and beyond.

United in purpose, we will advance UMSC's mission to deliver cutting-edge, patient-centred quaternary care for generations to come.

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## Norzaiton Senusi

**Chief Executive Officer**  
UM Specialist Centre (UMSC)



# MEDICAL DIRECTORS' FOREWORD

Welcome to Master Class 2025: Cardiac, Neuro & Vascular Clinical Essentials, a platform that reflects UMSC's continuous pursuit of excellence in clinical practice, innovation, and multidisciplinary collaboration. This event embodies our commitment to staying at the forefront of medical advancement and to nurturing a culture of lifelong learning among clinicians and specialists.

As the Medical Director, it gives me great pride to welcome a distinguished panel of experts and participants who share our passion for advancing medicine through knowledge, discovery, and patient-centred care. This Master Class 2025 highlights the very essence of UMSC's mission: to be at the forefront of quaternary healthcare, where cutting-edge science meets compassionate expertise.

As we gather some of the finest minds from Malaysia and beyond, this Master Class 2025 offers an exceptional opportunity to exchange ideas, explore new frontiers in cardiac, neurological, and vascular medicine, and strengthen the bridge between research and real-world practice. Through shared expertise and open dialogue, we aim to inspire innovation that enhances patient outcomes and advances the standards of quaternary care.

More than a scientific exchange, this Master Class 2025 represents a collective dedication to progress, one that unites passion, knowledge, and compassion in the service of humanity. I look forward to the meaningful discussions and collaborations that will emerge, confident that together we will continue to raise the bar for clinical excellence.

I am truly excited for the exchange of knowledge and inspiration that this event will foster. May it empower each of us to lead with excellence, innovate with purpose, and continue to redefine what it means to deliver world-class healthcare.



**Prof. Dato'**  
**Dr. Hari Chandran Thambinayagam**

**Medical Director**  
UM Specialist Centre (UMSC)

## MASTER CLASS 2025: Cardiac, Neuro & Vascular Clinical Essentials (Morning Session)

<b>8:30 am</b>	<b>Arrival and Registration of Participants, Arrival of Special Guests &amp; Delegates</b>
<b>9:00 am</b>	<b>Commencement Remarks</b> YBhg. Prof. Dato' Dr. Hari Chandran Thambinayagam Medical Director, UM Specialist Centre (UMSC)
<b>9:10 am</b>	<b>Plenary Discourse 1</b> Prof. Dr. Tan Kay Sin, Senior Consultant Neurologist, UM Specialist Centre (UMSC) <i>CVA (Updates in Ischemic Stroke and Intracerebral Haemorrhage)</i>
<b>9:40 am</b>	<b>Plenary Discourse 2</b> Dr Muhammad Syafiq Idris Consultant Vascular and Endovascular Surgeon, Pusat Perubatan Universiti Malaya <i>Acute and Critical Limb Ischaemia</i>
<b>10:10 am</b>	<b>Morning Tea Break</b>
<b>10:30 am</b>	<b>Plenary Discourse 3</b> Prof. Dr. Khairul Azmi Senior Consultant Neurointerventional Radiology and Endovascular Neurosurgery, UM Specialist Centre <i>Ischemic Stroke - Thrombectomy vs Thrombolysis</i>
<b>11:10 am</b>	<b>Arrival of the Guest of Honour</b>
<b>11:15 am</b>	<b>Doa Recital</b>
<b>11:20 am</b>	<b>Welcoming Remarks</b> YBrs. Puan Norzaiton Senusi Chief Executive Officer, UM Specialist Centre (UMSC)
<b>11:30 am</b>	<b>Chairman's Address</b> YBhg. Datuk Zulkarnain Bin Md Eusope Chairman, UM Specialist Centre (UMSC)
<b>11:40 am</b>	<b>Officiating Remarks</b> YBhg. Tan Sri Zarinah Anwar Chairman, Board of Directors, Universiti Malaya (UM)
<b>11:50 am</b>	<b>Gimmick Launching</b>
<b>12:00 pm</b>	<b>Presentation of Plaques</b> YBhg. Tan Sri Zarinah Anwar Chairman, Board of Directors, Universiti Malaya (UM)
<b>12:10 pm</b>	<b>Token of Appreciation</b>
<b>12:20 pm</b>	<b>Photography Session</b>
<b>12:30 pm</b>	<b>Lunch</b>



## MASTER CLASS 2025: Cardiac, Neuro & Vascular Clinical Essentials (Afternoon Session)

<b>2:00 pm</b>	<b>Plenary Discourse 4</b> Dr. Ramesh Singh Senior Consultant Interventional Cardiologist, UM Specialist Centre <i>Acute Coronary Syndrome (ACS)</i>
<b>2:30 pm</b>	<b>Plenary Discourse 5</b> Dr. Ahmad Rafizi Consultant Vascular and Endovascular Surgeon, UM Specialist Centre <i>Abdominal Aortic Aneurysm</i>
<b>3:00 pm</b>	<b>Plenary Discourse 6</b> Dr. Gan Chye Chung Consultant Interventional Nephrologist, UM Specialist Centre <i>Vascular Access Complications and Management</i>
<b>3:30 pm</b>	<b>Presentation of Plaques</b> YBhg. Prof. Dato' Dr. Hari Chandran Thambinayagam Medical Director, UM Specialist Centre (UMSC)
	<b>Lucky Draw</b>
<b>5:00 pm</b>	<b>Closing</b>



**Prof. Dr. Tan Kay Sin****MBBS (Melb), FRCP (Edin), FAMM****Senior Consultant Neurologist, UM Specialist Centre****Invited Speakers**

Professor Tan is a senior consultant neurologist and internist who joined Universiti Malaya since 1999 and went on to complete subspecialisation in neurology, stroke and neurosonology with attachments in the United States, Hong Kong and Singapore. He is the immediate past President of the Malaysian Society of Neurosciences, a position he held from 2008 until 2010. He has also published more than 120 publications in international peer-reviewed journals, conference proceedings and chapters in international textbooks. His research interests include clinical trials, neurosonology and stroke in young adults.

**Prof. Dr. Khairul Azmi****MBBS (UM), MRad (UM), NIR (Turkey)****Senior Consultant Neurointerventional Radiology and Endovascular Neurosurgery  
UM Specialist Centre****Invited Speakers**

Professor Dr. Khairul Azmi is a senior consultant neuro-interventional radiologist. He completed his under and post-graduate studies at Universiti Malaya. He was trained in Therapeutic and Interventional Neuroradiology and obtained his fellowship from Hacettepe University Hospital, Ankara, Turkey. Professor Dr. Khairul Azmi subspecialises in intracranial aneurysms endovascular treatment, brain vascular malformation and tumour embolization, angioplasty, and stenting of arterial stenosis including carotid stenting and acute stroke intervention.

**Dr. Ramesh Singh****MBBS (UM), MRCP (Ire)****Senior Consultant Interventional Cardiologist  
UM Specialist Centre****Invited Speakers**

Dr. Ramesh is a senior consultant interventional cardiologist in UM Specialist Centre (UMSC) and UMMC. Having earned his undergraduate qualification from Universiti Malaya, Dr. Ramesh went to further his training in internal medicine through the completion of MRCP (Ireland). He then, underwent further subspecialty training in cardiology. He specialises in the management of various cardiology conditions i.e. coronary artery disease, heart failure, valvular heart disease, atrial fibrillation etc. Dr. Ramesh performs various complex interventional procedures i.e. percutaneous coronary angioplasty including atherectomies; right and left heart catheterisations, implantable cardioverter-defibrillators (ICD) and pacemakers.

**Dr. Ahmad Rafizi****MD (UKM), MSurg (UM), FRCS (Edin), Fellowship in Vascular Surgery****Consultant Vascular and Endovascular Surgeon  
UM Specialist Centre****Invited Speakers**

Dr. Ahmad Rafizi Hariz Ramli is a Consultant Vascular and Endovascular Surgeon at the University of Malaya Medical Centre (UMMC) and the UM Specialist Centre (UMSC). He also serves as a medical lecturer in the Department of Surgery at the Faculty of Medicine, UM. Dr. Ahmad Rafizi obtained his MD from Universiti Kebangsaan Malaysia and completed his Master of Surgery from UM. He further specialized with a Fellowship in Vascular Surgery at Hospital Kuala Lumpur and holds certifications from the European Board of Vascular Surgery (FEBVS) and the Royal College of Surgeons of Edinburgh (FRCS Edin). His clinical expertise encompasses a wide range of vascular procedures including thoracic and abdominal aortic aneurysm repair, haemodialysis access creation, angioplasties of peripheral vessels and endovenous treatments for varicose veins.

**Dr. Muhammad Syafiq Idris****MB BCH BAO (RCSI/PMC), MSurg (UM), Fellowship in Vascular Surgery****Consultant Vascular and Endovascular Surgeon  
Pusat Perubatan Universiti Malaya****Invited Speakers**

Dr Muhammad Syafiq is a vascular and endovascular surgeon in Universiti Malaya Medical Centre (UMMC). Having obtained his undergraduate degree from Royal College of Surgeons in Ireland/Penang Medical College, he subsequently joined UMMC as a service medical officer in surgical department in 2011. He passed his Membership of Royal College Surgeons (MRCS) examination in 2015, awarded by Royal College of Surgeons in Ireland. Upon completing Master of Surgery from University of Malaya in 2018, Dr. Muhammad Syafiq went on to complete vascular fellowship from 2020 to 2023 in Ministry of Health Malaysia and Tan Tock Seng Hospital, Singapore.

**Dr. Gan Chye Chung****MBBS, MRCP (UK), FRCP (London & Edin), ESEneph, AM (Mal), Fellowship in Interventional Nephrology (SGP/JPN), ISN IN Scholar, JSDA Training Program****Consultant Interventional Nephrologist  
UM Specialist Centre****Invited Speakers**

Dr. Gan is a consultant interventional nephrologist, general nephrologist, and internist. He was one of the 12 first-batch ISN Interventional Nephrology Scholar 2021 recipients (Japan) and trained for complex endovascular thrombectomy, fistuloplasty, and central venoplasty at Singapore General Hospital. He was the first practising interventional nephrologist in Malaysia to be trained in advanced endovascular interventions. His area of expertise include ultrasound assessment of vascular access, ultrasound-guided haemodialysis catheter insertion, renal biopsy, minilaparotomy/Seldinger Tenckhoff catheter insertion, AVF/AVG, surgical/percutaneous endovascular thrombectomy, angioplasty, and stenting.

# About UM Specialist Centre (UMSC)

UM Specialist Centre (UMSC) has been in existence since 1998 in Lembah Pantai, Kuala Lumpur. It was initially established as an initiative by the Universiti Malaya (UM) and the Faculty of Medicine (FOM) to halt the “brain drain” of medical experts from the public sector to the private.

UMSC prides itself as the ‘Malaysia’s Premier Quaternary Hospital’ with a multidisciplinary of more than 270 specialists who among them are professor doctors with super and sub-specialists, to provide the highest quality of patient care.

UMSC is the preferred referral centre of complex cases where our complement of consultants – experts in their respective disciplines – are trusted to handle the challenges of complex medical and surgical cases. We deliver paramount evidence – based healthcare in a multidisciplinary environment utilising cutting edge technology.

UMSC is the first hospital in Malaysia that is positioned as the ‘Malaysia’s Premier Quaternary Hospital’ serving Klang Valley, nationally and regionally. We have a unique value proposition as we are second to none in the healthcare industry, which focuses on the quaternary level of cases and services.

It was a huge step after more than two decades in recognising our clinical and medical experts to the rest of the world. Our most valuable assets are indeed, our Specialists.

For more info, visit [www.umsc.my](http://www.umsc.my).



# UMSC in a Snapshot

## **113 Beds**

Spanning seven fully renovated wards, including one equipped with state-of-the-art i-Ward solutions for enhanced patient monitoring and care.

A distinguished team of professors and specialist consultants working collaboratively through a multidisciplinary approach to deliver comprehensive, patient-centred care.

## **310 Consultants**

## **183,000 Patients/Year**

UMSC receives over 180,000 patients annually across its various services: specialist clinics, day care facilities and inpatient wards.

An average of 90 surgeries performed weekly, majority of it being complex and requiring a multi-disciplinary approach.

## **>4,700 Surgeries/Year**

## **70-90 Procedures / Week**

High volumes of procedures performed by expert specialists.

The lowest average length of stay (ALOS) which reflects advanced levels of clinical care resulting in shorter hospital stays.

## **3.5 days Average Length of Stay (ALOS)**

# Overview of Cardiac, Neuro & Vascular Interventions in 2024

## Cardiology

**739****Coronary Angiographies Performed****509****Coronary Angioplasties Performed****39****Complex PCIs requiring rotational atherectomy, invasive imaging (IVUS), Fractional Flow Rate (FFR)/ Coronary Flow Reserve (CFR)****77****Implantation of Permanent Pacemaker (PPM)****35****Coronary Artery Bypass Grafting (CABG)**



# Overview of Cardiac, Neuro & Vascular Interventions in 2024

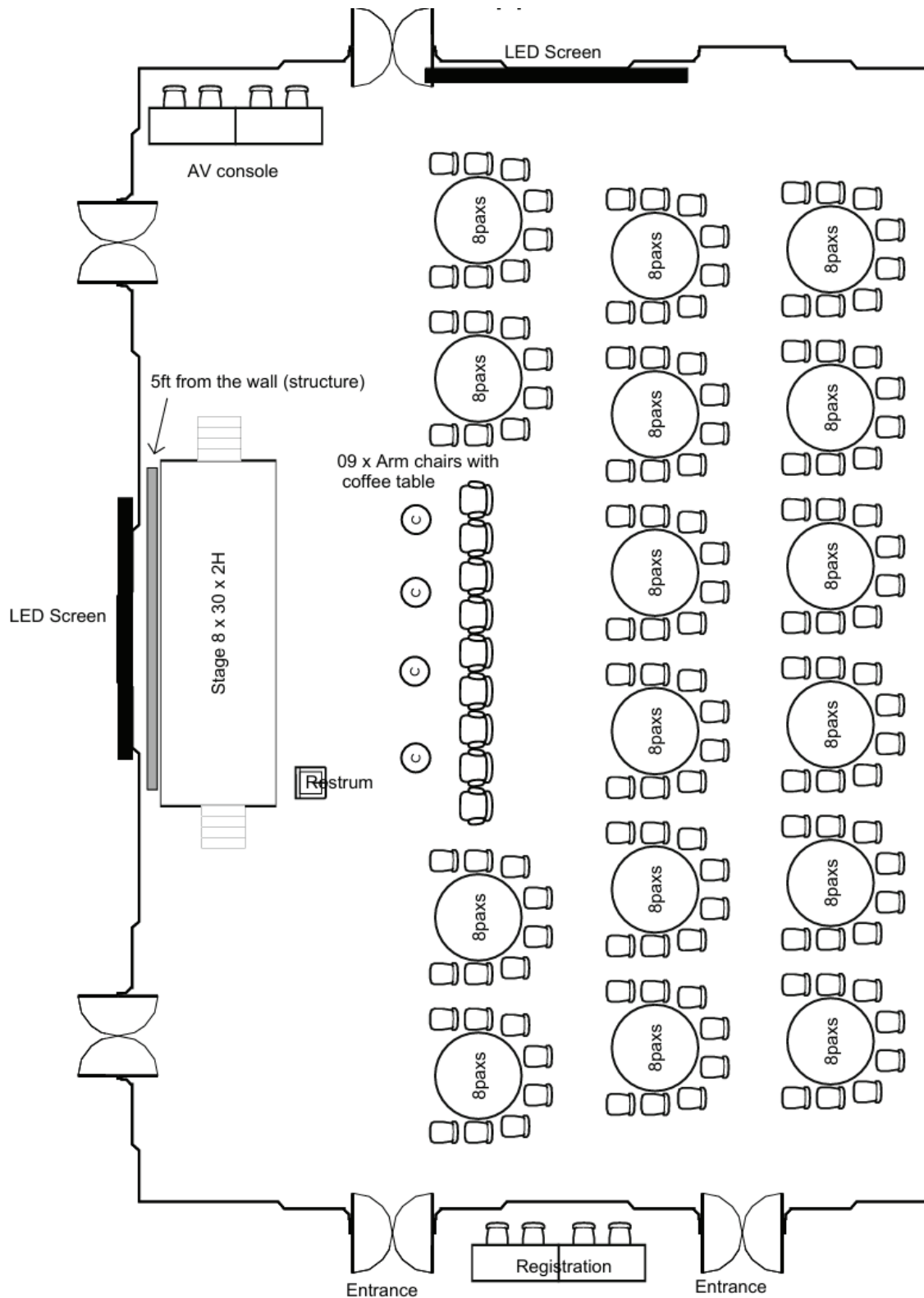
## ***Vascular & Endovascular Interventions***

**90****Arteriovenous Fistula Surgeries for Dialysis Access****22****Endovenous Laser Ablation of Varicose Veins****4****Endovascular Aneurysm Repair (EVAR)****35****Peripheral Artery Transluminal Angioplasties**

## ***Neurovascular Interventions***

**35****Cerebral Angiograms Performed****14****Neuro-interventions including stenting, embolization of aneurysms and arteriovenous-fistulas (AVF)**

# Ballroom Floor Plan



# Lunch Menu

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## SUP

*Sup Ayam Berempah Stulang*

## HIDANGAN UTAMA DALAM DOME

*Ayam Bakar Percik*

*Daging Dendeng*

*Gulai Kawah Ikan Tenggiri*

*Udang Msak Lemak Nenas*

*Telur Dadar 'Istimewa'*

*Sayur Campur Brokoli*

## PENCUCI MULUT

*Sago Gula Melaka*

## AIR

*Kopi / Teh 'O*



This menu is served for participants at **Indulge Coffee House, G Floor**

*Connect With Us*

