



BÁO CÁO HỘI THẢO ĐẶT VÀ CHĂM SÓC BUỒNG TIÊM

TỔ CHỨC TẠI KUALA LUMPUR , MALAYSIA



Dr . Lê Thông Lưu
Khoa Kỹ Thuật Ban Ngày





Advancing Safe Practice: Ultrasound-Guided Chemoport Implantation

2 - 3 October 2026, Friday & Saturday

Live Implantation | Live Broadcast | Ultrasound workstation

Sunway Sanctuary, Level 16 Harmony Hall, Sunway Medical Centre

Advancing Safe Practice: Ultrasound Guided Chemoport Implantation Workshop



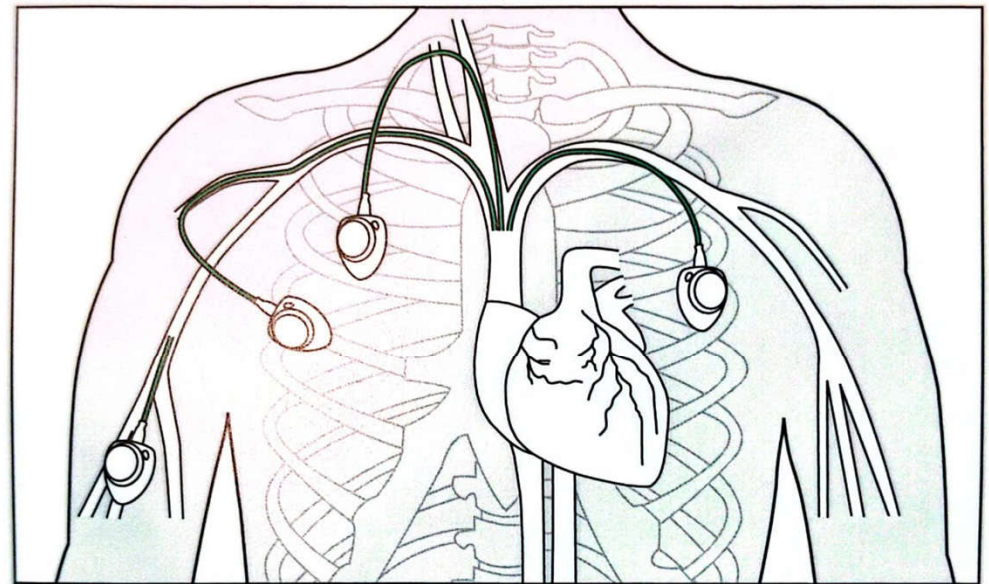
Meet Dr Naresh A/L Govindarajanthran
Consultant Vascular Surgeon
Sunway Medical Centre, Kuala Lumpur



Meet Professor Tae-Seok Seo
Consultant Interventional Radiologist
Korea University Guro Hospital, Seoul

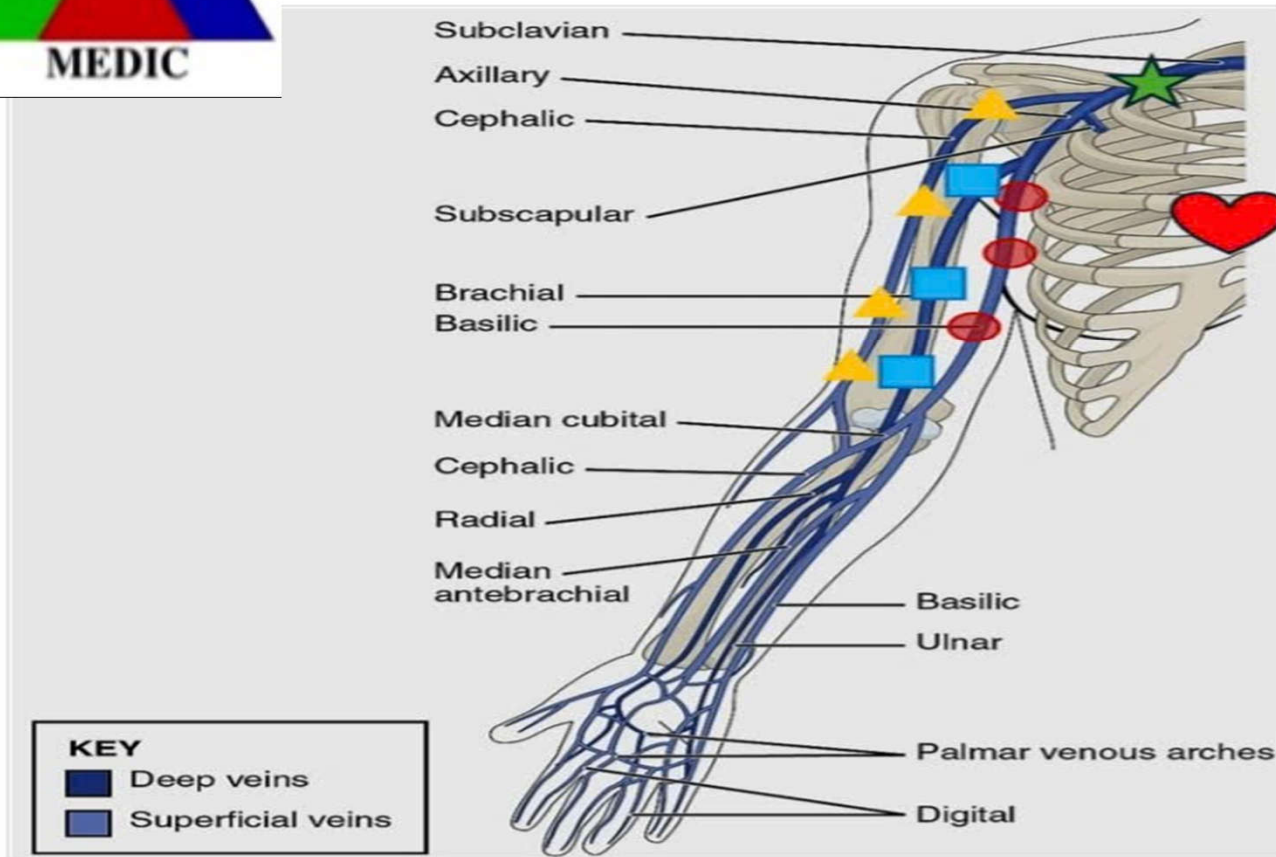


Meet Dr. Pradesh Kumar Kutty Krishnan
Consultant Diagnostic and Interventional
Radiologist
Sunway Medical Centre, Kuala Lumpur





Upper Arm Implantation



Dr . Naresh A/L
Govindarajanthran
Consultant Vascular
Surgeon

Comparative Complication Rates



eta-analyses demonstrate that while arm ports show a minor trade-off in localized venous thrombosis risk (managed by caliber ratio rules), they eliminate lethal chest complications entirely and deliver superior quality of life.

Arm Port vs Chest Port Comparison



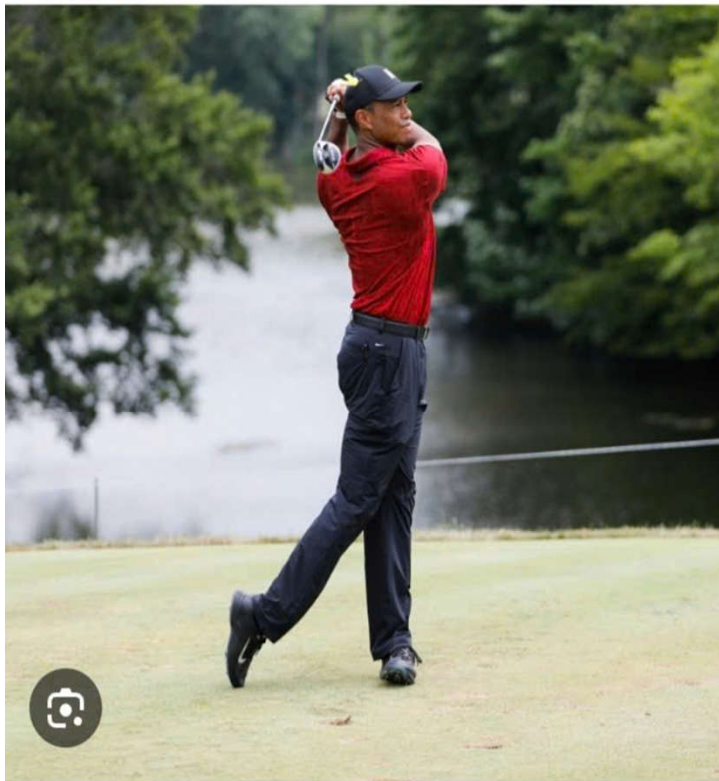
Clinical Parameter	Upper Arm Port (Brachial / Basilic)	Chest Port (IJV / Subclavian)	Clinical Significance
Pneumothorax / Hemothorax	0.0% (Zero Risk)	1.0% - 3.5% Risk	Crucial advantage in COPD, frail, and outpatient cases
Pinch-Off Syndrome	Absent	Up to 1.5% in Subclavian	No clavicular-first rib compression fractures
Cosmetics & Lifestyle	Hidden on medial arm	Visible infraclavicular scar	Prevents bra-strap friction and chest clothing exposure
Chest Radiotherapy	Completely outside field	Often within radiation portal	Avoids radiation dermatitis and portal infection risks
Catheter Thrombosis (CRT)	Slightly higher (2.5% - 4.5%)	Lower (1.5% - 2.8%)	Requires vein diameter > 3mm and catheter sizing



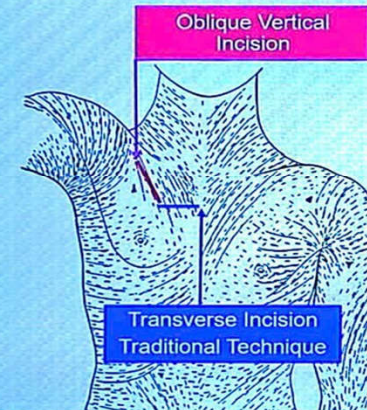
Single Incision Technique : comparison between single incision versus traditional technique

Prof Tae Seok Seo

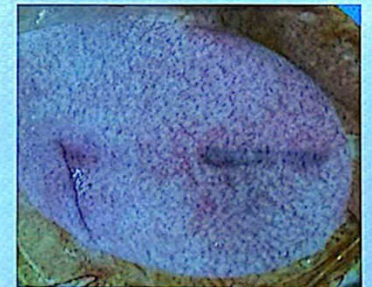
Consultant Interventional Radiologist



❖ Cosmetic Advantages of Single Incision Technique (Direction)



Tension free skin line (Langer's line)





Port Implantation Clinical Pathway

Dr Naresh A/L Govindarajanthran

Consultant Vascular Surgeon

Pocket Preparation

- Excess Pocket Depth vs. Skin Ischemia
 - Challenge
 - Too deep (>2–2.5 cm)
 - difficult percutaneous Huber needle access and painful palpation.
 - Too superficial (<0.5 cm) or closing it under excessive tension
 - skin necrosis, wound dehiscence, and early port extrusion.
 - Preventive Measures:
 - Maintain a consistent subcutaneous fat flap of approximately **0.8 to 1.5 cm** depth over the pectoral fascia.
 - Position the incision inferior or lateral to the anticipated port body so the suture line does not sit directly over the port septum.



PORTS IN ONCOLOGY PRACTICE



Care & Maintenance for Long-Term Use

Advancing Safe Practice:
Ultrasound-Guided Chemoport Implantation Workshop

Sr. (Ms) Ho Sweet Lee

Senior Lecturer, School of Nursing
Sunway University

3 October 2026 | Sunway Medical Centre



RELIABLE VASCULAR ACCESS

Supporting
the journey



**Less repeated
needle trauma**



**Less anxiety
about difficult
access**



**Greater
comfort**



**More freedom
between
treatments**



**Reliable
treatment
delivery**



**Preservation
of peripheral
veins**



**Confidence
in the treatment
journey**

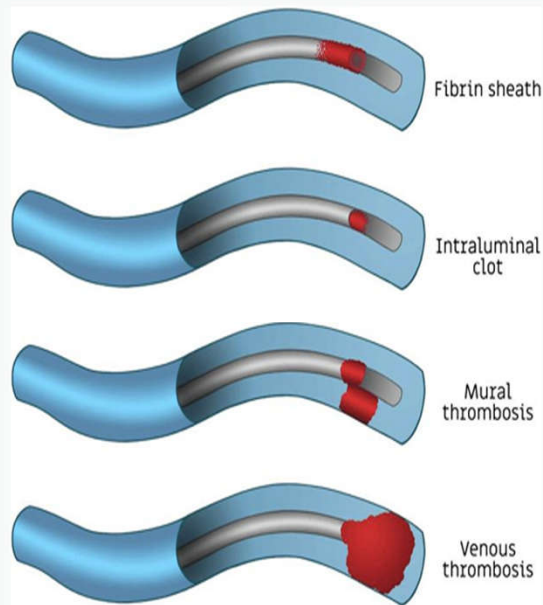
*More
than a
device.
A better
tomorrow.*

“A reliable port doesn't treat the cancer.
But it can **change how the patient
experiences cancer treatment.**”

The Importance of Port Care & Maintenance

- **Ensures device patency**
 - By preventing occlusions and clot formation.

Thrombotic occlusions



Non-thrombotic occlusions



Flushing is necessary:

- After needle insertion.
- Before starting treatment.
- After each treatment.
- Before needle removal.
- Every 4 weeks – 12 weeks for maintenance.

(McManus et al., 2023; Nickel et al., 2024; Oh et al., 2021)

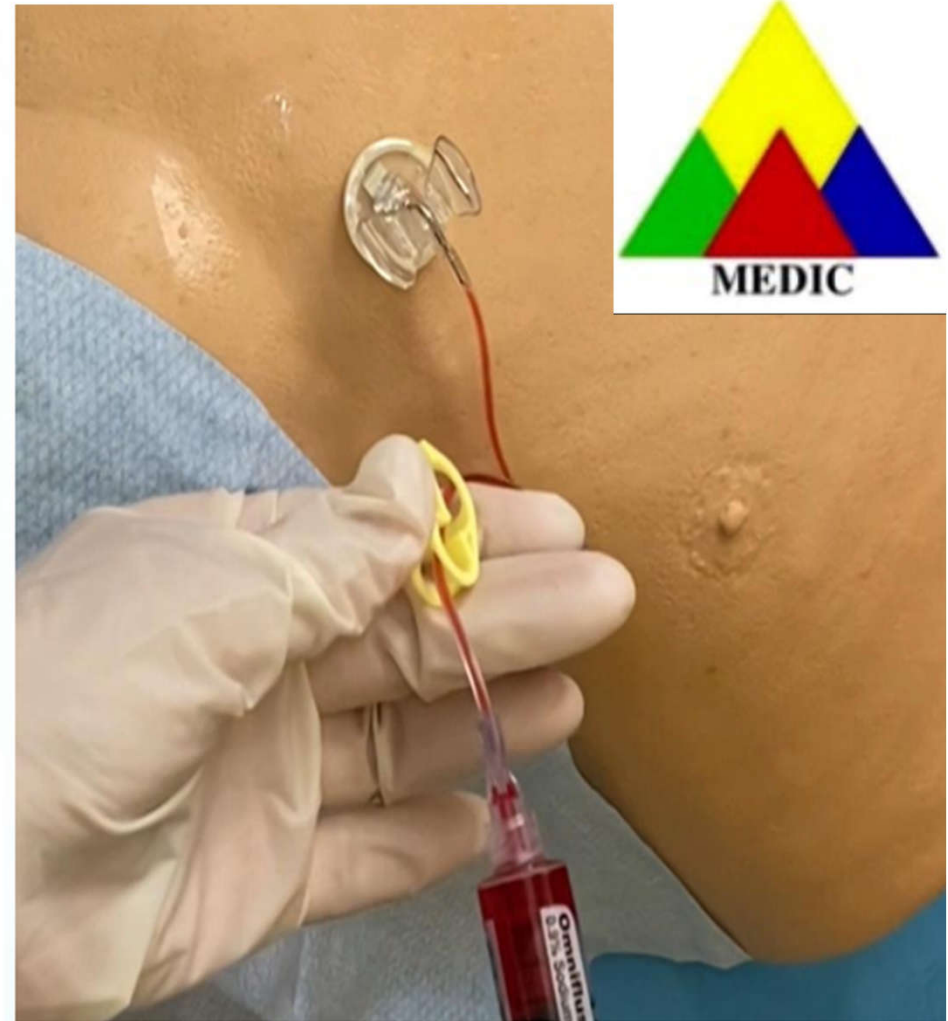
BLOOD RETURN

helps confirm catheter patency and appropriate needle placement

**NO BLOOD RETURN
= NO VESICANT**

Do not administer vesicant therapy until catheter function and needle position have been appropriately assessed.

(Nickel et al., 2024; Thomas et al., 2025)





COMPETENT CARE

- ✓ Knowledge
- ✓ Skill
- ✓ Asepsis
- ✓ Assessment
- ✓ Troubleshooting



RELIABLE PORT

- ✓ Patency
- ✓ Safety
- ✓ Function
- ✓ Continuity
- ✓ Confidence



BETTER PATIENT EXPERIENCE

- ✓ Comfort
- ✓ Less anxiety
- ✓ Confidence
- ✓ Quality of life
- ✓ Treatment continuity



**A reliable port does not happen by device alone
it depends on competent, consistent nursing care.**

CERTIFICATE

Organized by B. Braun Medical Industries Sdn. Bhd. – Asia Pacific
In collaboration with Sunway Medical Centre, Sunway City Kuala Lumpur

We herewith certify that

Dr Luu Le Thong

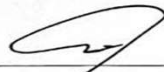
Has successfully participated and completed the

**Advancing Safe Practice:
Ultrasound-Guided Chemoport Implantation**

2nd Et 3rd October 2026 in Kuala Lumpur, Malaysia



Pallraj Armugum
B. Braun Medical Industries
VP – Head of Sales Et Mktg
Asia Pacific (Aesculap)



Dr Naresh Govindarajanthran
Consultant Vascular Surgeon
Sunway Medical Centre
Kuala Lumpur



Professor Tae-Seok Seo
Consultant Interventional Radiologist
Korea University Guro Hospital
Seoul

Cám ơn sự chú ý lắng nghe của quý vị !