

## 出國報告（出國類別：其他）

### 「Asia PCR Singapore Live 2018」國際會議

服務機關：台中榮民總醫院 心臟內科

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派赴國家：新加坡

出國期間：107年1月25日至1月27日

報告日期：107年03月16日

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## 一、 目的

職平日專注複雜性心導管的診治，獲邀參加「Asia PCR Singapore Live」並於會議中擔任演講者，題目為：Rescue intervention in acute complicated type B aortic dissection.

## 二、 過程及心得

### 1. Intervention Evolution to more focus on intravascular image

- =Optical Coherence Tomography (OCT) is an optical imaging modality that uses near-infrared light to create high-resolution images of tissue microstructure.
- Optical → of or relating to light (visual)
- Coherence → a measure of the correlation between phases of a wave or waves
- Tomography → method of producing images from a series of single planes or slices

= OCT application in coronary intervention, including

### **PCI Guidance**

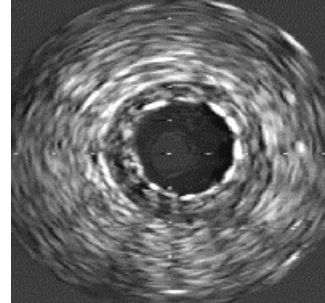
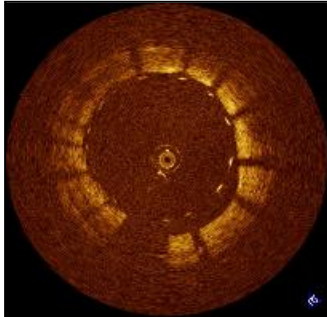
- **Lesion Assessment**
- **Stent sizing**

- **Evaluate stent placement, expansion, apposition**

OCT

vs

IVUS



- **Identify edge dissections, tissue prolapse and thrombus**

### PCI Follow Up

- **Late Malapposition**
- **Strut coverage**
- **Late Stent Thrombosis**
- **In-Stent Restenosis**

### 2. Comparing with OCT vs IVUS

=TCFAs, clustering in the proximal segments of the 3 major epicardial coronary arteries, are a common finding in unselected autopsy subjects. OCT is a feasible and accurate modality for detecting TCFAs both ex vivo and in vivo. (*Circ J* 2009; **73**: 1086–1091)

= OCT can quantify in-stent coverage and detect stent strut with high reproducibility. IVUS tends to underestimate the percentage of in-stent coverage as compared with OCT. (*EI* 2009;5:538-543)

### 3. Sometimes IVUS better than OCT in selected situation:

IVUS is useful in complex PCI

Confirm true and false lumen

Vessel size measuring

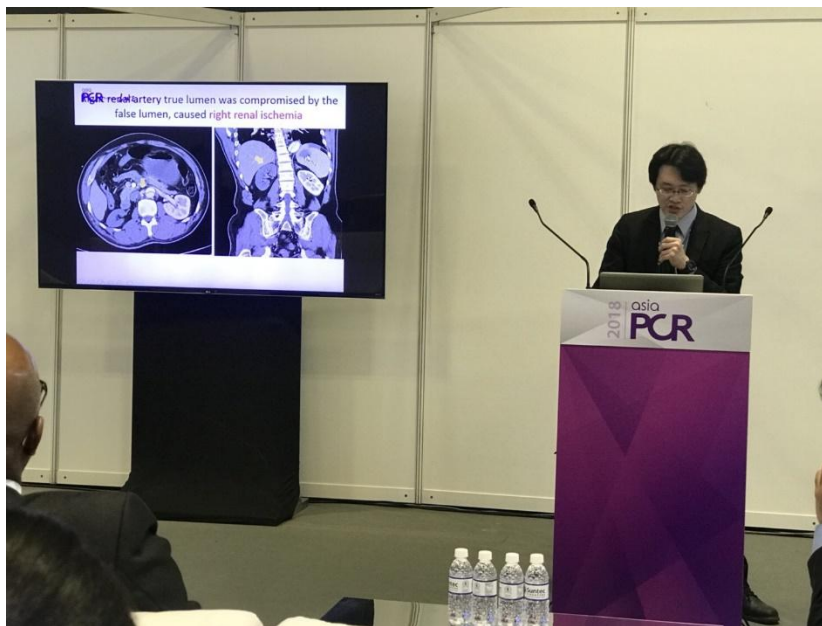
Evaluating stent expansion

Check the dissection

Cause of in-stent restenosis, no-reflow

Find the CTO stump

### 4. Presentation at Asia PCR 2018



## 5. Expert meeting with IVSU experts around the world



### 三、建議事項

無。