出國報告(出國類別:會議)

ESC CONGRESS BARCELONA 2014

服務機關:衛生福利部基隆醫院

姓名及職稱:劉秉昌主任

派赴國家:西班牙巴塞隆納

出國期間:103年8月30日至103年9月3日

報告日期:103年9月

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壹、摘要

此行於民國 103 年 8 月 30 日至 9 月 3 日至西班牙巴塞隆納參加 2014 歐洲心臟學會年會,歐洲心臟學會於歐盟實際運作之後,規模一年比一年盛大,與美國心臟學會並列兩大世界心臟專家參與的會議,其公布的治療指引(Treatment Guideline)也越來越被世界各地所接受,不再只是美國心臟學會獨領風頭,今年最主要有全新的治療指引發表,同時在各大心臟科學領域也有豐富的研究成果發表,並有最新的治療工具,藥物試驗結果,可與世界各國的專家們參與討論並將結果帶回院內與各科專家討論,收穫頗豐。

貳、本文

一、目的:

此行最主要目的是參與會議並帶回新的治療指引,歷經過署立醫院事件後本院心臟科一直處於人事異動的情形,終於今年狀況稍減,但對於病患的治療並不能懈怠仍然必須與時俱進,同時也可以與他國心臟科專家與我國一同與會的學者討論病患與心臟科將來走向與治療上的意見。因本院規模屬於區域醫院且與社區合作緊密,參加會議的過程主要集中在一般心臟醫學(general cardiology),預防性心臟科學(prevention cardiology)以及本人的臨床專長介入性心臟科學(intervention cardiology)。

二、過程

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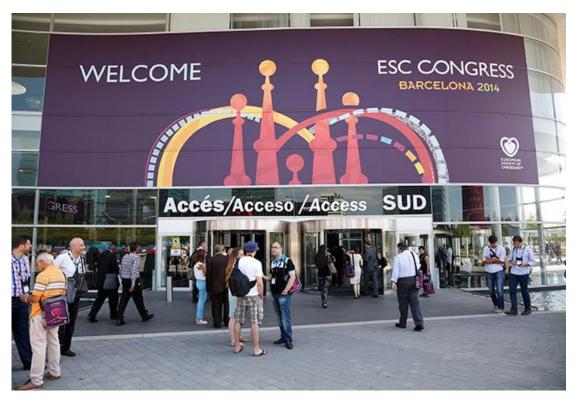
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opje (The Hub) Central Village 00–12:30	Sponsored by Vifor Pharma	
15-10:45 opje (The Hub) Central Village 100-12:30 irut Village 6	Sponsored by Vifor Pharma Update on mechanical circulatory support	
costa Village 6 costa Village 6 costa Village 6	Sponsored by Vifor Pharma Update on mechanical circulatory support Transatlantic differences in heart failure management	

:30-10:00 iro	Village 4	The importance of mitral regurgitation in aortic stenosis	p. 408
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30-10:00	LHIIOH.	TO PERIOD AND CONCOUNT OF THORE I SOUGHT	
	Hub) ntral Village	Thoracic aortic disease: from screening to treatment	p. 405
a		The evolving role of surgical and percutaneous mitral annuloplasty	p. 408
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:30-10:00	(The Hub)	Tips & tricks in acute heart failure	p. 404
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letta (The	Hub) ntral Village	Coronary vasospasm and microvascular dysfunction	p. 406
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:30-10:00 penhagen	Villago D	Critical strategies to reduce global and regional cardiovascular disease risk	p. 409
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ARRHY	THMIAS		
ARRHY :30-10:00	other designation	Borderline indications in implantable cardioverter-defibrillator	p. 409

三、心得

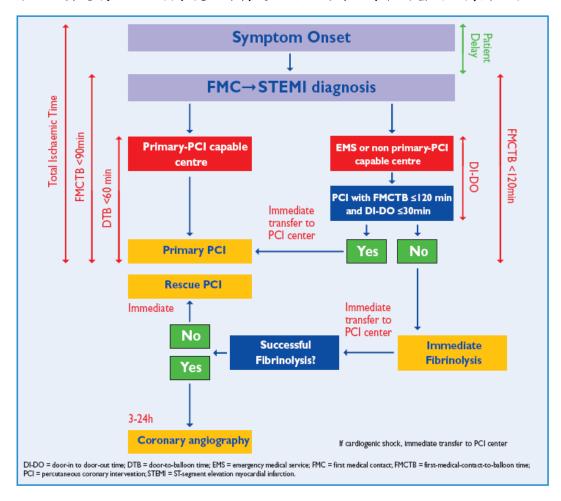
2014年歐洲心臟醫學會在西班牙巴塞隆納舉行,日期為2014年8月30日至9月3日,巴塞隆納自1992年舉辦奧運之後,多處場地增建為國際會議場地,因此已有多次歐洲心臟醫學會義在此舉行。會議第一天為大會報到手續為主,因此次參加人數超過三萬名故報到時間極為冗長,主要重要議題在第二日至第四日居多。



歐洲心臟學會與美國心臟學會是目前世界兩大心臟科會議,因此參加人數眾多且討論範圍廣泛。此次會議有幾大主軸包含影像學(IMAGING),基礎科學(BASIC SCIENCE),高血壓(HYPERTENSION),辦膜性心臟病/肺高壓/心肌疾病(VALVULAR DISEASE/PULMONARY HYPERTENSION/MYOCARDIAL DISEASE),介入性心臟科學(INTERVENTION),心衰竭(HEART FAILURE),缺血性心臟病(ISCHEMIA),預防性心臟科學(PREVENTION)以及心律不整(ARRHYTHMIA)。於大會議場內的不同場地舉辦。

此次歐洲心臟醫學會最重要應是多項治療指引的大幅更新(ESC guideline 2014),且由治療指引的負責人(Director)在會議中公布並討論內容與更新目的,其中兩項指引對於一般心臟科醫師最為實用,第一是 ESC Guidelines on myocardial revascularization,第二是 Atrial fibrillation management。

關於第一項 myocardial revascularization,急性心肌梗塞 STEMI 目前歐美已經不再討論舊有的 Door-to-balloon time 而是以 FMC(Frist Medical Contact)至氣球擴張術打開血管的時間來要求,另外若是不能進行心導管的醫院進行血栓溶解術也是要求在 30 分鐘內要完成。且必須事後立即轉送至可以進行心導管的醫院,簡圖如下:



如果病人今天呼叫 119,在歐美可以於救護車上完成心電圖並雲端傳送至負責醫院評估是否為 STEMI,若確診在救護車上即開始一連串治療措施包含給予抗血小板藥物,氧氣,IV 等初步治療,並且評估病人是否可以送到緊急心導管的醫療院所,如果可以進行緊急心導管則要求時間能夠小於 90 分鐘內。

但是目前國內的 EMT 系統若是要求在車上給予藥物在實務上仍有困難(醫療責任問題難以釐清)另外是心電圖的判斷目前仍難以在救護車上就完成相關處理。

另外 STEMI 藥物的選擇也有相關建議,之前建議使用 Aspirin + Clopidogrel 作為雙重抗血小板藥物,此次已經建議首選為 Aspirin + Ticagrelor / Prasugrel 作為雙重抗血小板藥物除非有相關禁忌症。目前國內與本院有 Ticagrelor 作為使用選項。

Prasugrel 此藥物並未進入我國健保給付藥物因此國內未常規使用。而慢性穩定性心 絞痛此次建議與之前相差不大,多在強調控制危險因子的重要性例如低密度膽固醇 蛋白 LDL 必須控制在 70mg/dL 以下。

第二項關於心房顫動(Atrial fibrillation)與缺血性中風(Ischemic stroke),目前 Aspirin 的角色已經相當被忽略,轉而要求抗血栓藥物包含 Warfarin 以及 NOAC (New Oral Anti-Coagulation)藥物。在亞洲人的相關研究中,Warfarin 的壞處相對於西方人種來的高無論是在腦出血或是其他相關出血副作用。因此 NOAC 類藥物的選擇相對來的較佳,有較低的副作用且預防中風的好處並不輸給傳統藥物,另外服用藥物不需時時監測 INR,對於病人也較方便且順從性更佳。因此目前藥物使用前首先要計算 CHA2DS2-VASc score 評估中風危險分數高低。若分數一分以上就建議要使用抗血栓藥物,相對是嚴格計算但預後較好。

	CHADS2 – VASc Score		
С	Congestive Heart Failure	1	
Н	Hypertension (>140/90 mmHg)	1	
Α	Age ≥ 75	2	
D	Diabetes Mellitus	1	
S ₂	Prior TIA or stroke	2	
V	Vascular disease (MI, aortic plaque etc)	1	
Α	Age 65-74	1	
Sc	Sex category (Female = 1 pt)	1	

而目前 NOAC 的選擇已被許可者如下圖所示:

	Dabigatran		Apixaban	Rivaroxaban
	150 mg BID	110 mg BID	5 mg (2.5 mg) BID	20 mg (15 mg) OE
Benefit over warfarin	Superior	Equivalent	Superior	Equivalent
Clinically significant reduction in ICH vs warfarin	Yes	Yes	Yes	Yes
Reduction in major bleeding vs wafrarin	Equivalent	Yes	Yes	Equivalent
CrCl >50 ml/min	150 mg BID	110 mg BID	5 mg BID	20 mg OD
CrCl 30 – 49 ml/min	150 mg BID	110 mg BID	5 mg BID	15 mg OD
CrCl >25 ml/min			2.5 mg or 5 mg BID	
CrCl >30 ml/min plus age ≥80 years		110 mg BID	2.5 mg or 5 mg BID	15 or 20 mg OD depends on CrC
Special considerations			Consider 2.5 mg BID if at least 2 of the following exists: 1) Age: ≥80 years 2) Weight: ≤60 Kg 3) Serum creatinine ≥133 (μM/L) (1.5 mg/dL)	
Antidote	persists in patien Pooled data from	CC for warfarin. Howe ts with warfarin induc NOAC trials sugges	ever, significant morbidity sed ICH despite rapid corret ~50% reduction in ICH. (ICH cases where "revers	ection of INR Consequently for
NOAC is not recommended with	Mechanical valves Valvular heart disease (primarily rheumatic heart disease/mitral stenosis) Severe blood dyscrasias with clinically significant anemia, thrombocytopenia			

Refs: Dowlatshahi D, et al. 2012. Stroke. 2012; 43:1812-1817 Skanes AC, et al. Can J Cardiol 2012;28:125-136

目前對於亞洲人的研究此三個藥物以第一個 Dabigatran 結果最佳,但只限於心房顫動預防中風方面,對於肺動脈栓塞以及深層靜脈血栓尚未拿到許可證。

此次參加歐洲心臟學會最大的感受是台灣目前的醫療水準其實軟體上與先進國家相比差距不多,但是藥物的選擇上受限於健保條件許多歐美已經奉為準則的藥物卻無法使用或是限制頗多,如何在現行體制與病人權益上的選擇的確為一大難題。另外參加醫學會可以得到許多第一手研究的結果發表並可以了解研究設計目的與背後意涵,此外也是即時更新臨床上的治療導向以免落後於標準。在忙碌的臨床工作

之餘許多醫師都沒時間去取得新知,定時的參加醫學會、瀏覽國際期刊,才不至於成為「舊時代產物」。

四、建議事項

目前醫學研究每10年的研究結果與治療方向常常有相當大的變化,在我們於醫學院求學實習的時代所學的與現在臨床實務遇到的常常有出入,舉例心導管以前只發明了氣球擴張術,現在卻變成心臟支架的時代,之後更可能演變成全生物可吸收材料的時代。醫生執業生涯少則20年多則40~50年,因次適時的更新知識並與世界接軌是必須的,否則將來病患發現自己長久信賴的醫院與醫師一直在用舊時代的物品治療自己,情何以堪,而且也會降低本身的競爭力,目前醫療市場多由私人財團企業所割據,公立體系醫院必須更加緊腳步更上避免被淘汰。參加醫學會或許有醫師會覺得像個大拜拜的活動,但是實際參加討論會議才會得到收穫。建議院方以及部內可以鼓勵醫師參加醫學會並且改善人力問題,改善常有一人身兼多職的狀況,也可以避免病人的流失與業務下滑。