出國報告(出國類別:參加會議)

國際髖關節會議 (International Hip Society, 2018)

服務機關:骨科部/院本部

姓名職稱:陳威明/主治醫師/副院長

派赴國家:瑞典

出國期間: 2018年6月25日至7月3日

國際髖關節學會(International Hip Society, IHS)為全球髖關節領域的菁英學會,學會成員總數一直控制在200人以內,含80位左右的積極成員(active member),要求具備足夠的學術造詣、經過學會投票嚴選,才得以成為會員,如能成為會員更是執業生涯的莫大殊榮。本人榮幸由2008起被推薦為台灣唯一代表,此次在瑞典的年會會議當中與八十幾位世界級大師相互切磋與學習,其中許多大師都是骨科教科書的編撰者。在此會議上本人發表了一篇口頭論文,分享髖關節原發惡性骨癌以自體骨重建的特殊處理經驗,獲得熱烈討論。大會主席美國哈佛大學教授 Henrik Malchau評為此會議 The most inspiring and best presentation.希望可以借由此一機會,讓世界各國的專家知道台灣在髖關節及骨腫瘤治療領域之進步,也可宣揚台北榮民總醫院的醫療成就。

關鍵字:IHS,Total hip arthroplasty,Malignant bone tumor

一、 目的

為增加在髋關節疾病研究領域上的新知,與各國學者交流,並提讓各國專家知道台灣最近幾年在此領域的傑出表現和進步,提高團隊在國際間的知名度。此次的交流活動探討了各種髋關節困難手術及髋關節疾病治療之規範、趨勢及新的治療方式。與會之專家討論不但熱烈而及非常深入及廣泛,藉由此會議,彼此互相交流學習,深感獲益良多,是會員每年期待參與的小而美會議。

二、 過程

6/25 晚上搭乘飛機前往荷蘭,再由阿姆斯特丹轉機至瑞典斯德哥摩爾,抵達時間已是6月26日中午。

6/27 搭火車至瑞典第二大城哥德堡,也是本次會議的舉辦地點。 6/28 上午參與會議並參加各國代表的跨國研究討論會、餐會,下 午參觀世界知名的哥德堡大學。

6/29 全天參加會議及討論,下午發表演講,題目為:

Recycled autograft reconstruction for primary malignant bone tumor of the hip,總共報告 67 例。我們團隊將病患罹患骨癌之骨盆切下後,予以高劑量放射線照射或液態低溫冷凍處理後再植回體內。手術相當困難,手術時間長、出血量高,但經過平均 98 個月的追蹤,

高達 72%的病患仍無病存活,日前累積病例數及存活率均位居世界 第一。

演講反應熱烈,許多大師發言提問及給我們高度讚賞和肯定,瑞典哥德堡大學教授甚至直接邀請我日後至該校演講及示範手術。 6/30 上午參加會議,主題主要討論脫臼截骨手術治療,會中有幾項新的手術方法,值得學習及引進台灣。

7/1 於哥德堡當地旅遊及參觀美術館。

7/2 搭飛機經阿姆斯特丹轉機返台。

三、 心得

- 1. 經過兩天半的會議及討論,可以更了解目前全球髖關節重建手術之發展趨勢與最新進展。
- 2. 和各國大師的交流和連絡感情,除了讓他們更了解台灣於髖關節領域之發展,也可增進國際情誼,方便日後年輕一代醫師出國進修或交流。
- 3. 舉辦此次會議的哥德堡市,是瑞典第二大城,適逢世足賽舉辦期間,瑞典國家隊踢進前八強,舉國歡騰,可以感受到瑞典人對足球的狂熱及人民團結一心的氛圍。真希望台灣有朝一日也能在全球關注的體育活動有優異比賽,凝聚全國人民的向心力。
- 4. 會後到了幾家超市購物買民生用品,發現多數已完全仰賴條碼結帳,並無櫃台人員在場,對工資調漲,施行一例一休的台灣,勢必是未來趨勢,值得大量引進,亦可用於醫療產業。此外,玻璃或塑膠空瓶大多有回收及退費,完全仰賴機器處理(附圖三),機器設立在超市門口,對環保及資源回收大有助益。

四、 建議事項

- 會議之安排及軟硬體設備相當完善有效率,令人耳目一新,可供 我們辦國際大會之參考。
- 2. 本院惡性骨腫瘤治療成果全球知名,臨床及基礎研究均有相當不錯的成果。人工髖關節置換一年超過一千例,手術及治療成果也不遜於全世界最知名之醫學中心,但是人工關節基礎研究宜再更深入加強,目前發表之論文較欠缺基礎研究之高影響力的文章。
- 3. 本院無專門之醫工及材料研究人才,和陽明大學醫工所或其他學 術單位加強合作,將臨床發現由基礎研究來印證,相輔相成方能 持續鞏固北榮髖關節治療領域在台灣之領導地位,會請骨科部關

節重建科更加努力,朝此方向前進。

附錄

Scientific Program International Hip Society, closed meeting, Gothenburg, Sweden June 27-30, 2018 Venue: Elite Park Avenue Hotel, Banquet Hall 2, floor 1

Thursday June 28, 2018				
08.00 - 08.15	Henrik Malchau: Welcome to Gothenburg			
08.15 – 10.00 Moderator: Dan	Session I: Primary Hip I – 7 presentations – 9 mins + 6 mins discussion Berry			
08.15 - 08.30	Changes in Spino-pelvic mobility after total hip replacement Andrew Shimmin			
08.30 - 08.45	Hip or spine surgery first? A survey of treatment order by members of the North American Hip Society Stuart B. Goodman, Ning Liu, Paul F. Lachiewicz, Kirkham B. Wood			
08.45 - 09.00	ls a modular dual mobility acetabulum a viable option for the young, active total hip arthroplasty patient? Robert L. Barrack, Denis Nam, Rondek Salih, Cindy R. Nahhas, Ryan M. Nunley			
09.00 - 09.15	Early clinical results of an anatomic cementless ceramic hip resurfacing arthroplasty Justin Peter Cobb, Susannah Clarke, Camilla Halewood, Rob Wozencroft, Jonathan Jeffers, Kartik Logishetty, Brogan Keane, Hardeep Johal			
09.15 – 09.30	Improved accuracy in restoration of native hip biomechanics in robotic-arm assisted surgery compared to conventional manual techniques for total hip arthroplasty: A prospective cohort study. Babar Kayani, Sujith Konan, Sumon Huq, Fares Haddad			
09.30 - 09.45	Complications and obesity in arthroplasty - A hip is not a knee John J. Callaghan, David E. DeMilk, Nicholas A. Bedard, S. Blake Dowdle, Jacob Elkins, Timothy S. Brown, Yubo Gao			
09.45 – 10.00	Dilute betadine lavage reduces the risk of acute postoperative infection in aseptic revision total knee or hip arthroplasty: Interim analysis of a randomized controlled trial Tyler E. Calkins, Chris Culvern, Denis Nam, Tad Gerlinger, Brett Levine, Scott Sporer, Craig J. Della Valle			

10.00 - 10.30 Break

10.30 – 12.30 Session II: Primary Hip II – 8 presentations – 9 mins + 6 mins discussion Moderator: Fares Haddad

10.30 – 10.45 The SPAIRE technique (Spare Piriformis and Internus, Repair Externus) for hip arthroplasty is safe and effective John Timperley

10.45 – 11.00	All success of bone cement are stiffened bone structures - a histo-pathological analysis of successfully functioned cemented stems up to 26 years after implantation Ch P Draenert, John Older, K Draenert		
11.00 – 11.15	Can acetabular bone stock be improved by using less stiff acetabular components? Gary Hooper, Nigel Gilchrist, Rod Maxwell, Chris Frampton		
11.15 – 11.30	Hip capsular function after arthroplasty Sara K. Muirhead-Allwood, K. Logishetty, R.J. van Arkel, G.K.C. Ng, J.P. Cobb, J. Jeffers		
11.30 – 11.45	Objective measures of activity and sleep after primary THA. How much do they improve in the first 6 months after surgery? L. Bogdan Solomon, J. Bahl, J. Arnold, K. Curness, F. Fraysse, D.W. Howie, D. Thewlis		
11.45 – 12.00	12.00 Oxford Hip Scores at 10 years are (Still !) associated with total hip revision within the subsequent 2 years Peter Devane		
12.00 - 12.15	10 – 12.15 Is the any clinical importance of separation congenitally dislocated hip into types C1 and C2 by G. Hartofilakidis? Rashid Tikhilov		
12.15 – 12.30	40 years with the Swedish Hip Arthroplasty Register Ola Rolfson, Maziar Mohaddes, Cecilia Rogmark, Johan Kärrholm, Henrik Malchau		
12.30 - 13.30	- Lunch		
13.30 – 15.00	- Business meeting		
Friday June			
	.00 – 10.15 Session III: Revision Hip I – 9 presentations – 9 mins + 6 mins discussion derator: Henrik Malchau		
08.00 - 08.15	5 90-day costs, re-operations, and re-admissions for primary total hip arthroplasty patients of varying BMI levels RIchard W. McCalden, K. Ponnusamy, J.D. Marsh, L.E. Somerville, S.J. MacDonald, D.D. Naudie, B.A. Lanting, J.L. Howard, E.M. Vasarhelyi		
08.15 - 08.30	The feasibility of outpatient revision total hip arthroplasty in selected patients Adolph V. Lombardi, Jr., K.R. Berend, M.J. Morris, D.A Crawford, J.B. Adams		
08.30 - 08.45	Two - year experience of a 'Hub and Spoke' revision arthroplasty network: 1,000 cases and counting Ben Bloch, Laura Mends, Peter James, Andrew Manktelow		
08.45 - 09.00			
	collarless Corail un-cemented stem Dick R. van der Jagt, A. Brekon, L. Mokete, J. Pietrzak, M. Nortje, A. Schepers		
09.00 - 09.15	5 Acetabular reconstruction with porous metal augments for primary and revision THA		
	Hirotsugu Ohashl, Hirotake Yo, Tesshu Ikawa, Yoshito Minami, Takanori Teraoka		
09.15 - 09.30	Inferior extended fixation using porous metal augments in acetabular reconstruction during revision total hip arthroplasty Yixin Zhou		
09.30 - 09.45	5 Histological evaluation of the quality of acetabular bone tissue in revision surgery Alessandro Massè, A. Bistolfi, A. Alinari, E. Cravero		
09.45 – 10.00	Uncemented highly porous tantalum acetabular components: What is the risk of failure 10 years after revision THA? PL Sousa, MP Abdel, EL Francois, AD Hanssen, David G Lewallen		
10.00 – 10.15	contemporary outcomes of 612 cases Matthew P. Abdel, Anthony Viste, Kevin I. Perry, Arlen D. Hansen, Robert T.		
10.15 – 10.4	Trousdale, Daniel J. Berry 45 Break		
10.45 – 12.4	10.15 - 10.45 cleak 10.45 - 12.45 Session IV: Infection - 8 presentations - 9 mins + 6 mins discussion Moderator: lan Stockley		
10.45 - 11.0	Different bearings on each side have different incidence of infection in patients with		
	bilateral THA Philippe Hernigou, Arnaud Dubory, Charles Henri Flouzat Lachaniette		
11,00 – 11,1	5 Is ceramic related to a lower bacterial adhesion than other biomaterials in vitro? M.A. Buttaro, P.A. Slullitel, M.L. Sánchez, G. Greco, S. McLoughlin, C. García-Avila, F. Comba, G. Zanotti, Francisco Piccaluga		

11.15 –	}	Can leukocyte esterase replace frozen section in the intraoperative diagnosis of periprosthetic hip infections? Luigi Zagra, Francesca Villa, Laura Cappelletti, Enrico Gallazzi, Giovanni Materazzi, Elena De Vecchi		
11.30 –	1	Outcome of DAIR procedures in the Swedish Hip Arthroplasty Register 1999 – 2016 Johan Kärrholm, Karin Svensson, Maziar Mohaddes, Ola Rolfson		
11.45 –		Joint aspiration, including culture of reaspirated saline after dry tap is a valuable diagnostic tool in the diagnosis and characterization of hip and knee prosthetic joint infection.		
		lan Stockley, D Partridge, R Cooper, R Townsend		
12.00 –		Do post-debridement cultures taken in cases of prosthetic joint infection reflect procedural success? Steven J. MacDonald, Mehul Garach, Brent Lanting, Richard McCalden, Edward Vasarhelyi, Douglas Naudie, James Howard		
12.15 -		Can we establish a global database for study of infection after THA? A proposal for the database structure and governance Henrik Malchau, Karin Svensson, Maziar Mohaddes, Ola Rolfson, Stephen Graves, Johan Kärrholm		
12.30 -		Single-stage revision with selective direct intra-articular antibiotic infusion for chronic infected total hip arthroplasty: an average of 4.5 years of follow-up – Chinese experience Cao Li		
12.45	– 13.45 –	Lunch		
		ession V; Bearing Surfaces – 7 presentations – 9 mins + 6 mins discussion rew Shimmin		
13.45 -		A prospective randomized trial comparing alumina ceramic on-ceramic with ceramic on conventional polyethylene: 15 year follow-up James P. Waddell, A. Atrey, J. Wolfstadt, A. Khoshbin, S. Ward		
14.00 -	- 14.15	Highly crosslinked polyethylene in total hip arthroplasty – results after 8 to 16 years A Cheung, CH Yan, PK Chan, H Fu, S Cheung, (Peter) KY Chiu		
14.15 -	- 14.30	Polyethylene wear of a porous-coated acetabular cup. A 18- to 23- year prospective follow-up study E García-Roy, E García-Cimbrelo, José Cordero-Ampuero		
14.30 -	- 14.45	Lower friction and wear of highly cross-linked poly with phospholipid polymer surface treatments in ceramic on polyethylene total hip replacements: In vitro testing		
		Kevin L. Garvin, J.N. Weisenburger, M. Kyomoto, R.L. Siskey, S.M. Kurtz, H. Haider		
14.45 – 15.00		tion of <i>in vivo w</i> ear of vitamin E stabilized highly cross-linked polyethylene at ars: A multicenter, RSA Study		
	Orhun Muratoglu, Vincent Galea, James Connelly, Bita Shareghi, Johan Kärrholm, Olof Sköldenberg, Mats Salemyr, Mogens B Laursen, Charles Bragdon, Henrik Malchau			
15.00 – 15.15	dimens	ysis after primary THA using first-generation XLPE: analysis using 3- sional CT scan at follow-up of fifteen years -Hoon Baek, Jong-Min Lee, Yeon Soo Lee, Shin-Yoon Kim		
15.15 – 15.30		eduction for the THA community worldwide produced by XLPE n Harris		
15.30 – 16.00 Break				
16.00 – 17.00 Session VI: Miscellaneous – 4 presentations – 9 mins + 6 mins discussion Moderator (John) Timperley				
16.00 – 16.15	total hi	eval analysis of oxinium heads: Do oxinium heads decrease tribocorrosion in p arthroplasty? as Bostrom		
16.15 – 16.30		ed autograft reconstruction for primary malignant bone tumor around the hip ing Chen		
16.30 – 16.45		rect anterior approach for treatment of periprosthetic fractures of the femur Krismer		
16.45 – 17.00		sh Orthopaedics in the 21 st century – How can we use national databases? alchau, Ola Rolfson, Peter Grant, Jonas Thanner, Magnus Karlsson, Maziar ddes		

Saturday June 30, 2018

11.15

Close of meeting

	08.30-10.00 Session VII: Non Arthroplasty I -6 presentations -9 mins + 6 mins discussion Moderator: David Lewallen					
	08.30 - 08.45	Borderline acetabular dysplasia: Independent predictors of hip instability versus impingement Jeffrey J. Nepple, Elizabeth A. Graesser, Joel E. Wells, John C. Clohisy				
	08.45 - 09.00	Tissue properties of delaminated cartilage flaps in FAI patients and their potential for refixation Clara Levingson, Florian Naal, Gian Salzmann, Marcy Zenobi-Wong, Michael Leunig				
	09.00 – 09.15	High survivorship and little osteoarthritis at longterm followup in severe SCFE patients treated with a modified Dunn procedure Klaus A. Siebenrock				
	09.15 – 09.30	Rotational acetabular osteotomy for symptomatic hip dysplasia in patients younger than 21 years Yuji Yasunaga, Ryuji Tanaka, Takuma Yamasaki, Takashi Syouji, Nobuo Adachi				
	09.30 - 09.45	The capsular arthroplasty for young patients with unilateral hip dislocation Hong Zhang				
	09.45 – 10.00	Achieving a zero percent transfusion rate in periacetabular osteotomy (PAO) Richard F. Santore , Michael P. Muldoon, Austin A. Long, G. Max Gosey, Robert Healey				
10.00 – 10.30 Break						
10.30 – 11.15 Session VIII: Non Arthroplasty II – 3 presentations – 9 mins + 6 m discussion Moderator: John Callaghan						
	10.30 – 10.45	Does the hip-shelf procedure modify the function and survival of primary hip arthroplasty? A case-control study comparing outcomes of arthroplasty after hip-shelf to those of arthroplasty in dysplastic hips at a minimum 10-years' follow-up Henri Migaud , K. Bénad, S. Putman, C. Delay, J. Girard, G. Pasquier				
	10.45 – 11.00	Genome-wide association study of osteonecrosis of the femoral head Takuaki Yamamoto , Yuma Sakamoto, Yasuharu Nakashima, Shiro Ikegawa				
	11.00 – 11.15	Modified femoral neck osteotomy through surgical hip dislocation for osteonecrosis of femoral head: Preliminary results Xiaodong Chen, Chao Shen, Junfeng Zhu, Jianping Peng, Yimin Cui				

Recycled autograft reconstruction for primary malignant bone tumor around the hip

Wei-Ming Chen

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The purpose of this study was to evaluate the functional and oncological outcome of recycled autograft reconstruction after a wide excision for primary malignant bone tumor around the hip.

From 1998 to 2015, 67 patients with a primary malignant bone tumor involving proximal femur or periacetabular zone (P2) were included. There were 36 males and 31 females with a mean age of 34 years (13 to 58). Of these, 29 patients had grade I or II chondrosarcoma, 28 high-grade osteosarcoma, 6 Ewing's sarcoma and 4 undifferentiated pleomorphic sarcoma. Enneking stage of all 67 patients was stage II. Of the resection classification, proximal femur resection was performed in 29 patients, P1+P2 in 15, P2+P3 in 14, P1+P2+P3 in 4, P2 only in 4, and P2+proximal femur in 1. Extracorporeally irradiated recycled autograft and liquid nitrogen frozen autograft were performed in 44 and 23 patients, respectively.

At a mean follow-up of 98 months (10 to 239), 48 patients (72%) were continuously disease-free, 12 (18%) died of disease and 7 (10%) were alive with disease. The tumors of these patients who had died of disease were usually located in pelvic bones (10/12). Of these 37 patients with pelvic tumors, 7 patients (22%) had local recurrence, four of them received external hemipelvectomy. Other complications included hip dislocation in 2 patients, nerve injury in 2 and deep infection in 2. However, the above complications were rarely occurred in the patients with proximal femur reconstruction. The mean Musculoskeletal Tumor Society functional score were 77% (53 to 93).

Recycled autograft reconstruction for primary malignant bone tumor around the hip is a valid method with acceptable morbidity and a favorable functional outcome.

Notes



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圖三