出國報告(出國類別:開會)

2012 年美國 骨盆疼痛學會 國際年會

服務機關:國防醫學院三軍總醫院

姓名職稱:張芳霖、林信隆 主治醫師

派赴國家:美國

報告日期:101年11月01日

出國時間: 101年10月17日至10月22日

摘要

慢性骨盆疼痛是擾人的婦女疼痛,其成因常爲子宮內膜異位症、膀胱炎、直腸方面疾患所致,病人也常常合併頭痛、腹瀉、便秘。有些病人也會被性交疼痛所困擾,西方民風較爲開放,所以症狀較爲完整呈現,然而較亞洲民族較爲保守,故而症狀與流行率似乎較西方民族爲低,所幸隨著時代進步,東方人對於自身的身體症狀也逐漸覺醒,所以個人在疼痛門診之中,有40-50歲女性患者,自主性較強的病人會說的比較多此類症狀。爰此類病人事實上存在,但是囿於疼痛治療的醫師在台灣屬於少數,而專研於骨盆疼痛的醫師自是更少,國軍官兵之中,女性軍人愈來愈多,軍眷族群原也是軍醫服務對象,所以個人遂以此爲核心,前往芝加哥參與此次疼痛年會之海報發表與研討,也帶回觀念與技術,希望提供門診病人更完整的照顧品質。

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本文

目的

將世界上每年度一次之骨盆疼痛醫學研討的內容與新知,學習內化,提昇門診 病患與國軍疼痛醫療處理的品質。

過程

2012 - 10 - 17 搭長榮經濟艙出發,Oct 18, 2012 凌晨抵芝加哥,經過約 40 分鐘車程終抵大會會場旁邊的住宿旅館,稍事盈洗與休息,前往大會會議場所(The Palmer House Hilton)報到,本回議程主要是討論基礎課程(Basic Course),首先邀請演講由 Wisconsin 醫學院 Dr. Chelimsley 講解慢性疼痛的生理機轉,次由丹佛醫學院(Denver medical center)Dr. Witzeman 講解慢性骨盆疼痛的必要元素,也由 Dr. Shin(Albert Einstein College)講解婦科檢查的必要重點項目,特別的是邀請職能復健專家(Physical+therapy)Hartmann 女士講解在慢性骨盆疼痛之中所需使用的各項物理復健的動作與姿勢,大會並且徵求會員與與會人員於第三日清晨 0630 開始會前瑜珈,課程教育,透過專業人員教導,使我們身體親自感受瑜珈所帶來生理上的舒緩,當然我與張醫師也是努力去感受這種較爲柔性的治療方式。因爲以往國內疼痛治療方式與項目多爲藥物、神經阻斷,或者復健等方式,瑜珈的應用也說明中國傳統醫學的經絡理論,似乎與之互相呼應。

會中婦產科醫師報告的議題,顯然是大宗,因爲子宮內膜異位症是誘發子宮所在地骨盆腔慢性疼痛的主要原因,大會會長本身也是婦產科醫師,他也提供數個危險因子的診斷與預後分析因子,有助此類疾病的診斷,當然西方女權平等,泌尿科之陰道疼痛也是會中大量被討論的主題,其中來自North Shore University 之Dr. Tu提供生動有趣的會議互動問答,令人印象深刻。另外大會也邀請骨骼肌內專家(復健專家)說明肌肉骨骼方面的病生理機制,另外也提供腸道疾患的診斷專題演講,來自大腸以及小腸的訊號,對於骨盆疼痛的角色也是非常重要。因爲腸腔分泌的激素與神經路徑的迴饋,同樣會誘發慢性骨盆疼痛。

課中穿插四場海報新知報告與討論,個人覺得是大會的高潮與價值。透過海報,各地臨床工作者互相詢問,過招,我也從中與許多報告者獲益許多,除了診斷的訊息與速度更爲快速、精準之外,治療技術也因爲已經從事數年的基礎,所以進行陰部神經減敏阻斷,就覺得可以快速學習到他們的小秘訣,當然,我也分享了許多自身的心得。我的海報主題是利用不同鴉片類阻斷劑來增強慢性疼痛治療者長期使用嗎啡的止痛效果。來自員勒醫學中心的官醫師對我的內容非常感興趣。同行的張醫師則是將局部麻醉劑Lidocaine靜脈滴注的方式應用於手術中與術後止痛,同樣也獲得許多人的注意眼光。大會結尾特地安排肛門疼痛的主題作爲結尾,主題與解剖結構互相呼應,同樣饒富趣味,肛門雖小,卻承載骨盆底的壓力,所以在神經病理學的診斷也需分辨是前列腺或卵巢或子宮或直腸或淋巴抑或血管來源疼痛,內容精采。

2012 IPPS 宗旨

- Anatomy Overview 知識
- Why and How to Evaluate Chronic Female Pelvic Pain `如何診斷
- Visceral Pain IBS/IC 內臟疼痛
- Vulvar Pain 陰部疼痛
- Nursing and Office Management 護理復建
- Surgical Management 外科處置
- Medical and Complementary Management of Chronic Pelvic Pain 藥物與替代療法
- Endometriosis 子宮內膜異位症
- Musculoskeletal Disorders and the Role of Manual Medicine 肌肉骨骼與復建



大會會長 DR Lorimer Moseley, PhD, B. App Sc



Palmer House Hilton in Chicago. DR Stephanie

presentation of causes of manual medicine for CPP.

心得與建議

- 本次會議內容說明疼痛治療爲多面向的治療,本院也以順應治療趨勢,於去年成立整合疼痛治療中心,多科整合。
- 2. 治療儀器的需求日新月異,盲目穿刺的世紀顯然結束,必須輔以高解析度的超音波或電腦斷層或 X 光設備,方可提昇治療的安全性。
- 3. 本次心得最強烈是針灸、復健等方式早早已是整合式治療的一環,所幸我們的 腳步也算同步齊驅。
- 4. 疼痛治療需要投入人力與資源,建議未來衛生署在分科資源與健保規範內能確立其角色,協助成長,以目前學會的統計不到一千位的疼痛科醫師實不足以提供質上的改善。
- 謝謝軍醫局的協助,俾使個人有機會參與此次年會,未來將持續進步,回饋病 患品質更好的照護。

Program Schedule bulks splind

		Dulko sprott
ursday, October 18, 201	<u>12</u>	D Jakes PGB, TRPVI,
0 a.m. – 7:50 a.m.	Continental Breakfast	2 00120 10
•	Location: Adams Foyer	25 TNGS ABSOLD WH contraction
)0 a.m. – 5:00 p.m.	Registration/Information Desk O	pen TIN palm
·	Location: Adams Foyer	& Pysmenowhea might be
00 a.m. – 5:30 p.m.	Exhibit Hall Open	Visceral alludyates
	Location: Monroe Ballroom	A paramag
0 a.m. – 8:05 a.m.	Welcome from the Basics Cours	e Chair Visceval Motor Reflex
	Sawsan As-Sanie, MD, MPH	
	University of Michigan	Lessonshy ? Lo 27 6
	Ann Arbor, MI	tad wormany
5 a.m. – 8:35 a.m.	Introduction to the Physiology of	f Chronic Pain
	Thomas C. Chelimsky, MD	2 Cardol
	Medical College of Wisconsin	(Co way
	Milwaukee, WI	
5 a.m. – 8:40 a.m.	Q&A	Pereira song
0 a.m. – 9:50 a.m.	Evaluation of the Chronic Pelvic	Pain Patient '
8:40 a.m. – 9:00 a.m.	Part I: Essential Elements Kathryn M. Witzeman, MD	•
	Denver Health Medical Ce	enter - Rapho was
	Denver, CO	har & magning
9:00 a.m. – 9:05 a.m.	Q&A	Penter - Raphe magning albertin
9:05 a.m. – 9:25 a.m.	Part II: Essential Element	s of the Gynecologic Exam
	Ja Hyun Shin, MD	s of the Gynecologic Exam Sahoja 2010
	Albert Einstein College of	
	Bronx, NY	Opiold. V taphe magning
9:25 a.m. – 9:30 a.m.	Q&A	response to
9:30 a.m. – 9:50 a.m.	Part III: Essential Elemen	ts of the Musculoskeletal Exam Colopectal distanton
	Elizabeth Dee Hartmann, P	
	Dee Hartmann Physical T	herapy for Women y Ma / (Viscend Stimu)
	Chicago, II	Comment of the control of the contro
0 a.m 10:00 a.m.	Q&A	32 by & Visceral
		COXZi) sensattru
00 a.m. – 10:20 a.m.	Break	as (schenle > TRAV, 110 hantat
	Location: Monroe Ballroom	The PVI Up negwation
20 a.m. – 11:00 a.m.	Diagnosis and Treatment of Gyne	ecologic Causes of Chronic Pelvic Pain
	Maunew 1. Siednoff, MD, MSCR	S allodyners
	University of North Carolina	Lophe magnin
	Chapel Hill, NC	worther WA
		Contractilly and perfusion

11:00 a.m. – 11:05 a.m.	Q&A (pelle stimbute pressue, letine)
11:05 a.m. – 11:35 a.m.	Diagnosis and Treatment of Vulvar Pain Frank Tu, MD, MPH North Shore University Health System Evanston, IL
11:35 a.m. – 11:40 a.m.	Q&A & Vulvar paln.
11:40 a.m. – 12:10 p.m.	Diagnosis and Treatment of Abdominal and Pelvic Peripheral Neuropathies
	Mario Castellanos, MD Dignity Health Phoenix, AZ Piagrapian Piag
12:10 p.m. – 12:20 p.m.	Discussion () () () Theat sens they impart.
12:20 p.m. – 1:20 p.m.	Lunch (on your own) \(\sigma \) \(\sigma \
1:20 p.m. – 1:50 p.m.	Diagnosis and Treatment of Urologic Causes of Chronic Pelvic Pain on pain. Barry K. Jarnagin, MD Center for Pelvic Health Franklin, TN
1:50 p.m. – 1:55 p.m.	Q&A
1:55 p.m. – 2:35 p.m.	Diagnosis and Treatment of Musculoskeletal Causes of Chronic Pelvic Pain Brandi Kirk, PT, BCB-PMD Kirk Center for Healthy Living Lockport, IL Colleen Fitzgerald, MD Rehabilitation Institute of Chicago Chicago, IL
2:35 p.m. – 2:40 p.m.	Q&A
2:40 p.m. – 3:10 p.m.	Diagnosis and Treatment of Functional Bowel Disorders Alain Watier, MD Centre Hospitalier Universitaire Sherbrooke Sherbrooke, Quebec, Canada
3:10 p.m. – 3:20 p.m.	Discussion
3:20 p.m. – 3:40 p.m.	Break Location: Monroe Ballroom
3:40 p.m 4:20 p.m.	Medical and Behavioral Therapies for Chronic Pain Devon M. Shudhman MD University of Michigan Ann Arbor, MI
4:20 p.m. – 4:25 p.m.	Q&A

Psychological Aspects of Living with Chronic Pelvic Pain: Evaluation and Treatment of 25 p.m. - 5:00 p.m. Comorbid Anxiety and Depression Sarah M. Fox, MD Women & Infants' Hospital of Rhode Island Providence, RI IPPS Board of Directors Meeting 00 p.m. - 9:00 p.m. Location: The Hancock Parlor iday, October 19, 2012 Continental Breakfast in Exhibit Hall 00 a.m. - 7:50 a.m. Location: Monroe Ballroom 0630-0900 PAR RI poter Exhibit Hall Open 00 a.m. - 7:00 p.m. Location: Montoe Ballroo AM 1645-1115 Registration/Information Desk Open 00 a.m. - 5:30 p.m. pm 3x-355 Location: Adams Foyer Welcome from the Scientific Program Chair 50 a.m. - 8:00 a.m. Stephanie Prendergast, MPT Pelvic Health & Rehabilitation Center San Francisco, CA Presidential Address 00 a.m. - 8:10 a.m. Georgine Lamvu, MD, MPH Advanced Minimally Invasive Surgery and Gynecology Specialists Orlando, FL James E. Carter Memorial Lecture: 🕍 Update on the Pathogenesis and Treatment of 10 a.m. - 9:05 a.m. **Endometriosis** Erkut Attar, MD Istanbul University Medical Center Istanbul, Turkey Innovative Injection Therapies for Pain Syndromes of Pelvic Floor Fascia 05 a.m. - 9:45 a.m. Hal Blatman, MD Blatman Pain Clinic Cincinnati, Ohio The Acute Anus 45 a.m. - 10:25 a.m. Dana Hayden, MD, MPH Loyola University Medical Center Chicago, IL):25 a.m. - 10:45 a.m. Discussion Break & Poster Session I in Exhibit Hall):45 a.m. - 11:15 a.m. Location: Monroe Ballroom

1:15 a.m. - 12:30 p.m. Clinical Updates and Latest Research 11:15 a.m. - 11:35 a.m. Irritable Bowel Syndrome Alain Watier, MD Centre Hospitalier Universitaire Sherbrooke Sherbrooke, Quebec, Canada 11:35 a.m. -- 11:55 a.m. Vulvodynia Andrea Rapkin, MD David Geffen School of Medicine at UCLA Los Angeles, CA 11:55 a.m. – 12:15 p.m. Interstitial Cystitis Nel E. Gerig, MD The Pelvic Solutio Denver, CO 12:15 p.m. - 12:30 p.m. Discussion 1:30 p.m. - 2:00 p.m. Lunch (on your own) 00 p.m. - 3:25 p.m. Translational Science Symposia - Part 1 2:00 p.m. - 2:40 p.m. Visceral Pain Models Kevin Hellman, PhD North Shore University Health System Evanston, IL 2:40 p.m. - 3:10 p.m. Vulvar Pain Mechanisms Melissa Farmer, PhD McGill University Montreal, Quebec, Canada 3:10 p.m. – 3:25 p.m. Discussion 25 p.m. ~ 3:55 p.m. Break & Poster Session I in Exhibit Hall Location: Monroe Ballroom 55 p.m. - 5:10 p.m. Translational Science Symposia - Part 2 3:55 p.m. - 4:25 p.m. Dyspareunia in Women With Cancer Stacy T. Lindau, MD, MAPP The University of Chicago Chicago, IL V Neurobiology of Complex Painful Dysautonomias 4:25 p.m. - 4:55 p.m. Thomas C. Chelinsky, M.D. Medical College of Wisconsin

Milwaukee, WI

4:55 p.m. - 5:10 p.m. Discussion

5 p.m. - 7:00 p.m. Welcome Reception & Poster Session II in Exhibit Hall Location: Monroe Ballroom

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aturday, October 20, 2	012
:15 a.m. – 7:15 a.m.	Yoga Class
	Location: Chicago Room
:00 a.m. – 7:50 a.m.	Continental Breakfast in Exhibit Hall
	— Location: Monroe Ballroom
:00 a.m. – 11:00 a.m.	Exhibit Hall Open
Too diffi	Location: Monroe Ballroom
:00 a.m. – 5:30 p.m.	Registration/Information Desk Open
, , , , , , , , , , , , , , , , , , ,	Location: Adams Foyer
:50 a.m. – 8:00 a.m.	Welcome and Announcements Stephanie Prendergast, MPT
	Pelvic Health & Rehabilitation Center San Francisco, CA
:00 a.m. – 8:55 a.m.	C. Paul Perry Memorial Lecture: Rethinking Pelvic Pain – Lessons From Two Decades of Explaining Pain
	Lorimer Moseley PhD, B.App.Sc.(Phty)(hons)
	University of South Australia
	Adelaide, Australia
:55 a.m. – 9:35 a.m.	Simultaneous Pelvic Floor Physical Therapy and Functional Brain Imaging: Applications to Mind-Body Interactions in Chronic Pain Daniel Kirages, DPT, OCS, FAAOMPT University of Southern California Los Angeles, CA Jason Kutch, PhD University of Southern California Los Angeles, CA
:35 a.m 10:15 a.m.	Optimizing Organ-Related Pelvic Pain: Making A Difference With Visceral Manipulation Gail Wetzler, RPT, CVMI Wetzler Integrative Physical Therapy Center Newport Beach, CA
0:15 a.m. – 10:30 a.m.	Discussion
0:30 a.m. – 11:00 a.m.	Break & Poster Session II in Exhibit Hall
	Location: Monroe Ballroom
1:00 a.m 11:40 a.m.	Opioids: Part of a Polymoidal Pain Treatment: Which Patent, Which Drug, and Patient Monitoring Robert L. Barkin, PharmD University Pain Centers Rush Oak Park Hospital Oak Park, IL
1:40 a.m. – 12:10 p.m.	Hysterectomy Differential Diagnosis Joseph M. Maurice, MD Rush University Medical Center Chicago, II

Chicago, IL

12:10 p.m. - 12:25 p.m. Discussion 12:25p.m. - 1:40 p.m. Lunch (on your own) 1:40 p.m. - 2:20 p.m. The Management of Chronic Pelvic Pain: Neuromodulation and Other Novel Techniques Kenneth Peters, MD William Beaumont Hospital Royal Oak, MI 2:20 p.m. - 3:00 p.m. **Nutritional Considerations in Treating Patients With Pain** Geeta Maker-Clark, MD Northshore Medical Group Evanston, IL 3:00 p.m. - 3:10 p.m. 3:10 p.m. - 3:30 p.m. **Break** Location: Adams Fover 3:30 p.m. - 4:10 p.m. Medical Management of Sexual Dysfunction/Pelvic Pain Susan Kellogg-Spadtt, CRNP, PhD The Pelvic and Sexual Health Institute Philadelphia, PA Leveraging the Intersection Between Sexuality and Chronic Pelvic Pain in Treatment 4:10 p.m. - 4:40 p.m. Design Heather Howard, MBA, PhD, ACS The Center for Sexual Health and Rehabilitation San Francisco, CA 4:40 p.m. - 5:00 p.m. Discussion 5:00p.m. - 5:10 p.m. Closing Remarks 5:10 p.m. - 5:30 p.m. Annual Business Meeting Location: Adams Ballroom Sunday, October 21, 2012 7:00 a.m. - 5:00 p.m. Registration/Information Desk Open Location: Adams Fover 7:00 a.m. - 7:50 a.m. Continental Breakfast Location: Adams Foyer 8:00 a.m. - 9:00 a.m. What is Pain? Conceptual Change in

9:00 a.m. - 10:30 a.m.

10:30 a.m. ~ 10:50 a.m.

What Modulates Pain? Nociception Versus Pain Protection Versus Symptom

Peripheral Sensitisation

Location: Adams Foyer

Break

The Representing Brain (Or, How Does It Happen?)

Adhesions Society

www.adhesions.org

6757 Arapaho Road, Suite 711-238 Dallas, TX 75248

Reduction of Chronic Abdominal and Pelvic Pain, Urological and GI Symptoms Using a Wearable Device Delivering Low Frequency Ultrasound

David Wiseman, PhD, MRPharmS and Teena Petree, PT. International Adhesions Society; Summit Physical Therapy, Dallas, TX

17817 Davenport Road, Suite 230,

PainShield®, a portable, wearable ultrasound device was found to reduce pelvic, urological pain and related symptoms in 19 patients presenting with long-standing and refractory symptoms.

Objective

To assess the efficacy of Painshield for pelvic and related pain.

***	Methods
Design:	Open-label, prospective, experiential study
Patients:	16 women and 3 men (age 46, range 33-62)
Inclusion criteria:	Age > 18 years Doctor or PT prescription of unlogical or related History of chronic pelvic unlogical or related
Exclusion criteria:	Malignancy, known sensitivity to uttrasound
Time from first Dx	Time from first Dx: 15.3 years, range 1 33 years
Díagnoses:	Adhesions 63% Bowel obstruction 42% Endometriosis 26%
The state of the s	IBS 32% Interstital Cystitis 32% Other Chronic Peters 63%
Scoring based on:	
31.40-310	1-207) days after treatment started.
Comparison:	Maximum scores for each type of pain from before and after treatment were ranked and compared (t test).
Treatment:	1-2 sessions/day each consisting of 12 alternating periods (30 minutes) of active and inactive ultrasound energy delivery.

We thank Nanovibronix, Inc. (Nesher, Israel) for providing Painshield units at no cost. Acknowledgement

Wiseman DM & Petree T "Reduction of chronic	abdominal and pelvic pain, urological and GI symptoms	using a wearable device delivering low frequency	ultrasound," Abstract 42, Poster 29, International Pelvic	Pain Society Meeting, Chicago, October 18-20, 2012
	N170 JIA 1402			

Therapeutic Ultrasound

- · Ultrasound widely known for effects in pain relief, muscle spasm and wound healing
- to reduce pain & biofilm formation, increase wound healing via possible effects on nerves, Low frequency, low intensity ultrasound shown blood vessels and nitric oxide formation





PainShield Driver and Patch

- Thin 3cm transducer in self-adhening, portable and wearable patch
 - Efficacy shown in trigerninal neuralgia and other pain conditions
- · Conventional units limited by cost, size, portability and availability to offices · Penetration of US energy of up to 4 cm below the surface and therapeutic
 - action reaching up to 20 cm from the device

Symptom	Maximum pair	Maximum pain or symptom	z	۵
	SCC	score		
	Before Tx	After Tx		
Bladder pain before unnation	6.1	4.3	12	0.021
Pain on urination	6.0	2.0	7	0.001
Urinary urgency (% of time)	100%	54%	9	0.060
Urination frequency (/day)	21	14	Ξ	
Difficulty urinating (% of time)	100%	%09	9	080'0
Other CAPP	8.3	5.9	12	0.042
Dyspareunia, during	7.8	5.5	12	
Dyspareunia, after	6.6	4.3	8	
Dyschezia	7.7	3.6	10	0.001
Abdominal bloating (% of time)	83%	53%	10	0.049
Rectal Pain	9.3	6.0	4	
SI-Joint Pain	8.5	6.5	9	0.081
Sitting tolerance time (mins)	36.3	8.06	12	
Other musde/joint pain	7.4	5.2	18	0.030

Onset of relief often within hours or days after starting treatment
 Patients rated their overall response as:

all response as	2/19	4/19	3/19	1207
ents rated their overall response as	Negative	Mild	Moderate	7.7.0

 Improvements in pain or related symptoms noted for all symptoms: 10/19

Approaching Sign	 Urinary urgency
Exceeding Significance (<0.05)	 Bladder pain before unnation

ching Significance (<0.10)

 Abdominal bloating Pain on urination Dyschezia.

Sacroiliac joint pain

- Other muscle/joint pain
- Other chronic pelvic or abdominal pain
- Dyspareunia (during or after) Numerical Reductions Urination frequency
- Sitting tolerance
- Anerglotal reports of clinically significant:
- reductions in analgesic and medication usage and cost
 - improvements in sleep due to less pain
- Effects seen for maximum score mirrored for minimum & average scores and fonger term follow-up
 - Delayed return of symptoms after discontinuation of treatment in several patients with return of effect after resumption

Adverse events

day) of pain and/or swelling which subsided from 1 to several days later. One patient responding well experienced some abdominal The two patients responding negatively reported a rapid onset (< 1 discomfort after using the device. Two of these patients reported similar reactions to conventional office-based ultrasound.

Further evaluation of Painshield for CPP is warranted.

At the time of the study, neither author had a financial interest in the evaluated product. Subsequently DW has formed a company (KevMed) to distribute PainShield for pelvic pain and related conditions. Disclosure

KevMed

For full prescribing information please contact: