

臺北醫學大學 泌尿腎臟研究中心 會議記錄

時間:114年2月13日(星期四)9:00-10:00

地點:視訊會議-(請以正式全名登入會議室,以利進行會議簽到)

使用 Google Meet (會議前 10 分鐘即開啟會議室)

會議室連結: https://meet.google.com/jtv-taqu-qwg

(敬略稱位)

會議主席:洪冠予

與會人員:

【附醫】劉明哲、葉劭德、吳建志、林孝友、吳政誠、張景欣、 羅詩修、林敬哲、吳致寬、方德昭、吳逸文、陳錫賢、林彦仲、 高治圻、陳靜怡、葉曙慶、邵月珠、周安琪

【萬芳】溫玉清、李良明、林克勳、林雍偉、蕭志豪、許軒豪、賴宗豪、鍾卓興、許永和、鄭仲益、陳作孝、劉崇德、楊韻紅、 吳岳霖

【雙和】吳佳璋、陳冠州、劉家宏、江怡德、鄒凱亦、高偉棠、 胡書維、董劭偉、陳至亨、吳美儀、李明哲、洪麗玉、鄭彩梅、 廖家德、高芷華、林冠宏、陳正憲、邱惠雯

【新國民】蘇裕謀、鄒居霖

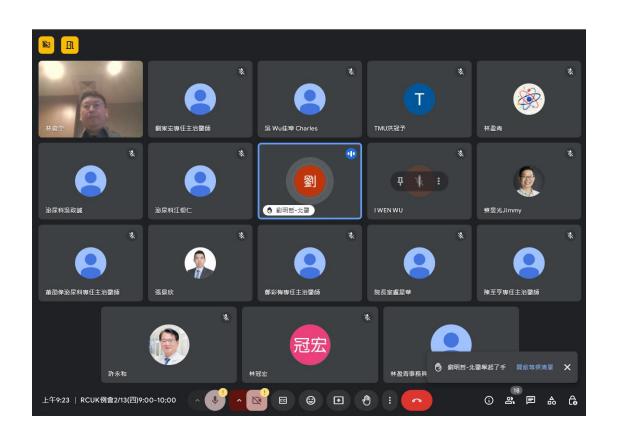
長官指導:

吳麥斯校長、許志成教授、陳瑞明所長、盧星華副院長、 許永和副院長

議程:

- 一、腎臟泌尿精準健康計畫及生物檢體資料庫進度報告(吳 逸文主任)
- 二、 校級研究中心第二季績效成果報告(吳佳璋主任)
- 三、 團隊報告

泌尿腎臟癌症團隊(邀請臺安醫院林俊宇醫師演講



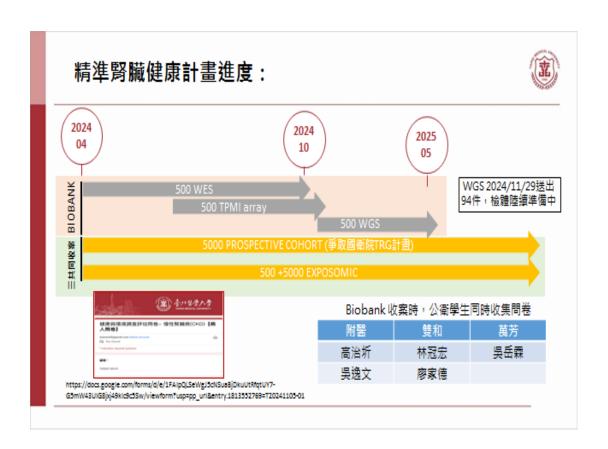


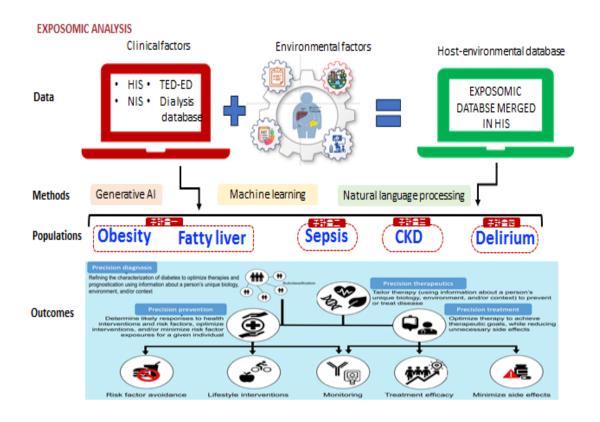


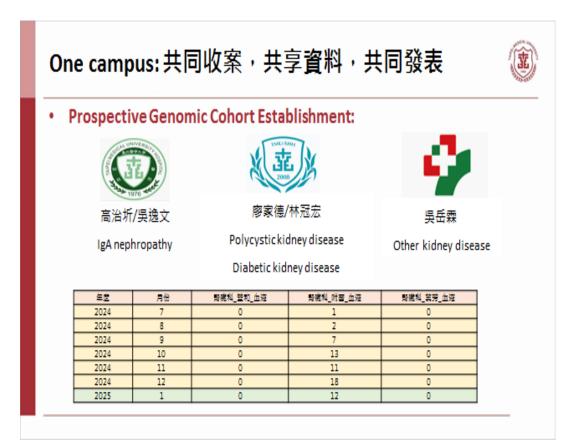
腎臟泌尿精準健康計畫及生物檢體資料庫進度報告

報告人:吳逸文副教授

114年2月13日







目前成果及未來工作



目前成果:

教育部深耕計畫: 腎病精準醫學計畫(吳逸文, 2024/1-2024/12)

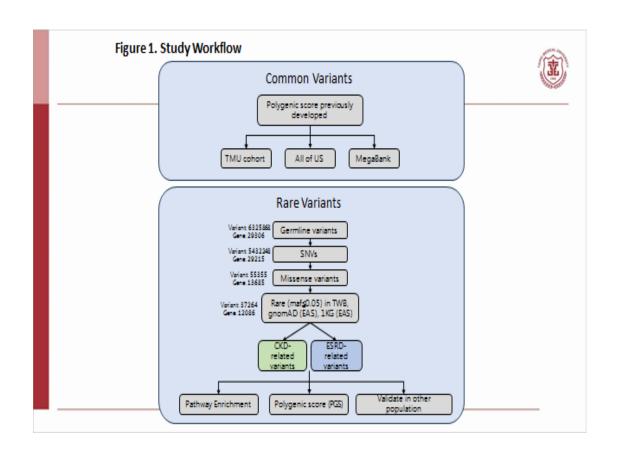
國際研討會:台灣腎臟醫學會-台馬泰國際研討會(吳逸文, 2024/12/14)

未來工作:

國科會計畫:2件(吳逸文,洪冠宇,已投出)

教育部深耕計畫:1件(吳逸文,已投出)

國衛院計畫:1件(吳麥斯,預計2025/03投出)



113學年度研究績效指標



	績效指標	113學年度 目標值	Q1 (8-10)			Q2 (11-1)			Q3 (2-4)			Q4 (5-7)		
			主際位	日便住	eds	主味位	日便住	建式素	主陈位	日便住	追求書	主際位	日便住	建式素
	医科会計会件數	20	18		90%	-	-	-						
	大型/專案 計畫件數	1	0			0								
	雄女戴泰路 (辛B · D22 · BD2)	90	22	22	100%	22	22	100%						
	學術論文IF28 篇數	15	3	3	100%	2	4	50%						
	泰維共協会	1	1	1	100%	-	-	-						
	幕敦-研究中心發展 基金	100萬				100萬		100%						

113學年度臨床轉譯績效指標



	目標值	Q1 (8-10)			Q2 (11-1)			Q3 (2-4)			Q4 (5-7)			_
績效指標		主際位	目標住	建成素	宣際位	目標住	追求書	主陈位	目標位	遊載	主陈位	包包	速式	當責者
三院AKD收案 量年增率10% (現況累計330 例)	380	351 T:0 W:59 S:292	350	100.3%	374 T:0 W:66 S:308	360	103.9%		370			380		(T)吳逸文 (W)惠仲益 (S)廖家德
三院攝護腺癌 局部精準治療 (海福刀)	60例	14 T:4 W:0 S:10	15	93.3%	12 T:2 W:0 S:10	15	80%		15			15		(T)劉明哲 (W)林雍偉 (S)吳佳建



SCIENTIFIC **REPORTS**

Evaluation of right adrenal vein anatomy by Dyna computed tomography in patients with primary aldosteronism

Bo-Ching Lee, Chin-Chen Chang, Kao-Lang Liu, Yeun-Chung Chang, Vin-Cent Wu &

Department of Medical Imaging, National Taiwan University Hospita, etc

Published: 23 June 2016

Taiwan Adventist hospital Chun Yu Lin

林俊宇 醫師

- 台安醫院影像診斷科主治醫師
- 三軍總醫院 放射診斷部 兼任主治醫師
- 天主教永和耕莘醫院 放射科 兼任主治醫師
 - 台灣介入放射線學會 秘書長
 - 台灣周邊血管學會理事
 - 台北市守護天使癌症關懷協會理事
 - 中華民國放射線學會病人安全及醫療影像品質委員會-輻射安全次委員會委員

- 臺北醫學大學醫學系
- 臺北醫學大學臨床醫學研究所
- 臺大醫院實習醫師
- 雙和醫院內科住院醫師
- 高雄榮民總醫院放射線部住院醫師、總醫師
- 經歷 · 台北醫學大學附設醫院影像醫學部主治醫師
 - 中華民國放射線學會學術教育與次專科發展委員會-腹部影像診斷次專科委員會委員
 - 台灣介入放射線學會青年介入醫師教育課程種子教師
 - 2022 The Rising Star at NTUH: 1st Prize
 - APCIO 2019 6th Asia Pacific Congress on Interventional Oncology cTACE Challenge 3rd Prize
- 重要獲 · RSROC 2018 Best Scientific Exhibition Award
- 獎 ACTA 2014 The 1st Asian Conference of Tumor ablation Best Scientific Exhibition Award
 - ACAR 2013 The 4th Asian Congress of abdominal Radiology Best Scientific Exhibition Award





Introduction

- Primary aldosteronism (PA) is the most common cause of secondary hypertension and consists up to 11% of patients with hypertension.
- Common underlying etiologies include an aldosterone-producing adenoma, unilateral adrenal hyperplasia, and bilateral idiopathic adrenal hyperplasia.
- PA can be divided into unilateral and bilateral subtypes. Surgery is indicated for patients with unilateral hyperaldosteronism, which is able to alleviate or cure hypertension in most patients.
- It has been shown that computed tomography (CT) and magnetic resonance imaging (MRI) can be **misleading and unreliable** for distinguishing unilateral from bilateral PA.

Introduction

- Adrenal venous sampling (AVS) is the recommended procedure for diagnosis of PA, but the technique is difficult and the right adrenal vein is especially hard to catheterize.
- Recently, the presence of Comebeam CT and its ability to delineate the vascular structures have increased the success rate of AVS.
- A detailed description of the clinical relevant anatomy of the right adrenal vein incorporating Dyna CT images is lacking. The aim of this study was to determine the location and anatomical variation of the right adrenal vein using Dyna CT during AVS.

Materials and Methods

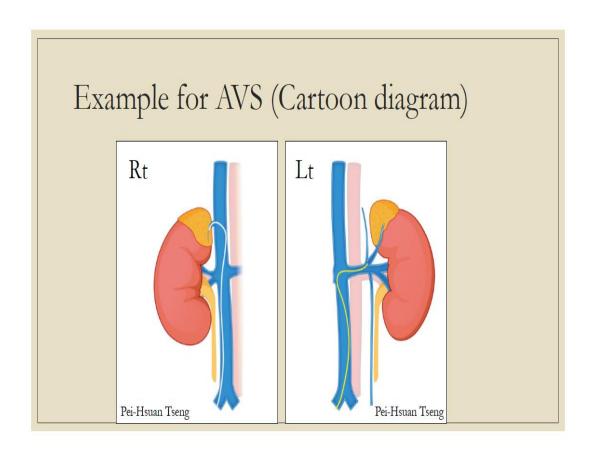
• AVS protocol

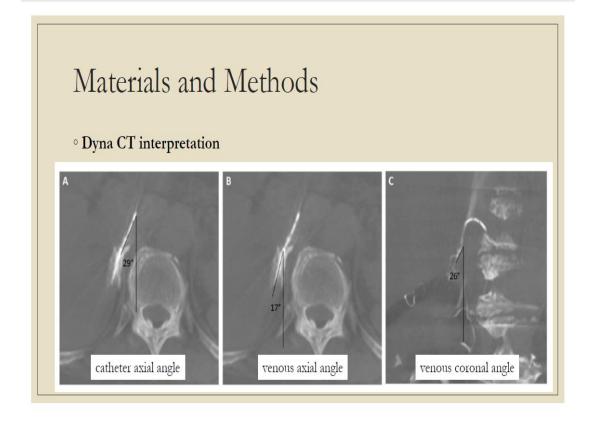
- All AVS was performed between 8:00 AM and 11:00 AM
- Maintain a **supine position** one hour before the AVS procedure
- No adrenocorticotropic hormone (ACTH) stimulation was administered before or during AVS
- The position of the catheter tip before sampling the right adrenal vein was checked via the injection of a small amount of diluted contrast medium (Omnipaque 350) and Dyna CT
- Discarded the first 10 ml of blood during IVC sampling and the first 5 ml of blood during adrenal sampling

Materials and Methods

° Dyna CT protocol.

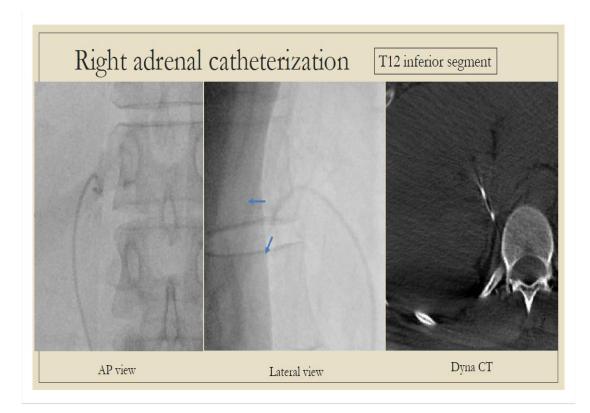
- Diluted the contrast medium with normal saline in a 1:3 ratio to avoid an
 excessive streak artifact
- The actual Dyna CT was acquired 2 seconds after the start of the injection of contrast medium
- The contrast medium was injected for 8 seconds (rate of 0.5 to 1.0 ml/s) and the total injected volume ranged from 4 to 8 ml
- ° The rotation time for Dyna CT is 6 seconds, and the detector moves at 45° per second. The patients were told to **breath as gentle as possible** before the Dyna CT and to **hold their breath without inspiring or expiring**





Materials and Methods

- $^{\circ}$ Statistical analysis
 - ° The Spearman rank correlation coefficient
 - Evaluate the correlations between the level of the right adrenal vein orifice, the venous axial angle, the venous coronal angle, and body mass index (BMI)
 - o Divided vertebral bodies into superior, middle, and inferior segments



Results

 $^{\circ}$ Accessory vessel of the right adrenal vein.

Right adrenal vein drainage into the accessory hepatic vein was found in 7/66 patients (10.6%)

Opacification of the right inferior phrenic vein occurred in 16 (24.2%)

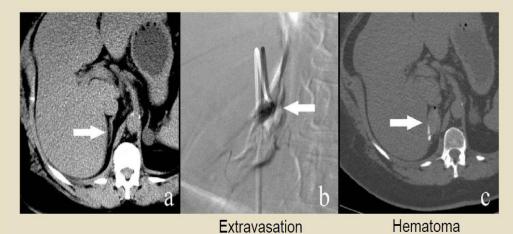
Communicating capsular veins of the right adrenal glands were opacified in 59 (89.4%)



Short communication European Journal of Radiology Volume 81, Issue 9, September 2012, Pages 2304-2307

Adrenal venous sampling using Dyna-CT—A practical guide

Christina Plank*, Florian Wolf, Herbert Langenberger, Christian Loewe, Maria Schoder, Johannes Lammer



Discussion

- Limitations
 - ° Conebeam CT and the mechanical injection of contrast medium might introduce **unknown effect** to the AVS result, especially when the adrenal vein was injured after forceful injection during Dyna CT.
 - Vein variation
 - o Streak artifact
 - Unilateral hyperaldosteronism had uneven distribution of lateralization,
 in which 27 of them to the right side and 5 to the left

Conclusion

• This study shows that Conebeam CT is able to provide detailed anatomical information to the course and direction of the right adrenal vein.