2025 International Acute MCS Summit and Workshop

填寫註冊 ▶

06/28th

Kho-Seng Hall,
National Defense Medical Center,
Taipei Taiwan

Time	Title	Speaker	Moderator
09:00-09:10	Welcome and introduction remarks	Tri-Service General Hospital Prof. Chien-Sung, Tsai	
	Session 1: LV Unloading strategies for acute cardiogenic shock.		
09:10-09:30	ECMO and Left Atrial-Veno-Arterial ECMO (procedure) in cardiogenic shock	FEMH Dr. Chun-Yu Hsieh	TSGH Prof. Chien-Sung, Tsai CHGH Prof. Chung-Yi Chang
09:30-09:50	Trans-Catheter LV Unloading Strategies in Cardiogenic Shock: Insights from Japan's Experience	Institute of Science Tokyo Hospital, Japan(virtual) Dr. Tomoyuki Fujita	
09:50-10:10	Role of Temporary Surgical VAD for Treatment of Cardiogenic Shock in the Percutaneous Device Era	TSGH Dr. Po-Shun Hsu	
10:10-10:30	ECPELLA in cardiogenic shock and Post-operative management	HL Tzu Chi Dr. Jui-Chih Chang	
10:30-10:50	Discussion		
10:50-11:00	Coffee Break		
	Session 2 MCS Prognostic Assessment: Bridge timing case discussion		
11:00-11:20	LV Unloading strategies: Timing of VAD intervention case sharing	ChiMei Hospital Dr. Chieh-Fu Chen	NTUH Dr. Yih-Sharng Chen TSGH Dr. Chin-Yuan Lin
11:20-11:40	Application of “Double Bridge” Strategies for Cardiogenic Shock	NTUH Dr. Chih-Hsien Wang	
11:40-12:05	Management of wean-off the temporary MCS (incl. ECMO /VAD)	CMUH Dr. Chia-Ying Wu	
12:05-12:20	Discussion		
	Lunch		
	Session 3 Clinical Management and application for CentriMag Acute circulatory system		
13:30-13:50	Surgical cannulation strategies for CentriMag LVAS (Central and LIS)	TSGH Dr.Hsiang-Yu Yang	TSGH Prof. Yi-Ting Tsai TCVGH Dr. Hao-Ji Wei
13:50-14:10	Patient management of CentriMag Temporary VAD	CGMH Dr. Kuo-Sheng Liu	
14:10-14:30	Case Sharing: Challenging case of CentriMag LVAS	TSGH Dr. Shih-Ying Sung	
14:30-14:50	Discussion		
14:50-15:00	Closing Remark		

主辦單位 | 台灣胸腔及心臟血管外科學會 三軍總醫院 國防醫學院 NATIONAL DEFENSE MEDICAL CENTER

協辦單位 | Abbott SilverBell 興東藥品器材有限公司 Hsin Tung Medical Co.,Ltd.

2025 International Acute MCS Workshop

時間:2025.6.28 09:00~16:00

地點:國防醫學院 1 樓可勝廳

活動摘要:近年來,急性機械循環輔助器為急性心臟衰竭/心因性休克患者帶來一線曙光,然由於急性心因性休克患者之治療分秒必爭,特舉辦此活動讓國內外醫師討論與學習經皮型/短效型心室輔助器之應用,並請國內外學者分享此裝置不同的應用方式,目的使未來國內心臟內外科重症醫護團隊針對此類治療與照護能更加熟悉,增進患者福祉與提升品質

主題	主講人	課程摘要
ECMO and Left Atrial-Veno-Arterial ECMO (procedure) in cardiogenic shock	亞東 謝春宇 醫師 **B122852368**	左心房-靜脈-動脈 ECMO（LAVA-ECMO）在心源性休克患者中可作為機械循環支持策略，特別適用於心肌梗塞後的心室中隔缺損等情況，有助於改善血流動力學並穩定患者狀態
Trans-Catheter LV Unload Strategies in Cardiogenic Shock: Insights from Japan's Experience	Institute of Science Tokyo Hospital, Japan Dr. Tomoyuki Fujita	由日本講師分享近年於日本使用經皮心室輔助器應用於末期心衰竭和心因性休克患者之回顧與現況討論。
Role of Temporary Surgical VAD for Treatment of Cardiogenic Shock in the Percutaneous Device Era	三總 許博順 醫師 E124639866	短效型外科 VAD 在心因性休克治療中提供重要的決策橋接作用，並隨著經皮機械循環支持技術的發展逐步演變。
ECPELLA in cardiogenic shock and Post-operative management	花蓮慈濟 張睿智 醫師 **G122161063**	探討 ECPELLA（結合體外膜氧合（ECMO）與 Impella）在心因性休克的治療中可作為橋接決策或橋接手術的機械循環支持策略，有助於穩定患者狀態並改善術後預後
LV Unloading strategies: Timing of VAD intervention case sharing	奇美醫院 陳介夫 醫師 **P123542013**	左心減壓策略:探討心因性休克患者之治療策略與各項治療方式時機外加臨床實務經驗分享
Application of “Double Bridge” Strategies for Cardiogenic Shock	臺大醫院 王植賢 醫師 **D121280137**	現今體外循環 ECMO 治療已普遍用於心因性休克患者,此堂課會針對 ECMO 轉介至短效心室輔助器 VAD 或橋接至心臟移植(BTT)的時機策略做探討。
Management of wean-off the temporary MCS (incl. ECMO /VAD)	中國醫 吳佳穎 醫師 D222412859	短效型心室輔助器: 講解術後常見之併發症與相對應之照護方式；患者好轉後之脫離方式步驟與流程講解。

Surgical cannulation strategies for CentriMag LVAS (Central and LIS)	三總 楊翔宇 醫師 **G121399081**	短效型心室輔助器 **CentriMag**:手術中插管方式、器械耗材介紹與手術中注意事項以及手術步驟講解。
Patient management of CentriMag Temporary VAD	長庚醫院 劉國聖 醫師 A123889108	短效型心室輔助器 **CentriMag**:術後患者管理與各項併發症處理方式與注意事項講解。
Case Sharing: Challenging case of CentriMag LVAS	三總 宋世英 醫師 F125931771	短效型心室輔助器 **CentriMag** 之困難案例討論,包括探討術前優化,術中管理,術後照護等治療注意事項。

Name	Surname: Chun-Yu First name: Hsieh	
Date of Birth	March 21, 1991	
Citizenship	Republic of China (Taiwan)	
Affiliation	Tel: (+886)-919540630 E-mail: chuck80321@hotmail.com	
Career	■ Cardiovascular surgeon since Aug. 2024 - Far Eastern Memorial Hospital	
Education	**Medical Studies:** ■ Sept. 2010- July, 2017 School of Medicine, China Medical University, Taichung, Taiwan ■ Sept. 2014 –July, 2017 Institute of Public Health (MD-MPH program), School of Public Health, China Medical University.	
Language	■ Mother tongue(s)： Chinese ■ Other language(s): English	
Training course	■ Aug. 2018- Jul. 2019 Post Graduate Year Training (PGY) -Far Eastern Memorial Hospital ■ Oct., 2019 – Jul. 2021 General Surgery Resident -Far Eastern Memorial Hospital ■ Aug.,2021 – Jul. 2024, Cardiovascular Surgery Resident -Far Eastern Memorial Hospital	
Specialty	■ Peripheral vascular diseases ■ Hemodialysis access creation and intervention ■ Critical care and ECMO	

Curriculum Vitae, 2023

Tomoyuki Fujita MD, PhD

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Position: Professor and Chairman

Director, Department of Cardiovascular Surgery, Institute of Science Tokyo Hospital, Japan

Education:

MD, Osaka University, 1994

PhD, Osaka University, 2012

Professional Training:

1994 Resident. First Department of Surgery and Department of Pediatric Surgery, Osaka University Hospital.

1998 Postdoctoral Research Fellow. Columbia University College of Physicians and Surgeons, Department of Physiology and Surgery New York, USA

2001 Fellow. Dept. of Cardiovascular Surgery, Osaka University, Graduate School of Medicine

2003 Registrar. Green Lane Cardiothoracic Surgical Unit, Auckland City Hospital, Auckland, New Zealand

2005 Consultant surgeon, Dept. of Cardiovascular Surgery, Osaka National Hospital

2007 Assistant Professor. Dept. of Cardiovascular Surgery, Osaka University, Graduate School of Medicine

2009 Consultant Surgeon. Department of Cardiovascular Surgery, National Cerebral and Cardiovascular Center.

2014 Director. Division of Cardiac Surgery, National Cerebral and Cardiovascular Center.

2022 Vise hospital director, National Cerebral and Cardiovascular Center.

2023 Professor and chairman, Department of Cardiovascular Surgery, Institute of Science Tokyo Hospital

Professional career:

- Board certified Surgeon, Japan, 2006
- Board certified Cardiovascular Surgeon, Japan, 2006
- Board certified surgeon for Mechanical Circulatory System, Heart Transplantation, Tissue Transplantation, Robotic surgery

Board of Directors:

- Japanese Society for Artificial Organ
- Japanese Society for Tissue Transplantation
- Japanese Society for Robotic Surgery
- Japanese Association for Clinical Ventricular Assist System

Councilor

- The Japanese Association for Thoracic Surgery
- The Japanese Society for Cardiovascular Surgery
- Japanese Circulation Society

Member of International society

- American Association for Thoracic Surgery,
- The International Society for Heart and Lung Transplantation,
- European Association for Cardiothoracic Surgery,
- The Asian Society for Cardiovascular & Thoracic Surgery

Principal Investigator on Grants:

- Grant-in-Aid for Scientific Research (C), 2008-2011, 2023-2025
- Research award, Japan Surgical Society, 2012
- Health Labor Sciences Research Grant, 2014-2016
- Research award, The Japanese Society for Cardiovascular Surgery, 2018
- Grant of Japan Agency for Medical Research and Development (AMED), 2018-2021
- Grant of Japan Cardiovascular Research Foundation, 2018-2023
- Grant Application for Baxter Advanced Surgery, 2019-2021
- Grant of Industry-academia collaborative research fund from KANEKA, 2020-2021

Principal Investigator on Projects:

- A multicenter, randomized, parallel-group study to assess the safety and efficacy of adhesion prevention device, BAX 602, in preventing adhesion of heart and great vessels to surroundings after placement of extracorporeal ventricular assist device (VAD), investigator-initiated clinical trial (UMIN-CTR: UMIN000038998), 2019-2021
- Development of new treatment using amnion mesenchymal stem cells for end-stage heart failure due to dilated cardiomyopathy, non-clinical proof-of-concept study, 2019-2021

Co-Principal Investigator on Projects:

- Medtronic Evolute TAVR in Low risk patients (NCT02701283), 2016-2021
- BR16010 use as a bridge-to-decision therapy for severe heart failure, investigator-initiated clinical trial (NCVC-BTD_01, UMIN-CTR; R000033243), 2017-2018
- PERIGON Japan trial (NCT02686814), 2016-2018
- A Prospective, Multi-Center, Single Arm Clinical Study to Evaluate the MDT-1118 Ventricular Assist Device System for Destination Therapy of Advanced Heart Failure (NCT03884504), 2019-2022
- The Medtronic Harmony™ Transcatheter Pulmonary Valve Clinical Study (NCT02979587), 2017-2020

Publications:

- >200 peer-reviewed papers

Interests:

- MCS, Heart transplantation, Robotic surgery, Mitral valve repair, S/TAVR, Off-pump CABG, Regenerative medicine

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Original article

Original article

2000～2010

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4. *Fujita T, Fukushima S, Kawamoto N, Kobayashi J. Prosthesis selection for repair of degenerative mitral valve disease. J Cardiol. 2019 Feb;73(2):184-185.
5. Fujita T, Fukushima S. Challenges to rescuing patients in cardiogenic shock. Eur J Cardiothorac Surg. 2022 Mar 24;61(4):950-951.

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Personal introduction

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經歷:
民國 94-96 年三軍總醫院外科部住院醫師
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民國 100-101 年三軍總醫院創傷外科主治醫師

民國 103-104 年美國杜克大學心臟醫學中心臨床交換學者
民國 105 年迄今三軍總醫院心臟外科病房主任

專長: 各類心室輔助器(半人工心臟)置放手術
體外維生系統(葉克膜)置放手術
冠狀動脈繞道手術
心臟瓣膜修補及置換手術
心房心律不整外科手術治療
心臟腫瘤切除手術
成人心房及心室中膈缺損修補手術
心臟衰竭及心律不整矯正手術
心臟重症照護及一般重症照護
主動脈瘤及主動脈剝離等各類大血管傳統手術
胸腹主動脈瘤支架置放手術
慢性肺高壓及肺動脈栓塞手術治療
下肢深部靜脈栓塞治療及下腔靜脈濾器放置手術
週邊動脈疾病之繞道手術治療及支架置放
下肢靜脈曲張雷射手術
經皮下雙腔透析導管手術、血液透析廔管手術以及氣球擴張術
化療病患之人工血管注射座置放手術

Research & Publication

1. Significantly increased low shear rate viscosity, blood elastic modulus, and RBC aggregation in adults following cardiac surgery.
Wu YF, **Hsu PS**, Tsai CS, Pan PC, Chen YL.Sci Rep. 2018 May 8;8(1):7173. doi: 10.1038/s41598-018-25317-8.PMID: 29740114 **Free PMC article.**

2. The implication of seniority of supervising attending surgeon on the reexploration rate following elective coronary artery bypass grafting.
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3. Levitronix bilateral ventricular assist device, a bridge to recovery in a patient with acute fulminant myocarditis and concomitant cerebellar infarction.
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6. Subclavian artery cannulation provides better myocardial protection in conventional repair of acute type A aortic dissection: experience from a single medical centre in Taiwan.
Hsu PS, Chen JL, Tsai CS, Tsai YT, Lin CY, Lee CY, Ke HY, Lin YC.Cardiovasc J Afr. 2016 May/Jun;27(3):143-146. doi: 10.5830/CVJA-2015-056.PMID: 27841900 **Free PMC article.**

7. Prolonged Use of Levitronix Left Ventricular Assist Device as a Bridge to Heart Transplantation.
Sung SY, **Hsu PS**, Chen JL, Tsai CS, Tsai YT, Lin CY, Lee CY, Ke HY, Lin YC.Acta Cardiol Sin. 2015 May;31(3):249-52. doi: 10.6515/acs20140421e.PMID: 27122879 **Free PMC article.**

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Lin CT, **Hsu PS**, Chen BC, Hong GJ, Tsai CS.Thorac Cardiovasc Surg. 2010 Oct;58(7):433-5. doi: 10.1055/s-0029-1240836. Epub 2010 Oct 4.PMID: 20922630 Review.

9. Bronchoperitoneal fistula from a lung abscess.
Hsu PS, Lee SC, Tzao C, Chen CJ, Cheng YL.Respirology. 2008 Nov;13(7):1091-2. doi: 10.1111/j.1440-1843.2008.01346.x. Epub 2008 Jul 24.PMID: 18657063

10. Emergency endovascular aortic repair of a ruptured mycotic aorto-iliac aneurysm presenting with lumbar radiculopathy.

Lee TY, Tsai CS, Tsai YT, Lin CY, Lin YC, **Hsu PS.**Cardiovasc J Afr. 2014 Jun 23;25(3):e4-7. doi: 10.5830/CVJA-2014-022.PMID: 25000523

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Chen JL, Sung SY, **Hsu PS**, Tsai CS, Tsai YT, Lin CY, Ke HY, Lin YC.J Artif Organs. 2014 Jun;17(2):202-5. doi: 10.1007/s10047-013-0750-0. Epub 2014 Jan 3.PMID: 24384782

12. Extracorporeal membrane oxygenation for refractory cardiogenic shock after cardiac surgery: predictors of early mortality and outcome from 51 adult patients.

Hsu PS, Chen JL, Hong GJ, Tsai YT, Lin CY, Lee CY, Chen YG, Tsai CS.Eur J Cardiothorac Surg. 2010 Feb;37(2):328-33. doi: 10.1016/j.ejcts.2009.07.033. Epub 2009 Sep 12.PMID: 19748279

13. Heart transplantation for ventricular arrhythmia caused by a rare hamartoma.

Hsu PS, Chen JL, Hong GJ, Tsai YT, Tsai CS.J Heart Lung Transplant. 2009 Oct;28(10):1114-5. doi: 10.1016/j.healun.2009.06.015.PMID: 19782298

14. Cardiac tamponade as the initial manifestation of metastatic adenocarcinoma from the colon: a case report.

Chen JL, Huang TW, **Hsu PS**, Chao-Yang, Tsai CS.Heart Surg Forum. 2007;10(4):E329-30. doi: 10.1532/HSF98.20071068.PMID: 17650460

15. Accurate diagnosis and successful treatment for massive obscure small intestinal bleeding by means of intra-operative enteroscopy: a case report.

Hsu PS, Chen JL, Yu JC, Hsieh CB, Shih ML.Eur J Gastroenterol Hepatol. 2008 Feb;20(2):139-41. doi: 10.1097/MEG.0b013e32825a6ac6.PMID: 18188036

CURRICULUM VITAE

Jui-Chih "Ray" Chang, M.D., Ph.D.

Prepared date: April 11th , 2022

Present appointment:

1. Chairman, Department of Surgery, Hualien Tzu Chi Medical Center, Hualien, Taiwan
2. Attending Surgeon, Division of Cardiovascular Surgery, Department of Surgery, Hualien Tzu Chi Medical Center, Hualien, Taiwan
3. Director, Circulatory Life Support & Innovative Medical Devices Research Center, Hualien Tzu Chi Medical Center, Hualien, Taiwan
4. Associate Professor, Department of Surgery, School of Medicine, Tzu Chi University, Hualien, Taiwan

Medical license

Taiwan License, Certificate #035130
Date of License (Month/Day/Year): September 17th, 2002

Specialty certifications and dates (Month/Day/Year)

Taiwan Surgical Association,
Certificate # 005488, 12/12/2006 – 12/11/2024
Taiwan Association of Thoracic and Cardiovascular Surgery,
Certificate # 348, 10/20/2007 – 12/31/2025
Taiwan Society For Vascular Surgery,
Certificate # S00410, 10/19/2007 – 10/18/2025

Professional Societies

Taiwan Society of Cardiology, member#N1525

Society of Thoracic Surgeons, international member#257049

European Association for Cardio-Thoracic Surgery, member#292235

International Society for Heart and Lung Transplantation, member#42707

Appointments in Professional Societies

Executive Director, Taiwan Society for Extracorporeal Membrane Oxygenation and Organ Support since 2020

Executive Director, Taiwan Society for Vascular Surgery since 2019

Vice Secretary-General, Taiwan Association of Thoracic & Cardiovascular Surgery Since 2019

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Citizen of: Taiwan (R.O.C.)

Education

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Tzu Chi University, Hualien, Taiwan M.D., June, 2002

Duke University, Durham, NC, USA Ph.D., May, 2013
Graduate Program in the Department of Pathology

Post-Graduate Training Experience

Junior Resident August 2002 to June 2004
Department of Surgery
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Senior Resident July 2004 to June 2007
Department of Surgery, Division of Thoracic and Cardiovascular Surgery
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Chief Resident July 2005 to June 2007
Department of Surgery, Division of Thoracic and Cardiovascular Surgery
Hualien Tzu Chi Medical Center, Hualien, Taiwan

Research Fellow August 2008 to July 2010
Transplantation Immunology Laboratory of Dr. Shu S. Lin
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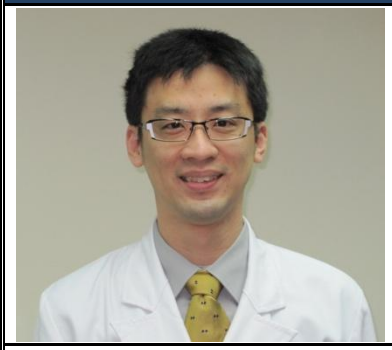
專長: 成人心臟疾病、冠狀動脈疾病、瓣膜性心臟病、靜脈曲張傳統及微創手術、周邊動脈疾病、血液透析通路相關手術

SCI/非 SCI 期刊論文:

1. Chen CF, Chiu CM (2022), Clinical Outcomes of Surgical Aortic Valve Repair/Replacement for Aortic Regurgitation, 台灣醫學 26(6), 629-635

CV of Invited Speaker	
	**Chih-Hsien Wang, M.D., PhD**
Position	Associate Professor of Cardiovascular surgery
Organization	National Taiwan University Hospital
Major Field	
Education	2001/6 M.D. National Taiwan University (with minor in Law), Taipei, Taiwan 2014/2 PhD, Graduate Institute of Physiology, National Taiwan University 2012/9-2013/8 Visiting Scholar, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA
Professional Experience	2007/7-2010/2 Attending physician of Traumatology and Cardiovascular surgery, Department of Surgery, National Taiwan University Hospital, Taipei 2010/3-2011/6 Attending physician of Cardiovascular Surgery, Department of Surgery, Hsin-Chu General Hospital 2011/7-present Attending physician of Cardiovascular Surgery, Department of Surgery, National Taiwan University Hospital, Hsin-Chu Branch 2009-2010 Director, Trauma Intensive Care Unit, National Taiwan University Hospital, Taipei 2010/3-2011/6 Director, Cardiovascular Surgery, Hsin-Chu General Hospital 2011/7-2012/7 Director, Cardiovascular Surgery, National Taiwan University Hospital, Hsin-Chu Branch 2012/8-present, Cardiovascular Surgery, National Taiwan University Hospital, Taipei
Honors & Awards	
Publications	1. High plasma C-terminal FGF-23 levels predict poor outcomes in patients with chronic kidney disease superimposed with acute kidney injury. Chang YH, Wu CH, Chou NK, Tseng LJ, Huang IP, **Wang CH**, Wu VC, Chu TS.Ther Adv Chronic Dis. 2020 Oct 13;11:2040622320964161. 2. Post-cardiac arrest care and targeted temperature management: A

consensus of scientific statement from the **Taiwan** Society of Emergency & Critical Care Medicine, **Taiwan** Society of Critical Care Medicine and **Taiwan** Society of Emergency Medicine. Chiu WT, Lin KC, Tsai MS, Hsu CH, **Wang CH**, Kuo LK, Chien YS, Wu CH, Lai CH, Huang WC, **Wang CH**, Wang TL, Hsu HH, Lin JJ, Hwang JJ, Ng CJ, Choi WM, Huang CH. J Formos Med Assoc. 2021 Jan;120(1 Pt 3):569-587.

3. Clinical experience of whole-body computed tomography as the initial evaluation tool after extracorporeal cardiopulmonary resuscitation in patients of out-of-**hospital** cardiac arrest. Yang KJ, **Wang CH**, Huang YC, Tseng LJ, Chen YS, Yu HY. Scand J Trauma Resusc Emerg Med. 2020 Jun 11;28(1):54.

4. Prognostic factors for heart recovery in adult patients with acute fulminant myocarditis and cardiogenic shock supported with extracorporeal membrane oxygenation. Chou HW, **Wang CH**, Lin LY, Chi NH, Chou NK, Yu HY, Chen YS. J Crit Care. 2020 Jun;57:214-219.

5. Comparison of the trometamol-balanced solution with two other crystalloid solutions for fluid resuscitation of a rat hemorrhagic model. Ting WT, Chang RW, **Wang CH**, Chen YS, Lee JJ. J Vet Sci. 2020 Jan;21(1):e6.

6. Proton Pump Inhibitors Augment the Risk of Major Adverse Cardiovascular Events and End-Stage Renal Disease in Patients With Acute Kidney Injury After Temporary Dialysis. Tsai IJ, Lai TS, Shiao CC, Huang TM, **Wang CH**, Tsao CH, Chen LW, Lin YH, Chen L, Wu VC, Chu TS; National Taiwan University Hospital Study Group on Acute Renal Failure (NSARF).Clin Pharmacol Ther. 2020 Jun;107(6):1434-1445.

7. Associations between preoperative continuation of renin-angiotensin system inhibitor and cardiac surgery-associated acute kidney injury: a propensity score-matching analysis. Chou YH, Huang TM, Wu VC, Chen WS, **Wang CH**, Chou NK, Chiang WC, Chu TS, Lin SL; National Taiwan University Study Group on Acute Renal Failure (NSARF). J Nephrol. 2019 Dec;32(6):957-966.

8. Extracorporeal Life Support Enhances the Forward Pressure Wave to Cause a Mismatch between Cardiac Oxygen Demand and Supply. **Wang CH**, Chang RW, Wu ET, Hsiao YJ, Wu MS, Yu HY, Chen YS, Lai LC, Yu SL.Sci Rep. 2019 Sep 25;9(1):13882.

9. Novel application of amino-acid buffered solution for neuroprotection

against ischemia/reperfusion injury. Hsu J, **Wang CH**, Huang SC, Chen YW, Yu S, Hwang JJ, Lin JW, Ma MC, Chen YS.PLoS One. 2019 Sep 10;14(9):e0221039.

10. Optimal Arterial Blood Oxygen Tension in the Early Postresuscitation Phase of Extracorporeal Cardiopulmonary Resuscitation: A 15-Year Retrospective Observational Study. Chang WT, **Wang CH**, Lai CH, Yu HY, Chou NK, **Wang CH**, Huang SC, Tsai PR, Chou FJ, Tsai MS, Huang CH, Ko WJ, Chen WJ, Chen YS.Crit Care Med. 2019 Nov;47(11):1549-1556.

11. Serum osteoprotegerin is an independent marker of central arterial stiffness as assessed using carotid-femoral pulse wave velocity in hemodialysis patients: a cross sectional study. Hou JS, Lin YL, **Wang CH**, Lai YH, Kuo CH, Subeq YM, Hsu BG.BMC Nephrol. 2019 May 23;20(1):184.

12. Urinary trypsinogen-2 level and local complications of acute pancreatitis. Wu HC, Wang HP, Chen CC, Wu CH, Liu TH, **Wang CH**, Shih LN, Liao WC.J Gastroenterol Hepatol. 2019 Nov;34(11):2043-2049.

13. Quantification of cardiac pumping mechanics in rats by using the elastance-resistance model based solely on the measured left ventricular pressure and cardiac output. **Wang CH**, Chang RW, Wu ET, Chang CY, Kao HL, Wu MS, Cheng YJ, Chen YS, Chang KC.Pflugers Arch. 2019 Jul;471(7):935-947.

14. Outcome for surgical treatment of infective endocarditis with periannular abscess. Ting M, **Wang CH**, Chi NH, Hsu RB, Chen YS, Yu HY.J Formos Med Assoc. 2020 Jan;119(1 Pt 1):113-124.

15. Physician workload associated with do-not-resuscitate decision-making in intensive care units: an observational study using Cox proportional hazards analysis. Lin KH, Huang SC, **Wang CH**, Chau-Chung, Chu TS, Chen YY.BMC Med Ethics. 2019 Mar 1;20(1):15.

16. Effect of interplay between age and low-flow duration on neurologic outcomes of extracorporeal cardiopulmonary resuscitation. Yu HY, **Wang CH**, Chi NH, Huang SC, Chou HW, Chou NK, Chen YS.Intensive Care Med. 2019 Jan;45(1):44-54.

17. Impact of Age-Adjusted Charlson Comorbidity on **Hospital** Survival and Short-Term Outcome of Patients with Extracorporeal Cardiopulmonary Resuscitation. Tseng LJ, Yu HY, **Wang CH**, Chi NH, Huang SC, Chou HW, Shih HC, Chou NK, Chen YS.J Clin Med. 2018 Sep 29;7(10):313.

18. Risk of Incident Non-Valvular Atrial Fibrillation after Dialysis-Requiring

Acute Kidney Injury. Shiao CC, Kan WC, Wang JJ, Lin YF, Chen L, Chueh E, Huang YT, Chiang WP, Tseng LJ, **Wang CH**, Wu VC.J Clin Med. 2018 Aug 29;7(9):248.

19. Investigation of microcirculation in patients with venoarterial extracorporeal membrane oxygenation life support. Yeh YC, Lee CT, **Wang CH**, Tu YK, Lai CH, Wang YC, Chao A, Huang CH, Cheng YJ, Chen YS; NTUH Center of Microcirculation Medical Research (NCMMR).Crit Care. 2018 Aug 19;22(1):200.

20. Outcome Prediction of Acute Kidney Injury Biomarkers at Initiation of Dialysis in Critical Units. Wu VC, Shiao CC, Chi NH, **Wang CH**, Chueh SJ, Liou HH, Spapen HD, Honore PM, Chu TS.J Clin Med. 2018 Aug 6;7(8):202.

21. Negative Correlation of Serum Adiponectin Levels With Carotid-Femoral Pulse Wave Velocity in Patients Treated With Hemodialysis. Hou JS, **Wang CH**, Lai YH, Lin YL, Kuo CH, Subeq YM, Hsu BG.Biol Res Nurs. 2018 Jul;20(4):462-468.

22. Hemojuvelin Predicts Acute Kidney Injury and Poor Outcomes Following Cardiac Surgery. Ko SW, Chi NH, Wu CH, Huang TM, Chueh SJ, **Wang CH**, Lin JH, Wang WJ, Ting JT, Chang HM, Connolly R, Lai CH, Tseng LJ, Wu VC, Chu TS. Sci Rep. 2018 Jan 31;8(1):1938.

23. Do Patients With High CHA_2DS_2-VASc Scores Need High Intensity of Anticoagulants After Valve Surgery? Yu HY, Lin MH, Lin LY, **Wang CH**, Chi NH, Chen YS. Circ J. 2018 Mar 23;82(4):1186-1194.

24. Quantification of contractile mechanics in the rat heart from ventricular pressure alone. **Wang CH**, Chang RW, Chang CY, Wu MS, Kao HL, Lai LC, Young TH, Yu HY, Chen YS, Chang KC. Oncotarget. 2017 Oct 10;8(56):96161-96170.

25. Perioperative body weight change is associated with in-**hospital** mortality in cardiac surgical patients with postoperative acute kidney injury. Shiao CC, Huang YT, Lai TS, Huang TM, Wang JJ, Huang CT, Wu PC, Wu CH, Tsai IJ, Tseng LJ, **Wang CH**, Chu TS, Wu KD, Wu VC; National Taiwan University Hospital Study Group on Acute Renal Failure (NSARF). PLoS One. 2017 Nov 17;12(11):e0187280.

26. Investigation of the pathophysiology of cardiopulmonary bypass using rodent extracorporeal life support model. Chang RW, Luo CM, Yu HY, Chen

YS, **Wang CH.** BMC Cardiovasc Disord. 2017 May 15;17(1):123.

27. Early measurement of IL-10 predicts the outcomes of patients with acute respiratory distress syndrome receiving extracorporeal membrane oxygenation. Liu CH, Kuo SW, Ko WJ, Tsai PR, Wu SW, Lai CH, **Wang CH**, Chen YS, Chen PL, Liu TT, Huang SC, Jou TS. Sci Rep. 2017 Apr 21;7(1):1021.

28. Novel approach for independent control of brain hypothermia and systemic normothermia: cerebral selective deep hypothermia for refractory cardiac arrest. **Wang CH**, Lin YT, Chou HW, Wang YC, Hwang JJ, Gilbert JR, Chen YS. J Neurointerv Surg. 2017 Aug;9(8):e32.

29. Novel approach for independent control of brain hypothermia and systemic normothermia: cerebral selective deep hypothermia for refractory cardiac arrest. **Wang CH**, Lin YT, Chou HW, Wang YC, Hwang JJ, Gilbert JR, Chen YS. BMJ Case Rep. 2017 Jan 20;2017:bcr2016012806.

30. Determining arterial wave transit time from a single aortic pressure pulse in rats: vascular impulse response analysis. Chang RW, Chang CY, Lai LC, Wu MS, Young TH, Chen YS, **Wang CH**, Chang KC. Sci Rep. 2017 Jan 19;7:40998.

31. Urinary pi-glutathione **S**-transferase Predicts Advanced Acute Kidney Injury Following Cardiovascular Surgery. Shu KH, **Wang CH**, Wu CH, Huang TM, Wu PC, Lai CH, Tseng LJ, Tsai PR, Connolly R, Wu VC. Sci Rep. 2016 Aug 16;6:26335.

32. The outcome of patients requiring multiple extracorporeal membrane oxygenation: how many runs of ECMO is reasonable? Chou HW, Chang TI, **Wang CH**, Chou NK, Chi NH, Huang SC, Wu IH, Chan CY, Ponge LM, Wang YC, Chen YS. Int J Artif Organs. 2016 Aug 19;39(6):288-93.

33. Peroxiredoxin 1 induces inflammatory cytokine response and predicts outcome of cardiogenic shock patients necessitating extracorporeal membrane oxygenation: an observational cohort study and translational approach. Liu CH, Kuo SW, Hsu LM, Huang SC, **Wang CH**, Tsai PR, Chen YS, Jou TS, Ko WJ. J Transl Med. 2016 May 4;14(1):114.

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Short Bio (in 300 words)	

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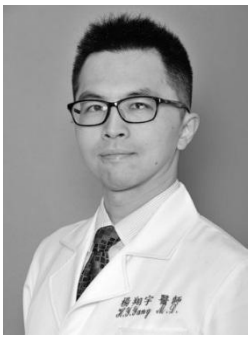
Curriculum Vitae



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Summary and Profile:

I am a physician, specialized in Cardiovascular Surgery. I received full courses of training in Surgery, Clinical Cardiology and Hemodynamics, Cardiovascular Surgery and Heart Transplantation in the section of Cardiovascular Surgery, Tri-Service General Hospital. I had enrolled in a Ph.D program in the National Heart and Lung Institute, Imperial College London from 07/2013 to 06/2017, which was fully granted by Taiwan government. I obtained Ph.D in 11/2017 and now is back to Taiwan, working for the section of Cardiovascular Surgery, Tri-Service General Hospital. I am also a full-time assistant professor employed by the Department of Surgery, the School of Medicine, National Defense Medical Center.

Education:

1998/8-2005/7 M.D., National Defense Medical Center, Taipei, Taiwan, R.O.C
2013/7-2017/6 Ph.D, Imperial College London

Position and Employment:

2005/8-2007/7 Aviation physician at Navy
2007/7-2009/7 Resident physician, Dept. of Surgery, Tri-Service General Hospital, Taipei, Taiwan
2009/7-2011/7 Senior resident and chief resident in division of Cardiovascular Surgery, Department of Surgery, Tri-Service General Hospital, Taipei, Taiwan
2011/7-2012/7 Chief resident in Department of Surgery, Tri-Service General Hospital, Taipei, Taiwan
2012/8-2013/6 Attending physician in Division of Cardiovascular Surgery, Tri-Service General Hospital Keelung Civilian Administration Division, Keelung City, Taiwan
2013/7-2017/6 Ph.D student in Section of Heart function, the National Heart and Lung Institute, Imperial College London.

Board Certificate:

2005 Diplomate, Taiwanese Board of Medical Examiners (No.38500)
2011 Diplomate, Taiwanese Board of Surgery (No.2-5654)
2008 Diplomate, Taiwanese Board of Vascular Surgery (No. S565)
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2009 Diplomate, Taiwanese Board of Cardiology (No. S1564)
2012 Certificate, Lecturer of Ministry of Education
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Professional Societies:

1. Taiwan Surgical Association
2. Taiwan Society of Thoracic and Cardiovascular Surgery
3. Taiwan Society of Cardiology
4. Taiwan Society for Vascular Surgery
5. The Transplantation Society of Taiwan
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Honors and Awards:

1. Chairman of Ballroom Dance Club, National Defense Medical Center, 1999.
Best school club award, National Defense Medical Center, 1999
2. Student Chairman, National Defense Medical Center, 2000
Taiwan Ballroom Dance Championship, Latin, Amateurs, 3rd place, 2000
3. Practicing Brigade Commander of student troops, National Defense Medical Center, 2002
4. Chairman of Student Internship, National Defense Medical Center, 2004
5. Qualified microsurgeon, qualified by Microsurgery Training Center, National Yang-Ming University, 2007.
6. Top Resident of Department of Surgery, awarded by Tri-Service General Hospital, 2007, 2008, 2009
7. Paper Presentation, 12th Congress of the Asian Society of Transplantation, 2011
8. Excellent Resident Physician (Scholarship provided by Dr. Xian-Lin Zang), awarded by National Defense Medical Center 2012.
9. Ph.D Scholarship, 01/07/2013-30/06/2017/, provided by Taiwan government
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Publication:

Original SCI:

1. **Yang HY,** Lin FZ, Yang HW, Yu PL, Huang SM, Chen YC, Tsai CS, Lin CY.The effect of Sirt1 deficiency on Ca2+ and Na+ regulation in mouse ventricular myocytes. J Cell Mol Med. 2020 Jun;24(12):6762-6772. doi: 10.1111/jcmm.15327. Epub 2020 Apr 27. PMID: 32342656.
2. Ke HY, **Yang HY (Co-first author)**, Francis AJ, Collins TP, Surendran H, Alvarez-Laviada A, Firth JM, MacLeod KT.Changes in cellular Ca2+ and Na+ regulation during the progression towards heart failure in the guinea pig. J Physiol. 2020 Apr;598(7):1339-1359. doi: 10.1113/JP277038. Epub 2019 Mar 18. PMID: 30811606.
3. Jahn M Firth, **Hsiang-Yu Yang**, Alice J Francis, Najah Islam, Kenneth T MacLeod. The effect of estrogen on intracellular Ca2+ and Na+ regulation in heart failure. JACC: Basic to Translational Science. 2020. In press.
4. **Yang HY**, Firth JM, Francis AJ, Alvarez-Laviada A, MacLeod KT. Effect of ovariectomy on intracellular Ca2+ regulation in guinea pig cardiomyocytes. Am J Physiol Heart Circ Physiol. 2017 Nov 1;313(5):H1031-H1043. doi: 10.1152/ajpheart.00249.2017. Epub 2017 Aug 4. PMID: 2877891.
5. Shattock MJ, Park KC, **Yang HY**, Lee AWC, Niederer S, MacLeod KT, Winter J Restitution slope is principally determined by steady-state action potential duration. Cardiovasc Res. 2017 Jun 1;113(7):817-828. doi: 10.1093/cvr/cvx063. PMID: 28371805

6. Rowlands CT, Owen T, Lawal S, Cao S, Pandey SS, **Yang HY**, Song W, Wilkinson R, Alvarez-Laviada A, Gehmlich K, Marston SB, MacLeod KT. Age- and strain-related aberrant Ca2+ release is associated with sudden cardiac death in the ACTC E99K mouse model of hypertrophic cardiomyopathy. Am J Physiol Heart Circ Physiol. 2017 Dec 1;313(6):H1213-H1226. doi: 10.1152/ajpheart.00244.2017. Epub 2017 Sep 8. PMID: 28887330.
7. Hsu PS, **Yang HY**, Chen JL, Tsai YT, Lin CY, Ke HY, Lin YC, Tsai CS. The implication of seniority of supervising attending surgeon on the reexploration rate following elective coronary artery bypass grafting. J Formos Med Assoc. 2019 Jan;118(1 Pt 2):354-361. doi: 10.1016/j.jfma.2018.06.007. Epub 2018 Jun 20. PMID: 29936106
8. Tai BY, Wen ZH, Cheng PY, **Yang HY**, Duh CY, Chen PN, Hsu CH. Lemnalol Modulates the Electrophysiological Characteristics and Calcium Homeostasis of Atrial Myocytes. Mar Drugs. 2019 Oct 30;17(11):619. doi: 10.3390/md17110619.
9. **Hsiang-Yu Yang**, Chih-Yuan Lin, Yi-Ting Tsai, Chung-Yi Lee, Chien-Sung Tsai. Experience of heart transplantation from hemodynamically unstable brain-dead donors with extracorporeal support. ***Clinical Transplantation***. 2012 Jan 26. doi: 10.1111/j.1399-0012.2011.01585.x. [Epub ahead of print].
10. **Hsiang-Yu Yang**, Chang-Chieh Wu, Shu-Wen Jao, Kuo-Feng Hsu, Chen-Ming Mai, Kevin Cheng-Wen Hsiao. Two-stage resection for malignant colonic obstructions: The timing of early resection and possible predictive factors. ***World J Gastroenterol***.2012 July 7;18(25): 3267–3271.
11. Kuo-Feng Hsu, Jen-Shu Chia, Shu-Wen Jao, Chang-Chieh Wu, **Hsiang-Yu Yang**, Chen-Ming Mai, Chun-Yu Fu, Cheng-Wen Hsiao. Comparison of clinical effects between warm water spray and sitz bath in post hemorrhoidectomy period. ***J Gastrointest Surg***. 2009 Jul;13(7):1274-8. Epub 2009 Apr 1.
12. Chen-Ming Mai, Liang-Tsai Wan, Yu-Ching Chou, **Hsiang-Yu Yang**, Chang-Chieh Wu, Shu-Wen Jao, Cheng-Wen, Hsiao. Efficacy and safety of transnasal butorphanol for pain relief after anal surgery. ***World J Gastroenterol***. 2009 Oct 14;15(38):4829-32.

2025/5/13

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April 2010	Lecturer of Surgery, Div. of Thoracic & Cardiovascular Surgery, CGMH
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July 2017	Associate Professor, Div. of Thoracic & Cardiovascular Surgery, CGMH

Board Certifications:

1. Doctor License of Republic of China No.: 032540
2. The Surgical Association of the Republic of China, No.: 005426
3. Taiwan Society of Cardiology, No.: 042
4. Taiwan Association of Thoracic & Cardiovascular Surgery, No.: 320
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6. Taiwan Society for Vascular Surgery, No.: S00455

Public affairs:

1. Deputy Secretary-General, the 5th Administrative Committee, Taiwan Society for Vascular Surgery. Sep 2013–Aug 2015.
2. Deputy Secretary-General, the 6th Administrative Committee, Taiwan Society for Vascular Surgery. Sep 2015–Aug 2017.

Research Project:

1. CMRPD280031 (co-principle investigator): Development of bioabsorbable antibiotic beads for treatment of empyema thoracis. 2009/08/01–2010/07/31
2. MOST 105-2314-B-182A-104 (principle investigator) (NMRP G3F0391): Hybrid biodegradable antibiotic-eluting nanofiber-loaded vascular stent for infected aortic aneurysm: in vitro and in vivo studies. 2016/08/01–2017/07/31
3. MOST 106-2314-B-182A-153- (principle investigator) (NMRP G3G0541): 3D printed biodegradable Nuss bar, with or without lidocaine, ketorolac, and vancomycin-eluting nanofiber coating, for the correction of pectus excavatum: in vitro and in vivo studies. 2017/8/1–2018/7/31

Publications:

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1. **Liu KS**, Huang KC*, Wong CH. A neglected retained Penrose drain mimicking an amputation stump neuroma. *J Trauma.* 2007 Apr;62(4):1051–1052
2. **Liu KS**, Tseng CN, Huang YK*, Lu MS, Wu MY, Tsai FC. Traumatic intra-myocardial dissection with mitral regurgitation. *J Trauma.* 2009 Jul;67(1):215
3. **Liu KS**, Tsai FC*, Huang YK, Wang YC, Wu MY, Chang YS, Chu JJ, Lin PJ. Extracorporeal life support for postcardiotomy right ventricular failure. *Artif Organs* 2009 Jul;33(7):504-8
4. **Liu KS***, Chu JJ, Yeh CH, Chen Y. Left subclavian artery aneurysm in association with coarctation of aorta, aberrant right subclavian artery, and common origin for bilateral carotid arteries. *Eur J Cardiothorac Surg*. 2010 Apr;37(4):950-1
5. **Liu KS**, Liu YH, Peng YJ, Liu SJ*. Experimental absorbable stent permits airway remodeling. *J Thorac Cardiovasc Surg*. 2011 Sep 28;141:463-8.
6. **Liu KS**, Liu SJ*, Chen HY, Huang YK, Peng YJ, Wu RC, Ueng WN. Steady antibiotic release from biodegradable beads in the pleural cavity: an in vitro and in vivo study. *Chest*. 2012;141;1197-1202.
7. Chao YK, **Liu KS**, Wang YC, Huang YL, Liu SJ*. Biodegradable cisplatin-eluting tracheal stent for malignant airway obstruction: In vivo and in vitro studies. *Chest*. 2013 Jul;144(1):193-9.
8. Lee CH, **Liu KS**, Jhong GH, Liu SJ*, Hsu MY, Wang CJ, Hung KC. Finite element analysis of helical flows in human aortic arch: a novel index. *Biomicrofluidics*. 2014 Apr 9;8(2):024111.
9. **Liu KS**, Lee CH, Wang YC, Liu SJ*. Sustained release of vancomycin from novel biodegradable nanofiber-loaded vascular prosthetic grafts: in vitro and in vivo study. *Int J Nanomedicine*. 2015 Jan 29;10:885-91.
10. **Liu KS**, Lee CH, Tsai FC, Jhong GH, Hung KC, Liu SJ*. Computational Analysis of the Mechanical

Behaviors of Hemiarch and Total Arch Replacements. *Ann Biomed Eng*. 2015 Dec;43(12):2881-91.

11. **Liu KS***, Lee CH, Lee D, Liu M, Tsai FC, Tseng YY. Sustained local delivery of high-concentration vancomycin from a hybrid biodegradable, antibiotic-eluting, nanofiber-loaded endovascular prosthesis for treatment of mycotic aortic aneurysms. J Vasc Surg. 2018 Aug;68(2):597-606.
12. **Liu KS**, Chen WH, Lee CH, Su YF, Liu SJ. Extended pain relief achieved by analgesic-eluting biodegradable nanofibers in the Nuss procedure: in vitro and in vivo studies. Int J Nanomedicine. 2018 Dec 7;13:8355-8364.
13. De León Ayala IA, Cheng YT, Chen SW, Chu SY, Nan YY, **Liu KS***. Outcomes of type Ia endoleaks after endovascular repair of proximal aorta. J Thorac Cardiovasc Surg. 2020 Jun 27:S0022-5223(20)31747-5. Online ahead of print.
14. **Liu KS**, Kao CW, Tseng YY, Chen SK, Lin YT, Lu CJ, Liu SJ. Assessment of antimicrobial agents, analgesics, and epidermal growth factors-embedded anti-adhesive poly(lactic-co-glycolic acid) nanofibrous membranes: in vitro and in vivo studies. Int J Nanomedicine. 2021 Jul 1;16:4471-4480.

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