

Nephrology Laboratory

Lab Introduction

- 1. Peritoneal dialysis
- 2. Nanomedicine
- 3. Cell therapy

Principal Investigator

Lee, Yi-Che, MD, Ph.D.

Contact Information

TEL: +886-7-6151100 ext. 5923

Email: ed103910@edah.org.tw

Educations

Ph.D. degree, Institute of Clinical Medicine, National Cheng Kung University

Academic Experiences

Duration	Department	Position
2022/07~present	School of Medicine, I-shou University	Associate professor
2023/02~present	Department of Nephrology, E-Da Hospital	Director
2017/10~2023/01	Department of Nephrology, E-Da Dachang Hospital	Director
2008/03~2017/10	Department of Nephrology, E-Da Hospital	Attending physician

Team Members

Assistants	Chih-Ting Huang			
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Techniques & Equipment (Optional)

- 1. CO2 incubator
- 2. Phase inverted microscope
- 3. Frozen centrifuge
- 4. PCR machine
- 5. Luciferase assay machine

Research Projects

Project titles	PI	Source	Duration
Investigate the potential of nanoparticle delivery systems to further enhance the ability of SGLT inhibitors in improving ultrafiltration during peritoneal dialysis	Yi-Che Lee	E-Da Hospital	2024/01/01-2024/12/31
Novel application of regenerative medicine therapy on peritoneal dialysis related peritoneal damage	Yi-Che Lee	NCKUEDA	2024/01/01-2024/12/31
Far-infrared therapy as a novel therapy for peritoneal dialysis related peritoneal damage	Yi-Che Lee	E-Da Hospital	2021/01/01-2023/12/31
Novel therapy of chronic kidney disease related secondary hyperparathyroidism	Yi-Che Lee	Ministry of Science and Technology	2020/08/01-2022/10/31

Publications

- 1. Wang HH, Wu JL, Chang MY, Wu HM, Ho LC, Chi PJ, Wu CF, Lee WC, Liou HH, Hung SY, Lee YC*. Antibody Response and Adverse Events of AZD1222

COVID-19 Vaccination in Patients Undergoing Dialysis: A Prospective Cohort Study. *Vaccines* (2022 Sep). (SCI)

2. C-K Lin, P-Y Chen, Y-Y Wu, C-C Wu, H-J Chen, C-L Liang, Y-C Lee, C-W Lin, C-M Hung, H-K Wang. Adjunctive Statin Therapy Reduces Mortality After Acute Hemorrhagic Stroke. *Risk Manag Healthc Policy*. 14;14:177-183. 2021 (SCI)

3. F-Y Cheng, Y-Y Chiou, S-Y Hung, T-M Lin, H-K Wang, C-W Lin, H-H Liou, M-Y Chang, H-H Wang, Y-C Lee*. Novel Application of Magnetite Nanoparticle-Mediated Vitamin D3 Delivery for Peritoneal Dialysis-Related Peritoneal Damage. *Int J Nanomedicine*. 11;16:2137-2146. 2021 (SCI)

4. H-H Wang, J-L Wu, Y-C Lee, L-C Ho, M-Y Chang, H-H Liou, S-Y Hung*. Risk of Serious Falls Between Hemodialysis and Peritoneal Dialysis Patients: A Nationwide Population-based Cohort Study. *Sci Rep*. 8;10(1):7799. 2020 (SCI)

5. Y-C Tsai, I-L Teng, S-T Jiang, Y-C Lee, Y-Y Chiou*, F-Y Cheng. Safe Nanocomposite-Mediated Efficient Delivery of MicroRNA Plasmids for Autosomal Dominant Polycystic Kidney Disease (ADPKD) Therapy. *Adv Healthc Mater*. 8(5):e1801358. 2019 (SCI)

6. Y-C Lee, S-Y Hung, H-K Wang, C-W Lin, H-H Wang, M-Y Chang, C-F Wu, J-M Sung, Y-Y Chiou, S-H Lin*. Male Patients on Peritoneal Dialysis Have a Higher Risk of Sleep Apnea. *J Clin Sleep Med*. 15;15(7):937-945. 2019 (SCI)

7. Y-C Lee*, C-T Huang, F-Y Cheng, S-Y Hung, T-M Lin, Y-C Tsai, C-I Chen, H-K Wang, C-W Lin, H-H Liou, M-Y Chang, H-H Wang, Y-Y Chiou*. The Clinical Implication of Vitamin D Nanomedicine for Peritoneal Dialysis-Related Peritoneal Damage. *Int J Nanomedicine*. 5;14:9665-9675. 2019 (SCI)

8. Y-C Lee, S-Y Hung, H-K Wang, C-W Lin, H-H Wang, M-Y Chang, J-M Sung, Y-Y Chiou, S-H Lin (correspondence). Is there different risk of cancer among end-stage renal disease patients undergoing hemodialysis and peritoneal dialysis? *Cancer Med*. 7(2):485-498. 2018 (SCI)

9. C-H Huang, C-W Lin, Y-C Lee, C-Y Huang, R-Y Huang, Y-C Tai, K-W Wang, S-N Yang, Y-T Sun, H-K Wang (correspondence). Is traumatic brain injury a risk factor for neurodegeneration? A meta-analysis of population-based studies. *BMC Neurol*. 5;18(1):184, 2018 (SCI)