

Dr. Ting-yun Huang, MD

EMERGENCY MEDICINE



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Work Experience



Emergency Physician | Shin Kong Wu Ho SU Memorial hospital.

Aug 2006 -2017 (5 years)

- Emergency medicine Residency
- Emergency medicine Faculty



Emergency Physician | Shuang-Ho Hospital

July 2077 -present (72 years)

- Visiting Staff



Emergency Physician | Belau National Hospital (Palau)

June-July 2010 (2 months)

Emergency Physician | Majuro Hospital (Marshall Island)

Nov- Dec 2022 (2 months)

- EMS training

Education History



Global Faculty in Training (GIFT), Stanford Biodesign Center, 2024



Master | Professional master program in Artificial Intelligence in Medicine, Taipei Medical University Class of 2079



Master | Graduate Institute of Injury Prevention and Control, Taipei Medical University Class of 2017



Doctor of Medicine | Chung-Shan Medical University Class of 7999

Skills

- Emergency Medicine
- Physician of Hospital Medicine
- Critical Care
- Wilderness Medicine
- Hyperbaric and undersea medicine
- Disaster medicine
- Pediatric advanced life support
- Biodesign

Instructor

- Lecturer of school of medicine, Taipei medical university
- AHA Advanced cardiovascular life support instructor
- AHA Basic cardiovascular life support instructor
- Taiwan Wilderness life support instructor

Introduction

During my practice in the emergency department, the issues of emergency room overcrowded and healthcare worker burnout have persisted for a long time without any improvement. These got worsened during the COVID-19 pandemic. During this period, the original healthcare model could no longer meet the exploding medical needs and was unable to provide care for patients who couldn't seek treatment due to various factors. I have personally experienced the frustration of encountering inefficient processes during emergency visits, as well as the prolonged waiting times due to administrative procedures. This would not only exacerbate **ER** overcrowding but also increase risk of contagious disease transmission.

Moreover, certain patients' needs were often neglected. For instance, prolonged waiting times for non-critical patients resulted in potential mobility and mortality and uncomprehending the further medical treatment plan leading to patients' anxiety are happening daily in **ER** setting. These issues are often challenging to be quantified in terms of numbers like mortality rates or morbidity rates. However, it would worsen the physician-patient relationship and increase medical burden. As a physician, simply attributing these conditions to an influx of patients, inadequate healthcare staffs and inefficient patient diversion does not offer any solution. However, I do believe that it could be improved through working on the administrative process.

Being a medical instructors for years, I am well aware of the gap between non-medical individuals and professional medical information. Engaging in teaching students of various background has taught me how to inspire their enthusiasm for learning. Participating in GIFT would not only satisfy my passion for biodesign but also allow me to pass this state of art to various passionate individuals, collectively to improve the current healthcare environment.

Publications:

- Ting-Yun Huang, Chee-Fah Chong, Heng-Yu Lin, Tzu-Ying Chen, Yung-Chun Chang, Ming-Chin Lin, A pre-trained language model for emergency department intervention prediction using routine physiological data and clinical narratives, *International Journal of Medical Informatics*, 2024,105564, ISSN 1386-5056, doi.org/10.1016/j.ijmedinf.2024.105564.
- Chen TY, Huang TY, Chang YC. Using a clinical narrative-aware pre-trained language model for predicting emergency department patient disposition and unscheduled return visits. *J Biomed Inform.* 2024 Jul;155:104657. doi: 10.1016/j.jbi.2024.104657. Epub 2024 May 19. PMID: 38772443.
- Chen MC, **HuangTY**, Chen TY, Boonyarat P, Chang YC. Clinical Narrative-aware deep neural network for emergency department critical outcome prediction. *J. Biomedical Informatics.* 2023. 104284
- **HuangJY**, Yang CK, Chen MY, Yadav VK, Fong IH, Yeh CT, Cherng YG. The novel furanocoumarin NotopteroI inhibits hepatocellular carcinogenesis by suppressing cancer sternness signaling and inducing oxidative stress-associated cell death. *Nutrients.* April 2023.
- Kan SW, **HuangTY**, Ma HP, Tay MZ, Tam KW, Tsai TY. Early versus delayed feeding after therapeutic endoscopic procedures: Meta-analysis of randomized controlled trials. *Dig Endosc.* 2021Sep 18. doi: 10.1111/den.14140. Epub ahead of print. PMID: 34536972.
- Chiu IT, **HuangTY**, Ong JR, Ou JC, Chen PL, Ma HP. Association between Sleep Deprivation in Caregivers and Risk of Injury among Toddlers: A Propensity Score Analysis. *Biomed Res Int.* 2020 Jun 22;2020:9421712. doi: 10.1155/2020/9421712. PMID: 32685547; PMCID: PMC7330626.
- **HuangTY**, Ma HP, Tsai SH, Chiang YH, Hu CJ, Ou J. Sleep duration and sleep quality following acute mild traumatic brain injury: a propensity score analysis. *Behav Neurol.* 2015;2015:378726. doi: 10.1155/2015/378726. Epub 2015 Mar 17. PMID: 25852234; PMCID: PMC4380095.