


# 2023 臺中榮民總醫院國際醫學研討會

TCVGH International Medical Conference

10.28-29 | 09:00-16:30 | 研究大樓、教學大樓、第二醫療大樓 |

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Speech Title	Optimizing Cardiac MRI for Myocardial Infarction: Challenges and Solutions
Abstract( 200 words) :	
<p>With ongoing technical advances in magnetic resonance (MR) imaging, the clinical demand for cardiac MR evaluations has been increasing. CMR has the unique ability to assess global and regional LV function post-MI, quantify infarct size with late gadolinium enhancement, assess the status of the microvasculature by identifying microvascular obstruction (MO), and evaluate the area at risk with T2-weighted imaging of myocardial edema. Nonetheless, even with the most sophisticated acquisition techniques, artifacts commonly occur at cardiac MR imaging. Early LGE imaging techniques used spin echo sequences however these were limited by significant respiratory motion artifact. In this lecture, I will provide an overview of the main techniques pertaining cardiac MRI for myocardial Infarction, review the existing literature on technological innovation including artificial intelligence (AI)-based techniques in CMR, and finally, discuss the strengths and limitations of these techniques and their possible future development.</p>	