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Speech Title  
演講主題

Role of Cardiac MRI in the evaluation of ischemia heart disease:  
current status and future direction.

心臟磁振造影於缺血性心臟病評估中的角色：現況與未來

Abstract 摘要：

Stress cardiac MRI is a well establish technique for the noninvasive detection of myocardial ischemia resulting from severity of coronary stenosis. Compared with single-photon emission computed tomography (SPECT), the most widely used technique, stress cardiac MRI has superior spatial resolution that could potentially differentiate subendocardial and transmural perfusion defect, has fewer artifacts, and is free from ionization.

In the stress CMR study, late gadolinium enhancement (LGE) images could evaluate old myocardial infarction and magnetic resonance myocardial perfusion images (MRMPI) could assess stress-inducible ischemia which is the important information for PCI men to decide to perform revascularization for the patients or not. In the past decades, the qualitative (visual) assessment of MRMPI was the most commonly used method in the clinical practice. However, it heavily replied on the readers` experience and can be influenced by the extent of ischemia and the presence of areas of relatively preserved perfusion, which can be used as reference.

In this 20 min talk, we will have a brief review and share our preliminary experience in Taipei MacKay memorial hospital of quantitative assessment of MRMPI. We will also discuss the advanced MR technique to evaluate stress-inducible ischemia without iv administration of gadolinium.