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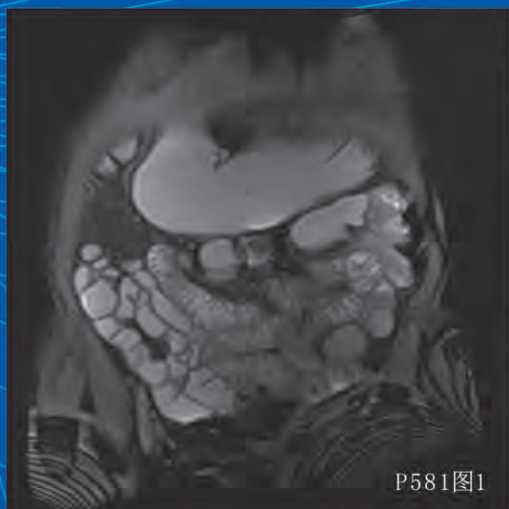
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磁共振成像

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P581图1



P581图2



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封面文章

肠道MR成像已被列为炎性肠病患者筛查和随访小肠病变的利器。然而,在我国并未广泛推广应用。检查所需的硬件平台和检查序列已不是制约因素,检查相关技术细节,例如检查前肠道准备、扫描序列的优化等,对于满足成像质量和精准诊断至关重要,而国内尚未有专家共识公布。欧洲胃肠和腹部放射学会(European Society of Gastrointestinal and Abdominal Radiology, ESGAR)及欧洲儿科放射学会(European Society of Paediatric Radiology, ESPR)于2017年首次发布了肠道MR成像技术联合共识,以规范检查前肠道准备及检查流程。但该共识主要基于欧美国家炎性肠病人群的研究,同时结合了部分健康志愿者的研究结果。检查前口服充盈液体肠道准备是保证检查成功的重要前提,由于国人和欧美人群体格差异巨大,且该共识推荐口服充盈液体量(1000~1500 mL),低于国内部分学者及中心推荐剂量(1500~2000 mL,甚至更多),且肠道疾病患者通常较为消瘦,体质量指数(body mass index, BMI)低于正常人群。基于此,本研究中心在国内首次采用该技术共识,探讨不同BMI人群口服充盈剂量与肠道充盈图像质量的定性和定量分析,探讨低BMI人群进行肠道MRI的可行性及优化该共识的肠道准备技术要点。其研究方法和结果以期为建立适合国人的规范肠道MR检查方法提供理论依据,为国内同行推广应用肠道MR成像提供参考。详见内文第578~582页。

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About the cover

Intestinal MR imaging is recommended as an essential tool for screening and following up small bowel lesions in patients with inflammatory bowel diseases (IBDs). However, it has not been widely applied in China. Nowadays, the required hardware platform and inspection sequence of MR scanner is no longer a constraint. The relevant technical details, such as pre-test bowel preparation, optimization of scan sequence, etc., is essential for acquiring high quality images, further more accurate diagnosis. No expert consensus has been published in China yet. The European Society of Gastrointestinal and Abdominal Radiology (ESGAR) and the European Society of Pediatric Radiology (ESPR) first published a joint consensus on intestinal MR imaging technology details in 2017. However, this consensus is mainly based on the studies of IBD patients in European and American countries and combined with the results of some healthy volunteers. Pre-test oral filling liquid is an important prerequisite for ensuring the success of the examination. Due to the difference in the population between Chinese and Europeans, and the consensus recommended oral filling volume (1000-1500 mL), it is lower than the recommended dose of some domestic scholars and centers (1500-2000 mL, or even more). And patients with intestinal diseases are usually thinner, with a lower body mass index (BMI) than the normal population. Hence the research center using the technical consensus for the first time in China to explore the qualitative and quantitative analysis of oral filling dose and image quality in different BMI populations, to explore the feasibility of intestinal MRI imaging in low BMI population and to optimize the consensus. The results in present study provide a theoretical basis for the establishment of a standardized intestinal MR examination method for Chinese people and provide reference for the domestic counterparts to promote the application of intestinal MR imaging. See text page 578-582.