Impact of Embedded Decision Support within eReferral Forms for MRI Ordering



A recent study revealed that the use of eReferral with embedded decision support (DS) was associated with a higher proportion of necessary MRI orders, as compared to faxed referrals.



- ▶ 31.5% more necessary MRI exams were ordered using eReferral than those that came through fax
- MRI exam requests made through eReferral were 13 times more likely to be necessary than those made by fax

Quick Facts

- There has been a significant increase in the ordering of MRIs in Canada and along with that, an increase in wait times for MRIs – some of which are unnecessary
- Evidence-based criteria to guide decision making has been developed by the Canadian Association of Radiologists (CAR), Choosing Wisely Canada, and the Joint Department of Medical Imaging (JDMI) at the University Health Network (UHN)
- The JDMI and the eReferral Program team worked together to embed the clinical DI – DS within the eReferral process for DI requests
- A study led by the eReferral Evaluation team, measured the impact of the DS embedded within the eReferral form on the number of necessary MRI requests ordered at Grand River Hospital in Kitchener, Ontario¹

- Grand River Hospital's DI clinic receives referrals through eReferral with embedded DS, as well as the traditional paper-fax based method, without DS
- In total, the retrospective chart review was completed on 717 referrals for patients with knee pain; 19% (136) were eReferrals and 81% (581) were fax
- Study findings show that the use of eReferral was associated with a higher likelihood of necessary MRI requests, reducing unnecessary ordering which could result in reducing wait time for patients to access services

To read the full article and learn more about the study <u>click here</u> or see the full citation below.

1. Mohammed, HT, Payson, L-A, Gillan, C, et al. Exploring the impact of diagnostic imaging decision support embedded in an electronic referral solution on the appropriate ordering of magnetic resonance imaging for patients with knee pain: a retrospective chart review. J Eval Clin Pract. 2021; 1-13. doi:10.1111/jep.13617

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