

**Introduction**

Guides presented by the ACP, NASS, ASA\_PM, ACOEM, AANS, ACEP, AAPM&R state that imaging should not be obtained for low back pain unless there is unexplained weight loss, focal neurologic deficit, fever/recent infection, osteoporosis, immunocompromise, history of trauma, or prolonged steroid use. However, many providers continue to obtain imaging for low back pain, which increases the cost of healthcare.

**Methods**

We implemented Practice Alerts in our electronic medical record system (EPIC) at Stanford from March 2015 to April 2017. We then reviewed the frequency of imaging orders and reasons for override.

**Results**

Overall, we saw 5176 encounters per month for low back pain at Stanford. There were 28 CTs per month, 85 MRIs, and 170 xrays per month. 473 alerts on average (13.7% of all imaging orders) triggered the alert. After the alert implementation, we saw a relative decrease of 9.6% of unindicated imaging (P = 0.0193). There was a significant decrease in MRI rate (1.8% vs 1.5%, P = 0.003), but not CT (P = 0.88) or xray (P=0.39). Analysis revealed that 55% of overrides may be inappropriate (pain < 6 weeks, radicular symptoms only, patient request).

**Conclusions**

Overall, we show a small but significant decrease in imaging rate for low back pain after implementation of best practice alerts. There was a significant decrease in MRI use, but not xray. Further research and targeted education initiatives are needed to improve resource utilization.

**Learning Objectives**

By the conclusion of this session, participants should be able to: 1) Describe the indications for imaging for low back pain, 3) Describe the effect of best practice alerts on unindicated imaging and the reasons for override.

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