Radiography led to improved patient satisfaction but increased short term pain in patients with low back pain


QUESTION: In primary care patients with low back pain of ≥6 weeks duration, does radiography of the lumbar spine help to improve clinical outcomes or satisfaction with care?

Design
Randomised [allocation concealed*]+, unblinded, controlled trial with 3 months and 9 months follow up.

Setting
75 general practices in Nottinghamshire, southern Derbyshire, northern Lincolnshire, and northern Leicestershire, England.

Patients
421 patients who were 20–55 years of age (median age 39 y, 59% women) and had had low back pain for ≥6 weeks. Exclusion criteria were chronic back pain (>6 mo duration); radiography of the lumbar spine in the previous year; unexplained weight loss or fever; use of oral steroids; history of malignancy, tuberculosis, injecting drug use, or positive result on HIV test; symptoms or signs of a cauda equina lesion; or pregnancy. Follow up ing drug use, or positive result on HIV test; symptoms or

Conclusion
In primary care patients with low back pain, radiography in addition to usual care improved patient satisfaction but increased short term pain and did not improve other clinical outcomes.

‡See glossary.
†Information provided by author.

Radiography v no radiography in primary care patients with low back pain†

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Radiography</th>
<th>No radiography</th>
<th>RRI (95% CI)</th>
<th>NNH (CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pain at 3 months</td>
<td>74%</td>
<td>65%</td>
<td>14% (0.5 to 31)</td>
<td>11 (6 to 288)</td>
</tr>
<tr>
<td>Pain at 9 months</td>
<td>65%</td>
<td>57%</td>
<td>14% (-3.0 to 34)</td>
<td>Not significant</td>
</tr>
</tbody>
</table>

†Abbreviations defined in glossary; RRI, NNH, and CI calculated from data in article.

COMMENTS

Radiography led to improved patient satisfaction but increased short term pain in patients with low back pain of ≥6 weeks duration, does radiography of the lumbar spine help to improve clinical outcomes or satisfaction with care?

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The large number of general practices participating in the trial means that the results are probably generalisable, at least to the UK, although we do not know what proportion of total eligible patients were included in the trial. Participants were recruited at home, which is not the usual context for referral, but this study characteristic is unlikely to have a large influence on outcomes. By excluding the large proportion of patients whose back pain was improving by 6 weeks, the investigators focused on a group for whom some uncertainty remained about the best strategy for investigation and treatment. Now we have to find methods of improving the satisfaction of patients with back pain without resorting to radiographical examination. We need to communicate a broader understanding of back pain as a problem that usually does not require technological investigation or medical intervention.

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