Spontaneously disappearing lumbar disc protrusion
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INTRODUCTION
Low back pain is a common problem affecting the general population. In 5% of patients these symptoms are due to lumbar disc protrusions.1 Low back pain with sciatica is much more frequently associated with a disc prolapse than low back pain alone. Motor and sensory deficits are present in 50–90% of patients with a herniated lumbar disc.2,3 When bladder symptoms or progressive motor weakness are present, surgery is carried out as an emergency. In the absence of these symptoms 75–90% of patients with acute sciatica due to a protruded lumbar disc experience resolution of symptoms without surgery.1,4,5

The spontaneous disappearance of a herniated lumbar disc has been recognised with the widespread use of magnetic resonance imaging (MRI).6,7 To reiterate the point this report describes one such case of a massive disc prolapse which resolved spontaneously and was accompanied by complete relief of symptoms.

CASE REPORT
A 45-year-old woman was seen in the neurosurgery outpatient clinic with a 9-month history of low backache and bilateral sciatica in the L5 dermatome. Her pain was exacerbated by sneezing, coughing, and moving about. She did not have any bowel symptoms. She gave a history of frequency and urgency but never had any episode of urinary incontinence.

Neurological examination revealed normal power, symmetrical reflexes, and intact sensation in both lower limbs. Straight leg raise test was 90° bilaterally.

An MRI scan of the lumbosacral spine revealed a large central disc at the L4/5 level (Figure 1). As the patient’s symptoms were already beginning to improve, conservative management was pursued. The patient was reviewed after 2 months and her symptoms had completely resolved. A repeat MRI of the lumbar spine showed no major disc herniation or nerve root compression, and the disc prolapse that was present on the previous scan had completely disappeared (Figure 2).

DISCUSSION
The management of herniated lumbar discs may...
involve non-operative and operative treatments. The initial treatment is non-operative and includes continued activity, analgesia, and physiotherapy. There are many options for surgery including standard discectomy, microdiscectomy, percutaneous discectomy, or laser discectomy. The microdiscectomy provides similar results to the standard discectomy, but, as yet, there is not enough evidence to draw firm conclusions on the percutaneous or laser techniques.

The question of whether surgery is better than conservative treatment remains unclear. Overall, surgery is associated with a quicker relief of symptoms in the short term; however, there is little evidence available to suggest that surgery is better than conservative treatment in longer term. The evidence that spontaneous resolution of a herniated disc occurs strengthens the role of a trial of conservative treatment in the absence of cauda equina syndrome before surgical intervention is undertaken.

The mechanism proposed for the reduction in the size of the herniated disc is an absorptive process that relies on neovascularisation and infiltration by inflammatory cells such as macrophages, granulocytes, and lymphocytes. It is also recognised that greater resorption of herniated discs occurs when there is a sequestered fragment. It is possible that this phenomenon of disappearing discs occurs more frequently. These cases are probably not detected because few patients have MRI examinations after the resolution of their symptoms. It is important to be aware that spontaneous resolution of herniated discs occurs, so that patients can be reassured and the role of conservative treatment can be emphasised.

Consent
The patient has consented to the publication of this report

Acknowledgements
With thanks to Mrs Debbie Doherty of the Department of Neurosurgery, University Hospital of Coventry and Warwickshire

Competing interests
The authors have stated that there are none.

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