# PRACTICE OBSERVED

## Practice Research

### Can general practitioners predict the outcome of episodes of back pain?

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In most patients who present with back pain in general practice a careful history and clinical examination do not enable the doctor to make a firm diagnosis. Indeed, the doctor may be uncertain of the value of the examination since treatment is in any case usually empirical. The report of the Department of Health's working group on back pain' concluded that "it is difficult to establish whether any approach naterally influences from general practice have attempted to identify clinical features of patients when they present that would predict the outcome of episodes of back pain. "Except for the Danish study, blowere, these have not tried to identify the most useful clinical features for the doctor to elicit. The sim of our study was to identify the fewest clinical features that were of prognostic value, and, as important, to identify aspects of the history and examination that were of little predictive value.

Sample and metioous A prospective study of 230 episodes of low back pain in patients who presented to one inner Loadon group practice was carried out between june 1900 and june 1901. Bettern twee reincluded in the study if they were aged between 16 and 64 years, lad a primary complant of low beck pain, and had not consulted with back pain in the preceding 28 days. "Low back pain" was defined as pain in the area bounded by the lowers palphole first, the glucal Golds, and the posterior azillary

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intens. Pregnant patients and those with flu-like illnerses were excluded. In 217 episodes (94°), the patient was prescribed only simple analgiesis in the four weeks after the initial consultation.

During the study year 219 patients presented with 230 episodes of back pain, 13 patients presented with two episodes, and one patient prepared with two episodes, and one patient prepared with two episodes, and one patient prepared with two episodes, and one all episodes to expert size the results of these analytes were closely similar our results refer to all 230 episodes.

At the initial consultation details were recorded about the duration of pain, mode of onset, cause of onset, previous consultation with an observable, and the patient properties of the pain, and absorbance of pain, rediation of the pain, and absormalities on impaction of the spine, He also recorded peint, weight, abnormalities of gait or posture on stiting, the site of maximal pain, rediation of the pain, and absormalities on impaction of the spine. He also recorded peint or limitation of flexion, extension, and an observable pain or limitation of flexion, extension, and an accordance of the pain of the pain

BRITISH MEDICAL JOURNAL. VOLUME 286 12 FEBRUARY 1983 HOW ACCURATELY CAN PROGNOSIS BE PREDICTED?

| Combinations of<br>clinical features                          | Disability scores at four weeks<br>(number of episodes) |                  | Total No of |
|---|---|------------------|-------------|
|   | Low score (- 14   | High score (>14) | episodes    |
| (A) Duration of pain > 1 week (B) Straight leg raising -: 60° |   |                  |             |
| Neither A nor B   | 65 (97")  | 2 (3 %)          | 67 (100%)   |
| One of A or B   | 83 (81 "_)  | 19 (19")         | 102 (100 ") |
| Both A and B  | 14 (61 ")   | 9 (39")          | 23 (100 ")  |

| Combination of<br>clinical features                   | Time from first to last consultation<br>(number of episodes) |          | Total No of |
|---|--|----------|-------------|
|   | < 15 days  | >15 days | episodes    |
| (A) Duration of pain >1 week (B) Straight leg raising |  |          |             |
| Neither A nor B                                       | 63 (94")   | 4 (6")   | 67 (100°)   |
| One of A or B   | 90 (79",.)   | 24 (21%) | 114 (100%)  |
| Both A and B  | 18 (58",,)   | 13 (42%) | 31 (100%)   |

| Actual sickness absence<br>(number of episodes) |           | Total No of  |
|---|-----------|--|
| ~ 2 weeks                                       | -2 weeks  | episodes   |
|   |           |  |
| 155 (85",.)                                     | 28 (15%)  | 183 (100°,)  |
| 6 (32",,)                                       | 13 (68°,) | 19 (100 %)   |
| 161 (80%)                                       | 41 (20%.) | 202 (100%)   |
|   | (number o | (number of episodes)  x 2 weeks  -2 weeks  155 (85") 28 (15") 6 (32") 13 (68") |

Discussion

Over 40 symptoms and signs of patients presenting to general practitioners with low back pain have been analysed to see whether they were related to the outcome of the episodes, which was measured in several different ways. About half of these symptoms and signs were significantly related to at least one of the outcome measures, Many of these features were highly correlated with one another. The duration of pain before the initial consultation and the limitation of straight leg raining were of the greatest prognostic significance and independent of all other symptoms and signs. Little additional information about prognosis wing patiend by including the 10 next most of the foot at the extreme of straight leg raining was the best indicator of nerve root involvement. Neurological signs were of limited prognostic value, as also observed in hospital.\(^1\)

In view of these results it is notable that Huill\(^1\) found that British general practitioners thought that duration of pain was an important prognostic factor in only 29\(^2\). These general practitioners indiged past history to be the most important prognostic factor in only all provinces are provided to the risk of recurrence over the following year.

It was easier to predict which patients would have a good outcome than those with a poor outcome. Extors other than the physical symptoms and signs may be more important in patients whose pain runs a protracted course.

Conclusions
In a prospective study of 230 episodes of back pain presenting to general practitioners features of the history and clinical examination that predicted the outcome of the episode were identified. The most consistent predictors of poor outcome were a history of back pain lasting for more than one week before the initial presentation and limitation of straight leg raising at the initial examination. A past history of back pain, while not related to the outcome of the initial prosode, was related to the initial examination.

The authors would like to thank the doctors of the Lambeth Road Group Practice and Miss Mary Evans, research administrator at the practice, for their wholehearted commitment to this study, which was supported in part by the Department of Health and Social Security.

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(Accepted 9 November 1982)

Instrow

The duration of pain before consultation most consistently predicted outcome. The most sensitive cut off point was pain that had issued for some week or more before the consultation. Patients in this group 38° of the sample) were more than risive as likely as the rest of the particular to the control of the sample of the constituted the doctor where the state of the control of the sample of the Constituted the doctor where the state of the sample of the Constituted the doctor where the state of the sample of the Constitute of the sample of the sam

| Duration of pain<br>(weeks) | Time from first to last consultation<br>(number of episodes) |                      | Total No of             |
|-----------------------------|--|----------------------|-------------------------|
|                             | < 15 days  | - 15 days            | episodes                |
| : 1                         | 109 (86°,)<br>62 (73°,)                                      | 18 (14%)<br>23 (27%) | 12° (100°,<br>85 (100°, |
| Total No of episodes        | 171 (81%)  | 41 (19%)             | 212 (100°).             |

| Duration of pain<br>(weeks) | Disability scores at four weeks<br>(number of episodes) |                    | Total No of |
|-----------------------------|---|--------------------|-------------|
|                             | Low score ( 14)   | High score ( > 14) | episodes    |
| <1                          | 109 (89%)   | 13 (11%)           | 122 (100*)  |
| >1                          | 54 (76")  | 17 (24°°)          | 71 (100%)   |
| Total No of episodes        | 163 (84")   | 30 (16°,)          | 193 (100%)  |

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| Straight leg raising<br>at presentation | Disability scores at four weeks<br>(number of episodes) |                     | Tetal No of                 |
|---|---|---------------------|-----------------------------|
|   | Low score (+ 14)  | High score (>14)    | episodes                    |
| < 60° in either leg                     | 57 (74")<br>105 (91")                                   | 20 (26")<br>10 (9") | 77 (100 °.)<br>115 (100 °.) |
| Total No of episodes                    | 162 (84",.)   | 30 (16")            | 192 (100%)                  |

Medical Records

## Personal medical record card

TONY DOWELL

It is impossible to give good patient care without good medical records. Systems of record keeping, however, usually exclude the patient, who is often left with vague ideas of what diagnoses have been made and what treatments have been ordered. This may become important when the patient comes into contact with the emergency services or when changing general practitioners. If a patient is admitted to hospital without a covering letter from a general practitioner when the patient problem of the contact the GP. When a patient changes his or her GP there is often a hatten in record keeping while old records are processed by the family practitioner committee.

We decided to introduce a personal medical record card to cover such situations and to make patients aware of their health status. At first only new patients entering the practice were given a personal record card. It was linked with a new patient status. At first only new patients entering the practice were given a personal record card. It was linked with a new patient status. At first only new patients entering the practice were given a personal record card. It was linked with a new patient of the patients and the past records.

Four partners practise in a suburb on the outskirts of Birmingham. The practice population of 10 000 come from a small town of 6000 people, extent on the nearby urban development, and surrounding villages. Most of the patients are from social class III, but there is a sizable group of professional pople.

ponse of the patients to the health interviews and record encouraging. Of a total of 250 adult patients, 155 (62%)

accepted and filled in the questionnaire. From a sample of 100 pro-cessed questionnaires, 59 patients came for a health interview, and 51 obtained a personal medical record card for their own use.

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| Inside   | <u> </u>                     |
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