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J B Staal, H Hlobil, M W van Tulder, et al.

*Occup Environ Med* 2003 60: 618-626
doi: 10.1136/oem.60.9.618

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Occupational health guidelines for the management of low back pain: an international comparison

J B Staal, H Hlobil, M W van Tulder, G Waddell, A K Burton, B W Koes, W van Mechelen

Background: The enormous socioeconomic burden of low back pain emphasises the need for effective management of this problem, especially in an occupational context. To address this, occupational guidelines have been issued in various countries.

Aims: To compare available international guidelines dealing with the management of low back pain in an occupational health care setting.

Methods: The guidelines were compared regarding generally accepted quality criteria using the AGREE instrument, and also summarised regarding the guideline committee, the presentation, the target group, and assessment and management recommendations (that is, advice, return to work strategy, and treatment).

Results and Conclusions: The results show that the quality criteria were variously met by the guidelines. Common flaws concerned the absence of proper external reviewing in the development process, lack of attention to organisational barriers and cost implications, and lack of information on the extent to which editors and developers were independent. There was general agreement on numerous issues fundamental to occupational health management of back pain. The assessment recommendations consisted of diagnostic triage, screening for "red flags" and neurological problems, and the identification of potential psychosocial and workplace barriers for recovery. The guidelines also agreed on advice that low back pain is a self limiting condition and, importantly, that remaining at work or an early (gradual) return to work, if necessary with modified duties, should be encouraged and supported.

Low back pain (LBP) is one of the most common health problems in industrial countries. Despite its benign nature and favourable course, LBP is commonly associated with incapacity, productivity loss due to sick leave, and corresponding high costs to the society.

In view of that impact, there is an obvious need for effective management strategies, based on scientific evidence derived from studies of sound methodological quality. Usually, these are randomised controlled trials (RCTs) on the effectiveness of therapeutic interventions, diagnostic studies, or prospective observational studies on risk factors or side effects. The scientific evidence, which is summarised in systematic reviews and meta-analyses, provides a solid basis for guidelines on the management of LBP. In a previous paper, Koes et al compared various existing clinical guidelines for the management of LBP targeted at primary health care professionals, which showed a large measure of commonality.

However, LBP is also an important issue in occupational health care because of the associated incapacity for work, productivity loss, and sick leave. The problems in the field of occupational health care are different and management focuses mainly on counselling the worker with LBP, and addressing the issues of assisting him or her to continue working, or to return to work (RTW) after sick listing. Several guidelines, or sections of guidelines, have now been published dealing with the specific issues of management in an occupational health care setting. Since the evidence is international, it would be expected that the recommendations of different occupational guidelines for LBP would be more or less similar. However, it is not clear whether the guidelines meet currently accepted quality criteria.

This paper critically appraises available occupational guidelines on the management of LBP, and compares their assessment and management recommendations.

METHODS

Guidelines on the occupational health management of LBP were retrieved from personal files of the authors. Retrieval was checked by a Medline search using the keywords "low back pain", "guidelines", and "occupational" up to October 2001, and personal communication with experts in the field. Guidelines had to meet the following inclusion criteria:

- In various countries occupational health guidelines are issued to improve the management of low back pain in an occupational context.
- Common flaws of these guidelines concern the absence of proper external reviewing in the development process, lack of attention to organisational barriers and cost implications, and lack of information on the independence of editors and developers.
- In general the assessment recommendations in the guidelines consisted of diagnostic triage, screening for "red flags" and neurological problems, and the identification of potential psychosocial and workplace barriers for recovery.
- There is general agreement on advice that low back pain is a self limiting condition and that remaining at work or an early (gradual) return to work, if necessary with modified duties, should be encouraged and supported.

Abbreviations: LBP, low back pain; RCT, randomised controlled trial; RTW, return to work
Guidelines aimed at the management of workers with LBP (in occupational health care settings or addressing occupational issues), or separate sections of guidelines that dealt with these topics.

Guidelines available in English or Dutch (or translated into these languages).

The exclusion criteria were:

- Guidelines on primary prevention (that is, prevention before the onset of the symptoms) of work related LBP (for example, lifting instructions for workers).
- Clinical guidelines for the management of LBP in primary care.

The quality of the included guidelines was appraised using the AGREE instrument, which is a generic tool designed primarily to help guideline developers and users assess the methodological quality of clinical practice guidelines.

The AGREE instrument provides a framework for the assessment of quality on 24 items (table 1), each rated on a four point scale. The full operationalisation is available on www.agreecollaboration.org.

Two reviewers (BS and HH) independently rated the quality of the guidelines, and then met to discuss disagreements and to reach consensus on the ratings. When they could not reach consensus, a third reviewer (MvT) reconciled remaining differences and made a final decision on the ratings. To facilitate analysis in this review, ratings were transformed into dichotomous variables of whether each quality item was or was not met.

The selected guidelines were further characterised and compared regarding the guideline committee, the presentation of the guideline, the target group, and the extent to which the recommendations were based on available scientific evidence. The assessment recommendations were also summarised and compared, as were recommendations on advice, treatment, and return to work strategies. All of this information was extracted directly from the published guidelines.

RESULTS

Selection of studies

Our search found 10 guidelines, but four were excluded because they dealt with the management of LBP in primary care, were aimed at the guidance of sick listed employees in general (not specifically LBP), were intended for the primary prevention of LBP at work, or were not available in English or Dutch. The final selection therefore consisted of the following six guidelines, listed by date of issue:

2. Australia (Victoria). Guidelines for the management of employees with compensable low back pain. Victorian WorkCover Authority, Australia (1996). (This guideline is a revised version of guidelines developed by the South Australian WorkCover Corporation in October 1993.)
   (b) Occupational health guidelines for the management of low back pain at work—leaflet for practitioners. Faculty of Occupational Medicine. UK (2000).
   (c) Occupational health guidelines for the management of low back pain at work—evidence review. Faculty of Occupational Medicine. UK (2000).

Two guidelines (4 and 6) could not be evaluated independently from additional documents to which they refer (4b–c, 6b–d) so these documents were also included in the review.

Appraisal of the quality of the guidelines

Initially, there was agreement between the two reviewers regarding 106 (77%) of the 138 item ratings. After two meetings, consensus was reached for all but four items, which required adjudication by the third reviewer. Table 1 presents the final ratings.

All included guidelines clearly presented the different options for the management of LBP in occupational health. In five of the six guidelines the overall objectives of the guideline were described specifically, the target users of the guideline were clearly defined, easily identifiable key recommendations were included, or key review criteria were presented for monitoring and/or audit purposes.

The results of the AGREE appraisal showed that none of the guidelines paid sufficient attention to potential organisational barriers and cost implications in implementing the recommendations. It was also unclear for all included guidelines whether or not they were editorially independent from the funding body, and whether or not there were conflicts of interest for the members of the guideline development committees. Furthermore, it was unclear for all guidelines whether experts had externally reviewed the guidelines prior to publication. Only the UK guideline clearly described the method used for the formulation of the recommendations, and provided for updating the guideline.

Development of the guidelines

Table 2 presents background information on the development process of the guidelines.

The target users for the guidelines were physicians and other health care providers in the field of occupational health care. Several guidelines were also directed at informing
The overall objective(s) of the guideline is (are) specifically described.

The clinical question(s) covered by the guideline is (are) specifically described.

The patients to whom the guideline is meant to apply are specifically described.

The guideline development group includes individuals from all the relevant professional groups.

The patients' views and preferences have been sought.

The target users of the guideline are clearly defined.

The guideline has been piloted among target users.

The criteria for selecting the evidence are clearly described.

The methods used for formulating the recommendations are clearly described.

There is an explicit link between the recommendations and the supporting evidence.

A procedure for updating the guideline is provided.

The recommendations are specific and unambiguous.

Key recommendations are easily identifiable.

The guideline is supported with tools for application.

The potential organisational barriers in applying the recommendations have been discussed.

The guideline presents key review criteria for monitoring and/or audit purposes.

The guideline is editorially independent from the funding body.

Conflicts of interest of guideline development members have been recorded.
<table>
<thead>
<tr>
<th>Country</th>
<th>Guideline Committee</th>
<th>Target group</th>
<th>Presentation</th>
<th>Evidence base</th>
</tr>
</thead>
</table>
4 | Comprehensive literature search, weighing of the evidence based on type and quality of studies. |
| Australia (Victoria) | Multidisciplinary: Orthopaedics, Rehabilitation Medicine, Workers compensation management, Representative of union of workers, General practice. | Practitioners managing work related LBP.  
Guideline document: guideline is a revised version of guidelines developed by the South Australian WorkCover Corporation in October 1993. | Recommendations supported by references or based on consensus and common practice, no explicit weighing of evidence. |
| USA           | Developed by the American College of Occupational and Environmental Medicine.        | Physicians and other health care providers, consumers in occupational health.  
Publication in a book of guidelines for (mainly) musculoskeletal complaints. | Comprehensive literature search, weighing of the evidence based on number and quality of studies, use of consensus in case of absence of evidence. |
| New Zealand   | Multidisciplinary: Physiotherapy, General practice, Osteopathy, Chiropractic, Occupational Therapy, Ergonomics, Orthopaedics, Representatives of employers’ associations and trade unions. | Employer, worker, treatment providers.  
Separate guidelines for the management of LBP in the workplace,  
and for the assessment of psychosocial “yellow flags”.  
Patient booklet.  
9 | There is no information in either guideline on search strategies and there are hardly any links between recommendations and references. Management suggestions outlined in the “yellow flags” guideline are reported to be based on the best available evidence to date.  
9 |
Guideline document.  
| Recommendations supported by references or based on consensus, no explicit weighing of evidence. |
Guideline documents,  
11 evidence review,  
12 leaflet for practitioners,  
separate guide for people at work and employers, and patient booklet (The Back Book).  
13 | Comprehensive literature search, weighing of the evidence based on number and quality of studies (3-star system), recommendations directly linked to relevant studies, some recommendations based on good practice (legally or by consensus). |
### Table 3  Occupational guidelines: recommendations regarding assessment of LBP

<table>
<thead>
<tr>
<th>Country</th>
<th>Patient population</th>
<th>Diagnostic classification</th>
<th>Examination</th>
<th>x-ray examination</th>
<th>Psychosocial factors</th>
<th>Workplace factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada (Quebec)</td>
<td>Subjects (workers) with activity related spinal disorders</td>
<td>11 categories ranging from LBP without radiation to chronic pain syndrome and “other diagnoses”. Further classification of duration (&lt;7 days, 7 days–7 weeks, &gt;7 weeks) and working status (working or idle); idle means absent from work, unemployed or inactive.</td>
<td>0–4 weeks absence from work: history and complete physical examination (including neurological examination); in case of serious disease further investigation. 4–7 weeks absence from work: re-evaluation, radiograph and sedimentation rate. Not working after 6 weeks: referral to musculoskeletal specialist. After 3 months of absence from work: consultation of multidisciplinary team.</td>
<td>If signs suggest a specific or serious disease. Identification of chronic pain syndrome, psychosocial factors tend to complicate the clinical problem after 3 months from the onset of a spinal disorder.</td>
<td>0–4 weeks absence from work: identify work factors that may have caused the problem. 4–7 weeks absence from work: assessment of occupational skills (to assist in returning to work).</td>
<td></td>
</tr>
<tr>
<td>Australia (Victoria)</td>
<td>Workers with compensable LBP</td>
<td>Back pain [non specific]. Back strain (til 8 weeks after injury). Back pain with specific diagnosis.</td>
<td>History. Physical examination: inspection, palpation and movements; signs of nerve root tension and irritation (SLR etc.); sign of impairment of nerve conduction (neurological examination); functional signs to assess possible psychological involvement (over-reaction, pain on simulated force, superficial or non-anatomical tenderness, regional weakness or sensory loss, SLR discrepancy); examination of sacroiliac joints</td>
<td>LBP with no radicular elements: at 4 to 6 weeks after onset to show individuals with spondylothesis or degenerative diseases. Findings must be related to clinical presentation. LBP with radicular symptoms (back and leg pain with abnormal unilateral signs): onset of complaints.</td>
<td>Psychosocial history; circumstances or difficulties at home and in the workplace, employment history, previous workers compensation episodes. After 2 and 6 weeks of absence from work: psychosocial assessment. Assessment of depression, consider psychological or psychiatric referral.</td>
<td>Work history: duties, perceived difficulties in returning to work, relationships at work. After 2 and 6 weeks of absence from work: determine need for vocational assessment.</td>
</tr>
<tr>
<td>USA</td>
<td>Workers with &lt;3 months activity intolerance due to LBP and/or back related leg symptoms related to occupational injury or exposure</td>
<td>Potentially serious low back disorders (red flags). Degenerative disorders. Non-specific disorders.</td>
<td>Medical history. Physical examination: general observation, regional examination of the low back, neurological screening, testing for lumbosacral nerve root tension.</td>
<td>When symptoms do not improve over 4 weeks, or in cases of red flags.</td>
<td>Not mentioned.</td>
<td>Perceived work relatedness of limitations, information on specific job duties.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Workers with acute LBP</td>
<td>Acute (LBP &lt;3 months) Recurrent Chronic (LBP &gt;3 months). Red flags: potentially serious conditions. Yellow flags: potential psychosocial obstacles to recovery.</td>
<td>History Screening for red and yellow flags.</td>
<td>Only in cases of &quot;red flags&quot; or when the symptoms do not reduce in intensity after 4 weeks.</td>
<td>Screening for yellow flags.</td>
<td>Identify difficult tasks (heavy work, lots of lifting and forceful movements, bending and twisting, a lot of driving). Investigate accidents or injuries.</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Workers who are absent from work because of LBP</td>
<td>Non-specific LBP. Radicular syndrome. Specific LBP.</td>
<td>Medical history. Physical examination: flexion, extension, lateral bending and rotation of lower back. In case of radiation: SLR test, strength, reflexes, sensibility.</td>
<td>Only in cases of “specific” LBP</td>
<td>Diagnosis of inadequate pain or illness behaviour, somatic fixation, kinesiophobia.</td>
<td>Identify risk factors (twisting, bending forward and sideward, frequency of lifting, asymmetric load). Eventually assistance of occupational health nurse or occupational hygienist for workplace investigation. Review psychosocial load of work.</td>
</tr>
<tr>
<td>UK</td>
<td>Workers presenting with LBP, and those having difficulty returning to duties at 4–12 weeks</td>
<td>Simple back pain. Nerve root pain. Red flags for possible serious spinal pathology.</td>
<td>Screen for serious spinal diseases and nerve root problems. Clinical, disability and occupational history.</td>
<td>x-ray examinations and scans not indicated for the occupational health management of the worker with LBP</td>
<td>Consider psychosocial “yellow flags”; guidance provided.</td>
<td>Occupational history: concentrate on impact of symptoms on work, and any obstacles to recovery and return to work.</td>
</tr>
</tbody>
</table>
### Table 4  Occupational guidelines: recommendations regarding information and advice, return to work measures, and treatment

<table>
<thead>
<tr>
<th>Country</th>
<th>Information/advice</th>
<th>Return to work measures</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada (Québec)</td>
<td>Reassure patient on benign nature of condition and on its compatibility with work. Counselling on posture and lifestyle.</td>
<td>If symptoms have improved or do not cause functional restriction, return to work should be considered. If after 3 months the worker has not resumed work a multidisciplinary team should be consulted (with assistance from the Worker's compensation board), whose composition will depend on the underlying problem.</td>
<td>Analgesics, NSAIDs. Intense pain/spasm: bed rest for 2 days, prescription renewed if pain/spasm still intense. When no improvement: physiotherapeutic modalities including instruction and practice in proper posture and body mechanics at rest and during movement.</td>
</tr>
<tr>
<td>Australia (Victoria)</td>
<td>Set up a treatment plan, which includes elements of medical treatment and procedures to facilitate the injured worker's return to work. Decisions and actions regarding the treatment plan should be fully discussed with the worker.</td>
<td>A workplace visit by the treating practitioner increases the understanding of the working environment and the available range of duties. Where possible, return workers to their normal duties. Where this is not possible, modify their normal tasks. Bring in occupational rehabilitation services when necessary.</td>
<td>The purpose of treatment is to improve function, with a view to return to work. Different treatment options are listed for short term (24 hours to 6 weeks after injury), medium term (6 to 12 weeks after injury) and long term complaints. Temporary avoidance of activities that increase mechanical stress on spine. Gradual return to normal activities. Low stress aerobic exercise and conditioning exercises for trunk muscles after 2 weeks. Discussion of surgical option in case of persistent and severe sciatica and clinical evidence of nerve root compression if symptoms persist after 1 month of conservative therapy.</td>
</tr>
<tr>
<td>USA</td>
<td>Provide assurance and education about back problems. Recommend activity alterations to decrease symptoms. Encourage return to full activity.</td>
<td>Review of work duties to decide whether modifications can be accomplished without employer notification and to determine whether modified duty is available. Without co-morbidity or complicating factors (employment, legal issues): maintain patient at maximal levels of activity, including work activities; target for return to work with modified duty is 0–2 days; target for return to work without modified duty is 7–14 days.</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td>LBP usually self-limiting, serious back injuries are not common. Pain does not mean that work and activity are harmful. Staying active and at work helps people recover better and more quickly. Promote self-management and self-responsibility.</td>
<td>Advice to modify or continue work. Get occupational advice if needed. Set return to work plan. Contact between employer, case manager and treatment provider important.</td>
<td>Advise to continue usual activities and work if appropriate. Simple pain relief (paracetamol and anti-inflammatory medication). Manipulation (only in first 4 to 6 weeks). Eventual referral to specialist in case of ”red flags”.</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Non specific LBP and lumbosacral radicular syndrome (light complaints): explanation about good prognosis; activity is not harmful. Lumbosacral radicular syndrome (severe complaints): after treatment, the above mentioned advice.</td>
<td>Non specific LBP and lumbosacral radicular syndrome (light complaints): return to work within 2 weeks in absence of complications, adaptation of duties (hours or tasks) when necessary. Lumbosacral radicular syndrome (severe complaints): advice on temporary work adaptation. Specific LBP: look for acceptable work adaptation in consultation with employer.</td>
<td>When no improvement within 2 weeks of work absence: eventual referral to graded activity programme (gradually increasing exercise programme). When no improvement within 12 weeks of work absence: referral for multidisciplinary rehabilitation.</td>
</tr>
<tr>
<td>UK</td>
<td>Employers and workers must be aware that: – LBP is common and frequently recurrent but acute attacks are usually brief and self-limiting. – Physical demands at work are one factor influencing LBP but are often not the most important. Case management needs to be directed at both physical and psychosocial factors Expected recovery times have to be discussed, as is the importance of continuing ordinary activities as normally as possible despite pain. Workers with LBP should receive the key information (The Back Book).</td>
<td>Remain at work or return in early stage even if there is still some LBP. Advice employers on the actions required, which may include maintaining sympathetic contact with the absent worker. Consider temporary adaptation of the job or pattern of work. Address the common misconception of the need to be pain free before return to work. Encourage the employer to establish a surveillance system to identify those off work with LBP for over 4 weeks so that appropriate action can be taken. Advise employers on ways in which the physical demands of the job can be temporarily modified to facilitate return to work.</td>
<td>Refer the worker who is having difficulty returning to normal occupational duties at 4–12 weeks to an active rehabilitation programme. The rehabilitation programme should consist of education, reassurance and advice, exercise, and pain management according to behavioural principles; the programme should be embedded in an occupational setting and strongly directed towards return to work.</td>
</tr>
</tbody>
</table>
exposure to whole body vibration), accidents or injuries, and perceived difficulties in returning to work or relationships at work. The Dutch and the Canadian guidelines contained recommendations to carry out a workplace investigation or an assessment of occupational skills when necessary.

### Recommendations regarding information and advice, treatment, and return to work strategies

Most of the guidelines recommended reassuring the employee and providing information about the self limiting nature and good prognosis of LBP. Encouragement of return to normal activity as normally as possible was frequently advised. In line with the recommendations to return to normal activity, all guidelines also stressed the importance of returning to work as rapidly as possible, even if there is still some LBP and if necessary starting with modified duties in more severe cases. Work duties could then be increased gradually (hours and/or tasks), until full return to work was reached. The US and Dutch guidelines provided explicit time schedules for return to work. The Dutch guideline proposed return to work within two weeks with adaptation of duties when necessary. The Dutch guideline also stressed the importance of time contingent management with regard to return to work. The US guideline proposed every attempt to maintain the patient at maximal levels of activity, including work activities; targets for disability duration in terms of return to work were given as 0–2 days with modified duties, and 7–14 days if modified duties are not used/available. In contrast to the others, the Canadian guideline advised return to work only when symptoms and functional restrictions had improved.

In general, the most frequently recommended treatment options in all the included guidelines were: medication for pain relief, gradually progressive exercise programmes, and multidisciplinary rehabilitation. The US guideline recommended referral within two weeks to an exercise programme consisting of aerobic exercises, conditioning exercises for trunk muscles, and exercise quota. The Dutch guideline recommended that if there is no progress within two weeks of work absence, workers should be referred to a graded activity programme (gradually increasing exercises) and if no progress by four weeks, then to a multidisciplinary rehabilitation programme. The UK guideline recommended that workers who have difficulty returning to normal occupational duties by 4–12 weeks, should be referred to an active rehabilitation programme. This rehabilitation programme should include education, reassurance and advice, a progressive active exercise and fitness programme, and pain management according to behavioural principles; it should be embedded in an occupational setting and directed strongly towards return to work. Extensive lists of possible treatment options were presented in the guidelines of Canada and Australia, although most of these were not based on scientific evidence.

### DISCUSSION

The management of LBP in an occupational health setting must address the relation between low back complaints and work, and develop strategies aimed at a “safe” return to work. This review compared available occupational health guidelines from various countries. Guidelines are rarely indexed in Medline, so when searching for guidelines we had to rely primarily on personal files and personal communication.

### Quality aspects and development process of the guidelines

The assessment by the AGREE instrument showed some differences in the quality of the guidelines reviewed, which may partly reflect the variation in the dates of development and publication of the guidelines. The Canadian guideline, for example, was published in 1987 and the Australian guideline in 1996. The other guidelines were more recent and incorporated a more extensive evidence base and more up to date guideline methodology.

Several common flaws related to the development process of the guidelines were shown by the assessment by the AGREE instrument. Firstly, it is important to make clear whether a guideline is editorially independent from the funding body, and whether there are conflicts of interest for the members of the guideline committee. None of the included guidelines clearly reported these issues. Further, reported external review of the guideline by clinical and methodological experts prior to publication was also lacking in all guidelines included in this review.

Several guidelines provided comprehensive information on the way relevant literature was searched and translated into recommendations. Other guidelines supported their recommendations by references, but this does not permit assessment of the robustness of the guidelines or their recommendations.

Guidelines depend on the scientific evidence, which changes over time, and it is striking that only one guideline provided for future update. Possibly there are updates planned for the other guidelines but they are not explicitly stated (and conversely stating there will be future update does not mean it will actually occur). This lack of reporting may also hold true for other AGREE criteria that we rated negatively. The use of the AGREE framework as a guide for both the development and the reporting of guidelines should help to improve the quality of future guidelines.

### Assessment and management of LBP

The diagnostic procedures recommended in the occupational health guidelines were largely similar to the recommendations of clinical guidelines, and, logically, the main difference was the emphasis on addressing occupational issues. The reported methods for addressing workplace factors in the assessment of LBP of the individual worker concerned the identification of

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**Summary of recommendations for the assessment of LBP**

- Diagnostic triage (non-specific LBP, radicular syndrome, specific LBP).
- Exclude “red flags” and neurological screening.
- Identify psychosocial factors and potential obstacles to recovery.
- Identify workplace factors (physical and psychosocial) that may be related to the LBP problem and return to work.
- x Ray examinations restricted to suspected cases of specific pathology.

**Summary of recommendations regarding information, advice, return to work measures, and treatment in workers with LBP**

- Reassure the worker and provide adequate information about the self limiting nature and good prognosis of LBP.
- Advise the worker to continue ordinary activities and working or to return to normal activity and work as soon as possible, even if there is still some pain.
- Most workers with LBP manage to return to more or less normal duties quite rapidly. Consider temporary adaptations of work duties (hours/tasks) only when necessary.
- When a worker fails to return to work within 2–12 weeks (there is considerable variation in the time scale in different guidelines), refer them to a gradually increasing exercise programme, or multidisciplinary rehabilitation (exercises, education, reassurance, and pain management following behavioural principles). These rehabilitation programmes should be embedded in an occupational setting.
Management of low back pain

The purpose of this review was to give both an overview and a critical appraisal of occupational guidelines for the management of LBP. The critical appraisal of the guidelines is meant to help direct future development and planned updates of guidelines. In the still emerging field of guideline methodology we consider all past initiatives as laudable; we recognise the need for clinical guidance, and appreciate that guidelines developers cannot wait for research to provide all the methodology and evidence required. However, there is room for improvement and future guidelines and updates should consider the criteria for proper development, implementation, and evaluation of guidelines as suggested by the AGREE collaboration.

The implementation of the guidelines is beyond the scope of this review, but it was noted that none of the guideline documents specifically described implementation strategies, so it is uncertain to what extent the target groups may have been reached, and what effects that may have had. This may be a fruitful area for further research.

The very existence of these occupational health guidelines shows that existing primary care clinical guidelines for LBP are considered inappropriate or insufficient for occupational health care. There is a clear perception internationally that the needs of the worker experiencing back pain are intrinsically linked to a variety of occupational issues not covered by usual primary care guidance and, consequently, practice. What emerges is that, despite the methodological flaws, considerable agreement is evident on a range of fundamental occupational health strategies for managing the worker with back pain, some of which are innovative and challenge previously held views. There is agreement on the fundamental message that prolonged work loss is detrimental, and that early work return should be encouraged and facilitated; there is no need to wait for complete symptom resolution. Although the recommended strategies vary somewhat, there is considerable agreement on the value of positive reassurance and advice, availability of (temporary) modified work, addressing workplace factors (“getting all the players onside”), and rehabilitation for workers having difficulty returning to work.

ACKNOWLEDGEMENTS

This study was supported by the Dutch Health Care Insurance Council (CVZ), grant DPZ no. 169/0, Amstelveen, Netherlands. J B Staal is currently working at the Department of Epidemiology, Maastricht University, PO Box 616 6200 MD Maastricht, Netherlands. W van Mechelen is also part of the Research Centre on Physical Activity, Work and Health, Body@work TNO-VUmc.

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- Writing to a highly structured template (about 2000–3000 words), using evidence from selected studies, within 6–8 weeks of receiving the literature search results.
- Working with Clinical Evidence Editors to ensure that the text meets rigorous epidemiological and style standards.
- Updating the text every eight months to incorporate new evidence.
- Expanding the topic to include new questions once every 12–18 months.

If you would like to become a contributor for Clinical Evidence or require more information about what this involves please send your contact details and a copy of your CV, clearly stating the clinical area you are interested in, to Claire Folkes (cfolkes@bmjgroup.com).

Call for peer reviewers

Clinical Evidence also needs to recruit a number of new peer reviewers specifically with an interest in the clinical areas stated above, and also others related to general practice. Peer reviewers are health care professionals or epidemiologists with experience in evidence based medicine. As a peer reviewer you would be asked for your views on the clinical relevance, validity, and accessibility of specific topics within the journal, and their usefulness to the intended audience (international generalists and health care professionals, possibly with limited statistical knowledge). Topics are usually 2000–3000 words in length and we would ask you to review between 2–5 topics per year. The peer review process takes place throughout the year, and our turnaround time for each review is ideally 10–14 days.

If you are interested in becoming a peer reviewer for Clinical Evidence, please complete the peer review questionnaire at www.clinicaledgevidence.com or contact Claire Folkes (cfolkes@bmjgroup.com).