This is a repository copy of Adherence to cardiac rehabilitation guidelines: a survey of rehabilitation programmes in the United Kingdom.

White Rose Research Online URL for this paper: https://eprints.whiterose.ac.uk/1747/

Article:

Reuse
Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

Takedown
If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.
Adherence to cardiac rehabilitation guidelines: a survey of rehabilitation programmes in the United Kingdom

Robert J P Lewin, Rosie Ingleton, Andrew J Newens and David R Thompson

*BMJ* 1998;316:1354-1355

Updated information and services can be found at:
http://bmj.com/cgi/content/full/316/7141/1354

These include:

**References**

5 online articles that cite this article can be accessed at:
http://bmj.com/cgi/content/full/316/7141/1354#otherarticles

**Rapid responses**

You can respond to this article at:
http://bmj.com/cgi/eletter-submit/316/7141/1354

**Email alerting service**

Receive free email alerts when new articles cite this article - sign up in the box at the top right corner of the article

**Topic collections**

Articles on similar topics can be found in the following collections

Ischaemic heart disease (2091 articles)

**Notes**

To order reprints of this article go to:
http://www.bmjjournals.com/cgi/reprintform

To subscribe to *BMJ* go to:
http://bmj.bmjjournals.com/subscriptions/subscribe.shtml
Adherence to cardiac rehabilitation guidelines: a survey of rehabilitation programmes in the United Kingdom

Robert J P Lewin, Rosie Ingleton, Andrew J Newens, David R Thompson

Two key recommendations of recent guidelines are that cardiac rehabilitation requires the skills of a range of professionals and that the patient should receive a menu based programme after an individual assessment of needs. A previous survey of 25 cardiac rehabilitation programmes found little congruence with these guidelines and noted that physicians were particularly unlikely to be involved. We extended this inquiry to include all of the discoverable rehabilitation programmes in the United Kingdom.

Subjects, methods, and results

We identified 273 cardiac rehabilitation programmes through registers maintained by professional and charitable bodies and conducted a structured telephone interview with the “main coordinator” of 263 (96%) of these programmes between 1 April 1996 and 31 March 1997. If a respondent did not have the competence to answer a particular question the appropriate person was contacted. We asked each participant whether the rehabilitation team included anyone from a list of nine healthcare professions. To examine the use of assessment measures we asked which of a list of 15 health variables were assessed; whether this was with a validated assessment (a published scale or a standardised procedure with known properties) or an informal assessment (any other method); and whether the assessment was repeated either to check the patient’s progress or to audit outcome.

Most (184 (70%)) participants reported that five or more (mean 4.6; SD 1.6) healthcare professions were involved in the rehabilitation programme. However, only 13 (5%) teams comprised members from only one profession. Nurses were represented in 234 (89%) teams, dieticians in 220 (84%), and physiotherapists in 223 (85%). Less...
than half of the participants reported that their team included an occupational therapist (106 (40%)), a physician (103 (39%)), a psychologist (55 (21%)), a health promotion officer (43 (20%)), or a social worker or vocational counsellor (37 (14%)).

In a random sample of 120 programmes, further questions were asked about the degree to which each profession took part in the programme. For each profession previously mentioned the participant was asked whether that professional (a) gave talks to patients, or otherwise took part in the programme and (b) saw each patient individually. In only a small proportion of teams did a physician (19 teams (16%)), a psychologist (11 (9%)), a health promotion officer (7 (6%)), or a social worker or vocational counsellor (7 (6%)) give talks to patients or otherwise take part in the programme. It was rare for professions other than nurses (83 teams (69%)) and physiotherapists (79 (66%)) to see patients individually—occupational therapists (18 (15%)), dietician (7 (6%)), physician (8 (7%)), health promotion officer (1 (1%)), social worker (1 (1%)).

The number and percentage of programmes that conducted validated or informal assessments and which repeated these assessments at any time is shown in the table. Blood pressure (204 programmes (78%)) and measurement of lipid concentration (195 (74%)) were most commonly available; however, the values for these were often taken from medical records during acute admission and were therefore of limited value to rehabilitation. The assessment of blood pressure was repeated in 59% of programmes and smoking in 74% (albeit with a validated measure in only 8 (3%) centres); none of the other measures were repeated in more than half of the programmes.

### Comment

The findings confirm that adherence to the national guidelines is poor and that few physicians play an active part in rehabilitation programmes. There is little in the way of assessment (a prerequisite for a "menu driven" service) or audit; this is especially worrying as secondary prevention is an important goal of rehabilitation. Psychosocial factors were particularly poorly assessed despite the fact that it is well established that attention to these is one of the major goals of cardiac rehabilitation.

Those responsible for commissioning a cardiac rehabilitation service should ensure that it is adequately resourced to allow programmes to be evidence based, menu driven, and properly audited.

### Contributors

RJPL had the original idea for the study and coordinated the research. DRT, AJN, and RI contributed to the design of the study and to developing the telephone interview. All interviews were conducted by RL. The paper was written jointly by RJPL and DRT.

Conflict of interest: None.

Funding: No specific funding.


(Accepted 16 December 1997)

---

**Fifty years ago**

**Why I went to Oxford, not Cambridge**

In December 1947 I went to Cambridge to take an entrance examination. A week later my father—in those days colleges communicated not with the applicant but with the parent—received a letter from the senior tutor saying that I had done well in my science papers, but in the English paper I had shown no understanding of the poetry in question. I thus could not be accepted, but might resist the following year.

So in March 1948 I spent a week in Oxford taking their exams. Again my science papers, practicals, and vivas went well, and I did not have to attempt any poetry in the general paper, which contained many of the logic problems of Lewis Carroll with which I was already familiar. So I was not only accepted but was also awarded a major scholarship. Are applicants to study medicine in the 1990s required to be expert in non-scientific topics such as poetry and logic?

Jeremy Hugh Baron, honorary professorial lecturer, New York

We welcome articles up to 600 words on topics such as A memorable patient, A paper that changed my practice, My most unfortunate mistake, or any other piece conveying instruction, pathos, or humour. If possible the article should be supplied on a disk. Permission is needed from the patient or a relative if an identifiable patient is referred to. We also welcome contributions for “Endpieces,” consisting of quotations of up to 80 words (but most are considerably shorter) from any source, ancient or modern, which have appealed to the reader.