

# Double-blind placebo-controlled trial of amitriptyline among depressed patients in general practice

JULIE A. HOLLYMAN, BSc, MB, MRCPsych

P. FREELING, OBE, FRCGP

E.S. PAYKEL, MD, FRCP, FRCPE, FRCPSych

A. BHAT, MSc

P. SEDGWICK, BSc

**SUMMARY.** Depressed patients in general practice were included in a double-blind placebo-controlled six-week trial of amitriptyline (median dose 125 mg). The patients were relatively mildly ill and satisfied diagnostic criteria for depression and treatment with antidepressants in routine practice. Amitriptyline was found to be considerably superior to placebo after six weeks and significantly so as early as two weeks after the start of treatment. The effects of the antidepressant were on the core symptoms of depression, and were apparent in all but the most mildly ill patients. The findings suggest that tricyclic antidepressants are of considerable therapeutic benefit to depressed patients in general practice.

## Introduction

GENERAL practitioners see many patients whom they recognize as suffering from depressive illness: an average of more than 50 each year.<sup>1</sup> Management of emotional disorder with drugs is common among family doctors,<sup>2</sup> and in 1985 more than 7.3 million prescriptions for antidepressants were filled by retail chemists in Great Britain. Nevertheless, general practitioners have been criticized for prescribing inadequate doses of tricyclic antidepressants, for using benzodiazepines instead and for obtaining poor compliance.<sup>3,4</sup> However, tricyclic antidepressants are dangerous in overdose and have unpleasant side effects and a delayed action. While the effectiveness of these drugs over placebo has been clearly demonstrated in psychiatric inpatient and outpatient samples,<sup>5</sup> there is ample evidence that depressed patients treated in general practice show milder illnesses with less evidence of an endogenous symptom pattern than those referred to psychiatrists.<sup>3,4,6-9</sup> The assumption that antidepressants will be effective in general practice patients may not be justified.

Few placebo-controlled studies of antidepressants have been conducted in general practice. Porter<sup>10</sup> found imipramine

(75–150 mg) no more effective than placebo over a short treatment period of three weeks. He excluded patients whose mood seemed appropriate to events, who had concurrent anxiety or whose illness seemed self-limiting. Thomson and colleagues<sup>11</sup> found both amitriptyline and tryptophan to be superior to placebo in general practice patients. Studies in Australia and the USA<sup>12,13</sup> also show tricyclic antidepressants to be superior to placebo but it is unwise to extrapolate from results obtained in a different system of care.

There are alternatives to drug treatment for depressive illness but all involve considerable time on the part of patient and therapist. Blackburn and colleagues<sup>14</sup> found amitriptyline to be inferior to cognitive therapy in a non-blind comparison in a small general practice sample but Corney<sup>15</sup> found social work intervention among depressed women had only moderate effects on clinical or social outcome. It seems important, therefore, to determine the efficacy of adequate doses of amitriptyline taken by depressed patients in general practice.

## Method

Forty-one general practitioners from south west London and Surrey agreed to participate in the study.

## Patients

The general practitioners identified patients aged 18 to 64 years who were sufficiently depressed to require antidepressants and suitable for treatment in general practice. Patients were included in the study if they satisfied research diagnostic criteria<sup>16</sup> for probable or definite major, minor or intermittent depression and if their total score on the 17-item Hamilton depression scale<sup>17</sup> was at least six. Patients were excluded if they scored 27 or more on the Hamilton scale, required referral for psychiatric treatment or had been under psychiatric treatment or had received an adequate course of antidepressants in the previous three months. Other exclusion factors were a history of drug or alcohol problems or schizophrenia, significant language problems or a diagnosis of minor or intermittent depression accompanied by a diagnosis of phobic state, generalized anxiety disorder or obsessive-compulsive disorder, so as to exclude patients in whom depression was not the predominant feature of their disorder. Ethical approval was obtained and patients gave written informed consent to participating in the study.

## Study design

After identification by the general practitioners, patients were interviewed within 48 hours, at home, by a research psychiatrist (J.A.H.). She was introduced as a doctor working from the department of general practice at St George's Hospital Medical School. Participating patients were assigned, double blind, to identical tablets of amitriptyline (25 mg) or placebo by previously prepared randomization schedules without any stratification by patient characteristics but with equal numbers assigned in each group of 20 patients. The latter was not known to the study team. Medication was administered to achieve a dose of 75 mg amitriptyline daily by the end of the first week, increasing to 100 mg

J.A. Hollyman, Clinical Research Fellow, Department of Psychiatry, P. Freeling, Professor of General Practice, Department of General Practice and Primary Care, A. Bhat, Lecturer in Biostatistics, Department of Psychiatry, and P. Sedgwick, Statistical Assistant, Department of Clinical Epidemiology and Social Medicine, St George's Hospital Medical School, London; E.S. Paykel, Professor of Psychiatry, University of Cambridge.

© *Journal of the Royal College of General Practitioners*, 1988, 38, 393-397.

daily for the second week, and 125–175 mg daily, depending upon improvement, for the remaining four weeks of the study.

General practitioners were asked to prescribe no other psychotropic medication unless they felt benzodiazepines were necessary in which case they were asked to use only temazepam or lorazepam.

Further home visits were made by the research psychiatrist at one, two, four and six weeks. Symptoms were re-rated from two weeks onwards. At each visit compliance was checked and side effects recorded. Compliance was assessed by verbal enquiry, a return tablet count at each visit and by taking a blood sample for radioimmuno assay at four weeks. Compliance was judged to be satisfactory if the patients took 75% of their prescribed dosage weekly.

Patients were withdrawn from the study if they were unable to achieve a dose of 75 mg daily, if their compliance with medication was poor, if they deteriorated markedly or if they withdrew their cooperation.

Following the final visit the code was broken and the patient's general practitioner was informed which group the patient had been in and the number of tablets being taken. The research team were kept blind to this information.

Patients who dropped out at four weeks were considered to have completed the study and their rating at four weeks was taken as the final rating. This tends to reduce rather than increase the differences between the two groups.

### Measures

Data on personal history, social history and demographic characteristics were collected for all patients. The interview instrument, used in previous studies,<sup>9</sup> incorporated the present state examination,<sup>18</sup> the research diagnostic criteria,<sup>16</sup> the Hamilton rating scale for depression,<sup>17</sup> the clinical interview for depression,<sup>19</sup> the Newcastle diagnostic index<sup>20</sup> and the Raskin three area depression scale.<sup>21</sup> The interview used the present state examination questions and where these could not elicit sufficient information to rate the symptom on other instruments further questions were inserted. Self rating, visual analogue scales and the self-report 90-item Hopkins symptom check list<sup>22</sup> were also completed but will not be reported here.

All these measures were completed at the initial assessment interview. Symptoms were rated again at two, four and six weeks using the Hamilton depression scale, the clinical interview for depression, the Raskin three area depression scale and seven-point global ratings of severity and change.

### Statistics

For qualitative variables the chi-square test (with continuity correction where necessary) was used to test for differences between groups. Two-tailed t-tests were used for continuous variables after having checked distributional assumptions. A two-tailed 5% level was taken to be significant.

### Results

Two hundred and ninety patients were identified by the general practitioners and of these 178 (61%) were entered in the study — 90 in the amitriptyline group and 88 in the placebo group. These patients were identified by 33 doctors, with a mean of 5.4 patients per doctor (range 1–37). Of the remaining patients 53 were ineligible and 59 declined to enter the study after receiving a full explanation from the research interviewer.

Thirty seven patients failed to complete four weeks' treatment — 23 in the amitriptyline group, and 14 in the placebo group. This difference was not significant. Eighteen of the 23 dropouts in the amitriptyline group gave side effects, such as dry mouth,

increased appetite or weight gain, as their main reason, while eight of the 14 dropouts in the placebo group had poor compliance and three suffered worsening depression.

Of the 141 patients who completed four weeks' treatment, 15 dropped out before six weeks and their four-week results are used in the analyses of end point. Five were taking amitriptyline and 10 placebo.

At four weeks the mean dose of amitriptyline being taken was 119 mg daily and the median dose 125 mg. At six weeks the figures were the same.

Only four patients in each group took a benzodiazepine regularly for a week or more. A total of 10 patients in the drug group and nine in the placebo group were taking benzodiazepines by the end of week one, and by week six, seven in each group were doing so.

### Initial characteristics

The two groups were well matched and there was the expected predominance of female patients (Tables 1 and 2). The group who failed to complete four weeks' treatment was similar to the group who did, except that their mean Hamilton depression scale total was higher at 16.5 ( $P < 0.01$ ).

**Table 1.** Initial characteristics of patients who completed four weeks' treatment in the two groups.

	No. (%) of patients	
	Amitriptyline group (n = 67)	Placebo group (n = 74)
<i>Sex</i>		
Female	54 (80.6)	63 (85.1)
Male	13 (19.4)	11 (14.9)
<i>Social class<sup>a</sup></i>		
1/2	19 (28.8)	25 (35.2)
3	36 (54.5)	35 (49.3)
4/5	11 (16.7)	11 (15.5)
<i>Age (years)</i>		
18–34	21 (31.3)	35 (47.3)
35–54	40 (59.7)	35 (47.3)
55–64	6 (9.0)	4 (5.4)
<i>Duration of present episode</i>		
Up to 1 month	8 (11.9)	12 (16.2)
1 month to 1 year	46 (68.7)	50 (67.6)
More than 1 year	13 (19.4)	12 (16.2)
<i>Previous episode of psychiatric illness</i>		
Yes	14 (20.9)	14 (18.9)
No	53 (79.1)	60 (81.1)
<i>Diagnosis<sup>b</sup></i>		
Major depression	45 (67.2)	55 (74.3)
Minor or intermittent depression	22 (32.8)	19 (25.7)
<i>Hamilton depression scale total<sup>c</sup></i>		
6–12	20 (29.9)	20 (27.0)
13–15	20 (29.9)	27 (36.5)
16–24	27 (40.3)	27 (36.5)

n = total number of patients. <sup>a</sup>n = 66 for amitriptyline group, n = 71 for placebo group. <sup>b</sup>According to research diagnostic criteria. <sup>c</sup>17-item version used.

**Table 2.** Initial ratings of patients who completed four weeks' treatment.

	Mean score (standard deviation)	
	Amitriptyline group (n = 67)	Placebo group (n = 74)
Hamilton depression scale total	14.7 (3.8)	14.8 (3.5)
Raskin three area depression scale total	8.2 (1.4)	8.1 (1.5)
Clinical interview for depression total	22.9 (4.7)	22.3 (3.8)
Global rating of severity	3.6 (0.5)	3.6 (0.5)

n = total number of patients.

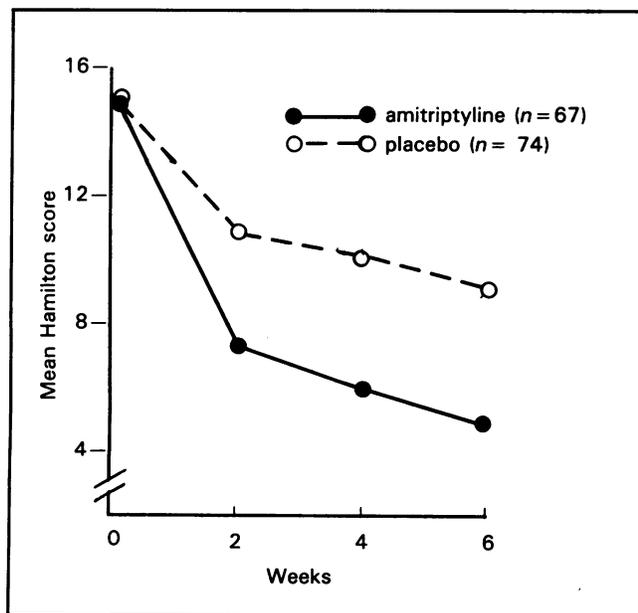
One hundred patients were major depressives, but for 45 of these (32.2% of the total) this was at the probable rather than the definite level. The 'probable' diagnoses allow patients whose symptoms have been present for only a week to be included. However, the present episode had already lasted more than a month at entry for the majority of the patients in this study.

In an earlier study<sup>9</sup> the same interview schedule was used to survey characteristics of a representative sample of patients started on a new course of antidepressants by a general practitioner in routine practice. Comparisons were made between the earlier sample whose depressive illness had been confirmed and the sample reported here. The only difference was that the patients in the present study showed a higher mean total score on the Raskin three area depression scale (8.2 versus 7.7,  $P < 0.05$ ).

### Overall outcome

Figure 1 shows the mean total scores on the Hamilton depression scale for the two groups. The difference at two weeks was 2.6 ( $P < 0.002$ ), at four weeks 2.8 ( $P < 0.004$ ) and at six weeks 3.2 ( $P < 0.001$ ).

Table 3 shows the reductions from the initial ratings at weeks two and six. Amitriptyline was significantly superior to placebo



**Figure 1.** Mean total scores on the Hamilton depression scale for the two groups over the six-week treatment period. n = number of patients in the group.

on all measures except the score for anxiety.

Table 4 shows the distribution of ratings on the seven-point scale for global change at six weeks. The effect of the drug was to increase the proportion of patients who had 'greatly improved'. The difference between the two groups was highly significant.

### Symptoms affected

Scores for individual items on the Hamilton depression scale and the clinical interview for depression were examined. At six weeks amitriptyline was superior to placebo for ratings of depressed mood, guilt, pessimism, loss of energy and fatigue, psychic anxiety, initial insomnia, delayed insomnia, depressed appearance and general somatic symptoms. At two weeks the drug was superior to placebo for depressed mood, guilt, pessimism, irritability, psychic anxiety, initial and delayed insomnia and genital symptoms of depression, such as loss of libido and disturbance of menstruation. The major benefit, particularly by week six, was in the core symptoms of depression. Improvement in insomnia and psychic anxiety might reflect either sedative or antidepressant effects but the reduction in reported loss of energy clearly showed the antidepressant effect.

### Sub-group analysis

An extensive series of analyses was undertaken to seek sub-groups showing varying differences between the effects of drug and placebo based on entry characteristics. The details are reported in full elsewhere<sup>23</sup> but are summarized here.

Using two-way analysis of covariance, no historical or demographic factors were found to be associated with differential response to amitriptyline. No differences were found between endogenous or reactive depression, whether defined by symptom pattern or occurrence of stress at onset. However, there were significant differences based on the initial severity of depression. The differences between drug and placebo were greatest in those with a diagnosis of probable or definite major depression, and patients with a score of at least 13 on the Hamilton depression scale at entry showed greater differences than those with scores of 12 or less.

### Discussion

This study shows that amitriptyline, in recommended therapeutic dosage, is effective in patients whose depressive illness is typical of that usually managed in general practice. Among the patients who completed at least four weeks of adequate medication, amitriptyline was clearly superior to placebo. Further, the symptoms which benefited included those which are typical of depression rather than anxiety and which are largely affective rather than somatic.

Most trials of new antidepressants involving hospital outpatients require a threshold score of 17 on the Hamilton depression scale. The sample studied here, with a mean score of 15, was clearly a less severe group. An earlier study<sup>9</sup> identified depressed patients whom the general practitioners intended to treat with antidepressants and these patients had significantly less severe illness, fewer depressive symptoms, shorter illnesses and less primary and endogenous depressions than an outpatient sample. The issue of severity in the mild range of depression has not been addressed in other studies. Porter<sup>10</sup> made no assessment of severity for his sample. The groups treated by Thomson and colleagues<sup>11</sup> were more depressed than those studied here; they had a mean Hamilton depression scale score of about 21 at recruitment and all but one patient

**Table 3.** Mean reductions in scores from initial ratings at two and six weeks.

	Mean reduction in score at two weeks			Mean reduction in score at six weeks		
	Amitriptyline group (n = 67)	Placebo group (n = 74)	95% confidence interval <sup>a</sup>	Amitriptyline group (n = 67)	Placebo group (n = 74)	95% confidence interval <sup>a</sup>
Hamilton depression scale total score	6.9	4.4	1.2–3.9***	9.3	6.1	1.3–5.0***
Clinical interview for depression – total depression score	6.4	4.6	0.4–3.1*	9.2	6.2	1.1–4.9**
Raskin three area depression scale total score	2.2	1.5	0.3–1.3*	3.2	2.2	0.3–1.7**
Global rating of illness	0.9	0.6	0.1–0.6*	1.6	1.0	0.3–1.0***
Clinical interview for depression – total anxiety score	2.2	1.8	–0.4–1.2	2.6	2.3	–0.6–1.2

\*  $P < 0.5$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ .  $n$  = total number of patients in group. <sup>a</sup>For differences between mean changes in scores.

**Table 4.** Distribution of ratings of global change at six weeks.

	No. (%) of patients	
	Amitriptyline group (n = 67)	Placebo group (n = 74)
Greatly improved	37 (55.2)	23 (31.1)
Moderately improved	16 (23.9)	16 (21.6)
Mildly improved	8 (11.9)	18 (24.3)
No change or worse	6 (9.0)	17 (23.0)

$n$  = total number of patients in group.  $\chi^2 = 12.06$ ,  $P = 0.007$ .

had a diagnosis of major depression. Thomson's finding of the advantage of active treatments over placebo was, therefore, extended here to include the less severely ill patients who make up the bulk of the general practitioner's work.

Given that the drug seems effective among a mildly ill sample it seems important to emphasize that 80% of the patients completed at least four weeks on recommended therapeutic dosages of amitriptyline. This was probably due in part to the frequency and duration of contact during treatment and because patients were seen after the first week, allowing encouragement to be given at a time when improvement is likely to be minimal. Nevertheless, 20% of the original sample taking amitriptyline dropped out owing to side effects. However, compliance was good on all measures for those in both groups who completed four weeks' treatment. The benefits obtained by the 80% who completed at least four weeks' active treatment seem marked enough for any general practitioner to prescribe amitriptyline with confidence and to encourage patients to tolerate the side effects.

An important finding which must help good compliance is the rapidity of response. There was a significantly greater improvement among patients taking amitriptyline than placebo at two weeks and four weeks as well as six. It is unclear whether this rapidity of response was related to the relative mildness of the illness.

This study did not determine the optimum dose of amitriptyline in general practice and it was assumed that the range used in psychiatric practice would be effective. The study design did not permit us to decide whether lower doses would work.

Many general practitioners believe that situational depression should not be medicalized. Nevertheless, the alternative treatments of depression are time consuming and, therefore, expensive to both patient and therapist. Although patients may be reluctant to take medication the findings reported here indicate that encouragement to try drugs in the first instance is

appropriate. What would be inappropriate would be for doctors to avoid patient contact because drugs had been prescribed.

## References

- Royal College of General Practitioners, Office of Population Censuses and Surveys and Department of Health and Social Security. *Morbidity statistics from general practice. Third national study, 1981–82*. London: HMSO, 1986.
- Tyrer P. Drug treatment of psychiatric patients in general practice. *Br Med J* 1978; 2: 1008–1010.
- Johnson DAW. Treatment of depression in general practice. *Br Med J* 1973; 2: 18–20.
- Johnson DAW. A study of the use of antidepressant medication in general practice. *Br J Psychiatry* 1974; 125: 186–192.
- Paykel ES, Coppen A (eds). *Psychopharmacology of affective disorders*. Oxford University Press, 1979.
- Fahy TJ. Depression in hospital and in general practice: a direct clinical comparison. *Br J Psychiatry* 1974; 124: 240–242.
- Johnson DAW, Mellor V. The severity of depression in patients treated in general practice. *J R Coll Gen Pract* 1977; 27: 419–422.
- Sireling LI, Paykel ES, Freeling P, *et al.* Depression in general practice: case thresholds and diagnosis. *Br J Psychiatry* 1985; 147: 113–119.
- Sireling LI, Freeling P, Paykel ES, Rao BM. Depression in general practice: clinical features and comparison with outpatients. *Br J Psychiatry* 1985; 147: 119–126.
- Porter AMN. Depressive illness in general practice. A demographic study and a controlled trial of imipramine. *Br Med J* 1970; 1: 773–778.
- Thomson J, Raskin H, Ashcroft GW, *et al.* The treatment of depression in general practice: a comparison of L-tryptophan, amitriptyline and a combination of L-tryptophan and amitriptyline with placebo. *Psychol Med* 1982; 12: 741–751.
- Blashki TG, Mowbray R, Davies B. Controlled trial of amitriptyline in general practice. *Br Med J* 1971; 1: 133–138.
- Rickels K, Gordon PE, Jenkins BW, *et al.* Drug treatment in depressive illness (amitriptyline and chlordiazepoxide) in two neurotic populations. *Dis Nervous System* 1970; 31: 30–42.
- Blackburn IM, Bishops S, Glen AIM, *et al.* The efficacy of cognitive therapy in depression: a treatment trial using cognitive therapy and pharmacotherapy, each alone and in combination. *Br J Psychiatry* 1981; 139: 181–189.
- Corney RH. Social work effectiveness in the management of depressed women: a clinical trial. *Psychol Med* 1981; 11: 417–423.
- Spitzer RL, Endicott J, Robins E. Research diagnostic criteria: rationale and reliability. *Arch Gen Psychiatry* 1978; 35: 773–782.
- Hamilton M. Development of a rating scale for primary depressive illness. *Br J Soc Clin Psychol* 1967; 6: 278–296.
- Wing JK, Cooper JE, Sartorius N. *The measurement and classification of psychiatric symptoms*. Cambridge University Press, 1974.
- Paykel ES. The clinical interview for depression: development, reliability and validity. *J Affective Disord* 1985; 9: 85–96.

20. Corney MWP, Roth M, Garside RF. The diagnosis of depressive syndromes and the prediction of ECT response. *Br J Psychiatry* 1965; 111: 659-674.
21. Raskin A, Shulterbrandt JG, Reatig N, McKeon JJ. Differential response to chlopromazine, imipramine, and placebo. A study of sub-groups of hospitalised depressed patients. *Arch Gen Psychiatry* 1970; 23: 164-173.
22. Lipman RS, Covi L, Shapiro AK. The Hopkins symptom checklist (HSCL): factors derived from the HSCL-90. *J Affective Disord* 1979; 1: 9-24.
23. Paykel ES, Hollyman JA, Freeling P, Sedgewick P. Predictors of therapeutic benefit from amitriptyline in mild depression: a general practice placebo-controlled trial. *J Affective Disord* 1988; 14: 83-95.

#### Acknowledgements

We thank the Medical Research Council for funding the study, Parke-Davis for supplying amitriptyline and matched placebos, the general practitioners for allowing us to study their patients and Mr N. Tait for help with the statistical analysis.

#### Address for correspondence

Professor P. Freeling, St George's Hospital Medical School, Cranmer Terrace, London SW17 0RE.



### THE ROYAL COLLEGE OF GENERAL PRACTITIONERS

## ANNUAL SYMPOSIUM

Friday 11 November 1988

at

St Ermins Hotel, Westminster, London

### 'MEETING EXPECTATIONS'

In 'White Paper' year, the 1988 Annual Symposium aims to demonstrate the College's major undertakings and also to provide a forum for national debate of the present and future state of clinical care in general practice.

There will be presentations, debate and discussion in the principal areas of:

- ★ CLINICAL STANDARDS SETTING
- ★ PEER REVIEW
- ★ EXPECTATIONS OF PRIMARY CARE
- ★ TRAINEE ASSESSMENT
- ★ CONTINUING MEDICAL EDUCATION

Come and help shape the future of your College and general practice.

Further details from: Kevin Terry (Symposium 1988), Education Division, RCGP, 14 Princes Gate, Hyde Park, London SW7 1PU.

## EDITORIAL NOTICE

#### Instructions to authors

Papers submitted for publication should not have been published before or be currently submitted to any other journal. They should be typed, on one side of the paper only, in double spacing and with generous margins. A4 is preferred paper size. The first page should contain the title, which should be as brief as possible, the name(s) of author(s), degrees, position, town of residence, and the address for correspondence.

Original articles should normally be no longer than 3000 words, arranged in the usual order of summary, introduction, method, results, discussion, references, and acknowledgements. Short reports of up to 600 words are acceptable. Letters to the Editor should be brief — 400 words maximum — and should be typed in double spacing.

Illustrations of all kinds, including photographs, are welcomed. Graphs and other line drawings need not be submitted as finished artwork — rough drawings are sufficient, provided they are clear and adequately annotated.

Metric units, SI units and the 24-hour clock are preferred. Numerals up to 10 should be spelt, 10 and over as figures. Use the approved names of drugs, though proprietary names may follow in brackets. Avoid abbreviations.

References should be in the Vancouver style as used in the *Journal*. Their accuracy must be checked before submission. The title page, figures, tables, legends and references should all be on separate sheets of paper.

Three copies of each article should be submitted, with a stamped addressed envelope, and the author should keep a copy. One copy will be returned if the paper is rejected.

All articles and letters are subject to editing. The copyright of published material is vested in the *Journal*.

Papers are refereed before acceptance.

#### Correspondence and enquiries to the Editor

All correspondence to the Editor should be addressed to: The Journal of the Royal College of General Practitioners, 8 Queen Street, Edinburgh EH2 1JE. Telephone: 031-225 7629.

#### News

Correspondence concerning the *Journal's* News pages should be addressed to: The News Editor, Royal College of General Practitioners, 14 Princes Gate, Hyde Park, London SW7 1PU. Telephone: 01-581 3232.

#### Advertising enquiries

Display and classified advertising enquiries should be addressed to: Iain McGhie and Associates, 7a Portland Road, Hythe, Kent CT21 6EG. Telephone 0303 64803/62272. Fax: 0303 62269.

#### Circulation

*The Journal of the Royal College of General Practitioners* is published monthly and is circulated to all Fellows, Members and Associates of the Royal College of General Practitioners, and to private subscribers. All subscribers receive *Policy statements* and *Reports from general practice* free of charge with the *Journal* when these are published. The annual subscription is £65 post free (£70 outside the UK, £80 by air mail).

#### Subscription enquiries

Non-members' subscription enquiries should be made to: Bailey Bros and Swinfen Ltd, Warner House, Folkestone, Kent CT19 6PH. Telephone: Folkestone (0303) 56501/8. Members' enquiries should continue to be made to: The Royal College of General Practitioners, 14 Princes Gate, Hyde Park, London SW7 1PU. Telephone: 01-581 3232.

#### Notice to readers

Opinions expressed in *The Journal of the Royal College of General Practitioners* and the supplements should not be taken to represent the policy of the Royal College of General Practitioners unless this is specifically stated.