# Recent N.H.S. prescribing trends: mainly based on prescribing during 1961 and 1962.

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Reports on Public Health ond Medical Subjects No. 110

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(mainly based on prescribing during 1961 and 1962)

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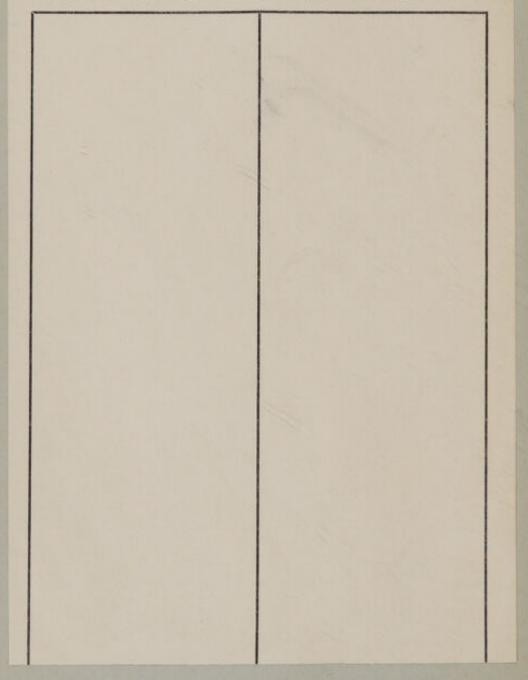
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#### MINISTRY OF HEALTH

#### REPORTS ON PUBLIC HEALTH AND MEDICAL SUBJECTS

No. 110

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(mainly based on prescribing during 1961 and 1962)

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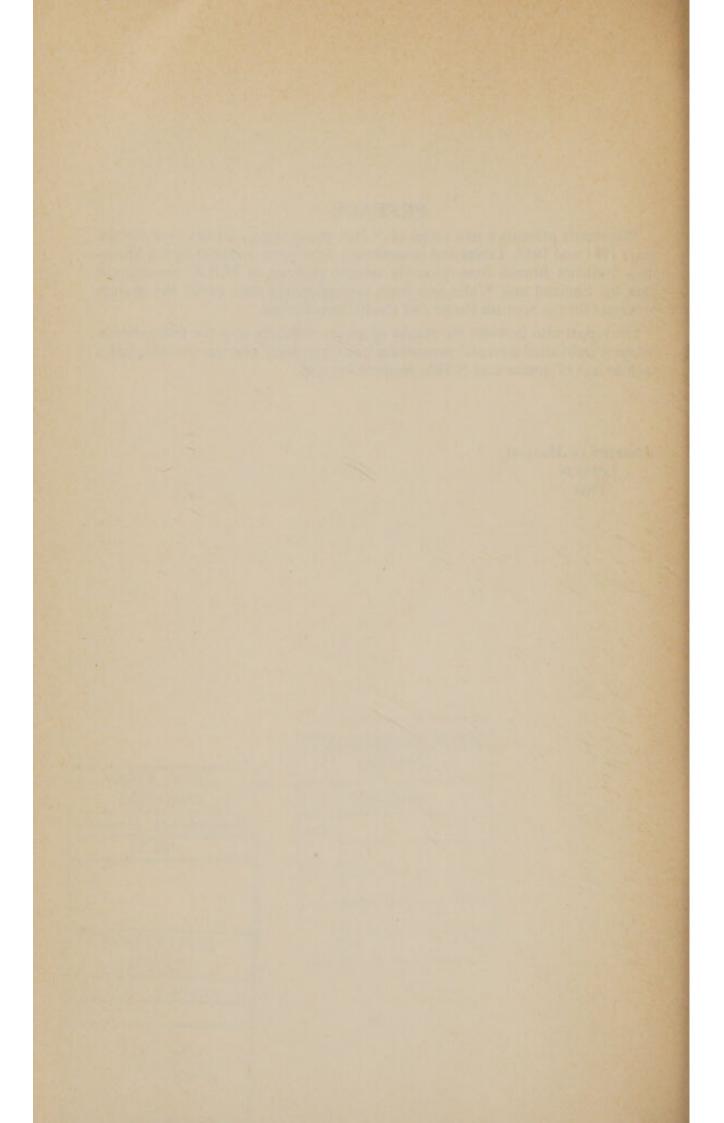
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#### PREFACE

This report presents a new series of N.H.S. prescribing statistics covering the years 1961 and 1962. Tables and commentary have been prepared by the Ministry's Statistics Branch from monthly sample analyses of N.H.S. prescription data for England and Wales and from corresponding data which the Branch processes for the Scottish Home and Health Department.

The report also includes the results of an investigation into the relationships between individual doctors' prescribing costs and their practice characteristics such as age of doctor and N.H.S. medical list size.

MINISTRY OF HEALTH LONDON 1964



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### INTRODUCTION

# PRESCRIPTION ANALYSIS—METHODOLOGY AND SOURCES OF INFORMATION

#### 1. Prescription Analysis sample. England and Wales.

At the beginning of 1961 the Ministry of Health revised the basis on which information is obtained about the kinds of drugs, dressings and appliances dispensed under the N.H.S. Pharmaceutical Services by chemist contractors (including drug stores) and appliance contractors. The information is obtained each month from every tenth prescription form (1) submitted for pricing by a representative sample of one in twenty contractors (for this purpose each branch of a multiple firm is regarded as a separate contractor). Therefore, the sample comprises approximately one in two hundred of all prescriptions dispensed. The sample of contractors is changed as often as practicable so as to achieve a wide coverage and to maintain a representative sample.

With the co-operation of the Joint Pricing Committees for England and Wales, lists identifying the sample of contractors are sent to all pricing bureaux. Contractors send all prescriptions to these bureaux, usually at monthly intervals. After pricing has been completed the bureaux staff select for analysis every tenth prescription form from the bundles submitted by the sample contractors.

Information from each prescription is transcribed on to printed coding sheets. Where possible all details are given in a coded form suitable for direct transfer to punched cards. The details given for each prescription include the following:

- (i) identity of contractor, including location;
- (ii) identity of drug—throughout this publication the term drug refers to all items ordered on prescriptions whether drugs, dressings or appliances;
- (iii) quantity dispensed—in most cases this will be identical with the quantity ordered;
- (iv) net ingredient cost of drugs—the reimbursement to the contractor for the cost of ingredients.

At the Ministry of Health these details are transferred to punched cards. A separate card is punched for each prescription. Approximately 100,000 cards each month are included in the sample.

#### 2. Prescription Analysis sample. Scotland.

From the beginning of July, 1961 the Ministry has operated a similar scheme covering Scotland on behalf of the Scottish Home and Health Department. The information has been obtained with the co-operation of the Drug Accounts Committee for Scotland. The scheme differs from that for England and Wales in the relative size of the sample. Data are obtained from one in ten prescription forms submitted for pricing by one in ten contractors instead of one in twenty contractors as in England and Wales. Therefore, the sample comprises approximately one per cent of all prescriptions dispensed.

A separate prescription is written for each item ordered and there may be more than one prescription on a form.

#### 3. Information on drug classification.

The Ministry of Health holds punched cards recording under the more important classifications, each drug dispensed under the Pharmaceutical Services (one card per drug). Each card contains the following information:

For all drugs

- (i) identity of drug;
- (ii) type of drug-non-proprietary, proprietary, dressing or appliance;
- (iii) therapeutic class—a classification grouping drugs which have similar therapeutic effects;
- (iv) medicament class—physical form—e.g. tablet, injection, ointment

For proprietary drugs only

- (v) year of introduction;
- (vi) manufacturer;
- (vii) "Cohen classification"—a classification in broad terms indicating the therapeutic value of proprietary preparations as assessed by the Standing Joint Committee on the Classification of Proprietary Preparations (Central Health Services Council, 1959).

Information about 10,000 drugs is recorded in this way. The classification cards are associated with the punched cards, containing the sample prescription data, described in sections 1 and 2, so as to provide information about N.H.S. prescribing in terms of these classifications.

### 4. Routine and other analyses from Prescription Analysis sample data.

Each month's sample data are processed so that details are provided about the total numbers of prescriptions and the totals of net ingredient cost by:

- (i) type of drug;
- (ii) therapeutic group (for this purpose certain closely related therapeutic classifications are grouped together);
- (iii) medicament class.

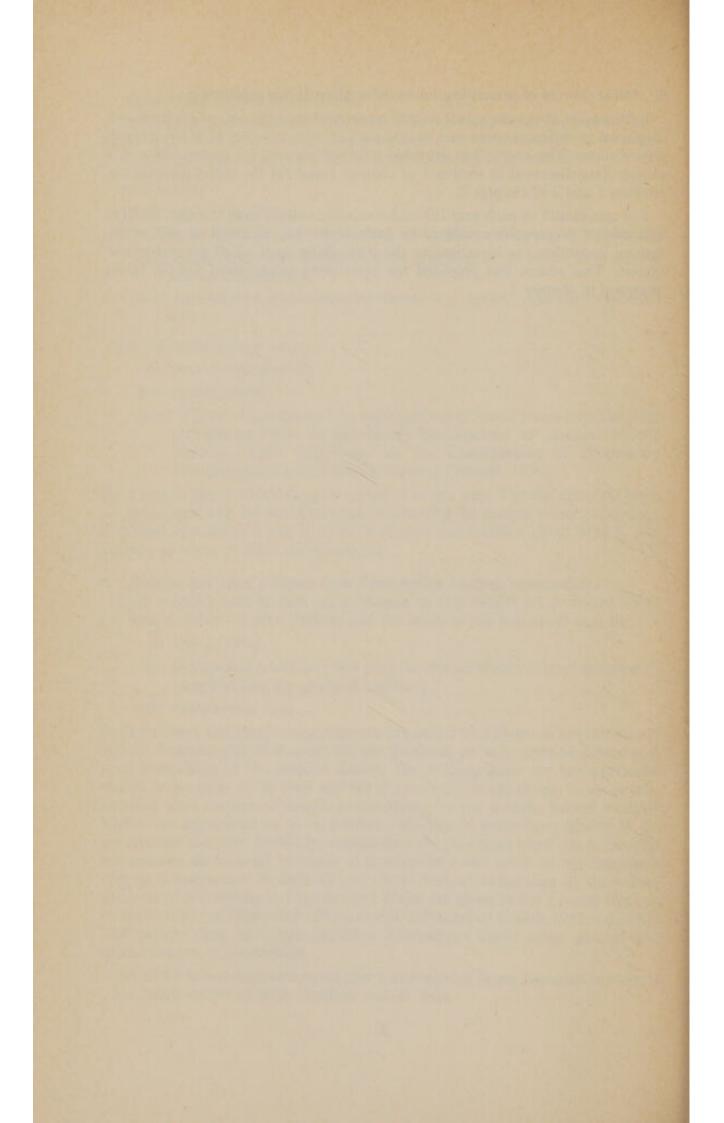
Both numbers and costs of prescriptions are raised by a factor of approximately 200 for England and Wales and 100 for Scotland, so as to provide estimates of total prescribing in the various classes. The raising factor for any particular month is the ratio of the total number of prescriptions (all drugs) to the corresponding total number of sample prescriptions for the month. Raised monthly figures are aggregated so as to provide estimates of prescribing figures in the quarter and the year. Similarly, sample data are processed quarterly to provide information about total numbers of prescriptions and totals of net ingredient cost of preparations in each Cohen class. Annual summaries of these four analyses of prescribing in England and Wales are given in the Annual Reports of the Ministry of Health for 1961 and 1962 (Ministry of Health, 1962 and 1963). The sample data have also provided information about other general and special aspects of prescribing.

All of the tables discussed in chapter 1 and most of those discussed in chapter 2 are based on Prescription Analysis sample data.

#### 5. Other sources of prescribing information given in this publication.

Information about the actual overall total numbers and costs of prescriptions dispensed in different areas can be obtained as a by product of the pricing of prescriptions. This source has provided information used for comparisons with sample data discussed in section 1 of chapter 1 and for the tables discussed in sections 1 and 2 of chapter 2.

For one month in each year for each executive council area the total number and cost of prescriptions ordered by each doctor are obtained as part of the general procedure for investigating the prescribing costs of all general practitioners. This source has provided the prescribing information for the tables discussed in chapter 3.



## Chapter 1

#### SAMPLE PRESCRIBING DATA—QUARTERLY ANALYSES BY THERAPEUTIC GROUP. ANNUAL ANALYSES BY YEAR OF INTRODUCTION

#### 1. Numbers and costs of prescriptions by therapeutic group.

Tables 1 and 2 show the estimated numbers of prescriptions and totals of net ingredient cost of prescriptions dispensed in England and Wales during each quarter of 1961 and 1962. Figures given in these two tables are shown in percentage form in tables 4 and 5. Table 3 shows the corresponding averages of net ingredient cost per prescription. Similar prescribing information for Scotland is given in tables 8–12. Scottish prescribing data are not available for the first two quarters of 1961 (see section 2 of the Introduction).

The overall total numbers of prescriptions are actual figures. All other figures are estimates obtained from the Prescription Analysis sample (see Introduction, section 4). The sample estimates of the total net ingredient costs of all prescriptions can be compared with actual figures obtained from pricing bureaux accounts. There is close agreement between these two sets of figures. The largest percentage deviation for England and Wales occurred in the last quarter of 1962 when the sample estimate and the actual cost differed by £110,000 or 0.7 per cent of the actual figure. For Scotland the percentage deviations between the sample estimates and the actual costs ranged up to 1.8 per cent. The larger percentage deviations for Scotland were expected because of the smaller total number of prescriptions in the Scottish sample.

The number of prescriptions dispensed in England and Wales during the first quarter of 1961 was high by comparison with the number dispensed in the first quarter of 1962. This arose partly as a consequence of the major influenza epidemic in the first quarter of 1961 and partly because the higher prescription charge introduced in March, 1961 had the effect of lowering all the total numbers of prescriptions dispensed in subsequent quarters. Apart from seasonal variation (discussed in section 4 of this chapter) the full two year information for England and Wales indicates other basic trends in the quarterly numbers and costs of prescriptions.

The overall total numbers of prescriptions for each of the last three quarters of 1962 are about the same as those for the corresponding quarters of 1961. Corresponding totals of net ingredient cost show differences of the order of £1 million in each quarter. One of the factors leading to increases in the total net ingredient cost of drugs is the tendency towards increases in the therapeutic group average costs per prescription (table 3). These increases are to be expected as newer and usually more expensive drugs gain in popularity at the expense of the older and usually cheaper drugs (discussed in section 3). Other factors affecting the average costs are changes in the average quantities dispensed per prescription and changes in price (discussed in section 2).

Another factor leading to increased costs is the change-over time in the percentage distributions of prescriptions for the different therapeutic groups.

By comparison with 1961, all the quarterly distributions for 1962 show tendencies towards higher percentage of prescriptions for some of the more expensive therapeutic groups, i.e. those with the higher average costs per prescription. This change was to be expected between the distributions for the first quarters of 1961 and 1962 because of the factors which affected prescribing in the first quarter of 1961 (the influenza epidemic and the lower prescription charge current for most of that quarter). The continuation of this trend during the remaining part of 1962 is an indication of more general changes in the pattern of prescriptions for some of the less expensive therapeutic groups.

It can be seen in table 4 that the larger percentage increases during 1962 were for barbiturates (3d), anti-depressives (3j), tetracyclines (5b), and corticosteroids (11b). The larger percentage decreases were for non-barbiturate hypnotics (3e), expectorants and cough suppressants (7b), topical sedatives, antiprurities (11c) and individually formulated preparations, etc. (12).

Tables 10 and 11 indicate that generally similar trends apply to Scottish prescribing between the last two quarters of 1961 and 1962. Caution is necessary when interpreting the Scottish data for some therapeutic groups because of the small numbers of sample prescriptions on which the information is based.

#### 2. Therapeutic group indexes of price and quantity per prescription.

Sample data for England and Wales have been used to obtain for about 1,200 of the more frequently prescribed drugs, quarterly estimates of the numbers of prescriptions, total quantities dispensed and the total net ingredient costs per prescription. The selected drugs accounted for approximately 85 per cent of the total net ingredient cost of all drugs dispensed in 1961 and for approximately 80 per cent of the total net ingredient cost of all drugs dispensed in 1962. Drugs introduced since the beginning of 1961 were excluded.

Quarterly therapeutic group indexes of quantity per prescription and net ingredient cost per unit quantity (price) have been calculated from these data. The indexes, which are available as yet only for the first and last quarters of 1961 and 1962, are given in tables 15 and 16. Each figure shown in these tables is related to a base of 100 for the year 1961 as a whole. The separate therapeutic group indexes were calculated by weighting the corresponding indexes for individual drugs by their net ingredient costs during the base year. Therefore, the quarterly therapeutic group indexes of quantity per prescription are estimates of the increases or decreases in the therapeutic group total net ingredient cost for 1961 as a whole if the quantities per prescription for the relevant quarter had applied throughout 1961. Similarly the price indexes are estimates of the changes in the therapeutic group net ingredient costs for 1961 if the prices for the quarter had applied throughout 1961.

The therapeutic group indexes have been weighted by their total net ingredient costs (all drugs) for 1961 so as to provide 'All groups' overall indexes of the quarterly changes in quantity per prescription and price.

As general indicators of how the therapeutic group net ingredient costs for 1961 are affected by changes in price and quantity per prescription the two indexes are limited to some extent by:

- (i) sampling error;
- (ii) the exclusion of the newest drugs and those infrequently prescribed;

(iii) the irregular influence of drugs which are subject to extreme seasonal prescribing—in general, drugs which were heavily prescribed in some quarters but not at all in others have been included for quarters in which they were prescribed, but the group vaccines and sera has been excluded entirely because of the extreme seasonal prescribing of dominant drugs in the group.

If the separate indexes are regarded as no more than indicators of the direction of changes in quantity per prescription and price and as approximate rather than precise estimates of the extent of the changes, the limitations of the data become less significant.

For purposes of comparison with tables 15 and 16, an index of quarterly changes in the total number of prescriptions in each therapeutic group is given in table 17. This index is also related to a base of 100 for the average quarterly number of prescriptions in each therapeutic group during 1961 as a whole. The all groups index is the corresponding measure of change in the total number of prescriptions dispensed.

It can be seen from table 15 that the indexes of quantity per prescription are much higher in the first quarter of 1962 than in the first quarter of 1961. For most therapeutic groups the higher indexes of quantity per prescription in the first quarter of 1962 are more than offset by lower indexes of the number of prescriptions. Comparisons between the fourth quarters of 1961 and 1962 show a continued trend towards higher quantities per prescription for most therapeutic groups. Table 17 shows that this trend is not offset generally by lower numbers of prescriptions in the fourth quarter of 1962. About the same overall numbers of prescriptions were dispensed in both quarters. The individual therapeutic group indexes of the number of prescriptions are higher in the last quarter of 1962 for some groups and lower for others. These individual group changes are more likely to be associated with the changing popularity of individual drugs, in as much as this affected the frequency of prescribing for the groups as a whole, rather than with changing quantities per prescription. The fairly general trend towards higher quantities per prescription suggests that doctors are tending to prescribe for longer periods than formerly. At least part of this change in doctors' prescribing habits probably results from the prescribing of larger quantities at any one time for chronic sick patients, following the higher prescription charge.

Table 16 shows that prices for established drugs tend to fall or to remain fairly stable. There are few price increases. Slight variations up or down between quarters may have arisen through seasonal purchasing habits for those drugs where price is dependent on the quantity purchased.

When the corresponding therapeutic group indexes of quantity per prescription, price and number of prescriptions are multiplied together, the combined therapeutic group index represents the aggregate effect of these factors on the total net ingredient cost for the group. This combined index is an incomplete measure of change in the therapeutic group total net ingredient costs between the base year and the quarter because it rests on the same percentage distribution of prescriptions for individual drugs within the group as in the base year. It does not measure, therefore, the effect on the total net ingredient costs of changes within the group in the relative frequency of prescribing of individual drugs, e.g., the effect on costs of the relative increases in the popularity of the more expensive drugs.

#### Numbers of drugs, prescriptions and costs of 'proprietary drugs', by year of introduction.

Table 18 shows the estimated numbers of proprietary drugs dispensed in England and Wales during 1961 and 1962, together with corresponding total numbers of prescriptions and their net ingredient costs. Averages of net ingredient cost per prescription are also shown. Corresponding information about the proprietary drugs dispensed in Scotland during 1962 is given in table 19.

The footnotes explain that the tables refer only to drugs prescribed by proprietary name and that no account is taken of differences in the years of introduction for particular strengths of a drug.

Table 18 shows a sharp decline in the prescribing during 1962, of drugs introduced before 1956. The number of these drugs prescribed during 1962 was 300 less than the number prescribed during 1961. The corresponding number of prescriptions fell by more than 5 million. Numbers of prescriptions for drugs introduced between 1956 and 1958 tended to decline. The sharper decline in the number of prescriptions for drugs introduced in 1958 can most likely be partly explained by the withdrawal at the end of 1961 of drugs containing thalidomide. There were striking increases in the prescribing during 1962 of drugs introduced in 1960 or later.

The increased popularity of the newer drugs and the corresponding popularity decline of the older drugs is a major factor in the rising overall total net ingredient cost of drugs. Table 18 shows that the average cost per prescription for the newer proprietary drugs is about twice that for drugs introduced before 1956.

The importance of this factor is futher emphasized by the prescribing data for England and Wales given in the annual reports of the Ministry of Health for 1961 and 1962 (Ministry of Health, 1962 and 1963). These data show a decline during 1962 in the numbers of prescriptions for the very cheap non-proprietary drugs.

In addition to providing an obvious explanation of the rising therapeutic group average costs per prescription, the increased popularity of the newer drugs provides at least a partial explanation of the changes in the therapeutic group percentage distributions of prescriptions (discussed in section 1).

Table 18 shows that the average costs per prescription for each year of introduction were higher in 1962 than in 1961. This change is probably explained by the tendency towards higher quantities per prescription in 1962, offset to some extent only, by lower prices (see section 2).

Table 19 shows that the Scottish prescribing data for 1962 exhibit a distribution of prescriptions by year of introduction similar to that for England and Wales. The range of drugs sampled was smaller. The most striking differences between the two sets of data are the lower average costs per prescription in Scotland for drugs introduced in 1957, 1959 and 1960.

### Indexes of seasonal variation in numbers and totals of net ingredient cost of prescriptions for individual therapeutic groups.

Some indications of the amount of seasonal—or, more precisely, quarterly periodic—variation in numbers and totals of net ingredient cost are given in

tables 6 and 7 for England and Wales and tables 13 and 14 for Scotland. These tables refer to prescribing in 1962 only, because of the special factors operating in the first quarter of 1961 which distorted the seasonal pattern, and because Scottish prescribing data were not available for the first half of 1961.

For groups in which there was no apparent upward or downward general trend in the quarterly figures the index was obtained as

$$100 \times \left\{ \frac{\text{quarterly number (or cost) of prescriptions}}{\text{one quarter of the corresponding annual figure}} \right\}$$

Where the existence of an underlying trend would have seriously biassed an index obtained in this way the denominator was replaced by the expected trend value, thus correcting the index for the trend effect. The trend values were calculated from data for 1962 and the last three quarters of 1961 (England and Wales) and from the data for all six quarters (Scotland).

Where the four quarterly indexes for any one group are near to 100 the seasonal variation is small. Where there is heavy seasonal prescribing for the group the index is greater than 100 and where seasonal factors operate against prescribing in the group the index is less than 100. This information is available for one year only and is subject to sampling error. The figures shown in tables 6, 7, 13 and 14 are confined, therefore, to those groups where the estimated numbers of prescriptions dispensed in each quarter are more than 200,000 in England and Wales and more than 100,000 in Scotland. Furthermore, the figures are shown only for those groups in which the index indicates considerable seasonal variation, i.e., the index for any one quarter is less than 90 or greater than 110.

Seasonal variation in net ingredient cost is in some cases a reflection of seasonal variation in numbers of prescriptions. In as much as the two indexes, number and cost, differ they reflect the influences of seasonal variations in average quantity per prescription, kinds of drugs ordered, and of price where this varies with chemists' seasonal purchasing habits. More reliable seasonal indexes should emerge as subsequent quarterly data become available.

#### 5. Summary.

- (i) Since March 1961, corresponding quarterly total numbers of prescriptions remained at about the same level, but total net ingredient costs increased by about £1 million between corresponding quarters (section 1).
- (ii) In most therapeutic groups the average net ingredient cost per prescription has risen, and there has also been an increase in the proportionate use of the more expensive of the therapeutic groups (section 1).
- (iii) Of these two factors the first is brought about partly by a trend towards higher quantities per prescription offset to some extent by reduced prices (section 2) and both factors are affected by the increased popularity of newer and more expensive drugs (section 3).
- (iv) Indexes of seasonal variability in the numbers of prescriptions and of net ingredient costs of prescriptions in the various therapeutic groups are discussed (section 4).

# Chapter 2

#### REGIONAL PRESCRIBING DIFFERENCES—ENGLAND AND WALES

#### 1. Consistency over a four year period.

Information about the total number of N.H.S. prescriptions dispensed in an executive council area and the corresponding total net ingredient cost of prescriptions is available from returns made by pricing bureaux. Information about the total number of persons on doctors' N.H.S. prescribing lists, i.e., persons for whom they may prescribe, is obtained from the executive council.

For the years 1959–1962 these totals have been summarized so as to provide corresponding totals for each of the ten standard regions of England and Wales. (For lists of executive councils included in a particular region see Appendix 2). From these totals have been calculated the three prescribing averages:

- (i) net ingredient cost per prescription—cost per prescription;
- (ii) number of prescriptions per person on doctors' prescribing lists prescription frequency;
- (iii) net ingredient cost per person on doctors' prescribing lists—cost per person.

Details are given in table 20. The consistency over time of the regional order of these averages can be seen in table 21 where the averages are ranked in descending order, i.e. the figure 1 indicates the highest average and the figure 10 the lowest. Most regions show the same or nearly the same order over the four year period for each of the three averages.

There does not seem to be any consistency between regions in their rankings by cost per prescription and prescription frequency. Wales has high rankings for both and the Midland region has low rankings for both. Some other regions have high rankings for one and low rankings for the other.

The third average, cost per person, is the product of the other two.

The averages given in table 20 illustrate, generally, differences between regions in N.H.S. prescribing by general practitioners. The figures are based on prescriptions dispensed in an area, which may differ from those prescribed in the area since prescriptions prescribed in one area may be dispensed in another. For areas as large as standard regions the net effect of such transfers between regions is likely to be small and has been neglected in the following discussion.

About one per cent of all prescriptions dispensed by chemist and appliance contractors are not prescribed by general practitioners for their prescribing patients. These include prescriptions for some expensive drugs which a general practitioner may order for patients for whom he normally dispenses drugs and prescriptions ordered by doctors in hospital clinics lacking out-patient dispensing facilities. Both these groups of prescriptions have high costs per prescription and their exclusion would reduce the national average by about one penny. All prescribing averages discussed in this chapter are slightly inflated, therefore, by the inclusion of these groups of prescriptions. In as much as they

are disproportionately distributed between regions they affect comparisons between the regional averages, but all available information suggests that their inclusion is not a major factor in the explanation of differences between these averages.

Because of the factors discussed in the preceding two paragraphs the "dispensing basis" prescribing averages for individual executive council areas are not such reliable indicators of prescribing in these areas. Nevertheless analyses of data for executive council areas between 1950 and 1960 indicated that the prescribing averages for different areas tended to maintain the same rankings, although there was a tendency during the period for extreme averages to become less marked. The prescribing averages for regions differ less than those for executive council areas because extreme averages for the latter are absorbed in the averages for the larger regional areas. The consistency of the regional rankings given in table 21 indicates that grouping by regions brings together areas which to some extent have similar prescribing averages and that prescribing is at least partly influenced therefore by factors which tend to affect the region as a whole.

#### 2. Comparisons between actual and sample costs per prescription-1961.

Table 22 shows actual numbers of prescriptions and costs per prescription in 1961 for each of the ten regions and the corresponding estimates of costs per prescription based on the prescription analysis sample of one in 200 prescriptions (see Introduction for details).

The All regions actual and sample costs per prescription differ by only 0·1 pence. Corresponding regional averages differ by amounts ranging from 0·3 pence for London and the South East region where the largest number of prescriptions was dispensed, to 2·2 pence for the Southern region, where the smallest number of prescriptions was dispensed. Actual regional differences in costs per prescription reach a maximum of 11·2 pence between Wales and the Midland region. Some of the differences between the actual regional averages are much greater than the largest difference between the corresponding regional actual and sample averages. It may be concluded therefore that the sample data can be reliably used for further investigation of the factors which gave rise to large regional differences in costs per prescription.

## 3. Sample data—analysis by therapeutic group.

In tables 23 and 24 the sample data are analysed by therapeutic group. In these and all other tables discussed in this chapter the regions are arranged in descending order of overall sample regional costs per prescription. Table 23 shows the percentage distributions of prescriptions and table 24 the averages of cost per prescription.

There does not seem to be any systematic relationship between the therapeutic group percentage distributions of prescriptions for regions with widely differing overall costs per prescription, as might be expected if differing regional costs were wholly associated with regional differences in morbidity. On the other hand table 24 shows marked evidence of an association between the therapeutic group costs per prescription and the corresponding overall averages. This association becomes evident as the table is read from left to right i.e., from regions with high overall average costs to regions with low overall average costs. Comparisons between Wales and the Midland region show that Wales has higher costs per prescription in 29 out of 33 groups. In one of the four remaining

groups the averages are equal and of the three other groups one is for dressings and appliances. Comparisons between the Northern and the East and West Riding regions show that the Northern region has the higher averages in 24 out of 33 groups. Taking all regions together Wales has the highest averages in 14 groups which for England and Wales as a whole account for approximately 50 per cent of the total number and net ingredient cost of all prescriptions dispensed during 1961. The Midland region has the lowest averages in 16 groups which account for approximately 75 per cent of the total number and 65 per cent of the total net ingredient cost of all prescriptions dispensed. In 9 of these groups which account for approximately 40 per cent of the total number and net ingredient cost of all prescriptions dispensed, Wales has the highest and the Midland region the lowest averages.

In table 25 the relative effects of regional differences in the therapeutic group percentage distributions of prescriptions and costs per prescription are shown. The sample overall regional costs per prescription are given in the column on the left. The middle column contains estimated overall averages based on a standard percentage distribution and the column on the right contains estimated overall averages based on a standard set of therapeutic group costs per prescription. In both cases the standards used are those for England and Wales as a whole.

Any one overall regional cost per prescription can be obtained as: (therapeutic group cost per prescription multiplied by the proportion of prescriptions for that group) summed over all therapeutic groups.

Example—the sample overall cost per prescription for Wales can be obtained from the columns for Wales in tables 23 and 24 as follows:

$$\frac{5.0 \times 51 + 1.8 \times 28.... \text{ and so on to } .....4.3 \times 80}{100} = 72$$

The standardized averages are obtained by keeping one of the two components standard for all regions.

Example—the average for Wales, standardized for the therapeutic group percentage distribution of prescriptions is shown in the middle column of table 25. This figure is obtained from the All regions column of table 23 and the Wales column of table 24 as follows:

$$\frac{5.2 \times 51 + 1.7 \times 28..... \text{ and so on to } .....3.5 \times 80}{100} = 71$$

Example—the average for Wales, standardized for the therapeutic group costs per prescription is shown in the right hand column of table 25. This figure is obtained from the Wales column of table 23 and the All regions column of table 24 as follows:

$$\frac{5.0 \times 42 + 1.8 \times 23..... \text{ and so on to } .....4.3 \times 89}{100} = 66$$

The range of figures in the middle column of table 25 is nearly as large as that in the column on the left. This implies that regional differences in the percentage distributions are relatively unimportant factors, generally, in the explanation of overall regional differences in costs per prescription. By contrast, the range of figures in the column on the right is very small by comparison with that in the

left hand column. This implies that regional differences in therapeutic group costs per prescription are major factors in the explanation of regional differences in the overall averages. In the Northern region the percentage distribution of prescriptions appears also to have contributed to the high overall regional cost per prescription.

By definition, the therapeutic groups are intended to bring together drugs with similar therapeutic effects, i.e., drugs which treat broadly similar kinds of illnesses. Regional differences in therapeutic costs per prescription imply, therefore, regional differences in the kinds of drugs prescribed for broadly similar illnesses and/or differences in the quantities ordered per prescription.

#### 4. Detailed analyses for regions with high and low costs per prescription.

Sample data from the two high cost regions (Wales and the Northern region) and the two low cost regions (East and West Ridings and the Midland regions) have been analysed in greater detail. This was to find whether different kinds of drugs, different quantities per prescription or both, have contributed to the more important differences in therapeutic group costs per prescription between these regions. These analyses were confined to six of the thirty three groups shown in tables 23 and 24.

The following groups were analysed:

- Group 3 (b) Sedatives, hypnotics, anticonvulsants, tranquillizers, and preparations for treating motion sickness and Parkinsonism.
- Group 4 (b) Diuretics.
- Group 5 (a) Antibiotics (acting systemically on infections).
- Group 6 (b) Erythropoietic preparations including vitamin B12.
- Group 7 (b) Bronchodilators, bronchorelaxants, expectorants, cough suppressants, and respiratory stimulants.
- Group 11 (b) Corticosteroids (acting on the skin).

The selected groups are those for which regional differences in the therapeutic group costs per prescription have most effect on differences in the overall regional costs per prescription. They account for over 40 per cent of all prescriptions dispensed in England and Wales during 1961 by chemist and appliance contractors and for nearly 50 per cent of the total net ingredient cost of all prescriptions dispensed.

### 5. Analyses by therapeutic sub-groups.

Four of the six therapeutic groups can be sub-divided into therapeutic subgroups. The remaining two groups (4 (b) and 11 (b)) are more homogeneous and therefore cannot be sub-divided in this manner.

In table 26 the prescriptions for each of the six groups are analysed by the percentage of prescriptions and cost per prescription for each therapeutic subgroup. It will be seen that generally one or both of the two high cost regions show higher percentages of prescriptions for the sub-groups with the higher costs per prescription. Thus for group 5(a), Wales and the Northern region show higher percentages of prescriptions than the other two regions for relatively expensive tetracyclines and lower percentages for relatively cheap penicillins. A similar position is evident for group 7(b) and to a lesser extent for

groups 3(b) and 6(b), the other groups where division into therapeutic subgroups is possible. Some of these percentage differences are small and some individual cases might easily be explained by sampling error, but the general tendency over all the groups is more conclusive.

It is also evident from the costs per prescription given for each sub-group that the two high cost regions show higher costs per prescription for most of the therapeutic sub-groups. Out of a total of 15 cases including the two homogeneous groups, Wales or the Northern region show the highest average in 13 cases. (Wales shows the highest average in 8 cases). The Midland region shows the lowest average in 11 cases. Thus the association between the overall regional costs per prescription and those for individual therapeutic groups, discussed in section 3 of this chapter, seems to hold good when some of these groups are divided into their component sub-groups.

#### 6. Analyses by proprietary drugs within therapeutic sub-groups.

In table 27 the percentages of prescriptions for proprietary drugs are given for each of the major therapeutic sub-groups, together with corresponding costs per prescription for these groups of 'proprietary' prescriptions.

It is evident that higher percentages of 'proprietary' prescriptions for nearly all the groups were ordered by doctors in the high cost regions. As in table 26 it may be concluded that the major interest is in the consistency of this trend rather than in the figures for any one group. It is especially interesting to note the consistency of the trend for the tetracycline group. This is a group in which all drugs are available only in proprietary form even though they may be prescribed by non-proprietary name. In this case the percentage differences in table 27 indicate possibly, a greater preference for the use of the proprietary names in the two high cost regions. Whilst such a preference if any might be confined to those groups where the non-proprietary name would necessarily result in the dispensing of a proprietary drug, it might also be a more general explanation of the higher percentages of 'proprietary' prescriptions in the high cost regions.

From the right half of the table it can be seen that the two high cost regions continue to show higher costs per prescription for most groups and sub-groups. Thus the trend shown by the figures in the right half of table 26 is present in table 27 although the latter table is concerned with smaller ranges of drugs because of the exclusion of non-proprietary drugs and others prescribed by non-proprietary names. Tables 26 and 27 show that the high cost regions differ from the low cost regions in the relative frequencies of prescriptions for drugs in certain sub-groups and in the relative frequencies of prescriptions for proprietary drugs. Table 27 also shows that despite the elimination of these factors the high cost regions show higher costs per prescription for most groups and sub-groups. This must be due to differences in the relative frequencies of the kinds of proprietary drugs prescribed in most groups and sub-groups and/or differences in the quantities ordered.

#### 7. Individual drugs.

Regional differences in the average quantities ordered per prescription were investigated by a regional analysis of costs per prescription for 120 leading (1)

<sup>(1)</sup> Leading drugs—those with the largest sample totals of net ingredient cost in the 4 regions, i.e. those on which most money was spent.

drugs from the six therapeutic groups listed in section 4. Drugs from all the major sub-groups were included. For this investigation the average net ingredient cost per prescription was assumed to be directly proportional to the average quantity ordered per prescription.

The averages for each drug were ranked in descending order of cost per prescription. If there were no general tendency for one region to differ from another in average quantities ordered per prescription it would be expected that each region would be represented by about 25 per cent of the top ranks, 25 per cent of the second ranks and so on. In fact the Midland region showed 48 per cent of the bottom ranks as against 8 per cent of the top ranks. This region was also somewhat under-represented in the second ranks and over-represented in the third ranks. These divergences from expectation were extremely significant and indicated that quantities ordered per prescription were generally low for these six groups as a whole, by comparison with those for the other three regions. The tendency for low quantities per prescription in the Midland region was evident in some degree for each of the six therapeutic groups.

Separate analyses of the data from the 120 drugs did not suggest any significant overall trends in the order of regional quantities per prescription for the other three regions (two high cost and one low cost), although the other low cost region, East and West Ridings, had low quantities per prescription for groups 5(a) and 11(b) and high quantities per prescription for group 3(b).

#### 8. Summary and conclusions.

- (i) Differences between regions in the three prescribing averages cost per person, prescription frequency and cost per prescription have been fairly consistent over time (section 1).
- (ii) Prescription analysis sample data were used to investigate regional differences in costs per prescription for 1961. It was found that regions with high overall costs per prescription tended to have high costs per prescription for many therapeutic groups. This implied differences between regions in the kinds of drugs ordered and/or in the quantities ordered per prescription (section 3).
- (iii) Sample data were further analysed for two high cost and two low cost regions (section 4).
- (iv) Higher percentages of prescriptions for drugs in the more expensive therapeutic sub-groups were shown by the two high cost regions (section 5).
- (v) Higher percentages of 'proprietary' prescriptions for the major therapeutic sub-groups were shown by the two high cost regions (section 6).
- (vi) For the relatively homogeneous groups of proprietary drugs within therapeutic sub-groups, costs per prescription remained higher in the two high cost regions (section 6).
- (vii) Quantities ordered per prescription were found to be low in the Midland region but no significant trend was established for the other three regions (section 7).

It can be concluded from the above summary that a major factor associated with different therapeutic costs per prescription for the high and low cost

regions is to be found in the different kinds of drugs prescribed for similar therapeutic treatments. However, part of the difference can be found in smaller average quantities prescribed in the Midland region.

In the absence of information about the diagnoses which gave rise to the prescribing in these four regions, the conclusions discussed above cannot be further investigated. However, since the conclusions about regional differences in net ingredient cost per prescription hold good over seemingly unrelated therapeutic groups and sub-groups there is some support for the inference that these differences are partly associated with factors other than morbidity. Morbidity factors might well partly explain these differences since the therapeutic groups and sub-groups are too widely drawn to distinguish between different illnesses, between mild and severe cases of the same kinds of illness, and between short term and chronic sickness. The suggestion given here is that morbidity is unlikely to be the only reason.

Comparisons have been made between the regional ranking orders of cost per prescription and prescription frequency (see table 21) on the one hand and general morbidity indicators on the other, e.g., the locally adjusted death rates given in The Registrar General's Statistical Review of England and Wales for 1960 (General Register Office, 1962) and the rates of sickness spells per 1,000 males at risk from data given in the Digest of Statistics Analysing Certificates of Incapacity for the years 1955/56 and 1957/58 (Ministry of Pensions and National Insurance, 1958 and 1961).

The regional ranking orders for death rates (1960), rates of sickness spells for influenza and bronchitis (1957/58), and for all causes (1955/56) were more closely associated with the regional ranking order for prescription frequency than with that for cost per prescription. This accords with the general expectation that these kinds of differences are more likely to result in regional differences in the frequency of prescribing rather than in cost per prescription.

The age/sex distributions of the home population at June, 1961 did not exhibit any obvious factors which were confined to both high cost regions or to both low cost regions. Contributory factors to regional differences in costs per prescription might possibly be found if regional variations were established in the following:

- (a) the participation in the regional health problems of the Hospital Service including consultant advice;
- (b) relevant doctors' practice characteristics (see also Chapter 3);
- (c) local customs including patient demands, and self medication;
- (d) the influence on doctors' prescribing of medical and prescribing literature including drug manufacturers' advertisements.

## Chapter 3

# VARIATION IN THE PRESCRIBING AVERAGES FOR DIFFERENT GROUPS OF GENERAL PRACTITIONERS.

### 1. Doctor sample (1)

Certain information is available for one month in each year about the prescribing of an individual doctor for persons living in each of the executive council areas served by the doctor. This information comprises the total number and cost (2) of prescriptions issued by each doctor, and the number of persons on the doctor's N.H.S. prescribing list. These data enable the three averages cost per person, cost per prescription, and prescription frequency (number of prescriptions per person) to be calculated for individual doctors or groups of doctors.

Approximately 53 per cent of all doctors in England and Wales were in contract with more than one executive council in July, 1959. It follows that prescribing data for any one executive council area may well not cover the complete practice of about half the doctors whose prescribing figures are analysed <sup>(3)</sup>. The month in which the detailed examination of doctors' prescribing is undertaken varies from year to year and from area to area. The areas examined in a particular month, however, are grouped geographically. So if a doctor's prescribing for part of his practice is examined in a particular month it is likely, although not certain, that his prescribing for the rest of his practice will be examined then also. For most doctors therefore one can obtain prescribing data for the whole of the practice for a particular month.

The three averages described above have been analysed for a sample of 3,150 doctors. This information covers prescribing between September, 1958 and July, 1959. For some month in this period the prescribing of doctors in every executive council area in the country was examined. From the list of all 138 executive council areas a sample was selected systematically, a greater chance of selection being accorded to areas where large numbers of doctors had the bulk of their practice. Twenty-nine areas were chosen. The method of selecting these areas ensured that they covered the range of variation of all areas as regards counties and county boroughs, expenditure on medicine, month of investigation and geographical location. The sample of doctors consisted of those doctors whose primary contract was with the chosen executive council (this implied in most cases that the bulk of their practices lay in that executive council area). The greater probability of selecting areas where large numbers of doctors had their practices was counterbalanced by selecting only a proportion of the doctors from those areas. Thus all doctors in England and Wales ultimately had about the same chance of being included in the sample.

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<sup>(1)</sup> In this chapter the word 'doctor' is used for general medical practitioner.

<sup>(2)</sup> Costs comprise total payments to chemists. These are greater than the total net ingredient costs discussed in chapters 1 and 2.

<sup>(3)</sup> From 1st April, 1963 the prescribing statistics for an individual doctor cover the entire practice whether or not this is situated in more than one executive council area.

For each of the doctors in the sample, information was collected about the number and cost of prescriptions issued and about the total number of persons on the doctor's National Health Service prescribing list. The data included prescribing information from all councils with which the doctor was in contract, so that information about the complete practice could be assembled and compared. In many cases this involved no more than the whole of a doctor's prescribing in a particular month but sometimes the information about his prescribing in an adjacent area was not available for the same month as for the bulk of the practice. In these cases the aggregation of a doctor's prescribing data so as to provide complete information about the practice as a whole may have involved some element of seasonal variation in the aggregated figures; but this additional variation in a small part of the doctor's practice was assumed to be unimportant compared with the advantage of having complete practice information. In any event, it is impossible to avoid the effects of seasonal variation when comparing prescribing figures from different practices for which the prescribing investigations were held in some month between September, 1958 and July, 1959. These effects would be most marked for comparisons between areas; the data therefore have not been used in establishing areal differences. There is no reason to suppose that seasonal effects have significantly influenced any conclusions drawn from these data about different groups of doctors.

The Ministry of Health has certain information about the practice characteristics of any doctor providing medical services under the National Health Service. Information about the doctor's age, the overall N.H.S. practice size, whether a full or restricted range of medical services is provided, and whether the doctor has any assistants, has been linked with the prescribing information obtained from the doctor sample.

Since the averages, cost per prescription and prescription frequency, do not appear to be associated for individual doctors, they have, in general, been examined separately.

#### 2. Age of doctor.

The sample doctors are grouped in table 28 according to age. For single-handed doctors, the three prescribing averages, cost per person, cost per prescription and prescription frequency, are given for each age group. For doctors in partnerships, figures of cost per prescription only are given for individual age groups. A preliminary analysis of the data supported the assumption that prescription frequency and cost per person are unreliable when related to the individual lists of partnership doctors since partnership doctors tend to prescribe for patients on their partners' lists. It is necessary therefore to look at prescribing averages per person for partnerships as a whole.

For both prescription frequency and cost per prescription the table shows that partnership doctors have about the same overall averages as single-handed doctors.

For single-handed doctors the table shows marked variation in the prescribing averages for different age groups. The difference in costs per person between the youngest and oldest age groups is about one shilling. Both cost per prescription and prescription frequency contribute to these differences in costs per person for different age groups. It may be that variation by age of doctor in the averages per person (but not per prescription) is partly affected by the possible association

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between age of doctor and inflation of prescribing lists, e.g., if older doctors tend to have a greater degree of list inflation than younger doctors. However, there is no available information on this point.

For doctors in partnerships the trend towards lower costs per prescription is seen only for doctors aged 56 and over. It is possible that any trend towards lower costs per prescription with increasing age of partnership doctor is masked because of the factors connected with partnership practices, e.g., consultations between partners and prescribing for patients on other partners' lists.

The prescribing averages, by age of doctor, can be further analysed for each of the 29 executive council areas included in the sample. (Doctors are allocated to individual areas on the basis of their primary contract). When partnership doctors with their unreliable averages are excluded there are not enough sample single-handed doctors in some areas to give meaningful comparisons between age groups of doctors for those particular areas. The areas have been grouped therefore, into high, medium and low cost according to the areal average cost per person. Prescribing averages have been calculated for separate age groups of doctors for each group of areas. These averages are given in table 29, Cost per prescription and prescription frequency show a general but not completely regular decline with increasing age of doctor. Cost per person shows an almost completely regular decline with increasing age of doctor in each of the three groups of areas. The difference between the oldest and youngest doctors for each group is about the same as that between the oldest and youngest groups when all single-handed doctors in the sample are taken together. Cost per person of the voungest doctors in the group of low cost areas is about the same as that of the oldest doctors in the group of high cost areas. These comparisons point to a variation in prescribing costs associated with the age of the doctor, being superimposed upon an areal difference independently caused. The difference in cost per person of about fourpence a year for each year of age of a doctor, is small compared with the variation between areal averages. The weighted average ages of single-handed doctors in the 29 sample executive council areas varied by about 16 years (the average age for each area was calculated by weighting each doctor's age by the numbers of persons on his N.H.S. prescribing list). Differences between the weighted average ages imply differences between the areal costs per person of up to 64 pence in one year on account of age. In fact, the difference in areal prescribing costs between the highest and the lowest executive council areas was several times larger than this. This connection between a doctor's age and his prescribing costs accords with the findings of the Douglas Committee on prescribing costs in Scotland which showed that young doctors prescribe at a higher level than old doctors in the same area (Department of Health for Scotland, 1959).

#### 3. Size of N.H.S. medical list.

Overall prescribing averages for 852 of the 1,023 single-handed doctors included in the sample are shown in table 30 according to the total number of persons on the doctor's N.H.S. medical list. (The total number on a doctor's list may be greater than the number on his N.H.S. prescribing list because the total list may include some persons for whom the doctor himself may dispense drugs) (1). Total list is used in this analysis as a measure of the total work in the

<sup>(1)</sup> Generally, persons living in rural areas more than a certain distance from a chemist's shop.

doctor's N.H.S. general practice. Information is shown only for single-handed doctors because prescribing data for individual doctors in partnership is not reliable when related to individual lists. Ninety-five single-handed doctors in the sample have been excluded because they employed qualified medical assistants and although the principal was responsible for his assistant's prescribing, the work load was shared. The analysis also excludes 76 single-handed doctors in the sample whose lists were open only to a limited number or group of persons, or who did not provide the full range of medical services.

In tables 28 and 29 it was shown that both prescription frequency and cost per prescription are lower for doctors in the older age groups. Table 30 shows that prescription frequency is higher for the smaller list size groups, but that costs per prescription are not associated significantly with list size. In this sample the older doctors tend to have the smaller lists but the weighted average ages of doctors in each list size group are fairly close, ranging from 48 years for doctors in the largest list size group to 56 years for doctors in the smallest list size group. Obviously the age differences between the list size groups do not contribute significantly to the prescription frequency differences between these groups. More detailed analyses of the data have shown that the age effect for both prescription frequency and cost per prescription is present for doctors within each list size group, although some of the trends tend to be blurred by small numbers of sample doctors within particular list size-age groups.

Martin (1957) found that list sizes were smaller in more prosperous areas: small list sizes and prosperity were associated with high costs per prescription but not with high prescription frequencies. In another analysis Dunlop, Inch and Paul (1953) found in 1951 in Scotland a high correlation between average list size in an area and the frequency of issuing prescription forms. This would make one expect low prescription frequencies for small list sizes. The analysis given in this publication is at odds with these two investigations.

The differences between these results and those quoted by Martin may be due in some measure to differences in approach. Martin considered only average list sizes for medium sized county borough executive council areas. The present analysis includes administrative county executive council areas.

#### 4. Male and female doctors.

The prescribing averages in one month for male and for female doctors in the sample of 3,150 doctors are as follows:

			Number of doctors	Average cost per person	Average cost per prescription	Average prescription frequency
All		****	3,150	32.3	79.4	0.41
Male	-	****	2,889	32.0	79.4	0.40
Female	200	1000	261	37.2	78.9	0.47

The separate figures for single-handed and partnership doctors are similar. The difference in costs per person between male and female doctors is due to a difference in prescription frequencies; costs per prescription are similar for both

groups of doctors. If this difference had been solely because women doctors were on average younger, one would have expected a difference in costs per prescription. A more likely explanation is that women doctors have a high proportion of women and children in their practices. There is some evidence that women patients have a higher consultation rate than do male patients. This has come out in studies by questionnaire of patients, such as the Survey of Sickness, carried out by the Central Office of Information 1943 to 1952 (Stocks, 1949; Logan and Brooke, 1957) and the more recent survey of a working class housing estate (Gray and Cartwright, 1954). Studies of general practitioners' records by the General Register Office have shown a higher consultation rate for women patients (Logan and Cushion, 1958). Both for single-handed and for partnership doctors these female doctors have N.H.S. prescribing lists on average about a third smaller than male doctors. The greater frequency of prescribing by female doctors may be connected with smaller average lists, but is not completely accounted for by this factor.

#### 5. Inconclusive analyses.

These sample data have been examined in various other ways to test certain hypotheses as follows:

- (i) a comparison has been made between the prescribing averages of doctors who themselves dispense drugs and the prescribing averages of doctors who do not;
- (ii) the prescribing of doctors in each age group who began their careers before and after certain dates has been compared to see whether new arrivals in high or low cost areas prescribed at different levels from other doctors in those areas;
- (iii) the influence on doctors' prescribing of their medical schools (in as far as these can be ascertained from the Medical Register and Medical Directory) has also been investigated.

None of these analyses revealed any significant differences.

#### 6. Summary.

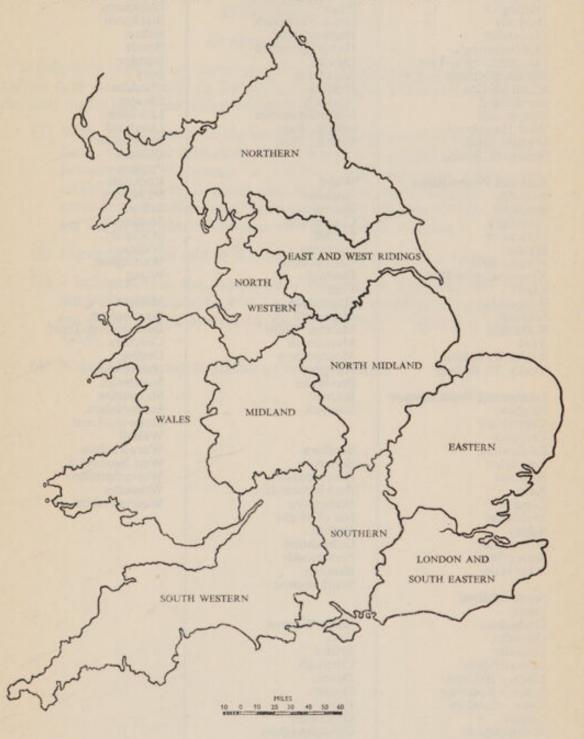
- (i) The sources and limitations of available information about the prescribing of individual doctors were discussed (section 1).
- (ii) Both prescription frequency and cost per prescription were lower for older doctors than for younger doctors (section 2).
- (iii) Prescription frequency was lower for doctors with larger lists (section 3).
- (iv) Prescription frequency was higher for female doctors (section 4).
- (v) No significant variation in prescribing characteristics could be established in relation to self-dispensing, period of practice in the area, or medical school of doctor (section 5).

#### APPENDIX 1

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# REGIONAL MAP ENGLAND and WALES



#### APPENDIX 2

#### Prescription Analysis-England and Wales

Key to Regions

Northern
Carlisle
Cumberland
Darlington
Durham
Gateshead
Middlesbrough
Newcastle-upon-Tyne
Northumberland
South Shields
Sunderland
Tynemouth
West Hartlepool
Westmorland
Yorks, N. Riding

East and West Ridings

Barnsley
Bradford
Dewsbury
Doncaster
Halifax
Huddersfield
Kingston-upon-Hull
Leeds
Rotherham
Sheffield
Wakefield
York
Yorks, E. Riding
Yorks, W. Riding

London and South Eastern

Brighton Canterbury Croydon Eastbourne East Ham Hastings Kent London Middlesex Surrey Sussex East Sussex West West Ham

North Midland

Derby
Derbyshire
Grimsby
Leicester
Leicestershire
Lincs.—Holland
Lincs.—Kesteven
Lincs.—Lindsey
Lincoln
Northampton
Northamptonshire
Nottingham
Nottingham
Nottinghamshire
Rutland
Soke of Peterborough

Eastern
Bedfordshire
Cambridgeshire
Essex
Great Yarmouth
Hertfordshire
Huntingdonshire
Ipswich
Isle of Ely
Norfolk
Norwich
Southend-on-Sea
Suffolk, East
Suffolk, West

Wales Anglesey Brecon Caernarvon Cardiff Cardigan Carmarthen Denbigh Flint Glamorgan Merioneth Merthyr Tydfil Monmouth Montgomery Newport Pembroke Radnor Swansea

Southern
Berkshire
Bournemouth
Buckinghamshire
Hampshire
Isle of Wight
Oxford
Oxfordshire
Portsmouth
Reading
Southampton

South Western
Bath
Bristol
Cornwall
Devon
Dorset
Exeter
Gloucester
Gloucestershire
Isle of Scilly
Plymouth
Somerset
Wiltshire

North Western Barrow-in-Furness Birkenhead Blackburn Blackpool Bolton Bootle Burnley Bury Cheshire Chester Lancashire Liverpool Manchester Oldham Preston Rochdale St. Helens Salford Southport Stockport Wallasey Warrington Wigan

Midland Birmingham Burton-upon-Trent Coventry Dudley Herefordshire Smethwick Shropshire Staffordshire Stoke-on-Trent Walsall Warwickshire West Bromwich Wolverhampton Worcester Worcestershire

#### APPENDIX 3

#### Explanatory Notes

The following explanatory notes are relevant to tables based on Prescription Analysis data (see footnotes to the tables concerned). Additional footnotes to individual tables have been added where necessary.

- (1) With the exception of the overall total numbers of prescriptions, all data shown are estimated from samples of approximately 1 in 200 prescriptions dispensed in chemist and appliance contractors' establishments in England and Wales and approximately 1 in 100 prescriptions in Scotland. The overall total numbers of prescriptions are the actual totals dispensed in the periods concerned.
- (2) Figures may not add to the totals shown because of rounding.
- (3) indicates that the measure for the item is less than half of the integral unit employed in the table, e.g., if numbers of prescriptions are shown to the nearest 10,000 the symbol "-" indicates less than 5,000.
- (4) N.A. indicates not available or not applicable.

Millions

Sample prescribing data: Numbers of prescriptions in each quarter: By therapeutic group

									11	1961			61	962		
	Therapeutic group	group						1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
All gr	All groups		:	1	:			. 63-41	47.94	43.96	49.71	55.72	47.70	43.35	49.86	
1. F. E. E.	Preparations acting on the alimentary system  (a) Antacids  (b) Gastro-intestinal sedatives	1.5	11	11	::	11			1.55	1.52	1.57	43	1.56	1.54	1.73	1 (9)
	Other preparations affecting digestive ; Tonics Laxatives and purgatives	sses :::	111	1::	:::	111		1.26	0.78	0.62	0 48	10.89	0.96	0.93	0000	ලලල
26	(f) Preparations acting locally on the rectum	:	:	:	:	1			0.21	0.23	0.23	0.23	0-23	0.23	0-23	9
4 7.39	parations acting on the cardiovascular s Anti-hypertensives Other preparations: Cardiac drugs, sclerosing agents	ystem vasodilators,	vasocc	vasoconstrictors,		anticoagulants	lants and	0.61 2.04	0-59	0.59	0-59	0.58	0-62	0.62	0.63	2 (a) (b)
# #3€959F8€€€	Preparations acting on the nervous system  Addictive analgesics  Specific analgesics  C) Specific analgesics  C) Specific analgesics  C) Shocher analgesics  C) Shocher analgesics  C) Tranquillisers  R) Anti-emetic preparations  R) Anti-depressives  C) Anti-depres	tive ingr	redient	8 8	ess and		Boomism	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	00000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0000000000000000000000000000000000000	40.00 40.00	0.0000000000000000000000000000000000000	0.51 0.65 0.51 0.51 0.51 0.51 0.51	26260000000000000000000000000000000000	@888888888
4	Preparations acting on the genito-urinary system  (a) Sex hormones	 urinary	 system	111	111	111	111	0.94	0.59	0.59	0.51 0.84 0.54	0.53 0.75 0.57	0.58 0.83 0.52	0.57 0.81 0.51	0.53 0.78 0.52	<del>3</del> 63

~ 666688	92030	380	00	6	10	= @@	(c)	22	13
2.45 1.95 0.47 0.11 0.38	0.27 1.28 0.42 0.38	5-12	1-03	0.34	0.71	0.48	1-47	1-45	19-1
0.38 0.38	25-1-0 25-0 25-0 25-0 25-0 25-0 25-0 25-0 25	2:27 1:14	1-15	0-29	0.74	0.50	1-47	1-22	1.60
0.00 0.00 0.30 0.30 0.30 0.30 0.30	0.39	3.34	1.42	0.35	88.0	0.50	09-1	1.35	1.60
2.29 0.59 0.13 0.36	0.25 1.37 0.42 0.36	7.04	1.13	0.44	0.82	0.49	19-1	1.67	1.74
2.34 0.53 0.13 0.36	0.27 1.21 1.31 0.48 0.37	522	1.02	0.34	69-0	0.48	1.59	17-11	1.67
0.58 0.43 0.43 0.11 0.37	0.25 1-24 0.47 0.36	1.27 2.30 1.06	1.22	0.33	0.74	0.56	1.64	1-48	1-64
21-0-1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	0.45 0.45 0.35 0.35 0.35	3.56	1.48	96.0	0.84	0.52	1.78	1.46	1-68
2.78 0.73 0.11 0.44	24-1-1-2-2-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	2.81 14.72 14.12	1.13	0.46	0.92	0.54	2.09	2-19	2.29
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rtemically on infections	metabolism and nutrition hypoglycaemics eparations including parenteral vittons including multivitamin preparations systemic treatment	is the respiratory system of locally on the upper respiratory cough suppressants relaxants and other preparations aff	-		n the eye (including anaesthetics and	acting on the skin siticides and other specific anti-ineffect ons: Sedatives, antineurities, keratolytic	and formation formation for the same	parations (including individually form	
ting systemically on infections es	Tecting metabolism and nutrition other hypoglycaemics etic preparations including parenteral vit eparations including multivitamin prepar olds for systemic treatment nit-thyroid and other preparations affecti	ting on the respiratory system ns acting locally on the upper respiratory sts and cough suppressants ators, relaxants and other preparations aff	-		cting on the eye (including anaesthetics and	ations acting on the skin s, parasiticides and other specific anti-ineffect eroids parations. Sedatives antiorurities keratolytic	in	nd preparations (including individually form re)	
ions acting systemically on infections cillins acythese acythres are antibiotics and sera are anti-infective agents	ions affecting metabolism and nutrition ilin and other hypoglycaemics fropoietic preparations including parenteral vit- min preparations including multivitamin prepar- ticosteroids for systemic treatment roid, anti-thyroid and other preparations affecti	tions acting on the respiratory system parations acting locally on the upper respiratory ectorants and cough suppressants achodilators, relaxants and other preparations aff	-		tions acting on the eye (including anaesthetics and	preparations acting on the skin ngicides, parasiticides and other specific anti-ineffect retreosteroids	intiseptics	frugs and preparations (including individually form	
ically on infection	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics (b) Erythropoletic preparations including parenteral vitamin I(c) Vitamin preparations including multivitamin preparations (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparations affecting met	7. Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory tract  (b) Expectorants and cough suppressants  (c) Bronchodilators, relaxants and other preparations affectin	-	"" "	Preparations acting on the eye (including anaesthetics and vas	Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti-ineffective  (b) Corticosteroids  (c) Other preparations: Sedatives antiorurities keratolytics are		tions (including individually fo	***

See footnotes in appendix 3.

England and Wales

£ million

Sample prescribing data: Totals of net ingredient cost of prescriptions in each quarter: By therapeutic group

			I B					1961	. 19			19	7961		
	Therapeutic group						1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
All 6	All groups				-	1	15-69	13-13	12-46	14-15	90-91	14-35	13-33	15-28	
1. P	Preparations acting on the alimentary systems (a) Antacids				:	310	0.24	0.22	0.21	0-23	0-24	0.24	0.24	0.27	1 (a)
e			10.00		:	1	0.00	0.00	0.05	40.0	0.05	0.05	0-04	0.00	<u>(a)</u>
9.3	d) Tonics	: :			::	: :	0.13	80-0	90.0	90.0	0.08	0.01	90-0	90-0	9
95	Laxatives and purgatives Preparations acting locally on the rectum				11	11	0.07	0.09	0.03	0.07	0.08	0.08	0.08	0.08	9S
2. P	Preparations acting on the cardiovascular system						170	0.43	0-43	0.43	0-46	0.51	0.54	0.58	2 (a)
38	(b) Other presentatives: Cardiac drugs, vasodilators, vasoconstrictors, and sclerosing agents.	vasocon	strictors		anticoagulants	pur :	0.39	0.36	0.38	0.44	0.48	0.44	0.44	0-49	(p)
3. P	Preparations acting on the nervous system								0 00	000	0 0		000	000	
58	(a) Addictive analgesics (b) Antipyretic analgesics				::	: :			0.45	0.00	399	3.5	0.03	0.55	993
93	c) Specific analgesics	gredient)			: :	1 1			0.38	99	0 45	44	00	0-42	<u>@</u>
.05					:	:			11.0	0.10	0.00	90.0	90-0	09-0	<u>e</u> e
5.36	g) Anti-emetic preparations		olahanas	or and Da		: : :	120	0.10	0.12	0-12	0.10	0-12	0.12	0.10	98
308	Stimulants and appetite suppressants		d .			:			0.33	0.28	0.31	0-36	0.33	0.29	es
೦೮	<ul> <li>Anti-depressives</li> <li>Local anesthetics, analgesics, counter irritants and miscellaneous</li> </ul>	miscella			11	1 1			0.14	0.15	0.16	0.15	0.13	0.15	8
4 Teps	Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Diuretics  (c) All other preparations acting on the genito-urinary system	system.	111		111	1.1.1	0.49	0.49 0.49 0.18	0-18 0-50 0-11	0-16 0-45 0-10	0.43	0.10	0.18	0.10	9 9 9 9

366666	<u>@</u> @@@@@	366	00	6	01	38	(0)	12	13
222224	0.26 0.26 0.37 0.11	0-15 0-56 0-44	0.21	90-0	0-12	01-0	0.22	0-12	0-63
-40000			0	0	0	00	0	0	0
0.00	0.37 0.26 0.39 0.12	0-12 0-25 0-37	0.25	0.05	0-12	0-10	0.22	0-11	99-0
0.00000	00000 00000 00000 00000	0-17	0.32	90-0	0.14	01.0	0.22	0.12	0-65
1.39 0.47 0.028 0.03 0.36	0.36 0.30 0.37 0.09	0.20	0.23	80-0	0.12	0-11	0-23	0.14	0.64
1-1-0-0-0 1-1-0-0-0-0 1-1-0-0-0-0-0-0-0-	0.36 0.23 0.24 0.08	0.16 0.53 0.34	0.20	90-0	0.11	0-10	0.22	0.14	0-63
0.35 0.35 0.35 0.35 0.33	220000 220248	0-13 0-24 0-30	0.24	0-02	0.12	0-11	0.21	0-12	99-0
99777	0.33 0.25 0.05 0.09	0-19 0-35 0-29	0.32	90-0	0.13	0-10	0-23	0-11	19-0
-245 000 000 000 000 000 000	0.32	0.26 0.80 0.32	0.23	0.07	0-13	0.59	0.25	0.15	0.74
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infect	and numics nicloding ng mul treatme	ory syn	tions	1	cluding	skin	, anup	duding	hosiery
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s ra tive ag	r hyporepara repara rions i for sys	ing local	g allerg	in the c	on the	acting	ons: Se	paratio	, fruss
cting s incs initiotic mides and se i-infec	flecting od othe vietic p vrepara eroids anti-th	cting ones act	ffecting	cting o	octing o	s, part eroids	paratic	nd pre	diances
Penicillins Tetracyclines Tetracyclines Sulphonamides Vaccines and sera Other anti-infective agents	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics  (b) Erythropoietic preparations including parenteral vitamin  (c) Vitamin preparations including multivitamin preparation  (d) Corticosteroids for systemic treatment  (e) Thyroid, anti-thyroid and other preparations affecting m	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory trac  (b) Expectorants and cough suppressants  (c) Bronchodilators, relaxants and other preparations affecti	Preparations affecting allergic reactions	Preparations acting on the ear	Preparations acting on the eye (including anaesthetics and va	Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti-infective  (b) Corticosteroids	ner prepar antiseptics	Other drugs and preparations (including individually formula elsewhere)	Dressings, appliances, trusses and hosiery
December 2	HOARE	Pro Ex Br.	epara	epara	epara	EE C		her	sssin
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vi.	* #35333	4. 4.660	8. Pr	9. Pr	10. Pr	# #336	(e)	12. 00	13. Dr

See footnotes in appendix 3.

Pence

Sample prescribing data: Averages of net ingredient cost per prescription in each quarter: By therapeutic group

162   174   176   178   188   195		101 108 110 114		31 33 33 33 35 36 37 37	ups 59 66 68 68 68 69 72 74 74	1961 1962	353535 3 9 953535395993	4th quarter 22 22 22 22 22 22 22 22 22 22 22 22 22	2 - 0 0	8	93 22 22 22 25 25 25 25 25 25 25 25 25 25	4th quarter 58 88 133 151 171 178 178 178 178 178 178 178 178 17			152 222 223 223 223 223 223 223 223 223 2		khing a state of the state of t	and Parities and Parities	kness :::::::::::::::::::::::::::::::::::	elline sk	vassoc view mg mot misc dimisc	group ::::::::::::::::::::::::::::::::::::	mm	rheragy y system y sy	ng di ng di ng di novas nous s nous s nous s sics,	latives lative	on th   purgs  chings  chi	acting ac	tions tacids service partitions at the partitions of the partition	para para para para para para para para	FEEFEEFE TEE TEEFEEFE
Preparations actine on the genito-urinary system	Anti-byertenesives curdiovascular system  Anti-byertenesives  Anti-byertenesives  Anti-byertenesives  Anti-dynamic and gents  Anti-covalisations acting on the cardiovascular system  Addictive analgesics  Anti-dynamic and gents  Addictive analgesics  Anti-dynamic analgesics  Anti-dynamic analgesics  Anti-dynamic analgesics  Anti-dynamic analgesics  Anti-dynamic analgesics  Addictive analgesics  Anti-dynamic analgesics  Addictive analgesics  Addictive analgesics  Anti-dynamic analgesics  Anti-	Laratives and purgatives   Laratives are cardiovascular system   Local anaesthetics, analgesics, counter irritants and miscellaneous   Laratives   Lara	Context	Other preparations acting to the rectum sparations acting locally on the rectum setting digestive processes contributions acting locally on the rectum cardiovascular system baraticos acting locally on the rectum cardiovascular system cardiova	Antactions acting on the alimentary system         31         33         35         37         37           Antactions acting to the rectum         20         20         20         17         20         22         22         22         22         22         22         22         23	Therapeutic group	353	134	181	133	138	128	131	131	523		11	11	11	11	arations acting on the genito-urinary system Sex hormones Diuretics	:::	rstem	ary s	to-uri	e geni	on th	nones	Sex hormones Diuretics	Sex	T. B. D.
67 73 74 80 81		Long	Unice preparations are cting digestive processes	Observe detecting digestive processes	rocesses	Therapeutic group   Therapeutic group   1st   2nd   3rd   4th   1st   2nd   3rd   3rd   4th   1st   2nd   3rd   3rd   3rd   4th   1st   2nd   3rd   3rd		82	80	833	883	74	75	730	67	::	11	; ;	11	1 3	: :	: :	tum	he rec	y on	locall	purg	s and	parati		<u>e</u> E
Laxatives and purgatives 28   30   31   31   33	Preparations acting locally on the rectum 67 73 74 80 81 80		Other preparations affecting digestive processes 95 98 104 101 108 110 114	Other preparations affecting digestive processes 95 98 104 101 108 110 114	rocesses	Therapeutic group   Therapeutic group   1st   2nd   3rd   4th   1st   2nd   3rd   3rd   4th   1st   2nd   3rd   3rd   4th   1st   2nd   3rd   3rd   3rd   4th   1st   2nd   3rd   3rd   4th   1st   2nd   3rd   4th   4th		52	25	24	23	23	23	24	22			:		:	:		:			******	***	****	nics		2
oups	tids							4th quarter	3rd quarter		quari	4th quarter	3rd quarter	2nd quarter	1st quarter							group	rentic	Theray				-			1

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	297 191 39 241	331 45 211 62	6233	48	42	37	53 109 35	61	00 00
3	252 262 272 283 283 283 283 283 283 283 283 283 28	28 44 88 88 88 88	23	46	43	38	49 109 33	20	06
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0.000	281 206 49 57 233	313 445 61 61	25.5	52	39	37	31	19	96
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ons acting systemically on		ons affecting metabolism and nu lin and other hypoglycaemics bropoietic preparations includin nin preparations including mul icosteroids for systemic treatme oid, anti-thyroid and other pre	ous acting on the respiratory systrations acting locally on the up- ctorants and cough suppressant chodilators, relaxants and other	ous affecting allergic reactions		ons acting on the eye (including	reparations acting on the skin ticides, parasiticides and other i icosteroids	ags and preparations (including	, appliances, trusses and hosi
parations acting systemically on	agents	parations affecting metabolism and nutrition Insulin and other hypoglycaemics Erythropoietic preparations including parenteral vitamin Vitamin preparations including multivitamin preparations Corticosteroids for systemic treatment Thyroid, anti-thyroid and other preparations affecting me	parations acting on the respiratory system Preparations acting locally on the upper respiratory tract Expectorants and cough suppressants Bronchodilators, relaxants and other preparations affectin	parations affecting allergic reactions		parations acting on the eye (including	preparations acting on the skin Fungicides, parasiticides and other specific anti-infective Corticosteroids Other preparations: Sedatives, antiprurities, keratolytics antiseptics	oer drugs and preparations (including elsewhere)	ssings, appliances, trusses and hosi
ep		Preparations affecting metabolism and nutrition     Insulin and other hypoglycaemics     Erythropoietic preparations including par (c) Vitamin preparations including multivitan (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparati	Preparations acting on the respiratory system     (a) Preparations acting locally on the upper     (b) Expectorants and cough suppressants     (c) Bronchodilators, relaxants and other pri	. Preparations affecting allergic reactions	Preparations acting on the ear	10. Preparations acting on the eye (including anaesthetics and va-	(a) Fungicides, parasiticides and other: (b) Corticosteroids	preparations (incl.	13. Dressings, appliances, trusses and hosiery

See footnotes in appendix 3.

Sample prescribing data: Percentages of prescriptions in each quarter: By therapeutic group

Table 4							-	Per	cent
		1961	19			19	1962		
Therapeutic group	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
All groups	0.001	0-001	0.001	0-001	0- 001	0-001	0-001	100 -0	
Preparations acting on the alimentary system     (a) Antacids     (b) Gastro-intestinal scalatives     (c) Other preparations affecting digestive processes     (d) Tonics     (e) Laxatives and purgatives     (f) Preparations acting locally on the rectum	0-0000 0-≈004	2-0-20 2-0-0-0-4	20	24452-6	9-00 9-9994	2	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	210000 200000	383838
2. Preparations acting on the cardiovascular system  (a) Anti-hypertensives  (b) Other preparations: Cardiac drugs, vasodilators, vasoconstrictors, anticoagulants and sclerosing agents	3.2	3.5	1.3	1.2	3.6	1.3	4.0	3.9	2 (a) (b)
3. Preparations acting on the nervous system  (a) Addictive analgesics (b) Antipyretic analgesics (c) Specific analgesics (d) Barbiturates (unadmixed and if principal active ingredient) (e) Non-barbiturate hypnotics (f) Tranquillisers (g) Anti-emetic preparations (h) Anticonvulsants and other preparations for treating motion sickness and Parkinsonism (i) Stimulants and appetite suppressants (ii) Anti-depressives (k) Local anaestbetics, analgesics, counter irritants and miscellaneous	0∞-0-400400 4-446444644	0r-r-w00w0u	00-8-40-400 00-4006-400	00-0-00-000 4000000000000000	0r-r-000000 44400045080	07-8-40-4-4 \$-\$\$\$\$\$\$	01480-8170 80004489-1-21	07-7-8004-12 00-7-80004-10	35050535038
4. Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Diurctics  (c) All other preparations acting on the genito-urinary system	0 4-0	464	225	07.7	000	22.	200		350

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440400 -00-40	0-13-0 6-4-6	555 555	2.7	0.7	1.7	- E	3.4	2.8	3.7
400000 400000	0-12-0 6-6-6-6	2403	3.0	2.0	8-1	3.2	3.3	2.8	3.4
×4-400	04400 88866	200 40 40 40	2-0	8.0	1.5	0.0	2.9	3.0	3.1
46-400 00-400	04400 04400	2654	2.1	2.0	7_	24.0	3.5	3.4	4.6
47-700 0700758	044-0 686-8	604 604	2 .8	2.0	1.1	2.9	3.7	3.4	3.7
40-000 400400	04400 v. 4 & 4 &	940	3-1	8-0	1.8	2.8	3.7	3-1	3.5
40-400	937-00	4 5 C C	8-1	2-0	7.1	2.1	3.3	3.5	3.6
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cally o	oglycar ations includi stemic and oth	cally o	gic rea	ear	eye (in	es and	edative	ons (in	ses and
Preparations acting systemically on infections  a) Penicillins  b) Tetracyclines  c) Other antibiotics  c) Sulphonamides  e) Vaccines and sera  f) Other anti-infective agents	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics  (b) Erythropoietic preparations including parenteral vitamin B12  (c) Vitamin preparations including multivitamin preparations with mineral  (d) Corticosteroids for systemic treatment  (d) Corticosteroids anti-thyroid and other preparations affecting metabolism and	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory tract  (b) Expectorants and cough suppressants  (c) Bronchodilators, relaxants and other preparations affectin	Preparations affecting allergic reactions	Preparations acting on the ear	Preparations acting on the eye (including anaesthetics and vaso	Topical preparations acting on the skin (a) Fungicides, parasiticides and other specific anti-infective a (b) Corticosteroids	Other preparations: Sedatives, antiprurities, keratolytics at antisepties	Other drugs and preparations (including individually formulal	s, truss
acting ns lines ntibioti amides amides and s	affection of proper proper teroids	acting ions at rants a dilator	affection	acting	acting	ration les, par teroids	ptics	and pr	pliance
arations acting systemicillins  Tetracyclines Other antibiotics Sulphonamides Vaccines and sera Other anti-infectiv	rations rythrop rythrop itamin orticos hyroid,	retions reparat xpector roncho	rations	rations	rations	cal preparations active Fungicides, parasitic Corticosteroids	Wher prepar antiseptics	drugs and	ngs, ap
Prepar COSCOT Par COSCOT Par	SESSE HOKEE	Prepar (3) BB	Prepar	Prepar	Prepar	Topics	9	Other	13. Dressings, appliances, trusses and hosiery
uń.	9	7.	00	6	10.	11		12.	13.

See footnotes in appendix 3.

England and Wales

Sample prescribing data: Percentages of net ingredient cost in each quarter: By therapeutic group

						115	1961			19	1962		
	Therapeutic group				1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
4	All groups	1			0- 001	0-001	0-001	0-001	0.001	100 -0	100 -0	100 -0	
-	Preparations acting on the alimentary system  (a) Antacids (b) Gastro-intestinal sedatives (c) Tother preparations affecting digestive processes (d) Tonics (e) Laxatives and purgatives (f) Preparations acting locally on the rectum	111111	111111	111111	-0-000 200844	-0-0-0 &	-0-0-0 -4-6-0-6	-0-0-0 604460	-0-000 224282	-0-10 000 000 000 000 000	*:0-0-0 *:0400	-0-000 84440 <i>&amp;</i>	_ 
ri	Preparations acting on the cardiovascular system  (a) Anti-hypertensives (b) Other preparations: Cardiac drugs, vasodilators, vasoconstrasclerosing agents	rictors,	anticoag	gulants and	2.5	3.3	3.5	3.1	3.0	3.5	3.3	3.8	2 (a) (b)
ಣೆ	Preparations acting on the nervous system  (a) Addictive analgesics (b) Antipyretic analgesics (c) Specific analgesics (d) Barbiturates (unadmixed and if principal active ingredient (e) Non-barbiturate hypnotics (f) Tranquillisers (g) Anti-emetic preparations (h) Anticonvulsants and other preparations for treating motic (i) Stimulants and appetite suppressants (i) Anti-depressives (i) Anti-depressives (k) Local anaesthetics, analgesics, counter irritants and misce	0	and Paritititi	Kinsonism	00000000000000000000000000000000000000	0800000-00- 0800040464-	0www040-44-	0w440-44-	0w4404-40000	00000040-00- 000004000000	04ww0x0-0w- w0w-x-0xx00	0w44040	# ####################################
4	Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Diuretics  (c) All other preparations acting on the genito-urinary system	111	:::	111	31.2	1384	140 200	3.2	1.70	1.3	440	1.2 0.4 0.7	<u>\$</u>

See footnotes in appendix 3.

#### **England and Wales**

## Sample prescribing data: Indexes of quarterly variation in numbers of prescriptions: By therapeutic group

Table 6 Indexes

	E HE HALL STREET	No. of the last	19	962	
	Therapeutic group	1st quarter	2nd quarter	3rd quarter	4th quarter
1(d)	Tonics	131	98	83	88
3(i)	Stimulants and appetite suppressants	101	112	99	88
5(a)	Penicillins	125	91	77	107
5(b)	Tetracyclines	141	86	67	108
5(c)	Other antibiotics	121	93	80	104
5(d)	Sulphonamides	121	94	81	104
6(c)	Vitamin preparations, including multi- vitamin preparations with mineral salts	121	98	83	99
7(a)	Preparations acting locally on upper res-	S. Marie	-	2000	
	piratory tract	131	102	71	97
7(b) 8 9	Expectorants and cough suppressants	159	75	51	115
8	Preparations affecting allergic reactions	95	120	97	87
9	Preparations acting on the ear	125	99	81	95
10	Preparations acting on the eye	104	112	94	91
12	Other drugs and preparations (including individually formulated preparations not		0.2	07	100
	classified elsewhere)	111	93	87	108

See footnotes in appendix 3.

Indexes less than 100 indicate that seasonal variation operated against prescribing in the group. Indexes greater than 100 indicate that seasonal factors operated in favour of prescribing in the group (see also section 2, chapter 1.)

**England and Wales** 

# Sample prescribing data: Indexes of quarterly variation in net ingredient cost: By therapeutic group

Table 7 Indexes

			19	62	
	Therapeutic group	1st quarter	2nd quarter	3rd quarter	4th quarter
1(b)	Gastro-intestinal sedatives	98	98	87	117
1(d)	Tonics	126	98	86	90
3(k)	Local anaesthetics, analgesics, counter				
200	irritants and miscellaneous	109	102	89	100
5(a)	Penicillins	121	93	78	108
5(b)	Tetracyclines	147	85	64	106
5(c)	Other antibiotics	120	90	81	107
5(d)	Sulphonamides	116	97	84	103
6(c)	Vitamin preparations, including multi- vitamin preparations with mineral salts	117	95	84	104
7(a)	Preparations acting locally on the upper			5-00	1 11
	respiratory tract	126	104	74	97
7(b)	Expectorants and cough suppressants	153	77	53	118
8 9	Preparations affecting allergic reactions	91	126	99	85
9	Preparations acting on the ear	124	97	81	98
10	Preparations acting on the eye	98	114	94	94
10 12	Other drugs and preparations (including individually formulated preparations not classified elsewhere)	107	98	88	106

See footnotes to table 6.

Thousands

Sample prescribing data: Numbers of prescriptions in each quarter: By therapeutic group

	61	1961		19	1962		
Therapeutic group	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
All groups	4,554	5,195	5,692	5,083	4,569	5,339	
C	143	146	155	32	30	165	<u>3</u>
	8426	24 62	28.82	3322	37.8	25 14 24 24 27	9999
	1 19	3 69	69	76	99	8	2 (a)
	181	208	205	202	185	214	(9)
ous system	25	243	386	23	303	355	3(8)
Specific analgesics Barbiturates (unadmixed and if principal active ingredient)	42 42 42 42 42 42 42 42 42 42 42 42 42 4	465	208	8228	478	484	@@@
Tranquillisers	157	161	162	17 17	164	165	669
(i) Anti-depressives (j) Anti-depressives	4422	48.5	50 148 33	02 172 36 83	140 38 67	132 37 82	3668
and miscenancous	-	70		3			(m)

( <del>6</del> 99	39090E	<u>ම</u> ළිවුලි ම	7 (a) (b)	∞ o₁	10 (9)	(c) 12
326	317 186 187 197 49	38 129 39 50	142 441 128	37	109	232
34 86	230 113 145 11 48	37 190 104 37 49	108	122	98 171 158	971
284	258 139 160 13 50	30 220 129 43	135 272	35	115	234
55 76 43	330 197 209 12 46	39 156 39 49	178 523 126	38	108	302
37	249 139 178 8 43	37 132 42 51	138 435 129	32	104	261
39 20 80	206 88 147 10 143	65 <u>11</u> 6 4	190	130	113 70 138	220
(a) Sex hormones	(a) Penicillins (b) Tetracyclines (c) Other antibiotics (d) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents	nin B12 ons with mineral sa ing metabolism au	 he respirato	Preparations affecting allergic reactions	Preparations acting on the eye (including anaesthetics and vasoconstrictors)  Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti-infective agents  (b) Corticosteroids  (c) Other preparations: Sedatives, antiprurities, keratolytics and antisepties	Other drugs and preparations (including individually formulated preparations not classified elsewhere)
4	võ		7.	œ 6	10.	12.

13. Dressings, appliances, trusses and hosiery See footnotes in appendix 3.

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Sample prescribing data: Totals of net ingredient cost of prescription in each quarter: By therapeutic group

		1961	51		19	1962		
	Therapeutic group	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
-	All groups	1,309	1,504	1,666	1,536	1,428	1,655	
al.	-	23	26	26	27	28	31	1 (a)
	(b) Gastro-intestinal sedatives	20	23	21	25.	23.0	25	වල
	Tonics	8	9	7	9	5	2	9
	(f) Preparations acting locally on the rectum	9	8 2	0 %	10	8	16	<b>⊕</b>
2	Preparations acting on the cardiovascular system	-		1		7		
	(a) Anti-hypertensives (b) Other preparations: Cardiac drine vascodilators vasconstrictors anti-	42	46	49	55	59	19	2 (a)
	coagulants and sclerosing agents	43	51	49	55	52	99	(P)
3	Prep							
		40	4 5	4 9	200	5,5	4.0	(a)
		3.5	33	35	35	33.5	35	99
	(d) Barbiturates (unadmixed and if principal active ingredient)	54	8	29	65	8	3	9
	: ::	13	12	7	00	7	00	(e)
		63	99	0,0	76	11	71	93
	(g) Anti-emetic preparations (h) Anticonvulsants and other preparations for treating motion sickness and	11	11		,	11	OI	(8)
		22	22	22	23	20	22	3
	appetite suppressants	33	29	32	41	32	30	33
	(J) Anti-depressives	17	31	32	33	3/	33	96

4. Preparations acting on the genito-urinary system         1.5         1.5         1.5         1.6         4.9         4.0         5.2         4.0         4.0         5.0         7.0         4.0         4.0         4.0         5.0         7.0         4.0         5.0         7.0         4.0         4.0         5.0         7.0         4.0         4.0         5.0         7.0         4.0         4.0         5.0         7.0         4.0         4.0         5.0         7.0         4.0         4.0         5.0         7.0         4.0         5.0         7.0         7.0         7.0         7.0         7	13 4 (a) 11 (c) (b)	132 198 49 35 35 59 59 59 59 59	33 44 5 34 24 4 34 24 4 37 24 4 38 26 6	14 7 (a) 61 (b) 42 (c)	23 8 8 9	18 10	14 11 (a) 84 (b) (b) (c)	12
(a) Sex hormones (b) Diruction (c) All other preparations acting on the genito-urinary system (c) All other preparations acting on the genito-urinary system (c) All other preparations acting on the genito-urinary system (c) All other preparations acting on the genito-urinary system (d) Preparations acting systemically on infections (e) Proparations acting on the spiral of the systemically on infections (e) Vaccines and seria (f) Sulphomanides (g) Vaccines and seria (g) Sulphomanides (g) Vaccines and seria (g) Accines and seria (g) Accines and seria (g) Preparations including parenteral vitamin B12 (g) Main in preparations including parenteral vitamin preparations including parenteral vitamin preparations including parenteral vitamin preparations including nultivitamin preparations affecting metabolism and other preparations affecting the respiratory system (e) Thyroid, anti-thyroid and other preparations affecting the respiratory system (g) Preparations acting on the expiratory system (g) Preparations acting on the eye (including anaesthetics and vasoconstrictors) (g) Preparations acting on the eye (including anaesthetics and vasoconstrictors) (g) Corticosteroids (g) Preparations acting on the skin (g) Preparations acting on the skin (g) Corticosteroids (g) Preparations (including individually formulated preparations (g) Corticosteroids (g) Preparations (g) Preparation	9 43	102 123 123 123 123 124 135 144 155 165 165 165 165 165 165 165 165 165	25 23 23 13	11 28 35	25	16	44 4	50
(a) Sex hormones (b) Diureties (c) Diureties (c) All other preparations acting on the genito-urinary system (d) Cubre preparations acting on the genito-urinary system (e) Diureties (f) Cubre article systemically on infections (g) Penicillins (g) Penicillins (g) Cubre antibiotics (g) Cu	15 46 10	112 165 43 31 2 48	35 33 39 13	13 37 35	26	17	12 74 26	27
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito-urinary system (d) All other preparations acting on the genito-urinary system (e) Preparations acting systemically on infections (d) Tetracyclines (e) Other anti-infective agents (d) Sulphonamides (e) Vaccines and sera (e) Vaccines and sera (f) Other anti-infective agents (g) Erythropicity preparations including parenteral vitamin B12 (g) Franchinopolicity preparations including parenteral vitamin B12 (g) Vitamin preparations including parenteral vitamin B12 (g) Vitamin preparations including parenteral vitamin B12 (g) Vitamin preparations including multivitamin preparations with mineral salts (d) Corticosteroids for systemic treamont (e) Thyroid, anti-thyroid and other preparations affecting metabolism and nutrition (a) Preparations acting on the respiratory system (a) Preparations acting coult with the system of the system on the ear of the system of the skin of the system on the ear of the skin of the preparations acting on the skin of the skin o	54=	143 237 62 62 37 1	377 277 6	17 71 36	8 8	91	110 %	33
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito-urinary system  Preparations acting systemically on infections (d) Penicillins (e) Vaccines and sera (f) Other anti-infective agents (e) Vaccines and sera (f) Other anti-infective agents (g) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents (g) Sulphonamides (g) Vaccines and sera (g) Culphonamides (g) Manin preparations including parenteral vitamin B12 (g) Vitamin preparations including parenteral vitamin B12 (g) Vitamin preparations including multivitamin preparations with mineral salts (d) Corticosteroids for systemic freatment (e) Thyroid, anti-thyroid and other preparations affecting metabolism and nutrition  Preparations acting on the respiratory system (a) Preparations acting on the ear (b) Expectorants and cought suppressants (c) Bronchodilators, relaxants and other preparations affecting the respiratory system (a) Preparations acting on the ear (b) Corticosteroids (c) Corticosteroids (d) Fungicides, parasiticides and other specific anti-infective agents (h) Corticosteroids (e) Corticosteroids (f) Cother preparations: Sedatives, antiprurities, keratolytics and antiseptics (g) Other drugs and preparations (including individually formulated preparations (n) Cother drugs and preparations (including individually formulated preparations (n) Cother drugs and preparations (including individually formulated preparations	115	172 174 174 173 33 45 47 47	8 33334	13 58 38	6 22	15	115	56
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito-urinary system.  Preparations acting systemically on infections (a) Penicillins (b) Petrocyclines (c) Other antibiotics (d) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents (g) Munitim and other hypoglycaemics (g) Erythropoietic preparations including parenteral vitamin B12 (c) Vitamin preparations including multivitamin preparations with mineral (c) Vitamin preparations including multivitamin preparations with mineral (e) Thyroid, anti-thyroid and other preparations affecting the respiratory system (e) Thyroid, anti-thyroid and other preparations affecting the respirations acting on the respiratory system (b) Experimentations acting on the ear (c) Bronectorants and cough suppressants (c) Bronectorants and cough suppressants (c) Bronectorants and cough suppressants (d) Experations acting on the ear (e) Preparations acting on the eye (including anaesthetics and vasoconstrictors)  Topical preparations acting on the skin (a) Function (b) Corticosteroids (c) Other preparations: Sedatives, antipruritics, keratolytics and antise including surgical antiseptics  Other drugs and preparations (including individually formulated preparations not deasified elsewhere)  (c) Other drugs and preparations (including individually formulated preparations are an antiseptics  Other drugs and preparations (including individually formulated preparations)	52 6	881 24 24 24	26 26 33 6	24 24 30	24	16	44 %	21 7
			Insulin and other hypoglycaemics  Erythropoietic preparations including parenteral vitamin B12  Vitamin preparations including multivitamin preparations with mineral Corticosteroids for systemic treatment  Thyroid, anti-thyroid and other preparations affecting metabolism nutrition	respiratory tract eparations affecting the respirate	: :	Preparations acting on the eye (including anaesthetics and vasoconstrictors)	r specific anti-infective agents ntipruritics, keratolytics and	Other drugs and preparations (including individually not classified elsewhere)

See footnotes in appendix 3.

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Sample prescribing data: Averages of net ingredient cost per prescription in each quarter: By therapeutic group

Table 10			n				Pence
	19	1961	al	19	1962		
Therapeutic group	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
All groups 1. Preparations acting on the alimentary system	69	70	7.0	73	75	74	
: :	8%	43	36	38	38	946	1 (9)
		104	30	109	34	30	ତ୍ର
11		30	828	31	8 33	32	<u>e</u>
he cardiovascular	777		071	100			
Other preparations: Cardiac drugs, vasodilators, vasoconstrictors, an coagulants and sclerosing agents	100	1/1	168	6/1	215	234	2 (a)
3 Pronarations acting on the nervone system			9	0	10	60	(0)
		37	34	33	35	36	3 (a)
Specific analgesics  Specific analgesics  Barbiturates (unadmixed and if principal active ingredient)		38	44.	133	117	129	©©€
	198	88	102	102	588	103	€ (§
eating motion sickness a		116	103	106	108	105	(8)
	119	200	105	1111	112	120	€€
r irritants and miscell		33	34	33	332	210	98

# (3)	\$ \$\end{align*}	<u>මෙමම</u> ම	7 (a) (b)	» o	10	E	12	13
26 129 70	100 255 174 45 74 290	333 42 45 206 65	23 33 78	47	39	46 117 39	26	126
2242	107 266 171 47 245	340 41 49 180 65	34 67	49	38	113	27	129
123 56	284 185 29 231	313 38 42 215 59	23 33 75	47	35	113	28	133
55 141 60	105 288 203 203 26 26 26 268	301 40 42 184 44	23 33 69	43	35	113	26	121
08 108 55	301 213 245 245	314 39 42 194 36	32 32 70	45	35	48 110 31	24	121
51 56 56	292 293 203 44 44 250	327 37 40 197 35	30	45	34	46 111 32	23	119
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diurctics (c) All other preparations acting on the genito-urinary system	Archarations acting systemically on infections  (a) Penicillins (b) Tetracyclines (c) Other antibiotics (d) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics (b) Erythropoietic preparations including parenteral vitamin B12 (c) Vitamin preparations including multivitamin preparations with mineral sa (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparations affecting metabolism an nutrition	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory tract  (b) Expectorants and cough suppressants  (c) Bronchodilators, relaxants and other preparations affecting the respirator	Preparations affecting allergic reactions	Preparations acting on the eye (including anaesthetics and vasoconstrictors)	(a) Fungicides, parasiticides and other specific anti-infective agents (b) Corticosteroids	Other drugs and preparations (including individually formulated preparations not classified elsewhere)	Dressings, appliances, trusses and hosiery
4	ri,	6	7.	8 6	10.	-	12.	13. Se

Sample prescribing data: Percentages of prescriptions in each quarter: By therapeutic group

-	Table 11						Per	Per cent
		1961	19		1962	62		
- 3	Therapeutic group	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
A.	All groups	0.001	0.001	0- 001	0.001	0.001	100 -0	
		00-			0.6	3.1		1 (9)
		0.1.0	0000	0.10	-044	0.8	0-0-0	<u> </u>
4	(a) Anti-hypertensives	1.3	1.2	1.2	1.5	4.0	1.2	2 (a) (b)
6	rincipal active ingredient)	00-0-c 646464	0.5 0.5 0.9 0.9 0.9	00-800 200000000000000000000000000000000	00-100 2000 2000 2000 2000 2000 2000 200	00 00 00 00 00 00 00 00 00 00 00 00 00	00.5	@@@@@@
	(g) Anti-emetic preparations (h) Anticonvulsants and other preparations for treating motion sickness and Parkinsonism (i) Stimulants and appetite suppressants (j) Anti-depressives (k) Local anaesthetics, analgesics, counter irritants and miscellaneous					0.00 0.50	00 00 4 00 5 00 5 00 5 00 5 00 5 00 5 00	Sess 6

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	45 4.8 5.8 5.1 5.0 5.9 3.5 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	mineral salts 2.5 2.7 2.5 2.3 2.4 0.7 0.8 0.7 0.7 0.6 0.8 0.7 0.7 0.6 0.8 0.7 0.7 0.6 0.8 0.7 0.9 0.7 0.8 0.7 0.7 0.8 0.7 0.8 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.7 0.8 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	2.6 3.1 2.7 2.4 2 8.4 9.2 5.4 4.3 8 2.5 2.2 2.2 2.4 2	2·9 2·3 2·0 2·6 2·7 2·2 0·6 0·6 0·7 0·7 0·6 0·7	ctors) 2.5 2.0 1.9 2.3 2.2 2.0 1.5 1.5 1.5 1.3 1.6 1.3	3.0     2.6     2.6     3.1     3.5     3       4.0     3.7     3.3     3.5     3.5     3       4.8     5.0     5.3     4.6     3.9     4
(a) Sex hormones	5. Preparations acting systemically on infections           (a) Penicillins            (b) Tetracyclines            (c) Other antibiotics            (d) Sulphonamides            (e) Vaccines and sera            (f) Other anti-infective agents	(a) Insulin and other hypoglycaemics     (b) Erythropoietic preparations including parenteral vitamin B12     (c) Vitamin preparations including multivitamin preparations with mineral (d) Corticosteroids for systemic treatment     (e) Thyroid, anti-thyroid and other preparations affecting metabolism nutrition	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory tract  (b) Expectorants and cough suppressants  (c) Bronchodilators, relaxants and other preparations affecting the system	8. Preparations affecting allergic reactions 9. Preparations acting on the ear	ğg	(b) Corticosteroids (c) Other preparations: Sedatives, antipruritics, keratolytics and antiseptics including surgical antiseptics

13. Dressings, appliances, trusses and hosiery See footnotes in appendix 3.

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4.6 3.2

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3.0 5.0

4.8 3.9

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Sample prescribing data: Percentages of net ingredient cost in each quarter: By therapeutic group

			15	1961		19	1962		
	Therapeutic group		3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
i in the second	All groups 1. Preparations acting on the alimentary system		100 -0	0-001	0-001	0-001	0-001	100 -0	a 4
	:::	::	1.8		1.6		2.0	6-1	1(3)
4	(d) Tonics	::	1.5		5.00		1.6	10.0	<u> </u>
6	(f) Preparations acting locally on the rectum	::	4 %	4 %	9.00	9.00	4 %	0.0	999
	2. Preparations acting on the cardiovascular system		4.0		0.0		9.0	0.0	(3)
		rs, anti-	3.2	3.0	2.9	3.6	4.1	3.7	2 (a)
	coagulants and sclerosing agents		3.3	3.4	3.0	3.6	3.6	3.4	(P)
	3. Preparations acting on the nervous system (a) Addictive analgesics	:	0.3	0.2	0.5			0.5	3 (a)
	(b) Antipyretic analgesics	: :	2.4	3.8	3.6	2.3	× 50	2.1	<u> </u>
	Barbiturates (unadmixed and if principal active ingredient)		4.1	0.4	4.0			3.9	Ð.
	(c) Tranquillisers		9.4	8.4	4.5			0.4	<u>@</u> €
	eparations sand other preparations for treating motion sick	62	8.0	1.0	9.0			9-0	(g)
	Parkinsonism							1.3	£
	(i) Stimulants and appetite suppressants								33
	(J) Anti-depressives (L) Local anaesthetics analoesics counter irritants and miscellaneous		0.7	0.7	0.80	7.70	0.70		38

See Formones acting on the genito-urinary system	<u>e</u> ee	@9090e	<u> </u>	7 (e) (c)	8 6	01	<u>e</u> e e	12
Preparations acting on the genito-urinary system	-					-	-	-
Preparations acting on the genito-urinary system		30.000	22.5	3.7	1.4	1-1	5.1	
Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Duractics  (c) All other preparations acting on the genito-urinary system  (c) All other preparations acting on the genito-urinary system  (d) Duractics  (e) Sex hormones  (e) Preparations acting systemically on infections  (e) Preparations acting systemically on infections  (f) Tetracyclines  (g) Cherr antibloctics  (g) Other antibloctics  (g) All commandes  (g) Tetracyclines  (g) Cherr antibloctics  (g) All commandes  (h) Experimentations including maltivitation preparations affecting metabolism and nutrition  (h) Expectionals and cough suppressants  (g) All commandes  (h) All commandes  (g) All commandes  (h) All commandes  (g) All commandes  (h) All c	3.0		23.6 1.9 0.9	0.8	1.7	1.1		
Preparations acting on the genito-urinary system  (a) Exchormones (b) Duturetts (c) All other preparations acting on the genito-urinary system.  Preparations acting systemically on infections (a) Penicillins (b) Tenicillins (c) Other anti-infective agents (d) Sulphonamides (e) Vaccious and agents (e) Vaccious and acting systemically and nutrition (e) Vaccious and serial and nutrition (f) Other anti-infective agents (g) Sulphonamides (g) Sulphonamides (g) Vaccious and acting metabolism and nutrition (g) Intropoletic preparations including parenteral vitamin B12 (g) Vaccious acting on the respiratory system (g) Thyroid, anti-thyroid and other preparations affecting metabolism and nutrition (g) Preparations acting on the respiratory system (g) Experimental and other preparations affecting metabolism and other preparations acting on the respiratory system (g) Expectorants and cough suppressants (g) Expectorants and c		7.3 2.6 2.0 3.1		2.4	1.7	1.1	0.8 4.8 1.7	1.8
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diureities (c) All other preparations acting on the genito-urinary system (c) Penicillins (d) Pericacyclines (e) Vaccines and sera (d) Sulphonamides (e) Vaccines and sera (e) Vaccines and sera (f) Conternations affecting metabolism and nutrition (a) Insulin and other hypoglycaemics (b) Erythopoglycaemics (c) Vitamin preparations including parenteral vitamin B12 (e) Vitamin preparations including multivitamin preparations withmineral salts (f) Corticosteroids for systemic treatment (a) Preparations acting on the respiratory system (a) Preparations acting on the respiratory system (b) Expectorants and cough supperssants (c) Bronchodilators, relaxants and other preparations affecting the respiratory (c) Bronchodilators, relaxants and other preparations affecting and vasoconstrictors) (a) Preparations acting on the ear (b) Corticosteroids. (c) Other preparations scing on the skin (a) Fungicides, parasiticides and other specific anti-infective agents (b) Corticosteroids (c) Other preparations (including individually formulated preparations (c) Other drugs and preparations (n) Classified elsewhere) (c) Other drugs and preparations (n) Classified elsewhere) (n) Cother drugs and preparations (n) Cother drugs and cother drugs and		8.6 14.2 3.7 3.1			1-2	6.0		
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito-urinary system  Preparations acting systemically on infections (a) Penicillins (b) Tetracyclines (c) Other antibiotects (c) Other antibiotects (d) Sulphonamides (e) Vaccines and sera (e) Vaccines and sera (f) Sulphonamides (g) Vaccines and sera (g) Preparations affecting metabolism and nutrition (a) Insulin and other hypoglycaemis and nutrition (a) Insulin and other hypoglycaemis including parenteral vitamin preparations including multivitamin preparations withmineral salis (c) Vitamin preparations including multivitamin preparations withmineral salis (d) Corticosteroids for systemic transmit vitamin preparations and other preparations affecting on the respiratory system (a) Preparations acting focally on the upper respiratory tract (b) Expectorants and cough suppressants (c) Expectorants and cough suppressants (d) Expectorants and cough suppressants (e) Expectorants and cough suppressants (f) Expectorants are cough suppressants (g) Preparations acting on the ear (g) Fundicides, parasiticides and other preparations affecting the respiratory system (g) Preparations acting on the skin (g) Preparations acting on the skin (g) Fundicides, parasiticides and other specific anti-infective agents (g) Conticosteroids (g) Preparations: Sedatives, antipruritics, keratolytics and antiseptics (g) Other preparations: Sedatives, antipruritics, keratolytics and antiseptics (g) Other preparations (c) Cultuding individually formulated preparations (h) Contactoral antiseptics.	3.1	6-8 11-6 2-2 2-2 3-0	23.3 23.3 0.5 0.5	3.8	0.4	1.0	1.0 4.1	1.7
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito-urinary system.  Preparations acting systemically on infections (d) Tetracyclinins (e) Tetracyclinins (e) Tetracyclinins (f) Cuther anti-infective agents (g) Sulphonamides (g) Sulphonamides (g) Cuther anti-infective agents (g) Cuther anti-infective agents (g) Cuther anti-infective agents (g) Erythropoictic preparations including parenteral vitamin B12 (g) Vitamin preparations including multivitamin preparations withmineral of Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparations affecting metabolism nutrition  Preparations acting on the respiratory system (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparations affecting the respiratory system (g) Preparations acting on the ear (g) Preparations acting on the ear (g) Bronchodilators, relaxants and other preparations affecting the respiratory acting on the eye (including anaesthetics and vasoconstrictors)  Topical preparations acting on the skin (a) Fungicides, parasiticides and other specific anti-infective agents (b) Corticosteroids (c) Other preparations: Sedatives, antipruritics, keratolytics and antisej including surgical antiseptics (e) Other preparations (including individually formulated preparation of classified elsewhere)			2.0 2.5 0.5	0.9	0.4	1.2		
4 6 6 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7		(a) Pencillins	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics (b) Erythropoietic preparations including parenteral vitamin B12 (c) Vitamin preparations including multivitamin preparations withmineral (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparations affecting metabolism nutrition	respiratory tract	Preparations affecting allergic reactions		Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti-infective agents  (b) Corticosteroids  (c) Other preparations: Sedatives, antipruritics, keratolytics and antisepti including surgical antiseptics	formulated

13. Dressings, appliances, trusses and hosiery
See footnotes in appendix 3.

... | 6-6 | 5-3 | 4-8 | 5-9 | 5-8 | 4-9 | 13

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## Sample prescribing data: Indexes of quarterly variation in numbers of prescriptions: By therapeutic group

Table 13 Indexes

			19	62	
	Therapeutic group	1st quarter	2nd quarter	3rd quarter	4th quarter
3(b)	Antipyretic analgesics	112	97	88	103
3(i)	Stimulants and appetite suppressants	100	117	95	89
5(a)	Penicillins	124	93	79	105
5(b)	Tetracyclines	136	90	69	108
5(a) 5(b) 5(d) 6(c)	Sulphonamides	119	91	83	107
6(c)	Vitamin preparations including multi-		-		200200
	vitamin preparations with mineral salts	121	99	80	100
7(a)	Preparations acting locally on the upper		1983 AV	The state of	57.10
7 3072	respiratory tract	127	96	77	101
7(b)	Expectorants and cough suppressants	146	76	77 54	123
12	Other drugs and preparations (including individually formulated preparations not				
	classified elsewhere)	121	97	77	104

See footnotes to table 6.

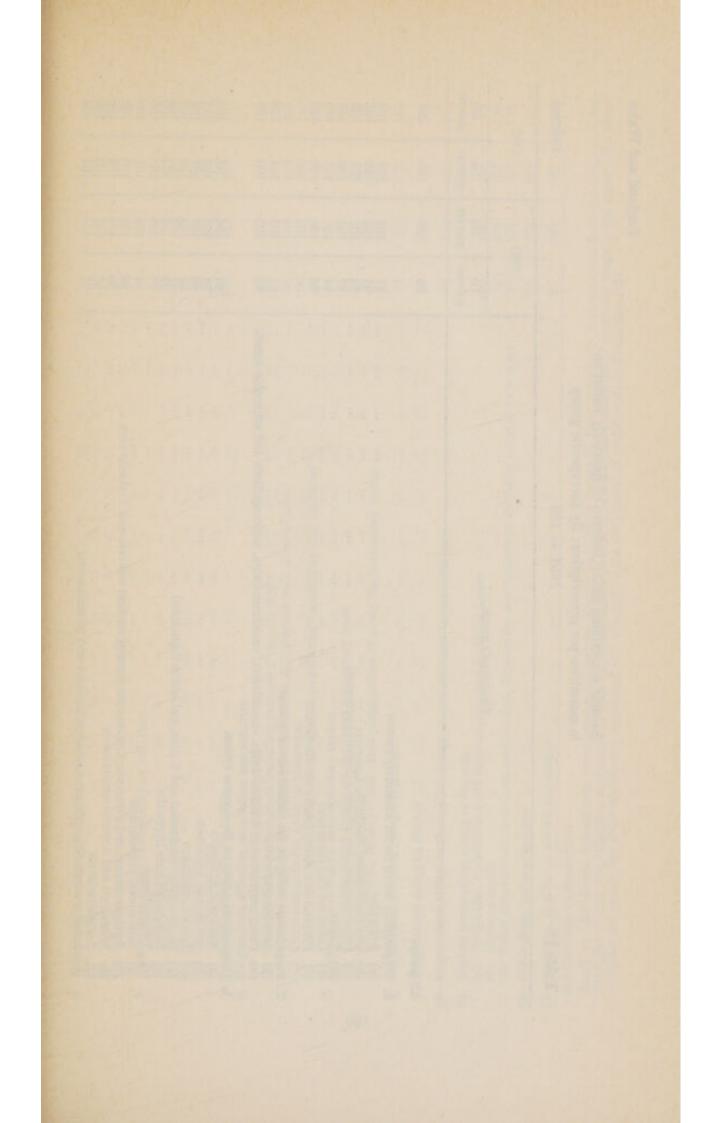
Scotland

## Sample prescribing data: Indexes of quarterly variation in net ingredient cost: By therapeutic group

Table 14 Indexes

			19	62	
	Therapeutic group	1st quarter	2nd quarter	3rd quarter	4th quarter
3(i)	Stimulants and appetite suppressants	95	120	95	90
5(a)	Penicillins	127	94	81	100
5(b)	Tetracyclines	140	94	69	105
5(d)	Sulphonamides	112	94	88	107
6(c)	Vitamin preparations including multi- vitamin preparations with mineral salts	114	95	89	102
7(a)	Preparations acting locally on the upper respiratory tract	123	97	80	101
7(b)	Expectorants and cough suppressants	144	75	56	124
7(c)	Bronchodilators, relaxants and other				
1107501	preparations affecting respiratory system	98	94	96	113
8	Preparations affecting allergic reactions	85	112	104	99
8	Other drugs and preparations (including individually formulated preparations not	4.25			200
	classified elsewhere)	125	104	76	96

See footnotes to table 6.



Indexes

Sample prescribing data: Indexes of quarterly variation in quantities per prescription: By therapeutic group

1961 = 100Table 15

1. Preparations acting on the alimentary system (a) Antacids (b) Gastro-intestinal sedatives (c) Other preparations affecting digestive processes (d) Tonics (e) Laxatives and purgatives (f) Preparations acting locally on the rectum (f) Preparations acting on the cardiovascular system (a) Anti-hypertensives (b) Other preparations: Cardiac drugs, vasodilators, vasoconstrictors, anticoagulants and sclerosing agents 3. Preparations acting on the nervous system (a) Addictive analgesics (b) Antipyretic analgesics (c) Antipyretic analgesics (d) Antipyretic analgesics		1	 : :::::: :: ::: ::: ::: ::: ::: ::: ::	clerosir	i i i i i i i i i i i i i i i i i i i	 er	4th quarter 103 103 103 103 103 103 103 105 105 105 105 105 105 105 105 105 105	103 103 103 100 100 100 100 100 100 100	4th quarter 107 103 103 109 109 109 109 109 109 109 109 109 109
ted and if principal active otics	ingredient)	88	   Parkinsonism		111111111	22828288	555555555555555555555555555555555555555	<u> </u>	80000000000000000000000000000000000000

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	<u> </u>	N. 15 15 15 15 15 15 15 15 15 15 15 15 15	925258	103	66 101	102	100	103
	98 88	N 8 8 9 9 8 9 8 9 8 9 8 9 9 8 9 9 9 9 9	96 25 25 25 25 25 25 25 25 25 25 25 25 25	96 96 96	93	86	100 96 97	95
-	111	111111	11111	111	: :	1	:::	:
	111	11111	:::::	:::	: :	:	 tiseptic	:
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	111	111111	:::::	111	; ;	: :	 ng surg	:
	111		salts		: :	: :	 ncludir	3
	111	11111	 neral s	 iratory	: :	tors)		:
	111	111111	2 vith mi bolism	 he resp	:	onstric	ents  d antise	::
	 system	::::::	min Bl tions v	tract 	:	vasoc	tive ag	**
		::::::	ral vitamin B12 preparations with mineral s	piratory tract tions affecting the respiratory system	:	ics and	nti-infective agents keratolytics and antiseptics including surgical antiseptics	:
-	7	_ = = = = = = = = = = = = = = = = = = =	ni sint	res	:	aesthet	ific an	:
The same	iry sys	fections ::::::::::::::::::::::::::::::::::::	s rding p nultivit tment prepar	system e uppe sants her pre	SU	ing an	n ier spea ntiprur	
-	no gui	M : : : : : ;	sm and caemic is inch iding r ic trea	iratory on th uppres	reaction	includ	the ski and oth ives, a	:
	ne genn	mically	etabolis ypogly aration ns inclu system id and	locally ough s	lergic 1	he eye	ing on icides a	
1	s paratic	g syste	ting mother hic preparation ids for i-thyro	acting s and c ors, rela	cting al	ng on th	ons act parasiti ids rations	prepara
***************************************	Sex hormones	Penicillins	arations affecting metabolism and nutrition  Insulin and other hypoglycaemics  Erythropoietic preparations including parenteral vitamin B12 Vitamin preparations including multivitamin preparations with Corticosteroids for systemic treatment  Thyroid, anti-thyroid and other preparations affecting metabol	Preparations acting on the respiratory system Preparations acting locally on the upper respiratory tract Expectorants and cough suppressants Broncodilators, relaxants and other preparations affecting	ns affe	ns actin	cal preparations acting on the skin Fungicides, parasiticides and other specific anti-infective agents Corticosteroids Other preparations: Sedatives, antipruritics, keratolytics and an	gs and
The state of the s	(a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito	(a) Penicillins	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics  (b) Erythropoietic preparations including pare  (c) Vitamin preparations including multivitan  (d) Corticosteroids for systemic treatment  (e) Thyroid, anti-thyroid and other preparation	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper  (b) Expectorants and cough suppressants  (c) Broncodilators, relaxants and other prep	Preparations affecting allergic reactions	Preparations acting on the eye (including anaesthetics and vasoconstrictors)	Topical preparations acting on the skin (a) Fungicides, parasiticides and othe (b) Corticosteroids (c) Other preparations: Sedatives, an	Other drugs and preparations
-	<u>.</u>	7. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	<b>₹</b> 3€3€3	7. 7. 9. 9. 9.	8. Pre		7 2 2 3 3 3 3 3	2. Ott

Based on 1200 drugs, Individually formulated preparations usually included in group 12 have necessarily been excluded from the drugs used for this table. Group 5(e) (Vaccines and sera) has been excluded because of the extreme seasonal prescribing of dominant drugs in this group. The series of figures for group 3(e) (Non-barbiturate hypnotics) was affected by the withdrawal of thalidomide in December 1961. See toothotes in appendix 3.

Indexes

Sample prescribing data: Indexes of quarterly variation in price: By therapeutic group

1961 = 100

127									-	1961	1	1962	52
1	i nerapeuric group	c Sroup	27						6	1st quarter	4th quarter	1st quarter	4th quarter
A	All groups	:	1	:	1			:	1	102	86	76	94
-	Preparations acting on the alimentary system  (a) Antacids			1		1	:	:		100	100	100	100
	(b) Gastro-intestinal sedatives		:	:	:	:	:	:	:	101	88	101	000
	(d) Tonics	: :	: :	: :	: :	:::	: :		: :	100	88	38	100
				:				1	:	101	100	001	102
	(f) Preparations acting locally on the rectum				***		:	:	:	101	100	101	6
7	Preparations acting on the cardiovascular system									102	96	96	96
		vasoconstr	ictors,	anticog	gulants	and so	clerosin	g agen	92	102	66	66	86
9.	Preparations acting on the nervous system  (a) Addictive analgesics	:	:	3		:	:	:	:	100	100	100	66
	8		:	:	:		:	:	:	101	88	600	95
	(c) Specific analgesics		:		1	:		:		18	38	38	160
	(e) Non-barbiturate hypnotics	igredient)			: :	: :	: :		: :	103	96	100	100
	Tranquillisers		:		:	***				102	86	97	100
	(g) Anti-emetic preparations (h) Anticonvulsants and other preparations for treating	ng motion	sickness and	ss and	Parkinsonism	onism	: :	: :	: :	1007	100	100	93
	(i) Stimulants and appetite suppressants				:		***	:	::	102	66	66	66
	(j) Anti-depressives	offering be	***		:					103	861	108	28
	(K) Local anaestnetics, analgesics, counter irritants and miscenaneous	nd miscena	neons		***			:		2001	101	301	23

8888	28.88.88 8.84.48	868886	885	86	86	66	288	106
98	282 X X 288	88888	888	86	66	101	888	101
97	828848 8	636 68 68 68 68 68 68 68 68 68 68 68 68 68	989	86	101	66	888	66
102	2 N 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	100	100	101	100	102	103	100
111	111111	11111	111	:	:	1	: : :	:
111	111111	11111	:::	:		;	nti-infective agents keratolytics and antiseptics including surgical antiseptics	
:::	111111		111	:	1	;	 gical ar	****
:::	111111	::::	:::	:	:	:	us sur	***
111		salts nutritio	 y system	1		1	 includi	
-:::	111111	 ineral a and r	 pirator	:	*	tors)	septics	***
:::	::::::	with m	 the res	:	*4*	onstric	gents 	
 system	111111	umin B ations	tract	:	1	d vasoc	ctive ag	***
 rrinary	111111	Insulin and other hypoglycaemics Erythropoietic preparations including parenteral vitamin B12 Vitamin preparations including multivitamin preparations with mineral salts Corticosteroids for systemic treatment Thyroid, anti-thyroid and other preparations affecting metabolism and nutrition	Preparations acting on the respiratory system  Preparations acting locally on the upper respiratory tract  Expectorants and cough suppressants  Broncodilators, relaxants and other preparations affecting the respiratory	:	:	etics and vasoconstrictors)	real preparations acting on the skin  Fungicides, parasiticides and other specific anti-infective agents  Corticosteroids  Other preparations: Sedatives, antiprurities, keratolytics and an	***
7	2 :::::::	nin ons	er resp	1	:	aesthe	cific ar	74.40
Sex hormones Diuretics All other preparations acting on the genito-	ifection	Insulin and other hypoglycaemics  Erythropoietic preparations including parent Vitamin preparations including multivitamin Corticosteroids for systemic treatment Thyroid, anti-thyroid and other preparations	system ne upp sants ther pro	us	:	ding an	cal preparations acting on the skin Fungicides, parasiticides and other specific a Corticosteroids Other preparations: Sedatives, antiprurities,	:
to-urin	y on ii	sm and caemic ns including uding	iratory y on the uppres	reactio	:	(includ	the ski and otl	:
he geni	emicall	ypogly ypogly varation ns inch system iid and	he resp locall ough s axants	llergic	he ear	he eye	ing on icides :	tions
ing on these	ng syste	sting mother hother hot	ng on the acting s and corrs, relicited	cting a	ng on t	ng on t	ons act parasit ids rations	prepara
arations acting Sex hormones Diuretics	Penicillins	arations affecting metabolism and insulin and other hypoglycaemics Erythropoietic preparations including mytamin preparations including m Corticosteroids for systemic treat Thyroid, anti-thyroid and other p	arations acting on the respiratory syste Preparations acting locally on the upp Expectorants and cough suppressants Broncodilators, relaxants and other pi	ns affe	ns actin	ns actin	cal preparations Fungicides, par- Corticosteroids Other preparati	bus s
Preparations acting on the genito-urinary system  (a) Sex hormones (b) Diuretics (c) All other preparations acting on the genito	Preparations acting systemically on infections  (a) Penicillins (b) Tetracyclines (c) Other antibiotics (d) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics (b) Erythropoietic preparations including pare (c) Vitamin preparations including multivitan (d) Corticosteroids for systemic treatment (e) Thyroid, anti-thyroid and other preparatic	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper  (b) Expectorants and cough suppressants  (c) Broncodilators, relaxants and other prep	Preparations affecting allergic reactions	Preparations acting on the ear	Preparations acting on the eye (including anaesth	Topical preparations acting on the skin (a) Fungicides, parasiticides and othe (b) Corticosteroids (c) Other preparations: Sedatives, and	Other drugs and preparations
Fees P		Geoge	7. Pre	8. Pre	9. Pre		7 2 2 3 3 3	12. Oth
4	iń	9	52	30	5	10.	=	12

13. Dressings, appliances, trusses and hosiery See footnotes to table 15.

**England and Wales** 

Indexes

Sample prescribing data: Indexes of quarterly variations in numbers of prescriptions: By therapeutic group

1961 = 100

											1961	51	19	1962
	Designation of the latest of t	Thera	Therapeutic group	dno.							1st quarter	4th quarter	1st quarter	4th quarter
All groups		:			:	:		:	:	:	125	86	109	86
1. Preparation (a) Antaci (b) Gastro (c) Other I (d) Tonics (e) Laxativ	Preparations acting on the alimentary system  (a) Antacids		::::::		11111	:::::	41111	:::::	:::::	1111	119 104 115 115 115	201128	<u>58554</u> 8	200828
(f) Preparatical (a) Antical (b) Other	Preparations acting locally on the rectum	ystem sodilators	s, vasocoi		is, antic			scleros	 ing age	:: :: urs	103	101 98 102	103 98 109	100
3. Preparati (a) Add (b) Anti	Preparations acting on the nervous system  (a) Addictive analgesics  (b) Antipyretic analgesics	11	11		1:	::	11	1:	::	::	112	98	108	101
(c) Spec	Specific analgesics Barbiturates (unadmixed and if principal active ingredient Non-barbiturate hypnotics	ipal active	ingredic	::: ()	:::	111	111	111	:::	:::	0811	888	200 200	103
Second Anternational Anternati	Anti-emetic preparations Anti-emetic preparations or treating motion Stimulants and appetite suppressants Anti-depressives	for tree	ating mot	tion sich	sickness and		Parkinsonism	:::::	11111	:::::	28298	52585	S 2 5 2 5	80 10 84
(k) Loc	s, analgesics, co	r irritants	and mis	cellaneo	sn	-	:				127	92	96	87

88 88	138 138 86 86 95 95 102	9008820	84 103 109	85 91	8 258	88
94 83 97	97223	98 107 98 98	114 142 108	93	2 8 2 1 2	86
888	\$1.88 \$2.88 \$3.88	95 103 103 99	91 105 105	91	8 228	92
100 100 110	133 133 135 128 118	99 137 99 107	150 176 116	93	113	128
111	111111	11111	:::	11	: :::	1 1
:::	::::::	:::::	:::	1.1	 iseptic	(e) ::
111	:::::	:::::	111	11	cal ant	lsewhe
111	111111	1111	111	::	: :: g surgi	sified e
:::	111111	salts	 system	11		ot clas
	111111	 eeral sa 	 ratory	11	ors)	tions n
:::	111111	2 ith mir oolism		::	nstrict nts 	repara
 system	::::::	teral vitamin B12 preparations with mineral salts saffecting metabolism and nutrition	ract 	11	anti-infective agents keratolytics and antiseptics including surgical antiseptics	lated p
 rinary sy	111111	il vitar reparat ii: ffecting	atory t	11	s and infect ratolyt	formu
7	-	H = H	r respira	::	E	vidually
ury syste		ing pa ultivita nent reparat	ystem upper ants er prep		ng ana r speci tiprurit	g indiv
to-urinar	/ on infe	n and r nemics including m it treatr	atory s on the ppressi	actions	neludii e skin d othe	cluding d hosie
genito	nically o	abolism poglyca rations incluc systemic l and o	ocally ugh suj ants ar	rgic re	g on thides an	ons (in
on the	system ics sera sera scrive a	ng met her hy prepa rations s for s thyroid	cting land column	ing alle	on the rasitic ss tions:	eparati es, tru
mones	s acting ins clines natibility that inference as and stand inti-inference inti-inference are activities.	affecti and ot projection prepa steroid d, anti-	s acting trions a prants a dilator	s affect s acting	s acting paration ides, pa steroid prepara	and pr
Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Diuretics  (c) All other preparations acting on the genito-	Preparations acting systemically on infections  (a) Penicilins (b) Tetracyclines (c) Other antibiotics (d) Sulphonamides (e) Vaccines and sera (f) Other anti-infective agents	(a) Insulin and other hypoglycaemics	Preparations acting on the respiratory system  (a) Preparations acting locally on the upper respiratory tract  (b) Expectorants and cough suppressants  (c) Broncodilators, relaxants and other preparations affecting the respiratory	Preparations affecting allergic reactions Preparations acting on the ear	Preparations acting on the eye (including anaesthetics and vasoconst Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti-infective agents  (b) Corticosteroids  (c) Other preparations: Sedatives, antipruritics, keratolytics and an	12. Other drugs and preparations (including individually formulated preparations not classified elsewhere)  13. Dressings, appliances, trusses and hosiery
Prepa (6) I		Prep 66666	Prep G G D		Pre Top Co	Othe
4	'n	.6	7.	00.00	11 10.	12.

See footnotes in appendix 3. The series of figures for group 3(e) (Non-barbiturate hypnotics) was affected by the withdrawal of thalidomide in December 1961.

Sample prescribing data: Numbers of drugs and prescriptions, totals of net ingredient cost, and averages of net ingredient cost per prescription, for proprietary drugs: By year of introduction

Table 18

Year of	10000	ber of		ber of iptions	Tota ingredie			ge net ent cost scription
introduction	Nun	nber	Mill	lions	£ mil	lion	Pe	nce
	1961	1962	1961	1962	1961	1962	1961	1962
All years	4250	4120	123-34	123-66	43-89	47-65	85	93
Before 1956	2870	2570	78.72	73.64	21.57	21-21	66	69
1956	230	220	9.41	8.78	3.41	3.24	87	89
1957	230	220	6.36	6.29	2.99	2.97	113	113
1958	270	270	10.27	9.07	4.86	4.41	114	117
1959	230	230	8.80	9.04	5.39	5.75	147	153
1960	250	250	8.42	10.83	4.92	6.68	140	148
1961	160	210	1.36	4.85	0.74	2.73	131	135
1962	-	140	-	1.15	_	0.66	-	138

See footnotes in appendix 3.

The table includes only drugs prescribed by proprietary name. Drugs prescribed by non-proprietary name but available only in proprietary form are excluded.

Year of introduction shown is that when the drug was first introduced. All strengths of the drug are shown therefore under the same year of introduction even though some of them may have been introduced more recently.

#### Scotland

Sample prescribing data for 1962: Numbers of drugs and prescriptions, totals of net ingredient cost, and averages of net ingredient cost per prescription, for proprietary drugs: By year of introduction

Table 19

Year of introduction	30	Number of drugs	Number of prescriptions	Total net ingredient cost	Average net ingredient cost per prescription
introduction		Number	Thousands	£ thousand	Pence
All years	***	2,590	13,749	4,956	87
Before 1956	***	1,490	8,496	2,453	69
1956	***	150	979	358	88
1957		160	654	265	97
1958	***	200	823	384	112
1959		170	1,029	556	130
1960		180	1,025	525	123
1961		160	620	342	133
1962	***	90	123	73	141

See footnotes to table 18.

Prescribing averages for the years 1959-1962: By region

			tverage ne cost per p	t ingredien rescription	11		Average freque per person (	frequency son (1)		4	tverage net ingre cost per person	tverage net ingredien cost per person (2)	11
Region			Pence	исе			Num	Number			Pei	Pence	
		1959	0961	1961	1962	1959	1960	1961	1962	1959	1960	1961	1962
Wales	:	55.4	60.3	71.0	79.5	5.98	6.12	5.64	5-29	331	369	401	420
Northern		56.4	6.09	70.4	0.87	4.94	5-11	4.60	4-42	279	311	324	345
Southern	:	56.3	61.4	70.4	7.77	4.51	4.56	4.33	4-08	254	280	305	317
South Western	****	55.8	6.09	69-3	6.91	4.86	4.93	4.68	4-45	271	300	325	343
Eastern		53-4	57.7	0-29	75-2	4.67	4.67	4.37	4-12	249	270	293	310
North Midland		52-1	56.2	63.8	711.2	4.61	4.69	4.36	4-17	240	263	278	297
North Western	:	51.7	55.7	63.4	69-1	5.64	5.75	5.26	4-96	291	320	333	343
London and South Eastern	****	51.3	54.7	6-79	69.5	4.87	4.88	4.55	4.30	250	267	286	299
East and West Ridings		6-64	54-1	63.0	1-69	5.31	5.33	4.91	4.66	265	288	309	322
Midland		48.5	52.6	8.65	0.19	4.78	4.83	4.45	4.22	232	254	266	283

(1) Total number of prescriptions dispensed in the area divided by the total number of persons on doctors' prescribing lists for the area.

(2) Total net ingredient cost of prescriptions dispensed in the area divided by total number of persons on doctors' prescribing lists for the area.

England and Wales

Table 21		To the last				0									Ranks
					Average net in cost per presc	Average net ingredien cost per prescription	,,	75	Average, per p	Average frequency per person			Average net ingredien cost per person	t ingredier person	JI.
	Kegion			1959	1960	1961	1962	1959	1960	1961	1962	1959	1960	1961	196
Wales	:	***	****	4	4	1	1	-	1				1		
Northern	:	::	:		6	2	2	4	4	0	0.5	2	5	4	
Southern	***	****	:	2	-	£.	5.	10	10	10	OT	0	0 -	0 .	
South Western	****		***	m	2	4	4	9	00	40	40	40	<b>+</b> 1	21	
Eastern	***	1600		5	5	2	5	00 0	6	× 0	0.0	000	-0	- 0	
North Midland		***	:	9	9	9	9	6	00 (	6	× (	2	2	7.0	
North Western	- 10 mm	0		7	7	1	6	7	7	7	7	71	70	70	
London and South Eastern	outh Eas	stern		00	00	6	7	2	9	9	9	1	0	001	
East and West Ridings	Ridings		***	6	6	00	00	n	mı	m	m	n	n	00	7.5
Midland	***			10	10	10	10	7	1	7	1	10	10	10	

See footnotes to table 20.

### **England and Wales**

### Actual and sample prescribing data for 1961: By region

Table 22

		Actual pres	cribing data	Sample prescribing data
Region		Number of prescriptions dispensed	Average net ingredient cost per prescription	Average net ingredient cost per prescription
		Millions	Pence	Pence
All regions		205.0	65.0	64-9
Wales		13-9	71.0	71.8
Northern		13.9	70-4	71.2
Southern		10.8	70-4	68-2
South Western		14.2	69-3	68-2
Eastern		17.5	67-0	65.7
N. Midland		14.4	63.8	65-4
N. Western		33.7	63.4	64-1
London and South Easter	n	47.0	62.9	62.6
East and West Ridings		19.6	63.0	61.9
Midland		20.1	59.8	60.2

See footnotes in appendix 3.

Sample prescribing data for 1961: Percentages of prescriptions in each region: By therapeutic group

cent			<u></u>	2 (a) (b)	3 (a)	<u>මිමම්</u> ම	ee e
Per	bnslbiM	100	2-1-0 4-4-0-4	1.0	6.8	12:7 0:8 0:8 2:2	 
	E, and W. Ridings	100	5. 2.4. 0.5 5.4	1.3	10.2	14.0 2.7 0.6 2.4	1.8
	London and S.E.	100	21.0 4.0 5.0 5.0	3.4	9.5	13.7 3.0 0.7 2.3	1.50
	N. Western	100	2.3	3.6	8.6	13.0 0.6 2.3	·
100	bnslbiM .N	100	5.1	3.4	9.3	13.6 0.7 2.2	± ± ± ±
dan e	Eastern	100	5.6 1.9 0.4	3.5	0.6	14·1 2·8 0·7 2·0	1.5
de -	S. Western	100	2.3 0.4 0.4	1.3	8.1	15.0 2.6 0.8 1.8	2.3.2
	Southern	100	2.1. 0.1. 0.4.	1.3	8.7	2.8 0.7 0.2	1.88 1.1
	Northern	100	2-20 2-6-6-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	3.9	9.5	12.7 0.9 2.3	1.6
0	Wales	100	2 1 0 4 3 8 0	3.0	9.8	12:1 2:8 2:2	1.5
	All regions	100	5.1.7. 0.1.7.2	1.2	9.5	13.5 0.7 2.2	- 8 - 8
Table 23	Therapeutic group	All groups	Antacids and other preparations affecting digestive processes	2. Preparations acting on the cardiovascular system  (a) Anti-hypertensives (b) Other preparations: Cardiac drugs, vasodilators, vasoconstrictors, anticoagulants and sclerosing agents	3. Preparations acting on the nervous system  (a) Addictive, antipyretic and specific analgesics (b) Sedatives, hypnotics, anticonvulsants, tranquillisers and preparations for treating motion sickness and		4. Preparations acting on the genito-urinary system  (a) Sex hormones  (b) Diuretics  (c) All other preparations acting on the genito-urinary system

S.	Preparations acting systemically on infections (a) Antibiotics (b) Sulphonamides (c) Vaccines and sera (d) Other anti-infective agents	8 24 2.0 7.0 7.0 7.0	8.9 0.3 0.8 0.8	9000 9608	8200 4558	7.5 0.2 0.7	8.0 0.3 0.7	9 9 9 9 9 9 9 9	2.3 0.1 0.7	00330	7.8 0.1 0.7	28 00 00 00 00 00 00 00 00 00 00 00 00 00	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
.9	eb	0.5	0.4	0.5	0.5	1.0	9.0	9.0	0.5	0.4	0.5	0.5	6 (a)
	vitamin B12	2.5	2.6	2.7	2.7	2.9	2.3	2.5	2.9	2.0	2.5	2.4	(p)
	tions with mineral salts	2.8	3.7	2.5	2.7	3.0	2.5	2.4	3:1	2.9	2.5	2.6	<u>ම</u> ෙ
	(e) Inyroid, anti-thyroid and other preparations affecting metabolism and nutrition	0.7	0.7	1.0	1.0	8.0	8.0	9-0	9.0	8.0	1.0	1.0	(e)
7.	(a) Preparations acting on the respiratory system (a) Preparations acting locally on the upper respiratory tract	3.6	3.6	2.8	4.2	3.6	3.9	3.6	3.1	4.1	3.3	3.9	7 (a)
	(b) Other preparations: Bronchodulators, bronchore- laxants, expectorants, cough suppressants and respiratory stimulants	12.0	12.3	11.5	10.4	10.5	8.01	12.1	13.5	4.11	13.3	12.7	(p)
00	Preparations affecting allergic reactions	2.4	2.1	2.0	2.8	2.5	2.8	2.3	2.2	2.7	1.9	5.6	00
9.	Preparations acting on the ear	2.0	0.7	9.0	9.0	9.0	8.0	8.0	8.0	1.0	0.7	6.0	6
10.	Preparations acting on the eye (including anaesthetics and vasoconstrictors)	1.5	1.6	1.6	1.5	1.5	1.7	1.5	1.4	1.7	1.4	1.6	10
=======================================	Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti- infective agents	1.0	1.1	-	1.2	Ξ	1:1	÷	6.0	1.0	1.0	1-0	11 (a)
	Corticosteroids	2.5	5.6										(P)
	lytics and antiseptics including surgical antiseptics	3.5	3.4	3.4	3.8	3.4	3.8	3.0	3.3	3.6	3.0	3.8	(0)
12.	Other drugs and preparations (including individually formulated preparations not classified elsewhere)	3.3	4.3	3.2	2.9	4.2	3.4	3.1	3.6	3.0	2.9	3.3	12
13.	Dressings, appliances, trusses and hosiery	3.5	4.3	3.7	3.6	3.8	3.7	3.5	3.3	3.5	3.0	3.6	13

See footnotes in appendix 3. The therapeutic groupings shown above are not sub-divided to the same extent as those given in tables 1–12. This table is not consistent with tables 1–14 in the allocation of individual preparations to therapeutic groups since tables 1–14 were based on a revised therapeutic classification involving the transfer of some drugs to other groups.

England and Wales

net ingredient cost per prescription in each region: By therapeutic group Sample prescribing data for 1961: Averages of

Table 24

Pence 2 (a) 3 (a) ළ ල ල Midland 27 27 68 44 47 207 E. and W. Ridings 49 49 216 London and S.E. 50 49 214 N. Western 38 22 38 49 49 236 N. Midland Eastern 333 33 78 S. Western 56 236 Southern 51 53 258 Northern Wales All regions Antacids and other preparations affecting digestive Sedatives, hypnotics, anticonvulsants, tranquillisers Diuretics .... All other preparations acting on the genito-urinary vasoconstrictors, anticoagulants and sclerosing Other preparations: Cardiac drugs, vasodilators, and preparations for treating motion sickness and Local anaesthetics, analgesics, counter irritants Preparations acting on the cardiovascular system ... Addictive, antipyretic and specific analgesics Preparations acting on the genito-urinary system Preparations acting locally on the rectum Preparations acting on the alimentary system Stimulants and appetite suppressants Preparations acting on the nervous system

(a) Addictive, antipyretic and specific an

(b) Sedatives, hypnotics, anticonvulsant Therapeutic group Laxatives and purgatives Anti-hypertensives Anti-depressives miscellaneous Parkinsonism processes All groups ... (a) (P) 3 3 3 क्टिक् 

9000 0000	6 (a)	(p)	<b>⊕</b>	(e)	7 (a)	(b)	00	6	10	11 (a) (b)	(0)	12	13
233 233	310	36	220	19	22	26	46	35	32	103	25	17	94
175 47 59 216	311	48	231	69	23	31	44	35	37	44 107	27	18	16
183 53 60 219	325	45	202	49	23	28	52	39	36	46	31	18	92
192 49 209 209	300	20	236	57	23	32	48	39	36	511	33	19	68
187 49 58 233	308	41	39	62	24	29	52	39	36	96	28	17	84
197 52 542	341	40	233	48	23	29	47	43	36	52 105	28	61	68
197 59 243	317	4	252	89	24	30	52	42	42	48	32	20	66
195 122 121 221	338	38	202	49	22	31	55	38	40	48	14	21	80
188 43 57 242	268	45	45	48	24	37	47	41	38	47	34	19	94
200 52 240	326	63	49	75	23	39	48	45	4	53	35	22	80
187 50 61 226	314	45	227	57	23	31	49	39	37	108	31	19	68
Preparations acting systemically on infections  (a) Antibiotics  (b) Sulphonamides  (c) Vaccines and sera  (d) Other anti-infective agents	Preparations affecting metabolism and nutrition  (a) Insulin and other hypoglycaemics  (b) Erythropoietic preparations including parenteral	vitamin B12 Vitamin preparations including multivitam		ing metabolism and nutrition	(a) Preparations acting on the respiratory system (b) Preparations acting locally on the upper respiratory tract (c) Other preparations: Bronchodilators bronchore-	laxants, expectorants, cough suppr respiratory stimulants	Preparations affecting allergic reactions	Preparations acting on the ear	Preparations acting on the eye (including anaesthetics and vasoconstrictors)	Topical preparations acting on the skin  (a) Fungicides, parasiticides and other specific anti- infective agents  (b) Corticosteroids	Other preparations: Sedatives, antiprurities, kerato- lytics and antiseptics including surgical antiseptics	Other drugs and preparations (including individually formulated preparations not classified elsewhere)	Dressings, appliances, trusses and hosiery
vi	488	0	€3	9	Pre (a)	2	P.	9. Pı	10. Pr	He e	0	0	13. Di

See footnotes to table 23.

**England and Wales** 

# Sample prescribing data for 1961: Unadjusted and standardised regional averages of net ingredient cost per prescription

Table 25 Pence

		2 2 1	Standard	lised (1)
Region		Unadjusted	For the percentage of prescriptions per therapeutic group	For the average net ingredient cost per prescription per therapeutic group
Wales	***	72	71	66
Northern	***	71	68	68
Southern	***	68	67	66
South Western		68	68	66
Eastern		66	65	65
North Midland		65	63	67
North Western		64	65	64
London and South Easte	rn	63	63	64
East and West Ridings		62	63	64
Midland		60	60	65

See footnotes in appendix 3.

<sup>(1)</sup> Standardised on the relevant sample distribution for England and Wales.

England and Wales

Sample prescribing data for 1961: Percentages of prescriptions and averages of net ingredient cost per prescription in four regions: By six therapeutic groups and their sub-groups

Therapean group and Sao-group		Wales	Northern	West Ridings	Midland	Wales	Northern	East and West Ridings	Midland
			Percentage of of prescript	Percentage of total number of prescriptions in group	4		Average net ingredient cost per prescription: Pence	verage net ingredient cos per prescription: Pence	1
Group 3(b)									
sdnozz	***	100	100	100	100	50	55	49	46
		54	51	57	54	26	26	25	22
rate hypnotics		12	12	=	12	39	37	26	25
		24	25	22	23	06	96	96	68
	***	10	12	10	=	66	107	104	86
Group 4(b)		202	100	100	100	171	116	1116	193
	:	301	100	100	700	101	140	110	173
All sub-groups	***	100	100	100	100	200	188	175	172
***		48	99	58	09	119	123	109	108
	***	37	30	28	29	296	306	302	290
mphenicol	***	7	00 1	7	5	222	216	231	228
		00	0	7	9	231	187	165	195
		100	100	100	100	63	45	48	36
er erythropoietic preparation		83	06	86	16	49	39	37	30
ations of vitamin B.12		17	10	14	6	132	96	110	104
Group 7(b)									
	****	100	100	100	100	39	37	31	56
essants	*** ***	08	78	82	85	31	26	24	16
lators and relaxants	212	19	22	17	18	71	74	63	26
	**** 11.0	1	1	-	1	145	92	134	16
Group 11(b) Corticosteroids		100	100	100	100	138	116	107	103

See footnotes to table 23.

England and Wales

Sample prescribing data for 1961: Percentages of prescriptions and averages of net ingredient cost per prescription for proprietary drugs: By six therapeutic groups and their more important sub-groups

Table 27

Theremone in annual with order	Wales	Northern	East and West Ridings	Midland	Wales	Northern	East and West Ridings	Midland
dnorg-one min Stong and Stong	Pa	Percentage of total number of prescriptions in each group and sub-group	otal number in each group	fo		Average net ingredient cost per prescription: Pence	erage net ingredient cos per prescription: Pence	1
Group 3(b)								-
	000	80	75	72	19	29	61	59
Barbiturates	2010	73	72	29	33	35	31	29
Non-barbiturate hypnotics	. 52	54	36	34	89	62	59	19
uillisers		97	94	94	92	86	86	16
	18	83	71	77	185	167	143	149
Diureucs		60	17	7,	201	101	140	147
		80	75	29	220	204	192	189
	63	19	59	57	132	129	117	115
nes		66	93	85	295	305	300	285
Group 6(b)			i	1	-		-	
100	***************************************	82	74	99	72	52	3:	48
c preparations		80	70	64	28	46	48	40
Preparation of vitamin B.12		100	100	86	132	96	110	105
				;	4.1		6.1	0,
***	20	2:	4/	41	22	27	70	49
essants		47	41	32	45	41	41	38
Broncholidators and relaxants		82	78	11	78	000	11	70
Group 11(b)	11		3	1		-	-	***
Corticosteroids	- 87	78	Ā	99	143	126	120	116
			-					

See footnotes to table 23.

Only drugs prescribed by proprietary name are included. Drugs prescribed by non-proprietary name but available only in proprietary form are excluded.

#### Prescribing averages for sample doctors: By age of doctor and practice category

Table 28

Practice			As	ge		
category	All ages	Under 36	36-	46-	56-	66 and ove
		Avera	ige cost per	person; (1) I	Pence	
Single-handed Partnership	32·5 32·2	39·3 N.A.	34·3 N.A.	32·2 N.A.	29·1 N.A.	27·3 N.A.
		Average	cost per pre	escription: (	) Pence	
Single-handed Parnership	78·8 79·7	85·1 79·9	80·8 82·6	79·3 79·4	73·5 74·5	71·8 70·1
		Average	prescription	frequency:	Number	-1
Single-handed Partnership	0·41 0·40	0·46 N.A.	0·43 N.A.	0·41 N.A.	0·40 N.A.	0·38 N.A.

Averages are based on prescribing for one month during the period September 1958 to July 1959, for the whole practice irrespective of whether or not this covered more than one executive council area.

executive council area.

(1) Costs refer to total payments to chemists and differ from those analysed in tables which refer to net ingredient cost only.

#### **England and Wales**

### Prescribing averages for single-handed sample doctors: By age of doctor and executive council area cost category

Table 29

Europeino conseil			As	ge		
Executive council category	All ages	Under 36	36-	46	56	66 and over
		Ave	rage cost per	r person: Per	nce	
High cost Medium cost Low cost	38·1 31·3 25·5	46·4 36·3 33·3	40·8 31·7 26·6	37·0 30·8 25·1	33·3 29·7 23·8	34·5 26·6 20·3
		Averag	re cost per p	rescription:	Pence	
High cost Medium cost Low cost	82·0 77·8 73·2	90·9 84·3 76·5	86·4 77·6 73·2	81·2 78·8 75·2	74·4 74·3 71·1	74·3 73·4 66·8
		Average	prescription	frequency: 1	Vumber	
High cost Medium cost Low cost	0·46 0·40 0·35	0·51 0·43 0·44	0·47 0·41 0·36	0·46 0·39 0·33	0·45 0·40 0·34	0·46 0·36 0·30

See footnotes to table 28.



#### **England and Wales**

### Prescribing averages for 852 sample single-handed doctors: By size of total N.H.S. medical list

Table 30

	Lis	t size		-	Average cost per person	Average cost per prescription	Average prescription frequency
	1	10=0	1000		Pence	Pence	Number
All list sizes .	4.0			***	32.6	79.0	0.41
Less than 1,0	00				35.7	80-0	0.45
1,000			***		33.6	76-2	0.44
1,500		****		***	33.8	79.8	0.42
2,000			***	***	32.2	78.7	0.41
2,500			***		32.4	80.0	0.41
3,000		***			32.7	79-2	0.41
3,500 and ove	er	***	***	***	30-4	77-3	0.39

See footnotes to table 28.

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