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PUBLISHED BY  
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

Printed in Great Britain at The Spottiswoode Ballantyne Press  
by William Clowes & Sons Limited, London, Colchester and Beccles

# CLINICAL SCIENCE AND MOLECULAR MEDICINE

## Guidance for Authors

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### 1. POLICY OF THE JOURNAL

#### 1.1. Scope

*Clinical Science and Molecular Medicine* publishes papers in the field of clinical investigation, provided they are of a suitable standard and contribute to the advancement of knowledge in this field. The term 'clinical investigation' is used in its broad sense to include studies in animals and the whole range of biochemical, physiological, immunological and other approaches that may have relevance to disease in man. Studies which are confined to normal subjects, or animals, or are purely methodological in nature may be acceptable. The material presented should permit conclusions to be drawn and should not be only of a preliminary nature. The journal publishes four types of manuscript, namely Invited Editorials, Full Papers, Short Communications and Correspondence. In addition, *Clinical Science and Molecular Medicine* publishes abstracts of the proceedings of the Medical Research Society and also that Society's Annual Guest Lecture.

#### 1.2. The Editorial Board

The Board comprises equal numbers of Editors for the Medical Research Society and the Biochemical Society and a Chairman and Deputy Chairman who are drawn alternately from the two Societies. Members of the Board retire after a maximum of 5 years; the Chairman serves in his capacity for 2 years. The membership of the Board is designed to cover as wide a range of interests as possible.

The main function of the Board is to decide on the acceptability of submitted papers, but it also deals with general matters of editorial policy. Financial policy is dealt with separately by the Committee of Management.

#### 1.3. The editorial process

A submitted paper is first read by the Chairman of the Editorial Board who then sends it to an Editor. The latter considers the paper in detail and sends it to one or more referees (who remain anonymous) from outside the membership of the Board. The Editor returns it with

his recommendation to the Chairman who then writes formally to the authors. The ultimate responsibility of acceptance for publication lies with the Chairman. If the Chairman is for any reason unavailable, the Deputy Chairman assumes this function.

#### 1.4. *Ethics of investigations on human subjects*

Authors must state in the text of their paper the manner in which they have complied, where necessary, with the recommendations on human investigations published in the Medical Research Council report of 1962/63 [*British Medical Journal* (1964) ii, 178–180]. Consent **must** be obtained from each patient or subject after full explanation of the purpose, nature and risks of all procedures used and the fact that such consent has been given should be recorded in the paper. Papers should also state that the Ethical Committee of the Institution in which the work was performed has given approval to the protocol. The Editorial Board will not accept papers the ethical aspects of which are, in the Board's opinion, open to doubt.

#### 1.5. *Originality of papers*

Submission of a paper to the Editorial Board is taken to imply that it reports unpublished work, that it is not under consideration for publication elsewhere and that, if accepted for publication by *Clinical Science and Molecular Medicine*, it will not be published elsewhere in the same form, either in English or in any other language, without the consent of the Editorial Board. This does not usually apply to previous publication of oral communications in brief abstract form. In such cases authors should enclose copies of the abstracts. When a paper has been accepted for publication the author, or in the case of multiple authorship the author with whom correspondence has taken place, will be asked to sign a statement vesting the copyright in the Editorial Board. Requests for consent for reproduction of material published in *Clinical Science and Molecular Medicine* should be addressed to the Chairman of the Editorial Board.

## 2. SUBMISSION OF MANUSCRIPTS: GENERAL INFORMATION AND FORMAT

### 2.1. *General*

Papers submitted for publication should be sent to the Chairman of the Editorial Board

(Dr D. C. Flenley, Department of Medicine, The Royal Infirmary, Edinburgh EH3 9YW, Scotland).

The submission should contain three copies (of which two may be photocopies) of the typescript, Tables, Figures, etc. The authors should retain one copy of the paper. The Editorial Board does not accept responsibility for damage or loss of papers submitted, although great care is taken to ensure safety and confidentiality of the typescript during the editorial process. In the case of multiple authorship, the covering letter should indicate that the approval of all co-authors has been obtained.

Papers should be presented so that they are intelligible to the non-specialist reader of the journal. This is particularly important in highly specialized fields and a very brief résumé of the current state of knowledge is usually helpful. Certain types of material, e.g. mathematical formulations requiring more than trivial derivations, should be given in a separate Appendix.

Where the reader is referred to previous works by the same author(s) for important details relevant to the present work, it often speeds up assessment if reprints are enclosed with the typescript. This is of particular importance in relation to methodology.

The dates of receipt and acceptance of the paper will be published. If the paper has to be returned to the authors for revision and is not resubmitted within 1 month, the date of receipt will be revised accordingly. For Short Communications the published date will always be that of receipt of the final version. It is emphasized that badly presented or unduly long papers will be returned for revision and delays in publication will be inevitable. Similar delays will be incurred if the typescript is not prepared strictly in accordance with the instructions detailed below.

### 2.2. *Full papers*

The authors should refer to a current issue of *Clinical Science and Molecular Medicine* to make themselves familiar with the general layout. Concise presentation is very important for rising costs are a severe constraint on space. **The length of manuscript and the number of Figures and Tables must be kept to a minimum.** Extensive Tables of data can be deposited with the Royal Society of Medicine (see 2.5). *Guidance for Authors* is published in the

January and July issues of the journal, and revised periodically.

Typescripts should be, in general, arranged as follows:

(a) *Title page.* Title: this should be as informative as possible, since titles of papers are being increasingly used in indexing and coding for information storage and retrieval. The title should indicate the species in which the observations reported have been made. The numbering of parts in a series of papers is not permitted.

List of authors' names (degrees and appointments are not required).

Laboratory or Institute of origin.

Key words: for indexing the subject of the paper; they should, if possible, be selected from the current issues of 'Medical Subject Headings' (MeSH), produced by the *Index Medicus*.

Short title: for use as a running heading in the printed text; it should not exceed forty-five characters and spaces.

Author for correspondence: the name and address of the author to whom queries and requests for reprints should be sent.

(b) *Summary.* This should be a brief statement arranged in **numbered paragraphs** of what was done, what was found and what was concluded and should rarely exceed 250 words. Contributors from non-English speaking countries are invited to include a translation of the summary in their own language. Abbreviations should be avoided as far as possible and must be defined. Statistical and methodological details including exact doses should also be avoided unless they are essential to the understanding of the summary.

(c) *Introduction.* This should contain a clear statement of the reason for doing the work, but should not include either the findings or the conclusions.

(d) *Methods.* The aim should be to give sufficient information in the text or by reference to permit the work to be repeated without the need to communicate with the author.

(e) *Results.* This section should not include material appropriate to the Discussion section.

(f) *Discussion.* This should not contain results and should be pertinent to the data presented.

(g) *Acknowledgments.* These should be as brief as possible.

(h) *References.* See p. vi for the correct format.

(i) *Figures and Tables.* See p. v.

### 2.3. Short Communications

The Short Communication should describe completed work, and should not be merely a preliminary communication. The format of Short Communications should be similar to that of Full Papers, but should not exceed 1200 words of text. **One Figure or Table** is allowed, but if neither is included the text may be expanded to 1400 words. The passage of Short Communications through the editorial process can frequently be expedited and contributors are encouraged to take advantage of these facilities when rapid publication is of importance and the material can be presented concisely. The paper should appear in print within 3 months of acceptance. When submitting Short Communications, authors should make it quite clear that the work is intended to be treated as a Short Communication.

### 2.4. Correspondence

Letters containing critical assessments of material published in *Clinical Science and Molecular Medicine*, including Editorials, will be considered for the Correspondence section of the journal. Such letters should be sent to the Chairman of the Editorial Board within 6 months of the appearance of the article concerned. They will be sent to the authors for comment and both the letter and any reply by the author will be published together. Further correspondence arising therefrom will also be considered for publication. Consideration will also be given to publication of letters on ethical matters.

### 2.5. Arrangements for large amounts of information

It is impracticable to publish very large sets of individual values or very large numbers of diagrams, and under these circumstances a summary of the information only should be included in the paper. The information from which the summary was derived should be submitted with the typescript and, if the latter is accepted, the Editors may ask for a copy of the full information and diagrams to be deposited with the Librarian, the Royal Society of Medicine, 1 Wimpole Street, London W1M 8AE, who will issue copies on request. Experience has shown that such requests are frequently received.

### 2.6. Proof corrections

These are expensive and corrections of other than printers' errors may have to be charged to the author.

### 2.7. Offprints

Twenty-five offprints are supplied free and additional copies may be obtained at terms, based upon the cost of production, that will be given with the proofs. All offprints should be ordered when the proofs are returned.

### 2.8. Availability on MEDLINE

Summaries of papers in *Clinical Science and Molecular Medicine* are available on-line on teleprinters participating in the MEDLINE system run by the National Library of Medicine, National Institutes of Health, Bethesda, Maryland, U.S.A.

## 3. MISCELLANEOUS NOTES

### 3.1. Abbreviations

**Abbreviations should be avoided; if used they must be defined at the first mention;** new abbreviations should be coined only for unwieldy names which occur frequently. Abbreviations should not appear in the title nor, if possible, in the Summary. A list of accepted abbreviations appears at the end of this document.

### 3.2. Anatomical nomenclature

This should follow the recommendations of the International Anatomical Nomenclature Committee (1966), *Nomina Anatomica*, 3rd edn, Excerpta Medica Foundation, Amsterdam.

### 3.3. Animals, plants and micro-organisms

The full binominal specific names should be given at first mention for all experimental animals other than common laboratory animals. The strain and, if possible, the source of laboratory animals should be stated. Thereafter in the text, single letter abbreviations may be given for the genus; if two genera with the same initial letter are studied, abbreviations such as *Staph.* and *Strep.* should be used.

### 3.4. Buffers and salts

The acidic and basic components should be given, together with the pH. Alternatively, a reference to the composition of the buffer should be given. Further details are provided in the *Biochemical Journal* (1978) **169**, 9.

When describing solutions containing organic anions and their parent acids, the salt designator (e.g. lactate, urate, oxalate) should be used in preference to the name of the acid (lactic, uric, oxalic) unless it is certain that virtually all of the acid is in the undissociated form.

The composition of incubation media should be described, or a reference to the composition should be given.

### 3.5. Doses

**Doses of drugs should be expressed in mass terms, e.g. milligrams (mg) or grams (g), and also (in parentheses) in molar terms, e.g. mmol, mol, where this appears to be relevant.** Molecular weights of many drugs may be found in *The Merck Index*, 8th edn, Merck and Co. Inc., N.J., U.S.A.

### 3.6. Enzymes

Nomenclature should follow that given in *Enzyme Nomenclature* (1972), Elsevier Publishing Co., Amsterdam, and Enzyme Commission (EC) numbers should be quoted at the first mention. Where an enzyme has a commonly used informal name, this may be employed after the first formal identification. A unit of enzyme activity should preferably be expressed as that amount of material which will catalyse transformation of 1  $\mu\text{mol}$  of the substrate/min under defined conditions, including temperature and pH. Alternatively, or when the natural substrate has not been fully defined, activity should be expressed in terms of units of activity relative to that of a recognized reference preparation, assayed under identical conditions. Activities of enzymes should normally be expressed as units/ml or units/mg of protein.

### 3.7. Evaluation of measurement procedures

When a new measuring procedure has been used, or when an established procedure has been applied in a novel fashion, an estimate of the precision of the procedure should be given. This should, as far as possible, indicate what sources of variation have been included in this estimate, e.g. variation of immediate replication, variation within different times of day, or from day to day etc.

If the precision of measurement varies in proportion to the magnitude of the values obtained, it can best be expressed as the coefficient of variation; otherwise it should be expressed by an estimate of the (constant) standard error of

a single observation, or by estimates at several points within the range of observed values.

When recovery experiments are described the approximate ratio of the amount added to the amount already present and the stage of the procedure at which the addition was made should be stated.

### 3.8. Figures and Tables

These are expensive to print and their number should be kept to a minimum. Their appropriate position in the paper should be indicated in the margin of the text. References to Figures and Tables should be in Arabic numerals, e.g. Fig. 3, and they should be numbered in order of appearance. In general, the same data should not be presented in both a Figure and a Table; simple histograms recording only a few values can more economically be replaced by a Table.

Figures, with captions attached, should be supplied as original drawings or matt photographs together with photocopies. All Figures should have their number and the authors' names written in pencil on the back; the top of the Figure should be indicated with a pencilled arrow. A horizontal or square layout is preferred to a vertical one. Acceptable symbols for experimental points are ●, ▲, ■, ○, △, □. The symbols × or + must be avoided. The same symbols must not be used for two curves where the points might be confused. For scatter diagrams, solid symbols are preferred. When a particular variable appears in more than one Figure, the same symbol should be used for it throughout, if possible.

Curves should not be drawn beyond the experimental points, neither should axes extend appreciably beyond the data. Only essential information that cannot readily be included in the legend should be written within the Figure.

Figures for reproduction as half-tones should be submitted as glossy prints. They are particularly expensive to print and their use should be avoided as far as possible.

Tables should be typed separately from the text. They should have an underlined title followed by any legend.

Captions for the Figures, and titles and legends for the Tables should make them **readily understandable** without reference to the text. Adequate statistical information, including that on regression lines, should be included in Figure captions where appropriate.

### 3.9. Footnotes

These should be avoided as far as possible but where they are used in Tables they should be identified by the symbols \* † ‡ § || ¶, in that order.

### 3.10. Isotope measurements

Both the manufacturer's type number of the counting equipment and the manufacturer's name should be stated. In gamma counting the size and configuration of the detector should be given (e.g. 7.5 cm diam. × 7.5 cm well-type NaI-Tl crystal) and when relevant the channel settings and efficiency of each channel should be specified. Liquid scintillator and Cerenkov counting methods should include the reagents used for sample preparation, with final composition and volume of the sample/scintillant mixture, the type of vial and the method used to correct for quenching. The error in measurement of radioactivity or specific radioactivity should be given if it is a major component of the total experimental error. This error may be derived from measurements on duplicate samples, or from the contributions made by counting statistics, background, quench corrections, etc.

Although the unit for radioactivity is the becquerel (Bq = 1 d.p.s.), for the time being the curie (Ci) should be continued to be used. The degree of isotopic enrichment of the starting material should be specified as atoms % excess for stable isotopes, or the specific radioactivity (radioactivity/unit weight or radioactivity/mol) for radioactive materials. The manufacturer's code number, name and address should be given.

In mathematical models of tracer kinetics the nomenclature of the Task group on tracer kinetics of the International Commission on Radiological Units (Brownell, G. L., Berman, M. & Robertson, J. S., 1968, *International Journal of Applied Radiation and Isotopes*, **19**, 249–262) should be used if possible.

Alternatively, authors may give a reference to a published standard method.

### 3.11. Radionuclide applications in man

If new or modified radionuclide applications in man are described, an estimate of the average absorbed radiation dose to the whole body should be given, as well as the dose to individual organs that receive higher doses than this average. Although the SI unit for absorbed dose is the gray (Gy = 1 J/kg = 100 rad), for the time being the rad should be continued to be used (see *Recommendations of the International Commission on Radiological Protection*, ICRP Publication no. 26,

adopted 17 January 1977; Pergamon, Oxford); the SI unit for effective absorbed radiation dose is the sievert [(1 J absorbed/kg of material)/radiation quality factor = 100 rem] but for the time being the rem will be used.

### 3.12. Methods

In describing certain techniques, namely centrifugation (when the conditions are critical), chromatography and electrophoresis, authors should follow the recommendations published by the Biochemical Society (currently, *Biochemical Journal* (1978) **169**, 1–27).

### 3.13. Nomenclature of disease

This should follow the *International Classification of Disease* (8th revision, World Health Organization, Geneva, 1969) as far as possible.

### 3.14. Powers in Tables and Figures

Care is needed where powers are used in Table headings and in Figures to avoid numbers with an inconvenient number of digits. For example: (i) an entry '2' under the heading  $10^3k$  means that the value of  $k$  is 0.002; an entry '2' under the heading  $10^{-3}k$  means that the value of  $k$  is 2000. (ii) A concentration 0.00015 mol/l may be expressed as 0.15 under the heading 'concn. (mmol/l)' or as 150 under the heading 'concn. ( $\mu$ mol/l)' or as 15 under the heading ' $10^5 \times$  concn. (mol/l)', but not as 15 under the heading 'concn. (mol/l  $\times 10^{-5}$ )'.

### 3.15. References

These should be in alphabetical order of first authors. The full title of the paper, the journal and the **first and last** page numbers should be given, e.g.

CLARK, T.J.H., FREEDMAN, S., CAMPBELL, E.J.M. & WINN, B.R. (1969) The ventilatory capacity of patients with chronic airways obstruction. *Clinical Science*, **36**, 307–316.

When the quotation is from a book, the following format should be used, giving the relevant page or chapter number:

MOLLISON, P.L. (1967) *Blood Transfusion in Clinical Medicine*, 4th edn, p. 50. Blackwell Scientific Publications, Oxford.

REID, L. (1968) In: *The Lung*, p. 87. Ed. Liebow, A.A. & Smith, D.E. Williams & Wilkins, Baltimore.

References in the text should follow the style: Clark, Freedman, Campbell & Winn (1969) on the first quotation and, if there are more than two authors, 'Clark *et al.* (1969)' or '(Clark *et al.*, 1969)' in subsequent quotations.

References to 'personal communications' and 'unpublished work' should appear in the text only and not in the list of references. The name and initials of the source of information should be given. When the reference is to material that has been accepted for publication but has not yet been published, this should be indicated in the list of references by 'In press' together with the name of the relevant journal and, if possible, the expected date of publication. If such a citation is of major relevance to the manuscript submitted for publication authors are advised that the editorial process might be expedited by the inclusion of a copy of such work. In the case of quotations from personal communications the authors should state in the covering letter that permission for quotation has been obtained.

### 3.16. Solutions

Concentrations of solutions should be described where possible in molar terms (mol/l and subunits thereof), stating the molecular particle weight if necessary. Values should not be expressed in terms of normality or equivalents. Mass concentration should be expressed as g/l or subunits thereof, for example mg/l or  $\mu$ g/l. For solutions of salts, molar concentration is always preferred to avoid ambiguity as to whether anhydrous or hydrated compounds are used. Concentrations of aqueous solutions should be given as mol/l or mol/kg (g/l or g/kg if not expressed in molar terms) rather than % (w/v) or % (w/w). It should always be made clear whether concentrations of components in a reaction mixture are final concentrations or the concentrations in solutions added.

### 3.17. Spectrophotometric data

The term 'absorbance' [ $\log(I_0/I)$ ] should be used rather than 'optical density' or 'extinction'. The solvent, if other than water, should be specified. Symbols used are:  $A$ , absorbance;  $a$ , specific absorption coefficient (litre  $g^{-1} cm^{-1}$ ) (alternatively use  $A_{1cm}^{1\%}$ );  $\epsilon$ , molar absorption coefficient (numerically equal to the absorbance of a molar solution in a 1 cm light-path) (litre  $mol^{-1} cm^{-1}$ , not  $cm^2 mol^{-1}$ ).

### 3.18. Spelling

*Clinical Science and Molecular Medicine* uses as standards for spelling the *Concise* or *Shorter Oxford Dictionary of Current English* (Clarendon Press, Oxford) and *Butterworth's Medical Dictionary* (Butterworth, London).

## 3.19. Statistics

Papers are frequently returned for revision (and their publication consequently delayed) because the authors use inappropriate statistical methods. Two common errors are the use of means, standard deviations and standard errors in the description and interpretation of grossly non-normally distributed data and the application of *t*-tests for the significance of difference between means in similar circumstances, or when the variances of the two groups are non-homogeneous. In some circumstances it may be more appropriate to provide a 'scattergram' than a statistical summary.

A reference should be given for all methods used to assess the probability of a result being due to chance. The format for expressing mean values and standard deviations or standard errors of the mean is, for example: mean cardiac output 10.4 l/min (SD 1.2;  $n = 11$ ). Degrees of freedom should be indicated where appropriate. Levels of significance are expressed in the form  $P < 0.01$ .

## 3.20. Trade names

The name and address of the supplier of special apparatus and of biochemicals should be given. In the case of drugs, approved names should always be given with trade names and manufacturers in parentheses.

## 4. UNITS: THE SI SYSTEM

The recommended *Système International* (SI) units are used by *Clinical Science and Molecular Medicine*. All papers submitted should use these units except in the case of blood pressure values which should be expressed in mmHg. Airways pressure should be expressed in kPa. Where molecular weight is known, the amount of a chemical or drug should be expressed in mol or in an appropriate sub-unit, e.g. mmol. Energy should be expressed in joules (J).

The basic SI units and their symbols are as follows:

| Physical quantity         | Name     | Symbol |
|---------------------------|----------|--------|
| length                    | metre    | m      |
| mass                      | kilogram | kg     |
| time                      | second   | s      |
| electric current          | ampere   | A      |
| thermodynamic temperature | kelvin   | K      |
| luminous intensity        | candela  | cd     |
| amounts of substance      | mole     | mol    |

The following are examples of derived SI units:

| Physical quantity             | Name    | Symbol   | Definition  |
|-------------------------------|---------|----------|---|
| energy                        | joule   | J        | $\text{kg m}^2 \text{s}^{-2}$   |
| force                         | newton  | N        | $\text{kg m s}^{-2} = \text{J m}^{-1}$                                      |
| power                         | watt    | W        | $\text{kg m}^2 \text{s}^{-3} = \text{J s}^{-1}$                             |
| pressure                      | pascal  | Pa       | $\text{kg m}^{-1} \text{s}^{-2} = \text{N m}^{-2}$                          |
| electric charge               | coulomb | C        | A s   |
| electric potential difference | volt    | V        | $\text{kg m}^2 \text{s}^{-2} \text{A}^{-1} = \text{J A}^{-1} \text{s}^{-1}$ |
| electric resistance           | ohm     | $\Omega$ | $\text{kg m}^2 \text{s}^{-3} \text{A}^{-2} = \text{V A}^{-1}$               |
| electric conductance          | siemens | S        | $\text{kg}^{-1} \text{m}^{-2} \text{s}^3 \text{A}^2 = \Omega^{-1}$          |
| electric capacitance          | farad   | F        | $\text{A}^2 \text{s}^3 \text{kg}^{-1} \text{m}^{-2} = \text{A s V}^{-1}$    |
| frequency                     | hertz   | Hz       | $\text{s}^{-1}$   |
| volume                        | litre   | l        | $10^{-3} \text{m}^3$  |

The word 'litre' has been accepted as a special name for cubic decimetre ( $1 \text{ litre} = 1 \text{ dm}^3$ ).

Both the basic and derived SI units, including the symbols of derived units that have special names, may be preceded by prefixes to indicate multiples and submultiples. The prefixes should be as follows:

| Multiple   | Prefix | Symbol |
|------------|--------|--------|
| $10^6$     | mega   | M      |
| $10^3$     | kilo   | k      |
| $10^2$     | hecto  | h*     |
| 10         | deka   | da     |
| $10^{-1}$  | deci   | d*     |
| $10^{-2}$  | centi  | c*     |
| $10^{-3}$  | milli  | m      |
| $10^{-6}$  | micro  | $\mu$  |
| $10^{-9}$  | nano   | n      |
| $10^{-12}$ | pico   | p      |
| $10^{-15}$ | femto  | f      |

\* To be avoided where possible (except for cm).

Compound prefixes should not be used, e.g.  $10^{-9} \text{ m}$  should be represented by  $1 \text{ nm}$ , not  $1 \text{ m}\mu\text{m}$ .

Notes:

(i) Full stops are not used after symbols.

(ii) Minutes (min), hours (h), days and years will continue to be used in addition to the SI unit of time [the second (s)].

(iii) The solidus may be used in a unit as long as it does not have to be employed more than once, e.g. mmol/l is acceptable, but ml/min/kg is not, and should be replaced by  $\text{ml min}^{-1} \text{kg}^{-1}$ .



## 5. ABBREVIATIONS, CONVENTIONS, DEFINITIONS, SYMBOLS AND SPECIAL COMMENTS

As well as standard symbols and abbreviations that have been accepted by international bodies, and which can be used without definition, this list shows selected abbreviations in the form of groups of capital letters (e.g. ALA, ECF, MCHC) which when used must be defined in the text as indicated on p. iv. The standard abbreviations for amino acids are only for use in Figures and Tables or for peptide sequences.

|   |   |   |  |
|---|---|---|--|
| absorbance  | <i>A</i>  | complement fractions                          | C1–C9  |
| acceleration due to gravity                       | <i>g</i>  | compliance (respiratory physiology)           | C; express in l kPa <sup>-1</sup>  |
| adenosine 3':5'-cyclic monophosphate              | cyclic AMP  | concentrated concentration                    | conc.  |
| adenosine 5'-phosphate                            | AMP   | conductance (respiratory physiology)          | concn.: may be denoted [ ]; e.g. plasma [HCO <sub>3</sub> ]                          |
| adenosine 5'-pyrophosphate                        | ADP   | correlation coefficient                       | G; express in l s <sup>-1</sup> kPa <sup>-1</sup>                                    |
| adenosine 5'-triphosphate                         | ATP   | counts/min, counts/s                          | <i>r</i> : may be used without definition  |
| adenosine triphosphatase                          | ATPase  | cubic centimetres                             | c.p.m., c.p.s.   |
| adrenocorticotrophic hormone                      | ACTH  | curie   | use ml   |
| alanine   | Ala   | cycle/s                                       | Ci (1 Ci = 3.7 × 10 <sup>10</sup> d.p.s.)  |
| alternating current                               | a.c.  | cysteine                                      | Hz   |
| alveolar minute ventilation                       | <i>V</i> <sub>A</sub>   | dates   | Cys  |
| alveolar to arterial oxygen tension difference    | ( <i>P</i> <sub>A,O<sub>2</sub></sub> – <i>P</i> <sub>a,O<sub>2</sub></sub> ) | dead-space minute ventilation                 | e.g. 11 August 1970  |
| ampere  | A   | dead-space volume                             | <i>V</i> <sub>D</sub>  |
| aminolaevulinic acid                              | ALA   | degrees, Celsius or centigrade                | °C   |
| Angstrom (Å)                                      | not used; express in nm (1 Angstrom = 10 <sup>-1</sup> nm)                    | deoxy (prefix)                                | not desoxy   |
| antidiuretic hormone                              | ADH (when referring to the physiological secretion)                           | deoxycorticosterone                           | DOC  |
| arginine  | Arg   | deoxycorticosterone acetate                   | DOCA   |
| arteriovenous                                     | a–v; permitted in Figures and Tables  | deoxyribonucleic acid                         | DNA  |
| asparagine  | Asn   | dialysate                                     | diffusate preferred; 'dialysate' should be clearly defined                           |
| aspartic acid                                     | Asp   | diethylaminoethylcellulose                    | DEAE-cellulose   |
| atmosphere (unit of pressure)                     | not used; express in kPa (1 atmosphere = 101.325 kPa)                         | differential of <i>x</i> with respect to time | <i>x</i> ' (= dx/dt)   |
| atomic weight                                     | at. wt.   | 1,25-dihydroxycholecalciferol                 | 1,25-(OH) <sub>2</sub> D <sub>3</sub>  |
| blood pressure                                    | express in mmHg (with value also in kPa in parentheses)                       | dilute  | dil.   |
| blood urea nitrogen                               | not used; recalculate as urea, express in mmol/l                              | 2,3-diphosphoglycerate                        | 2,3-DPG  |
| blood volume                                      | BV  | direct current                                | d.c.   |
| body temperature and pressure, saturated          | BTPS  | disintegrations/min                           | d.p.m.   |
| British Pharmacopoeia calculated                  | write in full and give edition calc. (in Tables only)                         | disintegrations/s                             | d.p.s.   |
| 'Calorie' (= 1000 cal)                            | not used; recalculate as kilojoules (1 'Calorie' = 4.184 kJ)                  | dissociation constant                         | <i>K</i> <sub>a</sub>  |
| carbon dioxide output (in respiratory physiology) | <i>V</i> <sub>CO<sub>2</sub></sub> ; express in ml STP/min                    | acidic  | <i>K</i> <sub>b</sub>  |
| cardiac frequency                                 | <i>f</i> <sub>c</sub> ; in beats/min  | basic   | e.g. <i>K</i> ' <sub>a</sub>   |
| cardiac output                                    | express in l/min  | apparent                                      | pK   |
| centimetre  | cm  | minus log of                                  | avoid Latin designations such as b.d. and t.i.d.                                     |
| clearance of <i>x</i>                             | <i>C</i> <sub><i>x</i></sub>  | doses   | not used; express in newtons (1 dyne = 10 <sup>-5</sup> N)                           |
| Coenzyme A and its acyl derivatives               | CoA and acyl-CoA  | dyne  | <i>E</i> ; express in Pa m <sup>-3</sup>   |
| compare   | cf.   | elastance                                     | ECG  |
|   |   | electrocardiogram                             | EEG  |
|   |   | electroencephalogram                          | e.m.f.   |
|   |   | electromotive force                           | e.s.r.   |
|   |   | electron spin resonance                       | eV (for radiation energies)  |
|   |   | electronvolt                                  | eqn.   |
|   |   | equation                                      | not used; recalculate in molar terms   |
|   |   | equivalents (amount of a chemical)            | express as 10 <sup>12</sup> cells/l  |
|   |   | erythrocyte count                             | ESR  |
|   |   | erythrocyte sedimentation rate                | not ethyl alcohol or alcoholic   |
|   |   | ethanol, ethanolic                            | EDTA   |
|   |   | ethylenediaminetetra-acetate                  | Na <sub>a</sub> , K <sub>a</sub> etc., for total exchangeable sodium, potassium etc. |
|   |   | exchangeable                                  | Expt.: plural, Expts.  |
|   |   | Experiment (with reference numeral)           | <i>V</i> <sub>E</sub>  |
|   |   | expired minute ventilation                    | use absorbance   |
|   |   | extinction                                    | ECF  |
|   |   | extracellular fluid                           | ECFV   |
|   |   | extracellular fluid volume                    | <i>E</i> <sub><i>x</i></sub>   |
|   |   | extraction ratio of <i>x</i> (renal)          | Fig.; plural Figs.   |
|   |   | Figure (with reference numeral)               | <i>F</i> <sub><i>x</i></sub>   |
|   |   | filtered load of <i>x</i> (renal)             |  |

|  |   |   |  |
|--|---|---|--|
| follicle-stimulating hormone                           | FSH   | lactate dehydrogenase                       | LDH  |
| forced expiratory volume in 1.0 s                      | FEV <sub>1.0</sub>  | leucine                                     | Leu  |
| fractional concentration in dry gas                    | <i>F</i>  | leucocyte count                             | express as 10 <sup>6</sup> cells/l   |
| fractional disappearance rate                          | <i>k</i> (as in $A = A_0 e^{-kt}$ )   | lipoproteins (serum)                        |  |
| frequency of respiration                               | <i>f<sub>R</sub></i> ; in breaths/min   | high density                                | HDL  |
| functional residual capacity                           | FRC   | low density                                 | LDL  |
| gas-liquid chromatography                              | g.l.c.  | very low density                            | VLDL   |
| gas transfer factor                                    | <i>T</i> ; in mmol min <sup>-1</sup> kPa <sup>-1</sup>  | litre                                       | l (write in full if confusion with the numeral 1 is possible)              |
| glomerular filtration rate                             | GFR   | logarithm (base 10)                         | log  |
| glutamic acid  | Glu   | logarithm (base e)                          | ln   |
| glutamine  | Gln   | luteinizing hormone                         | LH   |
| glutathione  | GSH (reduced); GSSG (oxidized)  | lysine                                      | Lys  |
|  |   | maximum                                     | max.   |
| glycine  | Gly   | mean corpuscular haemoglobin                | MCH; express in pg   |
| gram(me)   | g   | mean corpuscular haemoglobin concentration  | MCHC; express in g/dl  |
| gravitational field, unit of (9.81 m s <sup>-2</sup> ) | <b>g</b>  | mean corpuscular volume                     | MCV; express in fl (1 μm <sup>3</sup> = 1 fl)                              |
| growth hormone   | GH; if human, HGH   | median lethal dose                          | LD <sub>50</sub>   |
| haematocrit  | not allowed; use packed cell volume (PCV)   | meta-                                       | <i>m-</i>  |
| haemoglobin  | Hb; express in g/dl   | melting point                               | m.p.   |
| half-life  | <i>t<sub>1/2</sub></i>  | methanol, methanolic                        | <i>not</i> methyl alcohol  |
| hertz (s <sup>-1</sup> )                               | Hz  | methionine                                  | Met  |
| histidine  | His   | metre                                       | m  |
| hour   | h   | Michaelis constant                          | <i>K<sub>m</sub></i>   |
| human chorionic gonadotrophin                          | HCG   | micromole                                   | μmol   |
| human placental lactogen                               | HPL   | micron (10 <sup>-6</sup> m)                 | μm; <i>not</i> μ   |
| hydrocortisone   | use cortisol  | millequivalent                              | <i>not used</i> ; give amount in mmol                                      |
| hydrogen ion activity minus log of                     | aH; express in nmol/l pH  | millilitre                                  | ml   |
| 25-hydroxycholecalciferol                              | 25-(OH)D <sub>3</sub>   | millimetre of mercury                       | mmHg; for blood pressure only: see p. vii (1 mmHg = 0.133 kPa)             |
| hydroxyproline   | Hyp   | millimolar (concentration)                  | mmol/l; <i>not</i> mM  |
| immunoglobulins  | IgA, IgD, IgE, IgG, IgM   | millimole                                   | mmol   |
| injections routes:                                     | use abbreviations only in Figures   | minimum                                     | min.   |
| intra-arterial   | i.a.  | minute (60 s)                               | min  |
| intramuscular  | i.m.  | molal                                       | mol/kg   |
| intraperitoneal  | i.p.  | molar (concentration)                       | mol/l; <i>not</i> M  |
| intravenous  | i.v.  | molar absorption coefficient                | ε (the absorbance of a molar solution in a 1 cm light-path)                |
| subcutaneous   | s.c.  |   | mol  |
| international unit                                     | i.u. (definition and reference should be given for uncommon or ambiguous applications, e.g. enzymes)  | mole  | mol. wt.   |
| intracellular fluid                                    | ICF   | molecular weight                            | NAD if oxidation state not indicated                                       |
| intracellular fluid volume                             | ICFV  | nicotinamide-adenine dinucleotide           | NAD <sup>+</sup> if oxidized   |
| ionic strength   | <i>I</i>  |   | NADH if reduced  |
| isoleucine   | Ile   | nicotinamide-adenine dinucleotide phosphate | NADP if oxidation state not indicated                                      |
| isotonic   | <i>not used</i> ; specify composition of fluid, e.g. NaCl, 150 mmol/l   |   | NADP <sup>+</sup> if oxidized  |
| isotopically labelled compounds                        | e.g. [U- <sup>14</sup> C]glucose, [1- <sup>14</sup> C]glucose, sodium [1- <sup>14</sup> C]acetate; use <sup>131</sup> I-labelled albumin, <i>not</i> [ <sup>131</sup> I]albumin, since native albumin does not contain iodine | normal                                      | NADPH if reduced   |
|  | for simple molecules: <sup>14</sup> CO <sub>2</sub> , <sup>3</sup> H <sub>2</sub> O   | normal temperature and pressure             | should not be used to denote the concentration or osmolarity of a solution |
| joule  | J   | nuclear magnetic resonance                  | use standard temperature and pressure (STP)                                |
| kilogram(me)   | kg  | number (in enumerations)                    | n.m.r.   |
| kilopond   | <i>not used</i> ; 1 kilopond = 9.8067 N   | observed                                    | no. (in Tables only)   |
|  |   | ohm   | obs. (in Tables only)  |
|  |   | ornithine                                   | Ω  |
|  |   | ortho-                                      | Orn  |
|  |   | orthophosphate (inorganic)                  | <i>o-</i>  |
|  |   |   | P <sub>i</sub>   |

|  |   |  |  |
|--|---|--|--|
| osmolar  | osmol (or mosmol/l) (the concentration producing an osmotic pressure equal to that of a molar solution of a perfect solute) | solvent systems                                    | e.g. butanol/acetic acid/water (4 : 1 : 1, by vol.), butanol/acetic acid (4 : 1, v/v)  |
| oxygen uptake per minute (in respiratory physiology)   | $\dot{V}O_2$ ; express in ml STP/min  | species  | sp., plural spp.   |
| packed cell volume   | PCV   | specific activity                                  | sp. act. Confusion must be avoided between e.g. specific radioactivity and the specific activity of an enzyme  |
| page, pages  | p., pp.   | specific conductance of airways                    | sGaw; express in $s^{-1} \text{ kPa}^{-1}$   |
| para-  | p-  | standard deviation                                 | SD } may be used   |
| para-aminohippurate  | PAH   | standard error of the mean                         | SEM } without definition   |
| partial pressure   |   | standard temperature and pressure                  | STP  |
| e.g. alveolar, of $O_2$  | $P_{A,O_2}$   | steroid nomenclature                               | see <i>Biochemical Journal</i> (1969) 113, 5–28; (1972) 127, 613–617   |
| arterial, of $CO_2$  | $P_{a,CO_2}$  |  |  |
| capillary, of $O_2$  | $P_{C,O_2}$   |  |  |
| mixed venous, of $CO_2$  | $P_{v,CO_2}$  |  |  |
| pascal   | Pa  |  |  |
| per  | /   |  |  |
| per cent   | %   | sulphydryl   | use thiol or SH  |
| petroleum ether  | not used; use light petroleum and give boiling range  | sum  | $\Sigma$   |
|  |   | Svedberg unit                                      | S  |
| phenylalanine  | Phe   | temperature (absolute)                             | $T$  |
| plasma renin activity  | express as pmol of angiotensin $l \text{ h}^{-1} \text{ ml}^{-1}$   | (empirical)  | $t$  |
|  |   | temperature, thermodynamic                         | $^{\circ}\text{K}$   |
| plasma volume  | PV  | units of   |  |
| poise  | 1 poise = $10^{-1} \text{ N s m}^{-2}$  | thin-layer chromatography                          | t.l.c.   |
| potential difference   | p.d.  | threonine  | Thr  |
| power output   | W (1 W = 0.1635 kpm/min)  | thyrotrophic hormone                               | TSH  |
| precipitate  | ppt.  | thyrotrophin releasing hormone                     | TRH  |
| pressure   | $P$ ; express in kPa (except for blood pressures); 1 kPa = 7.5 mmHg   | tidal volume                                       | $V_T$  |
|  |   | time (symbol)                                      | $t$  |
| probability of an event being due to chance alone  | $P$   | time of day  | e.g. 18.15 hours   |
| proline  | Pro   | torr   | not used; use kPa (1 torr = 0.133 kPa)   |
| protein-bound iodine (plasma)  | PBI   | total lung capacity                                | TLC  |
| pulmonary capillary blood flow   | $\dot{Q}_c$   | tryptophan   | Trp  |
| pyrophosphate (inorganic)  | PPi   | tubular maximal reabsorptive capacity for x        | $T_{m,x}$  |
| rad (absorbed radiation dose; $10^{-3} \text{ J absorbed/g of material}$ )                                     | not abbreviated   | tyrosine   | Tyr  |
| red blood cell   | use erythrocyte; express counts as $10^{12} \text{ cells/l}$  | ultraviolet  | u.v.   |
|  |   | urinary concentration of x                         | $U_x$  |
| red cell mass  | RCM   | valency  | e.g. $Fe^{2+}$ , not $Fe^{++}$   |
| relative band speed (partition chromatography)   | $R_F$   | valine   | Val  |
| rem effective absorbed radiation dose; ( $10^{-5} \text{ J absorbed/g of material}$ )/radiation quality factor | not abbreviated   | variance ratio                                     | $F$  |
| renin  | see plasma renin activity   | vascular resistance                                | express in $\text{kPa l}^{-1} \text{ s}$ (with value in dyne $\text{cm s}^{-5}$ in parentheses); primary values of differential vascular pressure (mmHg) and flow (l/min) should always also be given in Tables or text as appropriate |
| residual volume  | RV  | velocity   | $v$ ; express as $\text{m s}^{-1}$   |
| resistance (rheological)   | $R$ ; express in $\text{kPa l}^{-1} \text{ s}$  | venous admixture                                   | $\dot{Q}_{va}$   |
| respiratory quotient (time-averaged)   | $R$   | veronal  | used only for buffer mixtures; otherwise use 5,5'-diethylbarbituric acid   |
| revolutions  | rev.  | viscosity, dynamic                                 | $\nu$  |
| rev./min   | not r.p.m.; see g if possible (see p. ix)   | viscosity, kinematic                               | $\zeta$  |
| ribonucleic acid   | RNA   | vital capacity                                     | VC   |
| röntgen  | R   | volt   | V  |
| saturation   | S, e.g. $S_{a,O_2}$ for arterial oxygen saturation (see partial pressure for other analogous abbreviations)                 | volume of blood (in cardio-respiratory physiology) | $\dot{Q}$ ; use $\dot{Q}$ for blood flow rate  |
|  |   | watt   | W  |
| second (time)  | s   | wavelength   | $\lambda$  |
| serine   | Ser   | weight   | wt.  |
|  |   | white blood cell                                   | use leucocyte; express counts as $10^9 \text{ cells/l}$  |

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#### Correction

DRAY, F. Bartter's syndrome: contrasting patterns of prostaglandin excretion in children and adults. *Clinical Science and Molecular Medicine*, 54, 115-118

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