1. POLICY OF THE JOURNAL

1.1. Scope

Clinical Science 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 Editorial Reviews, Full Papers, Short Communications and Correspondence. In addition, Clinical Science 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 Editors for the Medical Research Society and the Biochemical Society and a Chairman and two Deputy Chairmen 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 or one of the Deputy Chairmen 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, a 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 work that has not been published in either the same or a substantially similar form, that it is not under consideration for publication elsewhere and that, if accepted for publication by Clinical Science, 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 or previous publications. The author, or in the case of multiple authorship the authors, will be asked to sign a statement vesting the copyright in the publishers. Requests for consent for reproduction of material published in Clinical Science should be addressed to the Editorial Manager.

2. SUBMISSION OF MANUSCRIPTS:
GENERAL INFORMATION
AND FORMAT

2.1. General

Papers submitted for publication should be sent to the Editorial Manager, Clinical Science, 7 Warwick Court, London WC1R 5DP.

The submission should contain four copies (of which three 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, copies or reprints of the publication should be sent 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. Papers returned by authors later than 12 months after the original submission date will be treated as new papers. 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 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 usually published in the January issue 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. 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. v for the correct format.

(i) Figures and Tables. See p. iv.

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 original observations or critical assessments of material published in Clinical Science, including Editorial Reviews, will be considered for the Correspondence section of the journal. Letters should be no longer than 750 words, with one Figure or Table and up to six references, or 1000 words maximum without a Figure or Table. Letters relating to material previously published in Clinical Science should be submitted 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

Fifty 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 are available on-line on teleprinters participating in the
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 is on p. vi. Numbers, not initials, should be used for patients and subjects.

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 binomial 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. Computer modelling

Papers concerned primarily with computer modelling techniques are acceptable provided that use of such techniques leads to a clear choice between two or more alternative hypotheses, or to the formulation of a new hypothesis amenable to experimental challenge or verification, or provides some new insight into the behaviour of a particular physiological system. Extensive technical details of hardware and software should not be given.

3.6. 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.

3.7. Enzymes

Nomenclature should follow that given in Enzyme Nomenclature (1978), Academic Press, London and New York, and the Enzyme Commission (EC) number 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 μmol 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.

3.8. 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.

3.9. 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.

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. Acceptable symbols for experimental points are $\bullet$, $\triangle$, $\blacksquare$, $\bigcirc$, $\square$. The symbols $\times$ 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, nor 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 half-tone reproduction 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.

3.10. Footnotes
These should be avoided as far as possible but where they are used in Tables they should be identified by the symbols $\bullet$ $\dagger$ $\ddagger$ $\|$ $\$, in that order.

3.11. Isotope measurements
The information given should include (a) conditions of radioactivity counting, e.g. infinitely thick, infinitely thin; (b) the nature of the phosphor used in liquid-scintillation counting; (c) details of corrections made to the observed count rate, e.g. for ‘quenching’ or ‘cross-over’; (d) standard deviation of the results or a statement of the minimum total counts above background collected and the background value.

In general the specific radioactivity of the starting materials should be given, preferably in terms of radioactivity per unit weight or, for stable isotopes, as atoms % excess.

Pending the general introduction of SI units radioactivity should continue to be expressed in terms of the curie (Ci) followed by the corresponding figure in terms of the becquerel (Bq: disintegrations/s), in parentheses, and suitably rounded.

3.12. Radionuclide applications in man
If new or modified radionuclide applications in man are described, an estimate of the maximal possible radiation dose to the body and critical organs should be given.

For the time being this can continue to be expressed in rems, but with the corresponding figure in sieverts (Sv) given in parentheses after it.

3.13. 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 (1981) 193, 1–21).

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

3.15. 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 $10^2k$ means that the value of $k$ is 0.002; an entry ‘2’ under the heading $10^{-2}k$ 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. (mol/l)’ but not as 15 under the heading ‘concn. (mol/l) x $10^{-3}$’.

3.16. References
The numerical citation system is now used: references in the text are numbered consecutively in the order in which they are first mentioned, the numerals being given in brackets, e.g. [22]. References cited in Figure legends or Tables only should be numbered in a sequence determined by the position of the first mention in the text of the Figure or Table. References should be listed in
numerical order and the names of all authors of a paper should be given, with the full title of the paper and the source details in full including the first and last page numbers, e.g.


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


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.

3.17. Solutions

Concentration 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 μg/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.

3.18. Spectrophotometric data

The term ‘absorbance’ [log(I/F)] 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 A₁%); ε, molar absorption coefficient (the absorbance of a molar solution in a 1 cm light-path) (litre mol⁻¹ cm⁻¹, not cm² mol⁻¹).

3.19. Spelling


3.20. 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.

3.21. 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 [see *Quantities, Units and Symbols*, 2nd edn (1975) The Royal Society, London] are used by *Clinical Science*. All papers submitted should use these units except for blood pressure values, which should be expressed in mmHg, or gas tensions, where values at the author’s discretion may be given as mmHg (with kPa in parentheses) or as kPa (with mmHg in parentheses) in the text and either as mmHg or as kPa in Figures, which (if practicable) should have scales in both units. 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 subunit, e.g. mmol. Energy should be expressed in joules (J).

The basic SI units and their symbols are as follows:

<table>
<thead>
<tr>
<th>Physical quantity</th>
<th>Name</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>length</td>
<td>metre</td>
<td>m</td>
</tr>
<tr>
<td>mass</td>
<td>kilogram</td>
<td>kg</td>
</tr>
<tr>
<td>time</td>
<td>second</td>
<td>s</td>
</tr>
<tr>
<td>electric current</td>
<td>ampere</td>
<td>A</td>
</tr>
<tr>
<td>thermodynamic temperature</td>
<td>kelvin</td>
<td>K</td>
</tr>
<tr>
<td>luminous intensity</td>
<td>candela</td>
<td>cd</td>
</tr>
<tr>
<td>amounts of substance</td>
<td>mole</td>
<td>mol</td>
</tr>
</tbody>
</table>

The following are examples of derived SI units:

<table>
<thead>
<tr>
<th>Physical quantity</th>
<th>Name</th>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>energy</td>
<td>joule</td>
<td>J</td>
<td>kg m² s⁻²</td>
</tr>
<tr>
<td>force</td>
<td>newton</td>
<td>N</td>
<td>kg m s⁻¹</td>
</tr>
<tr>
<td>power</td>
<td>watt</td>
<td>W</td>
<td>kg m² s⁻³</td>
</tr>
<tr>
<td>pressure</td>
<td>pascal</td>
<td>Pa</td>
<td>kg m⁻⁴</td>
</tr>
<tr>
<td>electric charge</td>
<td>coulomb</td>
<td>C</td>
<td>A s</td>
</tr>
<tr>
<td>electric potential</td>
<td>volt</td>
<td>V</td>
<td>kg m² s⁻² A⁻¹</td>
</tr>
<tr>
<td>difference</td>
<td></td>
<td></td>
<td>= J A⁻¹ s⁻¹</td>
</tr>
<tr>
<td>electric resistance</td>
<td>ohm</td>
<td>Ω</td>
<td>kg m² s⁻³ A⁻²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>= V A⁻¹</td>
</tr>
<tr>
<td>electric conductance</td>
<td>siemens</td>
<td>S</td>
<td>kg m⁻¹ m² s⁻³ A²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>= Ω s⁻¹</td>
</tr>
<tr>
<td>electric capacitance</td>
<td>farad</td>
<td>F</td>
<td>A² s⁻¹ kg⁻¹ m⁻²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>= Ω s⁻¹</td>
</tr>
<tr>
<td>frequency</td>
<td>hertz</td>
<td>Hz</td>
<td>s⁻¹</td>
</tr>
<tr>
<td>volume</td>
<td>litre</td>
<td>l</td>
<td>10⁻³ m³</td>
</tr>
</tbody>
</table>

The word ‘litre’ has been accepted as a special name for cubic decimetre (1 litre = 1 dm³).

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:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Symbol</th>
<th>Multiple</th>
<th>Prefix</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>10⁶</td>
<td>mega</td>
<td>10⁻³</td>
<td>milli</td>
<td>m</td>
</tr>
<tr>
<td>10³</td>
<td>kilo</td>
<td>10⁻⁴</td>
<td>micro</td>
<td>μ</td>
</tr>
<tr>
<td>10²</td>
<td>hecto</td>
<td>10⁻⁹</td>
<td>nano</td>
<td>n</td>
</tr>
<tr>
<td>10⁻¹</td>
<td>deka</td>
<td>10⁻¹²</td>
<td>pico</td>
<td>p</td>
</tr>
<tr>
<td>10⁻²</td>
<td>deci</td>
<td>10⁻¹⁵</td>
<td>femto</td>
<td>f</td>
</tr>
</tbody>
</table>

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

Compound prefixes should not be used, e.g. 10⁻⁹ m should be represented by 1 nm, not 1 μm.

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 solids 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 ml min⁻¹ 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 A
acceleration due to gravity g
adenosine 3', 5'-cyclic monophosphate cyclic AMP
adenosine 5'-phosphate AMP
adenosine 5'-pyrophosphate ADP
adenosine 5'-triphosphate ATP
adenosine triphosphatase ATPase
adrenocorticotropic hormone ACTH
adrenoceptor (see also blocking agents) alpha
alternating current a.c.
alveolar minute ventilation Vα
alisine Ala
alveolar to arterial oxygen tension difference (Pα, Ao2 - Pa, O2)
alanine Ala
arginine Arg
arteriovenous a-v: permitted in Figures and Tables
asparagine Asn
aspartic acid Asp
atmosphere (unit of pressure) not used; express in kPa (1 atmosphere = 101.325 kPa)
at. wt.
atomic weight (Bq (1 d.p.s.))
becquerel e.g. β-adrenoceptor antagonists preferred
blocking agents express in mmHg
blood pressure not used; recalculate as urea, express in mmol/l
blood urea nitrogen
blood volume BV
body temperature and pressure, saturated BTPS
write in full and give edition
calc. (in Tables only) not used; recalculate as kilojoules (1 'Calorie' = 4.184 kJ)

British Pharmacopoeia 'Calorie' (= 1000 cal)
carbon dioxide output (in respiratory physiology)
cardiac frequency
cardiac output
centimetre
clearance of x coenzyme A and its acyl derivatives
compare
complement fractions
compliance (respiratory physiology)
concentrated
concentration
correct conductance (respiratory physiology)
correlation coefficient
counts/min, counts/s
cubic centimetres
curie
cycle/s
cysteine
dates
dead-space minute ventilation
dead-space volume
degrees, Celsius or centigrade
deoxy (prefix)
deoxycorticosterone
deoxycorticosterone acetate
deoxyribonucleic acid
dialysate
diethylaminoethylcellulose differential of x with respect to time
1,25-dihydroxycholecalciferol dilute
2,3-diphosphoglycerate
direct current
disintegrations/min
disintegrations/s
dissociation constant acidic basic apparent minus log of
doses
dyne
elastance
electrocardiogram
electroencephalogram
guidance for authors
electromotive force
electron spin resonance
electronvolt
equation
equivalents (amount of a chemical)
erthyrocyte count
erthyrocyte sedimentation rate
euthanol, ethanolic
ethylaminitetra-acetate exchangeable

Experiment (with reference numeral)
expired minute ventilation
extracellular fluid
extracellular fluid volume
fractional concentration in dry gas
fractional disappearance rate
frequency of respiration
functional residual capacity
gas—liquid chromatography
gas transfer factor
glomerular filtration rate
glutamic acid
glutathione
glycine
gram(me)
gravitational field, unit of
hertz
histidine
hour
human chorionic gonadotropin
human placental lactogen
hydrocortisone
hydrogen ion activity
human plasma
immunoglobulins
e.m.f.
es.r.
eV (for radiation energies)
eqn. not used; recalculate in molar terms
express as 10^12 cells/l
ESR
not ethyl alcohol or alcoholic
EDTA
Na+, K+, etc., for total exchangeable sodium, potassium etc.
Expt.; plural, Expts.

V̇′, use absorbance

K, g (as in A = A₀e^−kt)
fR, in breaths/min
FRC
g.l.c.
T; in mmol min⁻¹ kPa⁻¹
GFR
Glu
Gln
GSH (reduced); GSSG (oxidized)

Gly

F

k̇ (as in A = A₀e^−kt)
d; use packed cell volume (PCV)

Hb; express in g/dl

H, Hz

Hist
d

HCG

HPL

use cortisol

aH; express in nmol/l

Hyp

IgA, IgD, IgE, IgG, IgM
Injection routes:
- intra-arterial
- intramuscular
- intraperitoneal
- intravenous
- subcutaneous

International unit

Intracellular fluid
Intracellular fluid volume
Ionic strength
Isoleucine
Isotonic

Isotopically labelled compounds

Joule
Kilogram (me)
Kilopond

Lactate dehydrogenase
Leucine
Leucocyte count
Lipoproteins (serum)
High density
Low density
Very low density

Litre

Logarithm (base 10)
Logarithm (base e)
Luteinizing hormone
Lysine
Maximum
Mean corpuscular haemoglobin
Mean corpuscular haemoglobin concentration
Mean corpuscular haemoglobin concentration volume

Median lethal dose
Melting point
Methanol, methanolic
Methionine
Metre
Michaelis constant
Micromole
Micron (10^-4 m)
Milliequivalent
Millilitre

Use abbreviations only in figures

I.a.
I.m.
I.p.
I.v.
S.c.
I.u. (definition and reference should be given for uncommon or ambiguous applications, e.g. enzymes)

I.C.F.
I.C.F.V.
I.
Ile

Not used; specify composition of fluid, e.g. NaCl, 150 mmol/l

E.g. [1-14C]glucose, [1-14C]glucose, sodium [1-14C]-acetate; use 131I-labelled albumin, not [131I]albumin for simple molecules: 14CO2, H2O

Mole

Molecular weight
Nicotinamide-adenine dinucleotide

Nicotinamide adenine dinucleotide phosphate

Normal

Normal temperature and pressure

Nuclear magnetic resonance number (in enumerations)

Osmolarity

Oxygen uptake per minute (in respiratory physiology)

Packed cell volume

Page, pages

Para-

Para-aminohippurate partial pressure

E.g. alveolar, of O2 arterial, of CO2 capillary, of O2 mixed venous, of CO2

Pascal

Per cent

Petroleum ether

Phenylalanine

Plasma renin activity

Plasma volume

Poise

Millimetre of mercury

Millimolar (concentration)

Millimole

Minimum

Minute (60 s)

Molar (concentration)

Molar absorption coefficient

Mole

Molecular weight

Nicotinamide-adenine dinucleotide

Nicotinamide adenine dinucleotide phosphate

Normal

Normal temperature and pressure

Use standard temperature and pressure (STP)

N.m.r.

No. (in tables only)

Obs. (in tables only)

K

Express in osmol (or mosmol/l)

VO2; express in ml STP/min

PCV

Pp.

P-

Paint

Express in either kPa or mmHg (see p. vi)

PAO2

PCO2

Pcapo

Pvco2

Pa

% not used; use light petroleum and give boiling range

Phe

Express as pmol of angiotensin I h^-1 ml^-1

PV

1 poise = 10^-1 N s m^-2

NAD if oxidation state not indicated

NADH if reduced

NADPH if oxidized

NADP if oxidation state not indicated

NADPH if oxidized

Should not be used to denote the concentration or osmolarity of a solution

Denote the concentration or osmolarity of a solution

Use standard temperature and pressure (STP)

N.m.r.

No. (in tables only)

Obs. (in tables only)

K

Express in osmol (or mosmol/l)

VO2; express in ml STP/min

PCV

Pp.

P-

Paint

Express in either kPa or mmHg (see p. vi)

PAO2

PCO2

Pcapo

Pvco2

Pa

% not used; use light petroleum and give boiling range

Phe

Express as pmol of angiotensin I h^-1 ml^-1

PV

1 poise = 10^-1 N s m^-2
Guidance for Authors

potential difference  power output
precipitate  pressure
probability of an event being due to chance alone
proline  protein-bound iodine (plasma)
pulmonary capillary blood flow
pyrophosphate (inorganic)
radiation dose; absorbed/g of material
red blood cell
relative band speed (partition chromatography)
rem
renin
residual volume
resistance (rheological)
respiratory exchange ratio (pulmonary)
respiratory quotient (metabolic)
revolutions
rev./min
ribonucleic acid
röntgen
saline
saturation
second (time)
serine
sievert
solvent systems
species
specific activity

specific conductance of airways
standard deviation
standard error of the mean
standard temperature and pressure
steroid nomenclature

sulphhydryl
sum
Svedberg unit
(absolute)
(temperature; empirical)
temperature, thermodynamic
thin-layer chromatography
threonine
thyrotrophic hormone
thyrotrophin-releasing hormone
tidal volume
time (symbol)
time of day
tor activity

total lung capacity
tryptophan
tubular maximal reabsorptive capacity for x
valency
valine
variance ratio
vascular resistance

express in s^{-1} kPa^{-1}
may be used without definition

using thiol or SH

use e.g. 18.15 hours
not used; use kPa (1 torr = 0.133 kPa)
TLC
Trp
T_{m,x}
Tyr
u.v.
e.g. Fe^{2+}, not Fe^{3+}
Val

express in kPa l^{-1} s (with value in dyn s cm^{-1}
in parentheses); primary values of differential vascular pressure (mmHg) and flow (l/min) should always also be given in Tables or text as appropriate

use as m s^{-1}
Q_{a}
used only for buffer mixtures; otherwise use 5,5'-diethylbarbituric acid

η
ν
VC
V
Q_{a}; use Q for blood flow rate
W
λ
wt.

use leucocyte: express counts as 10^{9} cells/l
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