Guidelines for levels and kinds of evidence to support indications and claims
For Non-Registerable Medicines, including Complementary Medicines, and other Listable Medicines
Version 1.1, April 2011
About the Therapeutic Goods Administration (TGA)

- The TGA is a division of the Australian Government Department of Health and Ageing, and is responsible for regulating medicines and medical devices.
- The TGA administers the Therapeutic Goods Act 1989 (the Act), applying a risk management approach designed to ensure therapeutic goods supplied in Australia meet acceptable standards of quality, safety and efficacy (performance), when necessary.
- The work of the TGA is based on applying scientific and clinical expertise to decision-making, to ensure that the benefits to consumers outweigh any risks associated with the use of medicines and medical devices.
- The TGA relies on the public, healthcare professionals and industry to report problems with medicines or medical devices. The TGA investigates reports received by it to determine any necessary regulatory action.
- To report a problem with a medicine or medical device, please see the information on the TGA website.
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Executive summary

These guidelines have been developed to assist sponsors in determining the appropriate evidence to support indications and claims made in relation to Listable medicines. In particular, they relate to complementary medicines, sunscreens and other Listable medicines. This Executive Summary provides a brief overview of how to support indications and claims for these medicines. Before using an indication or making a claim, you are strongly encouraged to read the entire document to ensure you are fully informed of all requirements.

Indications and claims can be based on evidence of traditional use of a substance or product and/or on scientific evidence. Indications / claims and evidence are categorised as being 'general', 'medium' or 'high' level.

How to make indications / claims based on evidence of traditional use

To make an indication or claim based on evidence of traditional use, sponsors must first assess the level of the evidence supporting the claim.

If you hold one of the following four sources of evidence, you hold general level evidence.

1. TGA-approved Pharmacopoeia.
2. TGA-approved Monograph.
3. Three independent written histories of use in the classical or traditional medical literature.
4. Availability through any country's government public dispensaries for the indication claimed.

If you hold two of the above sources of evidence, you hold medium level evidence. Of course, the evidence, whether it is medium or general level, must support the indications or claims that you intend to make for your product.

If you hold general level evidence, you can make general level indications and claims. These include indications and claims relating to:

- Health maintenance, including nutritional support;
- Vitamin or mineral supplementation; and
- Relief of symptoms (not related to a named disease, disorder or condition).

If you hold medium level evidence, you can make medium level indications and claims. These include the following kinds of indications and claims:

- Health enhancement;
- Reduction of risk of a disease / disorder / condition;
- Reduction in frequency of a discrete event;
- Aids / assists in the management of a named symptom / disease / disorder / condition; and
- Relief of symptoms of a named disease, disorder or condition.
All indications / claims based on evidence of traditional use must be worded to the effect that “This (tradition) medicine has been traditionally used for (indication)”. This applies to general and medium level indications / claims.

High level indications and claims are not permitted based on evidence of traditional use.

Similar principles apply to making indications and claims based on evidence of traditional use for homoeopathic and aromatherapy products.

**How to make indications/claims based on scientific evidence**

To make indications / claims based on scientific evidence sponsors must first assess the level of the evidence supporting the indication / claim.

Sponsors who hold general level evidence can make general level indications and claims. General level evidence includes:

1. Descriptive studies, case series or reports of relevant expert committees;
2. Texts, such as TGA-approved Pharmacopoeias or monographs; and
3. Other evidence based reference texts.

General level indications / claims include indications / claims relating to:

- Health maintenance, including nutritional support;
- Vitamin or mineral supplementation; and
- Relief of symptoms (not related to a named disease, disorder or condition).

The following kinds of evidence constitute medium level evidence:

- Evidence obtained from well-designed controlled trials without randomisation. In the case of a homoeopathic preparation, evidence from well-designed, controlled homoeopathic proving;
- Evidence obtained from well designed analytical studies preferably from more than one centre or research group, including epidemiological cohort and case-control studies; and
- Evidence obtained from multiple time series with or without intervention, including within country and between country population studies.

*(NOTE: In practice, the sources of most medium level evidence will be peer-reviewed published papers or evidence-based reference texts. However, other evidence that meets the requirements may also be acceptable. Websites evaluating peer-reviewed published evidence may be a source of suitable evidence.)*

If you hold medium level evidence, you can make medium level indications and claims providing the evidence supports those indications / claims. Medium level indications / claims include indications / claims relating to:

- Health enhancement;
- Reduction of risk of a disease / disorder / condition;
- Reduction in frequency of a discrete event;
- Aids / assists in the management of a named symptom / disease / disorder/ condition; &
• Relief of symptoms of a named disease, disorder or condition.

Medium and general level indications and claims may only be made for minor, self-limiting conditions. Serious diseases or disorders may not be mentioned in medium or general level indications / claims.

High level indications / claims are indications or claims that refer to serious diseases or disorders or which relate to:

• Treatment, cure or management of any disease / disorder / condition;
• Prevention of any disease, disorder or condition;
• Treatment of a specific named vitamin or mineral deficiency diseases.

High level indications / claims require scientific evidence obtained from:

• a systematic review of all relevant randomised, controlled trials without significant variations in the directions and degrees of results; or
• at least one properly designed, randomised controlled (preferably multi-centre) double blind trial. It is preferable to have data from at least two trials independent of each other, but in some cases, one large well-conducted trial may suffice. Advice should be sought from the TGA.

You can only make high level indications / claims for Registerable medicines. Listable medicines cannot carry high level indications and claims.

All indications / claims must be true, valid and not misleading, and should not lead to unsafe or inappropriate use of the product. Evidence must relate to the whole product or the same active constituent(s) with similar dosage regimen, dose form and route of administration to the product / ingredient for which a claim is being made. Sponsors must hold evidence in line with these guidelines before claiming an intended use / indication for a product.
Introduction

These guidelines have been developed to assist sponsors in determining the appropriate evidence to support indications and claims made in relation to Listable medicines. In particular, they relate to complementary medicines, sunscreens and other Listable medicines. A glossary of terms used in these Guidelines is provided at Attachment 1.

The Therapeutic Goods Act 1989 requires that at the time of Listing sponsors must hold the evidence to support indications and claims made in relation to Listable goods. All indications and claims made about therapeutic goods must be capable of substantiation – that is, evidence must be held by sponsors which demonstrates the indications and claims are true, valid and not misleading.

Listable goods are those products that meet the requirements of Schedule 4 of the Therapeutic Goods Regulations 1990 (the Regulations). Goods which do not meet the requirements of Schedule 4, and which are not exempt in Schedule 5, are Registrable. For guidance on the evidence requirements to support indications / claims for Registrable goods, these guidelines should be read in conjunction with other relevant guidelines published by the Therapeutic Goods Administration (TGA). Evidence to support indications / claims for Registrable goods must be submitted to the TGA for evaluation.

The Therapeutic Goods Administration (TGA) evaluates the evidence to support indications / claims and grants or denies approval for the supply of products that meet the requirements of Schedule 4.

The regulation of listable complementary and other non-prescription medicines in Australia requires that they meet appropriate safety and quality standards. Registrable products are also evaluated for efficacy prior to being granted approval for their supply. These are products which contain active ingredients that are not exempted and/or which are not included in Schedule 4 of the Regulations, or that carry high level or first class Registrable indications / claims as defined in these guidelines.

The sponsors of other products, Listed medicines, must hold appropriate evidence to support indications / claims on their products at the time of Listing. This evidence may be called in and evaluated by the TGA if a safety concern arises, indications / claims appear to be misleading, or in response to a complaint.

“AUST R” products are registered products that have been individually evaluated for safety, quality and efficacy. “AUST L” products are Listed non-prescription medicines and medical devices. Substances in Listable medicines are recognised as being of low risk, and are those that are included in Schedule 4 of the Regulations. Addition of new medicinal substances to Schedule 4 requires evaluation of their safety and quality. Prior to entering the market, Listable medicinal products are assessed by sponsors against defined standards including those for levels of evidence described in these guidelines. Listable devices are also recognised as being “low risk”. All therapeutic goods are subject to ongoing post-market surveillance.

The evaluation of medicines and medical devices for safety, quality, and where appropriate, efficacy, is undertaken by the TGA with advice from expert committees as required. Advice is provided by the Advisory Committee on Complementary Medicines (ACCM) for complementary medicines.
medicines, the Advisory Committee on Non-Prescription Medicines (ACNM) for other non-prescription medicines, the Advisory Committee on Prescription Medicines (ACPM) for prescription medicines, and by the Advisory Committee on Medical Devices (ACMD) for medical devices.

Where indications / claims are made in relation to therapeutic goods, the TGA determines the standards these indications / claims must meet – a cornerstone of these standards is the evidence which must be held to support indications / claims. Sponsors of products carry the primary responsibility to ensure that indications / claims made about products are true, valid and not misleading in line with these standards, under the Listing system for medicines. However, should a question arise about the appropriateness of evidence supporting an indication / claim, the final evaluation of that evidence will be made by the TGA. Some Registrable goods may require special approval to advertise. The Therapeutic Goods Advertising Code Council (TGACC) is responsible for such recommendations.

The TGACC is responsible for ensuring that the public interest is upheld for any advertisement of a therapeutic good. There are provisions relating to the advertising of non-prescription medicines and medical devices in the Act, the Regulations, and in the Therapeutic Goods Advertising Code (TGAC) and its supporting guidelines.
Levels and kinds of evidence to support claims

The three principles relating to indications and claims about therapeutic goods are:

- before claiming an intended use or indication, sponsors must hold adequate evidence to support all claims they make about a product;
- claims must be true, valid, and not misleading; and
- claims should not lead to unsafe or inappropriate use of a product.

The kinds of evidence which may support claims

There are two types of evidence which may be used to support claims:

- evidence based on traditional use of a substance or product and
- scientific evidence.

How to use evidence of traditional use to support claims

Some 80% of the world's indigenous populations in developing countries depend on traditional systems of medicine and botanical medicines. In addition the use of traditional medicines is becoming more widespread in developed countries. Traditional medicines are based on an extensive history of use, often measured over thousands of years. This history provides an accumulated repository of systematic observation that underpins the use of these medicines.

Traditional use may infer community knowledge of the existence and application of a substance but does not necessarily carry with it any scientific assessment or scrutiny. For many products and substances there has been little available scientific research undertaken into their mode of action and effect. Evidence of traditional use may however be used to support claims for therapeutic goods. The following definition of ‘traditional use’ has been adopted by the ACCM for the purpose of these Guidelines.

Traditional use refers to documentary evidence that a substance has been used over three or more generations for a specific health related or medicinal purpose.3

In assessing traditional use, the context of the claim is important. Most traditional forms of medicine are likely to use a mixture of substances, and certain behavioural rules promoting healthy diets and habits are likely to apply to them. In those cases, holistic principles are usually part of the therapy. Thus the theories, concepts and cultural context of the therapy need to be considered.

In forming a claim based on traditional use, products and substances which form part of traditional therapies should identify the therapy to which they belong or the paradigm in which the therapy has been traditionally used, as well as the product description, name, the symptom or condition and indication for which the product or substance is claimed to be beneficial. Traditional therapies are considered to include Traditional Chinese Medicine (TCM), traditional Ayurvedic medicine,

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2 Evidence held to support indications and claims must be in the English language, or be a Certified transcript translated from the native language.
3 Where tradition of use has been recorded as an oral rather than written history, then evidence of such should be obtained from the appropriate practitioner or indigenous group(s), who maintain such a history.
Modification of the classic formulations in TCM and Ayurvedic medicine must be based on the classical theory associated with the therapy and on traditional methods of preparation, in order for these products to make a traditional claim. For example, to meet the criteria for a traditional claim using evidence of traditional use, the overall formulation of a TCM needs to reflect the classical methods of combination. Traditional claims for combinations in Western Herbal formulations must be based on evidence linking the particular formulation (including methods of preparation) with traditional preparations, and must reflect the traditional knowledge about each individual herb in the product.

With respect to multigenerational use of homoeopathic medicines, it is recognised that homoeopathic medicine represents a special case where the manufacturing process of serial dilution is a major component of the tradition of use of the therapy. Providing that the new substance is prepared according to principles described in TGA-approved homoeopathic pharmacopoeia (see Attachment 2), and satisfies safety requirements, claims may be assessed on an "evidence of traditional use" or "use in traditional practice" basis. Evidence of "traditional use" or "use in traditional practice" includes independent written histories of use in traditional or contemporary homoeopathic literature, multigenerational use, homoeopathic proving, records of clinical use and records of the set of symptoms provoked by a 'crude' substance. Claims made in relation to homoeopathic products must be consistent with the "homoeopathic picture" of the remedy or remedies on which the claim is based.

Substances or products which have been altered significantly in their constituent profile from the classical traditional medicine on which the claim is based require scientific evidence in order to substantiate their claimed action.

Combinations of substances, some of which have a history of traditional use, and others which do not but are supported by scientific evidence, may make indications / claims based both on their traditional-use components and the scientific evidence, thus allowing a mixed claim. Should scientific evidence be contrary to the evidence based on traditional use, the claim used must reflect the truth, on balance of the evidence available. Where a claim in its entirety is supported by scientific evidence, and the sponsor wishes to mention that the ingredient or product has a tradition of use, the particular tradition from which the ingredient was derived need not be specified. For example:

"Echinacea helps support the immune system especially during the winter colds and flu season. This herb has been used traditionally for hundreds of years and now scientific evidence suggests that it may assist in supporting immune function"; or

"It has been known for hundreds of years that citrus fruits contained a substance which was important for good health. We now know that substance is vitamin C, and scientific studies have shown it is essential for maintaining healthy gums, blood vessels and connective tissue. Extra vitamin C may be important for individuals under stress".

It is not always possible to access the original reference which describes the traditional use, or use in traditional practice, for a product or substance. Indications and claims based on evidence of traditional use / practice may be supported by contemporary literature reports of the original tradition, but they must be consistent with the wording specified for claims based on evidence of traditional use.

For multi-component Listable products, traditional claims can be based on the evidence of traditional use for the product itself, or on evidence for an individual component or components about which claims are made. In any instance where a claim links the presence of an ingredient to the product indication or claim, that ingredient must contribute to that indication. Where claims of synergy are made, the evidence of traditional use must support the synergistic effect. The dose of
the ingredient or ingredients mentioned in the indication or claim must be consistent with the
evidence, and the composition and preparation of the product must be consistent with the
principles of the tradition about which the indication or claim is made.

Where multi-component products comprise active ingredients from different traditional therapies,
the therapy from which the ingredient is derived, or the paradigm in which the therapy has been
traditionally used, needs to be described if the ingredient is mentioned in a claim. For example, for a
product formulated from Panax ginseng, Bacopa monnieri and soy-derived phosphatidyl serine, a
claim might be made for the product, to the effect that “This product has been formulated from
traditional and modern ingredients, to help support healthy memory”. This could be entered on
Australian Register of Therapeutic Goods (ARTG) as the indication for the product.

However, if the sponsor wished to highlight the ingredients, they could use any or all of the
following claims:

“Panax ginseng has been used for thousands of years in Traditional Chinese Medicine to
tonify qi. It helps support memory in times of fatigue and convalescence.”

“Bacopa monnieri has a tradition of use in Ayurvedic medicine for weakness of memory. It
may help normal memory function.”

“Soy-derived phosphatidyl serine has been shown in scientific studies help memory function
in normal, healthy individuals”.

How to use scientific evidence to support claims

In these guidelines scientific evidence refers to quantifiable data. Types of quantifiable scientific
evidence include clinical trials in humans, epidemiological evidence, animal studies and other
evidence of biological activity.

The greater the consistency of evidence across all these kinds, the greater the strength of the
evidence. The strength of evidence will allow greater or lesser latitude in the nature of any claim
and the wording that can truthfully be used.

The totality (balance and range), quality and relevance of the evidence to the claims are also
important. The following descriptions of the meanings of totality, quality and relevance have been
adapted from the United States Federal Trade Commission’s (FTC’s) “Business Guide for Dietary
Supplement Industry Released by FTC Staff”. (The full version of the FTC’s guidelines are available
from the following website address: <http://www.ftc.gov/opa/1998/9811/dietary.htm>.)

Balance and range of the evidence

Studies cannot be evaluated in isolation of the surrounding context. The surrounding context of the
scientific evidence is just as important as the internal validity of individual studies. Sponsors should
consider any relevant research relating to the claimed benefit of their product and should not focus
only on research that supports the effect, while discounting research that does not. A well-
constructed literature search should normally be undertaken to help ensure that the general body
of evidence on any particular topic is identified. (There are tutorials available on the internet on
electronic database searching.

Balance and range of evidence may also be reflected in an authoritative review (these would
normally be peer-reviewed and published).

Ideally, the studies relied on by a sponsor would be largely consistent with the surrounding body of
evidence. Wide variation in outcomes of studies and inconsistent or conflicting results will raise
serious questions about the adequacy of a sponsor’s substantiation. Where there are
inconsistencies in the evidence, it is important to examine whether there is a plausible explanation
for those inconsistencies. In some instances, for example, the differences in results will be
attributable to differences in dosage, the form of administration, the population tested, or other
aspects of study methodology. Sponsors should assess how relevant each piece of research is to the
specific claim they wish to make, and also consider the relative strengths and weaknesses of each. If a number of studies of different quality have been conducted on a specific topic, sponsors should look first to the results of the studies with more reliable methodologies.

**The Quality of the Evidence**

In addition to the amount and type of evidence, quality of evidence is important. Where the claim is one that would require scientific support, the research should be conducted in a competent and reliable manner to yield meaningful results. The design, implementation, and results of each piece of research are important to assessing the adequacy of the substantiation.

There are some principles generally accepted in the scientific community to enhance the validity of test results. However, there is no single set protocol for how to conduct research. For example, a study that is carefully controlled, with blinding of subjects and researchers, is likely to yield more reliable results. A study of longer duration can provide better evidence that the claimed effect will persist and better evidence to resolve potential safety questions. Other aspects of the research results — such as evidence of a dose-response relationship (that is, the larger the dose, the greater the effect) or a recognised biological or chemical mechanism to explain the effect — are examples of factors that add weight to the findings.

Statistical significance of findings is also important. A study that fails to show a statistically significant difference between test and control group may indicate that the measured effects are merely the result of placebo effect or chance. The results should also translate into a meaningful, that is, clinically significant, benefit for consumers. Some results that are statistically significant may still be so small that they would mean only a trivial effect on consumer health.

The nature and quality of the written report of the research are also important. Research cannot be evaluated accurately on the basis of an abstract or an informal summary. However, other evidence can be considered, such as unpublished, proprietary research. The publication of a peer-reviewed study in a reputable journal indicates that the research has received some measure of scrutiny. At the same time, sponsors should not rely simply on the fact that research is published as proof of the efficacy of a substance or product. Research may yield results that are of sufficient interest to the scientific community to warrant publication, but publication does not necessarily mean that such research is conclusive evidence of a substance’s or product’s effect.

**The Relevance of the Evidence to the Specific Claim**

A common problem in substantiation of claims is that a sponsor has valid studies, but the studies do not support the claims intended to be made. Sponsors should make sure that the research on which they rely is not just internally valid, but also relevant to the specific product being promoted and to the specific benefit being claimed. Therefore, sponsors should ask questions such as: How does the dosage and formulation of the product compare to what was used in the study? Does the product contain additional ingredients that might alter the effect of the ingredient in the study? Is the product administered in the same manner as the ingredient used in the study? Has the product been tested for the same indications and claims as those proposed to be included in the ARTG? Does the study population reflect the characteristics and lifestyle of the population targeted by the product? If there are significant discrepancies between the research conditions and the real life use being promoted, sponsors need to evaluate whether it is appropriate to extrapolate from the research to the claimed effect.

In drafting indications and claims, the sponsor should take care to make sure that they match the underlying evidence support. Indications and claims that do not match the science, no matter how sound that science is, are likely to be unsubstantiated. Indications and claims should not exaggerate the extent, nature, or permanence of the effects achieved in a study, and should not suggest greater scientific certainty than actually exists. Although emerging science can sometimes be the basis for a carefully qualified claim, sponsors must make consumers aware of any significant limitations or inconsistencies in the scientific literature.
In line with these general principles for evaluating evidence, a framework for rating scientific evidence has been developed by the ACCM. This framework is adapted from the "Designation of Levels of Evidence" (National Health and Medical Research Council (NHMRC), 1999) and is consistent with international best practice. The rankings in the framework apply to evidence after it has been assessed with the degree of critical appraisal that would be applied by the TGA. The levels of the various kinds of scientific evidence are ranked by the ACCM as outlined in Table 1 on the next page.

All indications and claims based on scientific evidence require human studies. For those rare occasions where only non-human data exist, indications and claims may be allowed on a case-by-case basis. Supporting evidence may be used in conjunction with primary evidence to strengthen the wording of a claim.

In a claim based on scientific evidence, the recommended dosage of the product needs to be consistent with the evidence used to make the claim. The evidence must relate to the whole product or the same active constituent(s) with similar dosage regimen, dose form and route of administration to the product for which a claim is being made. When the evidence is based on an active constituent, qualification may be necessary according to how other constituents in the product may affect the activity of that constituent in the product.

A claim for a herb or herbal substance based on scientific evidence requires the herb, the part of the plant, the method of preparation and any processing, the equivalent dry weight and the dose of active or marker component to be consistent with the evidence used to make the claim. It is recognised that information about preparation and processing of ingredients could be confidential to the company providing the ingredient and therefore not always be available to the sponsor. If this is the case, sponsors should provide evidence that the profile of the active ingredient(s) extracted using different manufacturing processes and solvents is not substantially different from the extract used in the clinical studies or other evidence used to support the claim.

For multi-component Listable products, indications and claims can be based on the evidence for the product itself, or on evidence for an individual component or components about which indications and claims are made. In any instance where a claim links the presence of an ingredient to the product indication or claim, that ingredient must contribute to that indication or claim. Where claims of synergy are made, the evidence must support the synergistic effect. An example of how a claim for a multi-component product could be expressed as follows.

A product formulated as a "liver tonic" contains vitamins of the B-complex and Silybum marianum. Each vitamin is present at the Recommended Dietary Intake level, and the Silybum marianum is standardised to 70% silymarin. If the product had undergone clinical trial in humans and had been demonstrated to be efficacious, the claim could state to the effect that this product has been formulated as a liver tonic and clinical trials had demonstrated it to be effective in maintaining a healthy liver, and it may be beneficial in improving the function of the liver. However, if the efficacy of the product as a whole had not been evaluated, the product could carry indications / claims about each potential value of each of its ingredients. For example, B-vitamins are important for a healthy liver, and studies have shown that silymarin is of benefit in helping the liver to recover from toxic overload of everyday life.

The types of indications and claims which can be made based on scientific evidence are described in the section of these Guidelines commencing on page 20. Using the system of categorisation described in that section, the claims in this example are general level (health maintenance) claims, and the actual evidence to support these claims for the active ingredients is found in ME Shils, JA Olson, M Shike and AC Ross, "Modern Nutrition in Health and Disease" 9th ed, Williams and Wilkins (1999), and the German Commission E Monographs. Both are evidence-based reference texts, and the information in them is largely derived from medium or even high level evidence. Hence they support the general level claims made for this product.

Table 1: Levels of Scientific Evidence

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<th>Level</th>
<th>Type of Evidence</th>
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| High   | Evidence obtained from a systematic review of all relevant randomised controlled trials, without significant variations in the directions or degrees of results.  
**OR**  
Evidence obtained from at least one properly designed randomised controlled (preferably multi-centre) double blind trial. It is preferable to have data from at least two trials independent of each other, but in some cases, one large well-conducted trial may suffice. (Advice should be sought from the TGA in such cases.) |
| Medium | Evidence obtained from well-designed controlled trials without randomisation. In the case of a homoeopathic preparation[^5], evidence from well-designed controlled homoeopathic proving.  
**OR**  
Evidence obtained from well designed analytical studies preferably from more than one centre or research group, including epidemiological cohort and case-control studies.  
**OR**  
Evidence obtained from multiple time series with or without intervention, including within country and between country population studies.  
**NOTE:** In practice the sources of most medium level evidence will be peer-reviewed published papers and evidence-based reference texts. However, other evidence that meets the requirements, including independently reviewed unpublished evidence, may also be acceptable. Websites evaluating peer-reviewed published evidence may be a source of suitable evidence. |
| General| Descriptive studies, case series or reports of relevant expert committees. Texts, such as TGA-approved Pharmacopoeias or monographs (see Attachment 2), or other evidence-based reference texts, may be included in this Level. |

Supporting evidence: evidence derived from non-human data, such as in vitro studies and animal studies, and non-clinical studies, such as biochemical, nutritional and microbiological studies does not stand alone and may only be used as supporting evidence.

[^5]: As defined in Regulation 2, Therapeutic Goods Regulations 1990.
What kinds of indications and claims does the evidence support?

As described earlier in these guidelines there are two types of evidence which can be used to support indications and claims for therapeutic goods. These are evidence based on traditional use of a product or substance, and scientific evidence.

**Indications and claims based on evidence of traditional use**

In Australia, indications and claims which may be made about therapeutic goods using evidence of traditional use are categorised into two levels – medium and general – according to the relative strength of the claim. Medium level indications and claims are stronger but more evidence is required to support them. This general approach is summarised in Table 2 on the next page. Specific approaches have been developed for homoeopathic and aromatherapy products and these approaches are summarised in Tables 3 and 4, respectively. A summary of the definitions of the types of claims is provided at Attachment 3 to these guidelines.

The following information and examples of how to use evidence of traditional use to support indications / claims is an adaptation of the information in the US FTC guidelines, and has been incorporated into these Australian Guidelines.

Indications and claims based on historical or traditional use should be substantiated by confirming scientific evidence, or should be presented in such a way that consumers understand that the sole basis for the claim is a history of use of the product for a particular purpose. A number of products, particularly herbal products, have a long history of use as traditional medicines to treat certain conditions or symptoms.

Indications and claims based solely on traditional use should be presented carefully to avoid the implication that the product has been scientifically evaluated for efficacy. The degree of qualification necessary to communicate the absence of scientific substantiation for a traditional use claim will depend in large part on consumer understanding of this category of products. As consumer awareness of and experience with “traditional use” supplements evolve, the extent and type of qualification necessary is also likely to change.

There are some situations, however, where traditional use evidence alone will be inadequate to substantiate a claim, even when claim is carefully qualified to convey the limited nature of the support. In determining the level of substantiation necessary to substantiate a claim, the consequences of a false claim must be taken into consideration. Indications and claims that, if unfounded, could present a substantial risk to consumer health or safety will be held to a higher level of scientific proof.
Table 2: Levels and types of claims and the evidence required to support them – based on evidence of traditional use

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Wording of Claim(^2)</th>
<th>Evidence required to support claim</th>
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<tr>
<td>MEDIUM</td>
<td>Health enhancement(^1).</td>
<td>This (tradition) medicine has been used for (indication)(^3,5).</td>
<td>Primary evidence: Two of the following four sources that demonstrate adequate support for the indications claimed: 1. TGA-approved Pharmacopoeia(^7). 2. TGA-approved Monograph(^7). 3. Three independent written histories of use in the classical or traditional medical literature(^4).</td>
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<td></td>
<td>Reduction of risk of a disease / disorder / condition.</td>
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<td>Reduction in frequency of a discrete event.</td>
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<td></td>
<td>Aids / assists in the management of a named symptom / disease / disorder / condition(^6).</td>
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<tr>
<td></td>
<td>Relief of symptoms of a named disease / disorder / condition(^6).</td>
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</table>

Supporting evidence: Evidence commonly referred to in appropriate prescribed teaching textbooks used in university training of healthcare professionals does not stand alone and may only be used as supporting evidence.

Notes:
- \(^1\) Health enhancement claims apply to enhancement of normal health. They do not relate to enhancement of health from a compromised state.
- \(^2\) Or words to this effect.
- \(^3\) Where scientific evidence is available to support the entire claim, the tradition from which the medicine originated need not be specified.
- \(^4\) In cultures where an oral tradition is clearly documented, evidence of use from an oral tradition would be considered acceptable provided the history of use was authenticated. Modern texts which accurately report the classical or traditional literature may be used to support claims.
- \(^5\) Claims making reference to traditional (indigenous) physiological terms should, where appropriate, use the original terms to avoid potentially confusing or inaccurate translations, for example “Shen” not “Kidney” in TCM.
- \(^6\) All indications / claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
- \(^7\) See Attachment 3.
Table 2 (cont’d): Levels and types of claims and the evidence required to support them – based on evidence of traditional use

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Wording of Claim</th>
<th>Evidence required to support claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL</td>
<td>Health maintenance, including for example indications / claims relating to nutritional support.</td>
<td>This (tradition) medicine has been traditionally used for (indication).³</td>
<td>Primary evidence: One of the following four sources that demonstrates adequate support for the indications claimed: 1. TGA-approved Pharmacopoeia⁵. 2. TGA-approved Monograph⁵. 3. Three independent written histories of use in the classical or traditional medical literature⁴. 4. Availability through any country’s government public dispensaries for the indication claimed.</td>
</tr>
<tr>
<td></td>
<td>Relief of symptoms (not referring to a named disease, disorder or condition)².</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Claims for traditional syndromes and actions³.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Supporting evidence: Evidence commonly referred to in appropriate prescribed teaching textbooks used in university training of healthcare professionals does not stand alone and may only be used as supporting evidence.

Notes:
• ¹ Or words to this effect.
• ² All indications/claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
• ³ Claims making reference to traditional (indigenous) physiological terms should, where appropriate, use the original terms to avoid potentially confusing or inaccurate translations, for example “Shen” not “Kidney” in TCM.
• ⁴ In cultures where an oral tradition is clearly documented, evidence of use from an oral tradition would be considered acceptable provided the history of use was authenticated. Modern texts which accurately report the classical or traditional literature may be used to support claims.
5 See Attachment 3.

Table 3: Levels and types of claims for homoeopathy and the evidence required to support them – based on evidence of traditional use or evidence of traditional practice

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Wording of Homoeopathic Claim&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Evidence required to support homoeopathic claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIUM</td>
<td>• Health enhancement&lt;sup&gt;2&lt;/sup&gt;.</td>
<td>This homoeopathic medicine has been traditionally used for (indication)&lt;sup&gt;5&lt;/sup&gt;, or, This homoeopathic medicine has been prepared by traditional methods for (indication)&lt;sup&gt;5,6&lt;/sup&gt;.</td>
<td>Primary evidence: Two of the following three sources that demonstrate adequate support for the indications claimed: 1. Well-designed homoeopathic proving of the substance(s) or a TGA-approved&lt;sup&gt;7&lt;/sup&gt; Homoeopathic Materia Medica and a Homoeopathic Repertory. 2. Three independent written histories of use in the traditional or contemporary homoeopathic literature&lt;sup&gt;4&lt;/sup&gt;. 3. Availability through any country’s government public dispensaries for the indications claimed.</td>
</tr>
<tr>
<td></td>
<td>• Aids / assists in the management of a symptom complex of a named symptom / disease, disorder or condition&lt;sup&gt;3&lt;/sup&gt;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Relief of symptoms of a named disease, disorder or condition&lt;sup&gt;3&lt;/sup&gt;.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Supporting evidence: Evidence commonly referred to in appropriate prescribed teaching textbooks used in university training of healthcare professionals does not stand alone and may only be used as supporting evidence. In addition, records of the use of symptoms provoked by the crude substance may be used. This evidence may only be used in conjunction with the homoeopathic evidence referred to above.

Notes:
- 1 Or words to this effect.
- 2 Health enhancement claims apply to enhancement of normal health. They do not relate to enhancement of health from a compromised state.
- 3 All indications/claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
- 4 In cultures where an oral tradition is clearly documented, evidence of use from an oral tradition would be considered acceptable provided the history of use was authenticated. Modern texts which accurately report the classical or traditional literature may be used to support claims.
- 5 Claims making reference to traditional (indigenous) physiological terms should, where appropriate, use the original terms to avoid potentially confusing or inaccurate translations, for example “Shen” not “Kidney” in TCM.<sup>5</sup> Where scientific evidence is available to support the entire claim, the tradition from which the medicine originated need not be specified.
- 6 See Attachment 3.
Table 3 (cont’d): Levels and types of claims for homoeopathy and the evidence required to support them – based on evidence of traditional use or evidence of traditional practice

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Wording of Homoeopathic Claim</th>
<th>Evidence required to support homoeopathic claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL</td>
<td>· Health maintenance, including for example indications / claims relating to nutritional support. &lt;br&gt; · Relief of symptoms (not referring to a named disease, disorder or condition).&lt;br&gt; · Claims for traditional syndromes and actions 4.</td>
<td>This homoeopathic medicine has been traditionally used for (indication) 4 or, This homoeopathic medicine has been prepared by traditional methods for (indication) 4.</td>
<td>Three independent written histories of use in the traditional or contemporary homoeopathic literature; or homoeopathic provings supporting the indication claimed.</td>
</tr>
</tbody>
</table>

Supporting evidence: Evidence commonly referred to in appropriately prescribed teaching textbooks used in university training of healthcare professionals does not stand alone and may only be used as supporting evidence. In addition, records of the set of symptoms provoked by the crude substance may be used. This evidence may only be used in conjunction with the homoeopathic evidence referred to above.

Notes:
- 1 Or words to this effect.
- 2 All indications/claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
- 3 In cultures where an oral tradition is clearly documented, evidence of use from an oral tradition would be considered acceptable provided the history of use was authenticated. Modern texts which accurately report the classical or traditional literature may be used to support claims.
- 4 Claims making reference to traditional (indigenous) physiological terms should, where appropriate, use the original terms to avoid potentially confusing or inaccurate translations, for example “Shen” not “Kidney” in TCM.
Table 4: Levels and types of claims for aromatherapy and the evidence required to support them – based on evidence of traditional use

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Wording of Claim¹</th>
<th>Evidence required to support claim</th>
</tr>
</thead>
</table>
| MEDIUM         | • Health enhancement²                | This essential oil has been traditionally used for (indication)⁴. | Primary evidence:  
Two of the following three sources that demonstrate adequate support for the indications claimed:  
1. TGA-approved Pharmacopoeia or TGA-approved Monograph⁶.  
2. Three independent written histories of use in the traditional aromatherapy literature⁵.  
3. Availability through any country’s government public dispensaries for the indication claimed. |
|                | • Reduction in frequency of a discrete event. |                   |                                   |
|                | • Aids/ assists in the management of a named symptom / disease / disorder / condition⁴. |                   |                                   |
|                | • Relief of symptoms of a named disease, disorder or condition⁴. |                   |                                   |
|                | |                   |                      |
| GENERAL        | • Health maintenance                  | This essential oil has been traditionally used for (indication). | Three independent written histories of use in the traditional aromatherapy literature supporting the indications claimed⁵. |
|                | • Relief of symptoms (not referring to a named disease, disorder or condition)³. |                   |                                   |

Supporting evidence: Evidence commonly referred to in appropriate prescribed teaching textbooks used in university training of healthcare professionals does not stand alone and may only be used as supporting evidence.

Notes:
- ¹Or words to this effect.
- ²Health enhancement claims apply to enhancement of normal health. They do not relate to enhancement of health from a compromised state.
- ³All indications/claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
- ⁴Where scientific evidence is available for this claim the tradition from which the medicine originated need not be specified.
- ⁵In cultures where an oral tradition is clearly documented, evidence of use from an oral tradition would be considered acceptable provided the history of use was authenticated. Modern texts which accurately report the classical or traditional literature may be used to support indications/claims.
- ⁶See Attachment 3.
Sponsors should also make sure that they can support the extent and manner of historical use and be careful not to overstate such use. Sponsors should make sure that the product to be marketed is consistent with the product as traditionally administered. If there are significant differences between the traditional use product and the marketed product, in the form of administration, the formulation of ingredients, the dose, or the indication for which the product has been used, a "traditional use" claim may not be appropriate.

Example 1: The sponsor of a herbal supplement makes the claim, "Ancient folklore remedy used for centuries by Native Americans to aid digestion". The statement about traditional use is accurate and the supplement product is consistent with the formulation of the product traditionally used. However, if this statement was used in a context which suggested scientific evidence demonstrates efficacy where no such evidence exists, this would be misleading and, therefore, unacceptable.

Example 2: A sponsor wants to market a herbal product that has been used in the same formulation in China as a tonic for improving mental functions. The sponsor prepares the product in a manner consistent with Chinese preparation methods. The claims are, "Traditional Chinese Medicine — Used for Thousands of Years to Bring Mental Clarity and Improve Memory". The product label also contains language that clearly conveys that the efficacy of the product has not been confirmed by research, that traditional use does not establish that the product will achieve the claimed results. The label is likely to adequately convey the limited nature of support for the claim.

Indications and claims based on scientific evidence

There are various types of indications and claims based on scientific evidence that can be made; they are generally categorised according to the type of information they convey. Additionally, claims can be ranked in relation to the relative strength of the claim and their likely impact on consumers. These rankings provide a basis for the level of scientific evidence which may be required to support each type of claim. In Australia, indications and claims which may be made about therapeutic goods are categorised into three levels – high, medium and general. Different levels of evidence are required to support each level of claim. Within these three levels there are several different types of indications and claims which may be made. For simplicity, this approach can be summarised as shown in Table 5. A summary of the definitions of the types of claims is provided at Attachment 3 to these guidelines.

There is a wide variety of references, research papers and texts which may be used as sources of evidence to support these indications and claims. Sponsors should make sure that the research on which they rely is relevant to the specific product being promoted and to the specific benefit being claimed.
### Table 5: Levels and types of claims and the evidence required to support them - based on scientific evidence

<table>
<thead>
<tr>
<th>Level of claim</th>
<th>Type of claim</th>
<th>Evidence required to support claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Treats / cures / manages any disease / disorder / condition.</td>
<td>High level. Registration ACCM/MACN/MACPM.</td>
</tr>
<tr>
<td></td>
<td>Prevention of any disease, disorder or condition.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Treatment of specific named vitamin or mineral deficiency diseases.</td>
<td></td>
</tr>
<tr>
<td>MEDIUM</td>
<td>Health enhancement&lt;sup&gt;2&lt;/sup&gt;.</td>
<td>Medium level. Sponsor must hold the evidence for Listable goods.</td>
</tr>
<tr>
<td></td>
<td>Reduction of risk of a disease / disorder / condition.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reduction in frequency of a discrete event.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aids / assists in the management of a named symptom / disease / disorder / condition&lt;sup&gt;3&lt;/sup&gt;.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relief of symptoms of a named disease, disorder or condition&lt;sup&gt;3&lt;/sup&gt;.</td>
<td></td>
</tr>
<tr>
<td>GENERAL</td>
<td>Health maintenance including nutritional support.</td>
<td>General level. Sponsor must hold the evidence for Listable goods.</td>
</tr>
<tr>
<td></td>
<td>Vitamin or mineral supplementation&lt;sup&gt;4&lt;/sup&gt;.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relief of symptoms (not related to a named disease, disorder or condition)&lt;sup&gt;3&lt;/sup&gt;.</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- There are some specific exemptions to this table which are not considered to be high level claims. These are listed on the TGA website at <http://www.tga.gov.au>.
- Health enhancement claims apply to enhancement of normal health. They do not relate to enhancement of health from a compromised state.
- All indications / claims relating to symptoms must be accompanied by the advice “If symptoms persist consult your healthcare practitioner” or words to that effect.
- Vitamin or mineral supplementation claims are only permitted where the recommended daily dose of the product provides at least 25% of the Recommended Dietary Intake (RDI) for that vitamin or mineral. The RDI in this context refers to the Australian RDI. If there is no Australian RDI for a vitamin or mineral, an RDI from another country may be used. Where vitamins or minerals are the subject of other kinds of claims, the dose must be consistent with the evidence to support the claim being made. Indications / claims should not refer to the presence of vitamins or minerals unless they are present in the recommended daily dose of the product to at least the level of 10% of the RDI, unless there is evidence to support a therapeutic effect below this level.
# Registrable Diseases List

There is a list of diseases / disorders / conditions about which indications / claims may be made only after evaluation of the product and the claim(s) through Registration of the product. The list refers to serious diseases / disorders / conditions and it applies to indications and claims based on evidence of traditional use, as well as to those based on scientific evidence. The list is known as the ‘Registrable disease’ list and it applies to medicines but not devices. Decisions made with respect to the Registration of medical devices are based on a different set of categorisations and guidelines.

The definition of a serious disease, disorder or condition is one for which there is a substantial body of medical opinion that the disease (disorder or condition) cannot or should not be diagnosed or treated except under medical advice.

Indications / claims for Registrable diseases may be made under certain circumstances, but only after the safety, quality and efficacy of the product and the claim(s) have been evaluated by the ACCM or other relevant evaluation committee. Where a sponsor seeks to mention a Registrable disease in what would otherwise have been categorised as a medium or general level claim, that claim would become Registrable and the product would require Registration (that is, evaluation by the TGA with the advice of the ACCM, ACNM, or ACPM). The ‘Registrable disease’ list is shown in Table 6.

There are some exceptions to the Registrable disease list, whereby diseases, disorders or conditions which would normally require Registration may be mentioned in indications and claims on Listed medicines. These exceptions will be listed in the new version of the Electronic Listing Facility (ELF 3) coded indications and are provided in hard copy format on the TGA website at [http://www.tga.gov.au](http://www.tga.gov.au). Where there is no suitable coded indication, these new indications and claims may be entered as free text in item 27.

<table>
<thead>
<tr>
<th>Disease/disorder/condition/action – serious manifestation of</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Abortifacient action.</td>
<td>Infectious diseases, including sexually transmitted diseases.</td>
</tr>
<tr>
<td>Cardiocerebrovascular diseases.</td>
<td>Insomnia, persistent.</td>
</tr>
<tr>
<td>Dental and periodontal disease.</td>
<td>Mental diseases, ailments or defects, including substance abuse.</td>
</tr>
<tr>
<td>Diseases of joint, bone, collagen, and rheumatic disease.</td>
<td>Metabolic disorders.</td>
</tr>
<tr>
<td>Diseases of the eye or ear likely to lead to severe impairment, blindness or deafness.</td>
<td>Musculoskeletal diseases.</td>
</tr>
<tr>
<td>Diseases of the liver, biliary system or pancreas.</td>
<td>Neoplastic disease (all cancers).</td>
</tr>
<tr>
<td>Endocrine diseases and conditions, including</td>
<td>Nervous system diseases.</td>
</tr>
</tbody>
</table>
### Disease/disorder/condition/action – serious manifestation of

<table>
<thead>
<tr>
<th>Condition</th>
<th>Evidence Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes and prostatic disease.</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal diseases.</td>
<td>Renal diseases, diseases of the genito-urinary tract.</td>
</tr>
<tr>
<td>Haematological disorders and diseases.</td>
<td>Respiratory diseases.</td>
</tr>
<tr>
<td>Immune disorders and diseases.</td>
<td>Skin diseases.</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Immunisation</td>
<td>Poisoning, venomous bites and stings – treatment of.</td>
</tr>
</tbody>
</table>

## In Conclusion

Further advice on the whole or any part of these Guidelines can be sought from the TGA, the major industry associations, and from regulatory affairs consultants.
Attachment 1: Glossary of terms used in these Guidelines

Blinding
Blinding (also called masking) is a procedure in which one or more parties in a clinical trial are kept unaware of the treatment assignment(s). Blinding is used so that neither the patients' nor staff's expectations about the medicine or treatment under investigation can influence the outcome.

Case study
In depth description of the factors related to a disease, disorder or condition in a specific individual.

Case-control study
A study that starts with identification of people with the disease, disorder or condition of interest (the cases) and a suitable control group without the disease or outcome of interest (the controls). The relationship of an attribute (medicine, treatment, exposure or risk factor) to the outcome of interest is examined by comparing the frequency or level of the attribute in the cases and in the controls. For example, to determine whether thalidomide causes birth defects, a group of children with birth defects (cases) could be compared to a group of children without birth defects (controls). The groups would then be compared with respect to the proportion exposed to thalidomide through their mothers taking the tablets. Case-control studies are sometimes described as being retrospective as they are always performed looking back in time.

Clinical significance
The quality of a study's outcome that convinces physicians to modify or maintain their current practice of medicine. The assessment of clinical significance is usually based on the size of the effect observed, the quality of the study that yielded the data, and the probability that the effect is a true one. Clinical significance is not the same as statistical significance; a finding in a study may demonstrate a statistical difference in an attribute under review but this may have no impact clinically.

Clinical trial / clinical study (synonym: intervention study)
A planned study in humans designed to discover or verify:
- the clinical, pharmacological and/or other pharmacodynamic effects of a medicine or treatment; and/or
- to identify any adverse reactions to a medicine or treatment; and/or
- to study absorption, distribution, metabolism and excretion of a medicine or treatment, with the object of ascertaining its safety and/or efficacy.

Clinical trials of experimental medicines proceed through four phases:
- In Phase I, researchers test a new medicine or treatment in a small group of normal, healthy volunteers (20-80) for the first time to evaluate its safety, determine a safe dosage range and identify side effects.
In Phase II, the study drug or treatment is given to a larger group of people with the disease / disorder of interest (100-300) to see if it is effective and to further evaluate its safety.

In Phase III studies, the study drug or treatment is given to large groups of people with the disease / disorder of interest (1,000 – 3,000) to confirm its effectiveness, monitor side effects, compare it to commonly used treatment and collect information that will allow the drug or treatment to be used safely.

Phase IV studies are done after the medicine or treatment has been marketed following regulatory approval. These studies continue testing the study drug or treatment to collect information about their effect in various populations and any side effects associated with long-term use.

**Cochrane Review**

A Cochrane Review is a systematic, up-to-date summary of reliable evidence of the benefits and risks of healthcare. For a review to be called a "Cochrane Review" it must be in the Parent database maintained by the Cochrane Collaboration. The Cochrane Collaboration is an international organisation that aims to help people make well-informed decisions about healthcare by preparing, maintaining and promoting the accessibility of systematic reviews of healthcare interventions.

**Cohort study (synonyms: follow-up, incidence, longitudinal, prospective study)**

An observational study in which a defined group of people (the cohort) is followed over time. The outcomes of people in subsets of this cohort are compared, e.g. to examine people who were exposed or not exposed, or exposed at different levels, to a particular intervention or other factor of interest. A cohort can be assembled in the present and followed into the future (this would be a prospective study or a "concurrent cohort study"), or the cohort could be identified from past records and followed from the time of those records to the present (this would be a retrospective study or a "historical cohort study"). Because random allocation is not used, matching or statistical adjustment at the analysis stage must be used to minimise the influence of factors other than the intervention or factor of interest.

**Condition**

A simplified description for a disorder, which is a derangement or abnormality of function.

**Control**

In clinical trials comparing two or more interventions, a control is a person in the comparison group that does not receive the medicine or treatment under evaluation. Instead that person receives a placebo, no intervention, usual care or another form of care. In case-control studies, a control is a person in the comparison group without the disease or outcome of interest. In statistics, to control means to adjust for or take into account extraneous influences or observations.

**Controlled clinical trial**

Refers to a study that compares one or more intervention groups to one or more comparison (control) groups. Whilst not all controlled studies are randomised, all randomised trials are controlled.
Crossover trial
This is a research design in which subjects receive a number of treatments in sequence. Generally, this means that all subjects have an equal chance during the trial of experiencing both treatment and placebo dosages without direct knowledge, instead of either placebo or the treatment. Subjects may be transferred directly from one treatment to another or may have a washout period in between test treatments. This type of trial can be randomised so that all subjects don’t get the alternative treatments in the same order.

Disease
Any deviation or interruption of the normal structure or function of any part, organ or system (or combination thereof) of the body that is manifested by a characteristic set of symptoms and signs and whose aetiology, pathology and prognosis may be known or unknown.

Disorder
A derangement or abnormality of function.

Dosage form
The pharmaceutical form in which a product is presented for therapeutic administration (e.g. tablet, cream).

Dosage regimen
The number of doses per given time period, the time that elapses between doses or the quantity of a medicine that is given at each specific time of dosing.

Double blind
Neither the participants in a trial nor the investigators (outcome assessors) are aware of which intervention the participants are given during the course of the trial.

Efficacy
A relative concept referring to the ability of a medicine or treatment to achieve a beneficial clinical effect. This may be measured or evaluated using objective or subjective parameters.

Endpoint
An indicator measured in a patient or biological sample to assess safety, efficacy or another trial objective. Also defined as the final trial objective by some authors.

Epidemiology
The study of the distribution and determinants of health-related states or events in specified populations.

Evidence-based textbook
A textbook based on a critical and systematic review of published data, not simply on the opinions of the author(s).

Good clinical practice
A standard for the design, conduct, performance, monitoring, auditing, recording, analysis and reporting of clinical trials that provides assurance that the data and reported results are credible and accurate, and that the rights, integrity and confidentiality of trial subjects are protected.
Placebo
An inactive substance or treatment that supposedly has no treatment value. It is given to participants in clinical trials as a control against which to compare the effects of the test substance. In practice, placebos may also have positive or negative effects on trial participants.

Population studies
Investigations of a disease or condition using subjects from a defined population. A population is a closely distributed grouping from a single community that is characterised by both genetic and cultural continuity through several generations.

Protocol
All clinical trials are based on a protocol, which describes who may participate in a trial, the length of a trial and the schedule of tests, procedures, medications and dosages.

Randomisation
The process of assigning trial subjects to treatment or control groups using an element of chance to determine the assignments in order to reduce bias.

Randomised controlled trial (RCT)
An experiment in which investigators randomly allocate eligible people into intervention groups to receive or not to receive one or more interventions being compared. The results are assessed by comparing outcomes in the treatment and control groups.

Sign
Any objective evidence of a disease, that is, such evidence as is perceptible to the examining physician, as opposed to the subjective sensations (symptoms) of the patient.

Single blind
A clinical trial where the participants are unaware of the whether they are receiving the placebo or active medicine or treatment.

Site
This refers to the place where a clinical trial is conducted. When a clinical trial is conducted at more than one site but using the same protocol, it is referred to as a multi-site or multi-centre trial.

Statistical significance
The probability that an event or difference is real or occurred by chance alone. It does not indicate whether the difference is small or large, important or trivial. The level of statistical significance depends on the number of patients studied or observations made, as well as the magnitude of difference observed. Statistical significance observed in a clinical trial does not necessarily imply clinical significance.

Subject / trial subject
An individual who participates in a clinical trial, either as a recipient of the medicine or treatment, or as a control.

Syndrome
A set of symptoms which occur together; a symptom complex.
Symptom
Any subjective evidence of disease or of a patient’s condition, that is, such evidence as perceived by the patient.

Systematic review
An analysis of a large number of clinical trials (sometimes known as a ‘meta-analysis’) aimed at looking for an overall pattern in the trial results. Cochrane Reviews are examples of such systematic reviews. In a systematic analysis only those trials which meet a number of pre-set conditions in relation to research design (e.g. sample size, randomisation) are included in the final meta-analysis.

Therapeutic good
The Therapeutic Goods Act 1989 defines a therapeutic good as follows:

“therapeutic goods means goods:

a) that are represented in any way to be, or that are, whether because of the way in which the goods are presented or for any other reason, likely to be taken to be:
   i) for therapeutic use; or
   ii) for use as an ingredient or component in the manufacture of therapeutic goods; or
   iii) for use as a container or part of a container for goods of the kind referred to in subparagraph (i) or (ii); or
b) included in a class of goods the sole or principal use of which is, or ordinarily is, a therapeutic use or a use of a kind referred to in subparagraph (a)(ii) or (iii);
and includes goods declared to be therapeutic goods under an order in force under section 7, but does not include:

c) goods declared not to be therapeutic goods under an order in force under section 7; or

d) goods in respect of which such an order is in force, being an order that declares the goods not to be therapeutic goods when used, advertised, or presented for supply in the way specified in the order where the goods are used, advertised, or presented for supply in that way;

e) goods for which there is a prescribed standard in the Australia New Zealand Food Standards Code as defined in subsection 3(1) of the Australia New Zealand Food Authority Act 1991; or

f) goods which, in Australia or New Zealand, have a tradition of use as foods for humans in the form in which they are presented.”

Therapeutic use
The Therapeutic Goods Act 1989 defines therapeutic use as follows:

“therapeutic use means use in or in connection with:

a) preventing, diagnosing, curing or alleviating a disease, ailment, defect or injury in persons or animals; or
b) influencing, inhibiting or modifying a physiological process in persons or animals; or

c) testing the susceptibility of persons or animals to a disease or ailment; or

d) influencing, controlling or preventing conception in persons; or

e) testing for pregnancy in persons; or

f) the replacement or modification of parts of the anatomy in persons or animals.”
**Washout period**

The stage in a cross-over trial where treatment is withdrawn before a second treatment is given. This is usually necessary to counteract the possibility that the first substance can continue to affect the subject for some time after it is withdrawn.

**Acknowledgements:**

This glossary has been adapted from that prepared by the Australasian Cochrane Centre, based at the Monash and Flinders Medical Centres.

Additional information was obtained from:

- Complementary Healthcare Council of Australia
- Notes for Guidance on Good Clinical Practice (CPMP/ICH/135/95)
- US National Institute of Health, Clinical Trials service (www.clinicaltrials.gov)
Attachment 2: TGA–approved texts

Monographs

- Blumenthal M et al (eds) (2000) Herbal Medicine – Expanded Commission E monographs, American Botanical Council, Austin, Texas. *(Note: Commission E monographs may constitute medium level evidence. However, only positive monographs can be used as positive evidence to support claims.)*


Pharmacopoeias (use current edition)


- European Pharmacopoeia, Council of Europe, Strasbourg.


- The United States Pharmacopeia and National Formulary USP Convention Inc, Rockville, Maryland.

- Pharmacopoeia of the People’s Republic of China Vol 1.

- British Homoeopathic Pharmacopoeia, British Homoeopathic Society, London.

Other TGA-approved pharmacopoeias on advice from expert committees.

Materia medica and repertory

- Boericke W (1927) Pocket Manual of Homoeopathic Materia Medica, comprising the characteristic and guiding symptoms of all remedies (clinical and pathogenetic), Boericke and Runyon Inc, New York, USA.


Attachment 3: Definitions – types of claims

Aids / Assists claims – a claim which describes how a product or substance may aid/assist in the management of a named symptom/disease or disorder.

Discrete events claims – a claim which refers to the ability of a product or substance to reduce the frequency of a discrete event such as migraine.

Disease management claim – a claim that a product or substance can treat, cure or manage a particular disease, disorder, condition or ailment.

Preventive claim – a claim which relates to preventing a particular disease, disorder, condition, symptom or ailment.

Risk reduction claim – a claim which relates to reducing the risk of a particular disease, disorder, condition, symptom or ailment.

Health enhancement claim – health maintenance claims which relate to health enhancement for normal healthy people, such as improving, promoting, maintaining or optimising (or words to that effect) body organs or systems.

Health maintenance claim – a claim which refers to an effect a product or substance may have in maintaining health (or words to that effect), but not including health enhancement or prevention claims. Health maintenance claims may relate to the normal physiological consequences for good health associated with a product or substance, or to the provision of nutritional support and to the use of the terms, cleansing, detoxification and tonic.

Symptom claim – a claim which relates specifically to the temporary relief of a particular symptom. All symptom claims must be accompanied by the statement “If symptoms persist consult your healthcare practitioner” or words to that effect.

Claims relating to specific named vitamin or mineral deficiency diseases – claims which refer to the name of a vitamin or mineral and a recognised deficiency disease.

Claims relating to vitamin or mineral supplementation – claims that refer to supplemental intakes of the vitamin or mineral. Vitamin or mineral supplementation claims are only permitted when the recommended daily dose of the product provides at least 25 percent of the Recommended Dietary Intake (RDI) for that vitamin or mineral. The RDI in this context refers to the Australian RDI. If there is no Australian RDI for a vitamin or mineral, an RDI from another country may be used. Vitamin and mineral claims of any kind should not refer to the presence of vitamins or minerals unless they are present in the recommended daily dose of the product to at least the level of 10% of the RDI, unless there is evidence to support a therapeutic effect below this level.