ABC of complementary medicine Homoeopathy

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Background

Homoeopaths treat disease using very low dose preparations administered according to the principle that "like should be cured with like." Practitioners select a drug that would, if given to a healthy volunteer, cause the presenting symptoms of the patient. For example, the homoeopathic remedy *Allium cepa* is derived from the common onion. Contact with raw onions typically causes lacrimation, stinging and irritation around the eyes and nose, and clear nasal discharge. *Allium cepa* might be prescribed to patients with hay fever, especially if both nose and eyes are affected.

Other common homoeopathic medicines include those made from plants such as belladonna, arnica, and chamomile; minerals such as mercury and sulphur; animal products such as sepia (squid ink) and lachesis (snake venom); and, more rarely, biochemical substances such as histamine or human growth factor. The remedies are prepared by a process of serial dilution and succussion (vigorous shaking). The more times this process of dilution and succussion is performed, the greater the "potency" of the remedy.

Prescribing strategies in homoeopathy vary considerably. In what is often termed "classical" homoeopathy, practitioners attempt to identify the single medicine that corresponds to a patient's general "constitution"—a complex picture incorporating current illness, medical history, personality, and behaviour. Two patients with identical conventional diagnoses may receive very different homoeopathic medicines.

Other practitioners prescribe combinations of medicines ("complex homoeopathy") or prescribe on the basis of conventional diagnosis alone. There is currently insufficient evidence concerning the relative benefits of the different approaches to treatment.

How can homoeopathy work?

It is well known that many homoeopathic medicines are ultramolecular—that is, they are diluted to such a degree that not even a single molecule of the original solute is likely to be present. As drug actions are conventionally understood in biochemical terms, homoeopathy presents an enormous intellectual challenge, if not a complete impasse. Many scientists have suggested that the clinical effects of homoeopathic medicines are solely due to the placebo effect. However, there have been rigorous, replicated, double blind, randomised trials showing significant differences between homoeopathic and placebo tablets.

The response to this has been mixed. Some people remain unconvinced by the evidence, claiming that there must be another explanation, such as methodological bias, for the results. Others point out that the evidence is very strong and argue that homoeopathic medicines must work by some, as yet undefined, biophysical mechanism. One possible explanation, currently being investigated, is that during serial dilution the complex interactions between the solvent (water) molecules are permanently altered to retain a "memory" of the original solute material.



Samuel Hahnemann (1755-1843), the German physician who first described homoeopathy, began his pioneering experiments in the 1790s



Homoeopathic medicines are made from various materials, including animal products such as sepia from squid ink



The complex lattice formations created by water molecules are thought by some to hold the key to understanding the mechanism by which homoeopathy might work

What happens during a treatment?

Homoeopaths' consultations for chronic conditions include an extremely detailed case history. Patients are asked to describe their medical history and current symptoms. Particular attention is paid to the "modalities" of presenting symptoms—that is, whether they change according to the weather, time of day, season, and so on. Information is also gathered about mood and behaviour, likes and dislikes, responses to stress, personality, and reactions to food. The overall aim of the history taking is to build up a "symptom picture" of the patient. This is matched with a "drug picture" described in the homoeopathic *Materia medica*. On this basis, one or more homoeopathic medicines are prescribed, usually in pill form. Sometimes treatment consists of only one or two doses. In other cases a regular daily dose is used.

Two to six weeks after the start of treatment, progress is reviewed and alterations made to remedy or dilution. A patient's initial symptom picture commonly matches more than one homoeopathic remedy, and follow up allows the practitioner to make an empirical judgment on whether a particular remedy was the correct one to prescribe. If the patient is doing well the practitioner may stop treatment and monitor progress. If symptoms recur the treatment may be repeated at the same or a higher potency. If the symptom picture has changed at follow up a different homoeopathic prescription may be given even though the conventional diagnosis remains unchanged.

Homoeopathic consultations in private practice may last over an hour, although many NHS general practitioners practise basic homoeopathy in 10-15 minute appointments. Many homoeopaths also recommend changes to diet and lifestyle, and some advise against vaccination (see section on safety below).

Therapeutic scope

Most of a typical homoeopath's caseload consists of chronic or recurrent conditions such as eczema, rheumatoid arthritis, fatigue disorders, asthma, migraine, dysmenorrhoea, irritable bowel syndrome, recurrent upper respiratory or urinary tract infections, and mood disorders. Homoeopaths also treat a substantial number of patients with ill defined illness that has not been given a conventional diagnosis. Children are much more commonly treated by homoeopaths than by other types of complementary practitioner.

Some homoeopaths say that few conditions are truly outside their remit, and the homoeopathic case literature includes treatment of complaints as diverse as tuberous sclerosis, infertility, myasthenia gravis, fear of flying, and cystic fibrosis. That said, opinions about what can be effectively treated by homoeopathy differ widely, even among homoeopaths, with medically trained practitioners generally being more conservative than non-medical ones. It is also used, often by self prescription, to treat various acute conditions such as the common cold, bruising, hay fever, and joint sprains.

Research evidence

Given the difficulties in understanding how homoeopathy may work, researchers have concentrated on establishing whether it is a placebo treatment. Current evidence suggests that this is probably not the case. A recent meta-analysis, published in the *Lancet*, examined over 100 randomised, placebo controlled trials and found an odds ratio of 2.45 (95% confidence interval 2.05 to 2.93) in favour of homoeopathy. The authors concluded that, even allowing for publication bias, "the results of our

Examples of "drug pictures" of commonly prescribed homoeopathic medicines

Aconite (Aconitum napellus)

Shock

- Sudden or violent onset
- Ailments from shock, fright, or fear
- Intense fear. Terror stricken. Predicts the time of death
- Restlessness with fear of death
- Ailments from exposure to cold, dry wind
- Worse with violent emotions, cold, night (especially around midnight)
- Better with open air, wine

Chamomile (Matricaria chamomilla)

Teething infant

- Child wants to be carried and is then more quiet
- · Twitchings and convulsions during teething
- Frantic irritability with intolerance of pain
- Ugly, cross, uncivil, and quarrelsome
- · Colic after anger
- · Worse with anger, night, dentition, coffee
- · Better with being carried, warm wet weather

Rhus toxicodendron

Joint pains worse with first movement and rest and better with motion

- Pain and stiffness worse in damp weather
- Irritability and restlessness at night, driving out of bed
- · Back pains and stiffness compelling constant movement in bed
- Urticaria, vesicles. Cold air makes skin painful
- Asthma alternating with skin eruptions
- Worse with exposure to wet, cold, before storms, rest, first movement
- Better with heat, continued motion, rubbing, hot bath

Adapted from Leckridge 1997

Examples of symptomatic homoeopathic prescribing

Remedy	Condition
Cuprum	Leg cramps
Chamomile	Teething
Arnica	Bruising and trauma
Cantharis	Cystitis
Aconite	Croup
Colocynth	Infantile colic
Rhus tox.	Joint pain

Key studies of efficacy

Systematic reviews

- Kleijnen J, Knipschild P, ter Riet G. Clinical trials of homoeopathy. BMJ 1991;302:316-23
- Linde K, Clausius N, Ramirez G, Melchart D, Eitel F, Hedges LV, et al. Are the clinical effects of homeopathy placebo effects? A meta-analysis of placebo-controlled trials. *Lancet* 1997;350:834-43

Randomised controlled trials

 Reilly D, Taylor MA, Beattie NG, Campbell JH, McSharry C, Aitchison TC, et al. Is evidence for homoeopathy reproducible? Lancet 1994;344:1601-6

Laboratory studies

- Belon P, Cumps J, Ennis M, Mannaioni PF, Sainte-Laudy J, Roberfroid M, et al. Inhibition of human basophil degranulation by successive histamine dilutions: results of a European multi-centre trial. *Inflamm Res* 1999:48(suppl 1):S17-8
- Linde K, Jonas WB, Melchart D, Worku F, Wagner H, Eitel F. Critical review and meta-analysis of serial agitated dilutions in experimental toxicology. *Hum Exp Toxicol* 1994;13:481-92

meta-analysis are not compatible with the hypothesis that the clinical effects of homoeopathy are completely due to placebo."

The notorious Benveniste affair, which involved accusations of fraud and scientific misconduct after the publication of an in vitro experiment in *Nature*, continues to dampen enthusiasm for basic research in homoeopathy. None the less, laboratory studies have reported biological effects of homoeopathic medicines on animals, plants, and cells—some at ultramolecular dilutions.

Evidence is less clear on the effectiveness of homoeopathy as it is generally practised for the conditions that homoeopaths usually treat. Many trials have investigated treatment of an acute condition with a single remedy. This makes research easier but does not reflect the real world of homoeopathic clinical practice. For example, in the best known UK trial 144 patients with hay fever were randomised to receive either homoeopathically prepared grass pollen or placebo. Though there was a significant result in favour of homoeopathy, implications for clinical practice are unclear as most homoeopaths do not treat hay fever with homoeopathic grass pollen alone.

There is currently insufficient evidence that homoeopathy is clearly efficacious for any single clinical condition. For many of the conditions treated in homoeopathic practice—such as depression, fatigue, and eczema—randomised trials have not been undertaken. In addition, few of the existing studies of homoeopathy have been independently replicated.

Safety of homoeopathy

Serious unexpected adverse effects of homoeopathic medicines are rare. "Aggravation reactions," when symptoms become acutely and transiently worse after starting homoeopathic treatment, have been described and are said by homoeopaths to be a good prognostic factor. They may cause concern, especially if patients and doctors are not adequately forewarned.

A potentially more serious issue is the belief of some practitioners that conventional drugs reduce the efficacy of homoeopathy. Serious adverse events have resulted from patients failing to comply with essential conventional treatments while using homoeopathy. Some, mainly non-medical, homoeopaths are also strongly against vaccination, although the official policy of the Society of Homoeopaths is to give patients information and choice and not to pressurise against immunisation. Homoeopaths may offer alternatives to vaccination. These have not been subjected to clinical trials and cannot therefore be recommended as an effective substitute.

There have been examples of homoeopathic medicines being adulterated with drugs, although this is extremely unlikely in the case of registered practitioners in Britain.

Practitioners

About 1000 UK doctors practise homoeopathy, although fewer than half of these are full members of the Faculty of Homoeopathy. Many are general practitioners who have received only a basic training and who normally prescribe a limited number of remedies for specific acute conditions. Over 1500 homoeopaths without a conventional healthcare background are thought to practise in the United Kingdom.

Homoeopathy has been part of the NHS since its inception. There are currently five homoeopathic hospitals, of which the two largest, in Glasgow and London, have inpatient units. The hospitals provide a range of conventional and complementary treatments in addition to homoeopathy. Normal NHS



Laboratory experiments showing effects of homoeopathic medicines on animals provide evidence that the effects of homoeopathy are not entirely due to placebo



Some homoeopaths, mainly those without medical qualifications, believe that vaccination does more harm than good



Pharmacy of Royal London Homoeopathic Hospital. NHS homoeopathic hospitals employ conventionally trained pharmacists, who have additional training in homoeopathy and sometimes herbal medicine. They dispense a range of complementary medicines which are prescribed by medically qualified practitioners

conditions apply: patients receive services free at the point of care, and the hospitals are reimbursed through block contracts with health authorities or extracontractual referrals. Some independent homoeopaths have had contracts with fundholding general practices and health authorities and have provided treatment for NHS patients.

Homoeopathic medicines can be purchased over the counter at chemists and health stores. They can also be prescribed on an FP10 form (GP10 in Scotland) by any doctor registered with the General Medical Council. About 10-20% of the UK population have bought homoeopathic products over the counter.

Homoeopathy is particularly popular in Europe: over $10\,000$ German and French doctors practise homoeopathy, and homoeopathic medicines constitute a substantial share of these countries' over the counter markets.

Training

The Faculty of Homoeopathy offers doctors a 40 hour course, approved for postgraduate education allowance, and an examination that lead to a primary care healthcare certificate. Intermediate and advanced courses are also available. The minimum entry requirement for the faculty's membership examination (MFHom) is 150-180 hours of study.

Training for homoeopaths without a medical background varies from three years part time to three years full time. Some training courses lead to university degrees in homoeopathy.

Regulation

The Faculty of Homoeopathy maintains a register of medical homoeopaths. The Society of Homoeopaths is the main regulatory body for practitioners without conventional healthcare qualifications and registers about 75% of homoeopathic practitioners in the United Kingdom.

The ABC of complementary medicine is edited and written by Catherine Zollman and Andrew Vickers. Catherine Zollman is a general practitioner in Bristol, and Andrew Vickers will shortly take up a post at Memorial Sloan-Kettering Cancer Center, New York. At the time of writing, both worked for the Research Council for Complementary Medicine, London. The series will be published as a book in Spring 2000.

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A wide range of homoeopathic preparations, usually of low potency, are available over the counter. Most are used for self medication on a simple, symptom matching basis

Addresses of regulatory bodies

Faculty of Homoeopathy

For medically trained homoeopaths 15 Clerkenwell Close, London EC1R 0AA. Tel: 0171 566 7800. Fax: 0171 566 7815. Email: info@trusthomeopathy.org

Society of Homoeopaths

Mainly for non-medically qualified homoeopaths 2 Artizan Road, Northampton NN1 4HU. Tel: 01604 621400. Fax: 01604 622622. Email: societyofhomoeopaths@btinternet.com URL: www.homoeopathy.org.uk

Further reading

- Leckridge B. Homoepathy in primary care. Edinburgh: Churchill Livingstone, 1997
- Swayne J. The homoeopathic method: implications for clinical practice and medical science. Edinburgh: Churchill Livingstone, 1998

BMJ 1999;319:1115-8

One hundred years ago

London operating theatres

In an article on Preparing for the Knife in European Hospitals (*Medical Record*, July 15th), Dr. Preston Miller speaks very disparagingly of the operation-room in London hospitals. Germany is his ideal; French operating is less to his taste. He finds the room too cold in a Paris hospital, whilst the surgeons talk too much, smoke cigarettes, and perspire into the wound. In London, he writes, "operating rooms here are yet colder than at Paris, and some of them with open grates burning soft coal fill the operating room (*sic*) with suffocating smoke and no perceptible heat. Floors of wide boards and soft wood, with dirt-filled joints, and picture-frames everywhere on the walls containing biblical mottoes, are further adornments of some of the best-known operating rooms. On cool mornings it was interesting to watch

steam rise from the hands of the operator as he turned from the washbowl, and the next moment the same emanation from his incision, and again from neoplasms as they were placed about in vessels Old operating tables are the rule; the Trendelenburg position is not believed in. Finger nails are worn long, and less pains taken to clean them than at Paris. The surgeon generally removes his coat, often his vest, and sometimes even his shirt before putting on his apron. But asepsis, as practised on the Continent, is practically disregarded in London." Possibly some of this censure is not entirely undeserved, especially as to the wide boards and the picture frames, though Dr. Miller seems to imply that a scriptural text is septic. We doubt very much the high septicity of an English gentleman's finger nails. (*BMJ* 1899;ii:298)