

# The Case FOR Homeopathic Medicine: The Historical and Scientific Evidence

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A lot of people today are confused about what homeopathy is (and isn't), and this situation is not helped by the skeptics of homeopathy who go to incredible extents to exaggerate and misconstrue what homeopathic medicine is and who commonly provide misinformation about it. It is more than a tad ironic that these "skeptics" who hold themselves out as "defenders of medical science" have exhibited an embarrassingly poor scientific attitude when evaluating what homeopathy is and what the scientific evidence does and doesn't say about it.

Because many skeptics of homeopathy today indulge in spreading misinformation about homeopathy, this blog is addressed at setting the record straight and is packed with references to confirm the veracity of what is being asserted here.

First, to clarify, advocating for or using homeopathic medicines does not preclude appreciation for or use of selective conventional medical treatment. Advocates of homeopathy simply honor the Hippocratic tradition of "First, do no harm" and therefore seek to explore and utilize safer methods before resorting to more risky treatments. This perspective has historical and international roots, and it is thus no surprise that American health care which has been so resistant to homeopathic and natural therapies in its mainstream institutions is presently ranked 37<sup>th</sup> in the world in the performance of its health care system.[1] (The #1 ranked country in the world is France, a country in which around 40% of the population uses homeopathic medicines and around 30% of its family physicians prescribe them.[2])

The fact that homeopathy became extremely popular during the 19<sup>th</sup> century primarily because of its impressive successes in treating the infectious disease epidemics that raged during that time is a fact that is totally ignored by skeptics.[3] [4] [5] It is highly unlikely that a placebo response is the explanation for **homeopathy's notable successes in treating epidemics of cholera, yellow fever, scarlet fever, typhoid, pneumonia, or influenza.** Skeptics are wonderfully clever in trying to make up stories and excuses for the good and often amazing results that people get from homeopathic medicines. Most often, however, they simply say that "old news is no news," as they brag about not learning from the past as though this is a good thing.

There are more than 150 placebo controlled clinical studies, most of which have shown positive results, either compared with a placebo or compared with a conventional drug.[6] [7] [8] [9] [10]

If that were not enough, studies testing the effects of homeopathic medicines on cell cultures, plants, animals, physics experiments, and chemistry trials have shown statistically significant effects.[11] [12] [13] [14] [15] [16] Needless to say, the placebo effect in these basic science studies is virtually non-existent, while the effects from homeopathic doses are significant and sometimes substantial.

**Skeptics are virulently silent on the entire field of hormesis** (the multidisciplinary science of evaluating the power of small doses of varied biological systems) and **its thousands of studies** (!) in a wide variety of scientific disciplines.[17] [18] This silence on hormesis is completely understandable because their acknowledgement of this body of evidence obliterates much of their criticisms of homeopathy. The doses of homeopathic medicines that are commonly sold in health food stores and pharmacies throughout the world are in a similar low dosage range of the thousands of hormesis studies on low-dose effects. It is very odd that skeptics ignore the thousands of studies in this field, and yet, these same skeptics repeat their embarrassingly uninformed mantra of “where is the research?” It is indeed no wonder that these skeptics are often referred to as “denialists” rather than skeptics.

It is readily acknowledged that the pharmacological process of making homeopathic medicines is often misunderstood or inadequately understood. Homeopathic medicines are made with a specific process, called potentization, that is unique to homeopathy. Each medicine is made in double-distilled water in a glass test-tube, diluted in a 1:10 or 1:100 solution that is vigorously shaken 40 or more times. Then, this process of dilution and succussion (vigorous shaking) is repeated 3, 6, 12, 30, 200, 1,000, or more times. Although one would think that one is diluting out whatever was in the original solution, the immense worldwide experience using homeopathic medicines over the past 200 years prove otherwise.

There is a body of intriguing but not yet fully verified theories about how homeopathic medicines work. These theories are too technical for this article, though I sincerely hope that the “good skeptics” out there will work to explore and help figure out the many mysteries that may explain homeopathy, rather than repeat the old reactionary mantra that “it cannot work.”

For instance, the new “**silica hypothesis**” is particularly intriguing, especially in light of the fact that approximately 6 parts per million of “silica fragments” or “chips” are known to fall off the walls of glass vial during the shaking process, and the creation of nanobubbles from the shaking process results in transient localized regions of high pressure topping 10,000 atmospheres (atm) that have been hypothesized to alter the water in a significant and persistent way.[19]

Because a homeopathic medicine is selected for its unique ability to cause the specific pattern or syndrome of symptoms that it is known to cause in overdose, a living organism has a hypersensitivity to even extremely small doses of the correctly chosen homeopathic medicine. Just as a “C” note of a piano is hypersensitive to other “C” notes, living organisms are hypersensitive to extremely small doses of medicines that are made from substances that cause the similar symptoms that the sick person is experiencing. This ancient principle, “like cures like,” was heralded by the Oracle at Delphi, the Bible, and various Eastern cultures, and the fact that modern-day immunology and allergy treatments derive from the primary principle of homeopathy, “the law of similars,” provides additional substantiation to this system of medicine. Conventional allergy treatment and vaccination are two of the very few conventional medical treatments that do something to augment immune response, and yet, both of these treatments derive from the homeopathic principle of similars.

Actually, a better description of this principle of similars is the “principle of resonance,” which any student of music knows has both power and hypersensitivity. The additional wisdom of this homeopathic principle is that its use leads to the prescription of medicines that mimic, rather than that suppress, the symptoms and the innate intelligence of the human body. Because homeopathic medicines are prescribed for their ability to mimic the similar symptoms that the sick person is experiencing, it is no wonder that people find that these medicines augment immune competence and improve body and mind health.

In this light, homeopathy can and should be considered a type of “medical biomimicry” and a “resonance medicine.”

Homeopaths may not yet adequately understand precisely how their medicines work, but the body of historical and present-day evidence and experience is simply too significant to ignore. The fact that so many highly respected people and cultural heroes over the past 200 years have used and advocated for homeopathy provides additional evidence for this medical system. Some of these cultural heroes include eleven U.S. Presidents, six popes, JD Rockefeller, Charles Darwin, Mother Teresa, Mahatma Gandhi, and scores of literary greats, corporate leaders, sports superstars, world-class musicians, and monarchs from virtually every European country.<sup>[20]</sup>

It is also important to acknowledge that hundreds of thousands, even millions, of medical doctors learned conventional medicine but who have used homeopathic medicines in conjunction with or (commonly) in replacement of conventional medicines. In comparison, the number of medical professionals who have trained in homeopathy and who then stopped using these medicines is extremely small. The fact that homeopathic medicine represents the leading medical alternative in Europe and in significant portions of Asia (especially India and Pakistan) provides additional support for this often misunderstood medical science and art. In fact, over 100 million people in India depend solely (!) on this form of medical care.

[21] Further, according to an A.C. Nielsen survey, 62% of current homeopathy users in India have never tried conventional medicines and 82% of homeopathy users would not switch to conventional treatments.[22]

### **The So-Called Best Evidence that Homeopathy Does Not Work**

Sadly and strangely, the skeptics of homeopathy put much of their belief that homeopathy does not work on a review and comparison of homeopathic and conventional medical research that was published in the **Lancet** in 2005.[23] The **Lancet** even published an editorial in this same issue entitled “The End of Homeopathy.”

However, this “evidence” is a very controversial and some say extremely flawed review of homeopathic research.[24] [25] This review sought to compare 110 placebo-controlled homeopathic studies and with a “matched” group of 110 studies testing conventional medications. The researchers appropriately sought to only evaluate those studies that their criteria deemed to be a “high quality” study.

Although the idea of comparing studies is a good idea, the way that this group of researchers evaluated only a small subset of all studies showed an initial and ongoing bias, as you shall soon see...

First, it is important to know that the leader of this review of homeopathic research is A. Shang’s boss (and co-author of this article) is M. Eggers, a noted vocal skeptic of homeopathy. Second, evidence of strong bias against homeopathy by these researchers was brought to light by the **Lancet**’s senior editor, Zoe Mullan, who acknowledged that, “Professor Eggers stated at the onset that he expected to find that homeopathy had no effect other than that of placebo.”[26]

Shang and his team deemed that “high quality trials” must fit certain criteria. It must be acknowledged that two other meta-analyses that have previously been published in the **Lancet** (1997) and the **British Medical Journal** (1991) have deemed several trials that had strongly positive effects from homeopathic treatment as “high quality” than was not deemed as such by Shang (and he has never commented about this discrepancy).

Despite the problems in comparing conventional medical research and homeopathic research, let’s assume that the two groups of studies ARE comparable. It is therefore more than a tad ironic that they found 21 of the homeopathic studies fit this definition of “high quality” clinical researcher but only 9 of the conventional studies did so. One would have thought that the researchers would then compare these “high quality” trials. However, this result would have shown that there IS a difference between homeopathic treatment and a placebo in a variety of ailments, and authors (who are known skeptics of homeopathy) could not allow that conclusion.

Instead, Shang's group chose to only evaluate a much smaller subset of these high quality trials. They limited the review to the largest trials in both groups to 8 homeopathic trials (with at least 98 subjects) and 6 conventional trials (with at least 146 subjects). Strangely enough, when evaluating only this last group of larger studies, they were not comparable in ANY way. The diseases that they treated were all different. And conveniently enough, the researchers asserted that one of the large trials testing homeopathic medicines in the treatment of patients with polyarthritis (arthritis in multiple joints) did not have a comparable trial (they actually asserted with complete seriousness that there has never been a study of patients with this common malady, and rather than admit that this large trial of 175 patients which showed significant efficacy of treatment, they simply threw out the trial from their evaluation). When one realizes that NONE of the studies in the final evaluation matched each other in any way, the researchers' decision to throw out this study on the homeopathic treatment of people with polyarthritis is additional evidence of the researcher's strong biases and their efforts to prove homeopathy as a placebo "by hook or by crook."

The researchers put a higher value of those studies with larger numbers of patients because they asserted that smaller trials are "biased," even though they were randomized double-blind and placebo studies (and many of which were published in the **Lancet**, the **BMJ**, and other highly respected conventional medical journals). One group of four studies on patients with respiratory allergies which included 253 subjects and was published in the **BMJ**[27] was not a part of the final analysis without explanation. An earlier study published in the **Lancet** with 144 subjects suffering from hay fever was also missing from the final analysis.[28] The fact that these studies showed a significant benefit from homeopathic treatment was ignored entirely.

Using large number of subjects is "do-able" in homeopathy, though it is simply less frequent, due to the high costs of such studies and due to the fact that the profit margin for the sale of homeopathic medicines does not even approach that of conventional drugs. Also, it is a lot easier using conventional medicine than homeopathic medicine in studies because the very nature of homeopathy is the necessity to evaluate a person's overall syndrome, not just any localized disease. This type of sophistication in individualized treatment is a part of good acupuncture treatment as well.

It is therefore not surprising that 6 of the 8 large homeopathic trials gave the same homeopathic medicine to every subject, no matter what symptoms of the disease the subjects in the experiments experienced. Astonishingly enough, the Shang review included a "weight-loss" study in their final review. The "study" used *Thyroidinum* 30C (a small dose of thyroid gland), even though this remedy is not reported in the homeopathic literature as an appropriate medicine for this condition.

Even though a study can be "well designed" and "well conducted," it will become a "junk science" study if the drug used is totally inappropriate for the sick person. As it turns out, 6 of the 8 homeopathic studies in the final analysis by Shang used homeopathic medicines

that were unlikely to be prescribed by a practicing homeopath (they prescribe their medicines based on the overall syndrome of physical and psychological symptoms the patient has, not just based on the diagnosed name of the disease, except in exceptional situations). In research and statistics, good studies need to have “internal validity” (how the study was designed and conducted) and “external validity” (how the treatment in the study can be generalized to clinical practice). The Shang group did not even seek to evaluate whether any of the studies had “external validity” or not. Sad, but true.

Perhaps the most interesting fact about this study was totally ignored by its authors. **Shang and his team purposefully did not evaluate safety issues of treatment. Therefore, it is not surprising that at least three of the conventional medical treatments that were found to be “effective” initially were later found to be so dangerous that the drugs were withdrawn from medical use.**

Finally, imagine if researchers evaluated ALL studies for which antibiotics were used. Although antibiotics are primarily effective in the treatment of bacterial infections, they have been tested to treat a wide variety of infections, not just bacterial, but as we all know, antibiotics are not effective for anything other than bacterial infection (and even then, the frequency of use of antibiotics will reduce their efficacy because the bacteria adapt to it). Just because antibiotics are not effective for most conditions does not mean that specific antibiotics are ineffective for specific conditions. Good science requires specificity, not over-generalized statements, as Shang and his ilk have made.

Although the above seems to be a simple and logical statement, skeptics of homeopathy prove their paucity of rational thought by lumping together ALL types of homeopathic research, then throwing out or ignoring the vast majority of studies (including MOST of the studies that the researchers defined as “high quality”), and using studies that are not good examples of how homeopathy is practiced.

For instance, the World Health Organization has deemed that childhood diarrhea represents one of the most serious public health problems in the world today because millions of children die each year as a result of dehydration from diarrhea. With this concern in mind, three randomized double-blind trials were conducted testing individually chosen homeopathic medicines for children with diarrhea. One of these studies was published in **Pediatrics**,<sup>[29]</sup> and another study was published in another highly respected pediatric medical journal.<sup>[30]</sup> All three of these trials showed a significant benefit from homeopathic treatment when compared with placebo.

Similarly, four double-blind placebo controlled trials has shown benefit from the homeopathic medicine, *Oscillocochinum*, in the treatment of influenza.<sup>[31]</sup> Research has consistently found it to be effective in the treatment of influenza, though it does not seem to be effective in its prevention.

As for homeopathy and respiratory allergies, reference above was already made to four studies that showed effectiveness of homeopathic treatment (2 of which were published in the **BMJ** and 1 of which was published in the **Lancet**). Further, a review of seven double-blind and placebo controlled studies showed that homeopathic doses of *Galphimia glauca* were effective in treating people with hay fever.[32]

The two new re-analyses of the Shang review of homeopathic research provide the old cliché, GIGO. Junk data indeed creates junk science which creates junk and meaningless results. And ironically, THIS study is considered the ‘best’ evidence that homeopathy does not work. If this is the best that they have, skepticism of homeopathy is not only dead, it is stupid dead.

While I would like to think that this article would finally put the last nail in the coffin of skeptics of homeopathy, I know that Big Pharma will not allow that to happen. Further, these skeptics are often like religious fundamentalists who will believe what they want to believe no matter what. And then, there’s the impact from cognitive dissonance: many people who have invested their time and energy into conventional medicine simply cannot imagine admitting that homeopathy may have any benefit. It may be time to put that rotary telephone in the attic along with the typewriter and your former skepticism of homeopathic medicine.

### **A Simple Challenge to Skeptics**

To adequately and accurately evaluate homeopathy, one has to evaluate the whole body of evidence that has enabled homeopathy to persist for 200+ years. While evaluating double-blind clinical trials is important, so is evaluating the wide body of basic sciences, as well as the clinical outcome trials, the epidemiological studies, the cost-effectiveness literature, and the serial case review trials. It is strange that these defenders of science would remain so ignorant of the whole body of evidence that homeopathic medicine stands. Some leading skeptics of homeopathy even pride themselves on the value of having a closed mind to homeopathy.[33]

Skeptics of homeopathy assume that homeopaths, more than any other type of health practitioner, have incredible magic powers to elicit a placebo effect. We all acknowledge a certain power of the placebo in treating the “worried well,” but do skeptics of homeopathy really believe that a placebo effect is consistently effective to treat all of the serious illnesses that are commonly treated by homeopaths...and for which good double-blind studies show efficacy? Studies at the University of Vienna showed “substantial significance” in treating patients with COPD (chronic obstructive pulmonary disease...the #4 reason that people in the USA die!)[34] and severe sepsis (a condition which kills 50% of patients in hospitals who are inflicted with it, and yet, homeopathic treatment has been found to cut this death rate in HALF!)[35]

The vast majority of homeopaths throughout the world are medical doctors or some other licensed or certified health professional who practice family medicine and who see patients with varied acute and chronic ailments. Therefore, I personally challenge ANY skeptic of homeopathy to try to maintain a family practice and only dispense “sugar pills,” rather than real homeopathic medicines. My challenge is simple: while seeing a wide variety of children and adults with various acute and chronic problems, take them off all of their conventional drugs (with the exception of insulin and a small selection of drugs of “medical necessity”), and prescribe only sugar pills...for just one week.

When you consider that homeopaths do this for 52 weeks of the year, skeptics of homeopathy should not have any problem IF they think that homeopaths are only prescribing placebos. Let's see how many patients complain, call you late at night expressing concern about the ineffectiveness of your “medicine,” and simply do not return for future health care. Any skeptic of homeopathy will be “cured” by this experience in humility. (For the record, I have offered hundreds of skeptics with this challenge, and not a single one has agreed to “prove” that placebo treatment can work in family medicine).

To clarify, I honor good skepticism, for a healthy skepticism seeks to truly explore a subject with knowledge and without arrogance. Further, good skepticism seeks to understand the wide body of evidence that it is necessary to evaluate to determine veracity of phenomena. **It is the bad or ugly skepticism that breeds an unscientific attitude and that is simply a form of denialism, or in some cases, hyper-denialism.**

Sadly, many of today skeptics are fundamentalists who epitomize a “closed mind.” Deepak Chopra said it so well when he asserted, “professional skeptics who are self-appointed vigilantes dedicated to the suppression of curiosity” (huffingtonpost, Dec 27, 2009). When such people do not want to learn from the past, do not even read the research (or only read those studies that confirm their own point of view), and maintain a high degree of arrogance, such “skepticism” isn't skepticism at all: it is bad scientific thinking, it is an unhealthy attitude towards science, and it is a model for how not to learn.

One of the leaders of the skeptics is famed magician James Randi, who like many skeptics is seemingly skeptical of everything (except conventional medicine). He, however, has begun to lose respect from his colleagues and scientists by his skepticism of global warming.[36]

When the denialists assert and insist that homeopathy “cannot” work, I remind them that “science” and “medicine” are not just nouns but verbs...science and medicine are ever-changing. ...and what may be today's medicine is tomorrow's quackery, and what may today's quackery may be tomorrow's medicine. This is not a prediction; this is history. I encourage everyone and anyone who is seriously interested in the science and art of real healing to explore what homeopathic medicine has to offer. **As Mark Twain once asserted in 1890, “you may honestly feel grateful that homeopathy survived the attempts of the allopathists [conventional physicians] to destroy it.”[37]**



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