DISTANT HEALING by Daniel J. Benor, MD

This article reviews 61 studies of distant healing, which is healing that is deliberately sent by one or more healers as an intent, wish, meditation, or prayer to a healee who may be in the healers' presence or may be far away. Distance, even thousands of miles, does not appear to limit the effects of healing. Significant effects of distant healing are demonstrated by randomized controlled trials in humans, animals, plants, bacteria, yeasts, cells in the laboratory, and DNA. Fascinating new insights about energy medicine and integrative care are suggested by these studies.

Noteworthy are 120 further randomized controlled studies of healing given with the healers' hands held on or near the body, again with many of these demonstrating highly significant effects, not included in this article.

While distant healing appears to contradict our ordinary sense of reality and the laws defined by conventional science, there are several theoretical paradigms that suggest explanations for healing.

Key words: spiritual healing, distant healing, research

Introduction

I define spiritual healing as the "systematic, purposeful intervention by one or more persons aiming to help another living being (person, animal, plant or other living system) by means of focused intention, hand contact, or passes to improve their condition. Spiritual healing is brought about without the use of conventional energetic, mechanical, or chemical interventions. Some healers attribute healing to God, Christ, other 'higher powers', spirits, universal or cosmic forces or energies; biological healing energies or forces residing in the healer; psychokinesis (mind over matter); or self-healing powers or energies latent in the healee. Psychological interventions are inevitably part of healing, but spiritual healing adds many dimensions to interpersonal factors (1, 2)."

This article reviews 61 studies of distant healing, which is healing that is deliberately sent by one or more healers as an intent, wish, meditation, or prayer to a healee who may be in the healers' presence or may be far away. Distance, even thousands of miles, does not appear to limit the effects of healing.

Distant healing lends itself well to double-blind studies. Healers need not have direct contact with healees. Researchers can randomize patients into treatment and control groups leaving patients, medical staff, and those assessing possible effects of distant healing blinded to who is being sent the distant healing. It is impossible in a brief article to do justice to all of these studies. A few samples
of the best randomized, double-blind, controlled studies will be taken from each category for discussion, with references to the remainder for those who are interested in exploring further. The references are available at , and a full annotated bibliography of touch, near, and distant healing is available in my new book, Healing Research, Volume I (1, 2). Included in Healing Research are rankings of studies according to standards of research design, execution, and reporting.

**Distant healing for human physical problems**
The two best studies in this category are for treatment of problems in a cardiac intensive care unit (CCU).

Randolph Byrd (3) explored effects of intercessory prayer by born-again Christians on 192 patients hospitalized on a CCU in California, compared with 201 in the control group. After signing an informed consent, patients were randomized into the two groups, and later checks showed that there were no significant differences between the groups on demographic or illness variables. Prayers were sent daily by three to seven Christians.

Byrd devised a severity of illness assessment, as none existed for patients in a CCU. "Each intercessor was asked to pray daily for a rapid recovery and for prevention of complications and death, in addition to other areas of prayer they believed to be beneficial to the patient. Significantly fewer patients in the prayer group required intubation; ventilation (p < 0.002) or antibiotics (p < 0.005), had cardiopulmonary arrests (p < 0.02), developed pneumonia (p < 0.03) or required diuretics (p < 0.05)."

Despite the differences between groups, the mean times in CCU and duration's of hospitalization between groups were nearly identical. As Byrd notes, some of the patients in the control group may have had outsiders praying for them, which presumably would have reduced the differences between groups. If this is the case, the results are even more impressive.

In a replicating study, William S. Harris and colleagues (4) studied the effects of intercessory prayer in consecutively admitted patients on a CCU at the Mid America Heart Institute (MAHI), Kansas City, MO. There were 466 in the prayer group and 524 in the control group. Again, no significant initial differences were noted in comorbid conditions, age, or sex between the groups. Neither patients nor staff knew the study was being done, and therefore informed consent was not obtained.

Intercessors were recruited from the local community if they agreed with the statements: "I believe in God. I believe that He is personal and is concerned with
individual lives. I further believe that He is responsive to prayers for healing made on behalf of the sick."

Intercessors were randomly assigned to 15 teams, each with 5 members (total 75). Intercessors were 35% non-denominational, 27% Episcopalian, and the rest Protestant or Roman Catholic. Prayers commenced by at least one intercessor by the second day after admission to the CCU. Intercessors were requested to pray daily over the following 28 days for "a speedy recovery with no complications" and anything else that seemed appropriate to them. The 28 days covered the CCU patients' entire hospitalization in 95 percent of the cases. New events during the CCU stay were assessed by an internist and three experienced cardiologists. As no standard scales exist for the assessment of CCU cardiac status or progress, the researchers developed two of their own, the first with weighted and the second with unweighted values for various events, procedures and new diagnoses. A third rating, the Hospital Course Score used in the study by Byrd, was recorded as well.

All assessments and data analyses were conducted blindly. On both the weighted and unweighted scales, the treated group showed significantly greater improvements (both at p < 0.04). No significant differences between groups were found in the Byrd hospital course scores, although there was a trend in favor of the E group. Interestingly, again no significant differences were noted between the two groups in duration of hospital stays.

While many people feel that there is a distinction between prayer healing and healing done outside of religious settings or frameworks there is no research as yet which would validate this view. Several studies have addressed this question, none of them providing clear results (5, 6).

A third excellent study was published by Fred Sicher, Elizabeth Targ, and colleagues (7) on effects of distant healing on AIDS at California Pacific Medical Center's Complementary Medicine Research Institute. This study focused on 40 volunteers who had advanced AIDS (8). Volunteers were solicited through local advertisements. Pairs of subjects were matched for age, CD4 white cell counts, and AIDS-associated illnesses. They were randomly assigned to receive either distant healing or no healing. All received standard medical care from their own doctors, at several different medical centers (9).

Distant healing was sent by 40 healers in various parts of the United States. All healers had at least five years experience, including treatment of AIDS, and were accustomed to sending distant healing. Healers had only the first names and photographs of five of the subjects. They sent healing for an hour each day, six
days per week, over a 10-week period. Healers were rotated randomly in weekly
healee assignments, so that every healee had 10 different healers who sent
healing over the course of their treatment. Healers' religious backgrounds
included Christianity, Buddhism, Judaism, Native American and other Shamanic
traditions, and healing traditions included several modern-day healing schools.
After six months, a medical chart review was conducted by a doctor who was
blind to treatment assignments. There were no significant differences between
healing and control groups on demographic and study variables prior to the start
of distant healing treatments. At six months following the initial assessment,
those sent distant healing had significantly fewer AIDS-related illnesses (p <
0.04) and lower severity of illnesses (p < 0.02). Visits to doctors were less
frequent (p < 0.01), as were hospitalizations (p < 0.04), and days in hospital (p <
0.04).

Mood was assessed on the Profile of Mood States (POMS). Again there was
significantly more improvement in the prayer group (p < 0.02). A higher mean
score (not significant) was found in the E group at baseline. This could have
contributed to the greater improvement shown on this variable. CD4 counts and
scores on other psychological assessments did not differ significantly between
the two groups.

The authors point out that the overall improvements appear to indicate "a global
rather than a specific distant healing effect." They suggest that measures of viral
load and activity of natural killer (NK) cells may be more useful measures of
healing effects than CD4+ counts. However, no comparisons between groups
were made on the treatments used, administered by different doctors at different
treatment centers. It is possible that there were significant differences between
groups in these or in other unidentified variables, with the prayer group receiving
medical treatment which gave them some advantage compared to that given to
the control group (10).

Another significant aspect of the studies of Byrd, Harris et al, and Sicher et al is
that they are published in respected, conventional American medical journals.
Until recently, most medical journals would routinely reject articles on spiritual
healing.

Other studies have shown effects of distant healing on back pain (11), arthritis
(12), recuperation from surgery (13, 14), hypertension (15), anxiety (16),
anticipatory nausea in chemotherapy (17), and self-esteem (18).

In a study of LeShan healing, independent judges are able to identify from
healees' subjective reports when a distant healing treatment has occurred (19).
Six healers trained by LeShan were used. A series of healings was scheduled for
each of the 12 subjects. The first and the fifth healing for each person were '
'present' (healer and healee in the same room) and the remaining eight were
distant (healer and healee separated by unspecified distances, all presumably in
their own homes). A few healings were conducted over greater distances.
Healers and healees were told that healings would be done at specific times of
day scheduled by Goodrich. Unknown to them, half of the distant healings for
each healee were scheduled at least an hour after the participants expected
them (nonsynchronously). Healees reported such sensations as relaxation,
drowsiness, heaviness, decreased anxiety, increased energy, and peacefulness.
Sensations reported by healers included a more intense awareness of self and feelings of peacefulness.

Three judges who were blindly given healers' and healees' self-rating forms on
their subjective experiences successfully identified whether the healings were
synchronous or nonsynchronous (modest significance: p < .005). Goodrich,
disclaiming recall for coding of data, also rated the forms and achieved significant results.

Beginning students of healing and healees both often question whether they are
feeling something related to healing if they sense heat between the hands of a
healer and the body of the healee, or whether they merely feel the natural heat of
a warm hand. This doubting of one's own experience is even more marked with
absent healings. It is most helpful to have the confirmation of Goodrich's thesis
that such sensations are frequent enough and distinct enough to be reliably
identified by healees and by independent judges who reviewed reports of the
healees' perceptions.

No effects of distant healing were demonstrated in studies of asthma (20),
hypertension (21), leukemia (design of study seriously flawed) (22), anxiety (23),
depression (24, 25), self-esteem (26), in inadequately defined chronic problems
(27), or in people who did not need healing (28). Though a study of distant
healing in alcoholism showed no effects on drinking, there was a significantly
lower dropout rate from treatment in the healing group (29).

Distant healing effects on physiological measurements
William Braud and colleagues showed that a healer could utilize feedback from
measurements of healees' electrodermal responses to raise and lower skin
resistance. Repeated experiments showed very high levels of significance (30,
31, 32, 33, 34, 35, 36).

Negative effects were found when a Reiki healer was asked to send distant
healing for 30-second intervals (37). I believe this was too short an interval for a
healing effect to be demonstrated.
Janine Rebman and colleagues demonstrated that healers could produce significant effects on electrodermal responses, finger blood volume, and heart rate (38). These studies confirm that measurable, highly significant distant healing effects can be produced repeatedly. They also suggest that healers' claims to produce relaxation are probably accurate, as electrodermal responses reflect relaxation.

**Distant healing effects on animals**
The best series of animal studies in the healing literature is on the waking of mice from anesthesia (39, 40, 41, 42, 43). Healers sent distant healing from across a room, sometimes from behind a one-way mirror, to one of a pair of mice that were littermates who had been matched for gender and weight, and anesthetized in the same anesthetizing box. They were able to selectively waken the designated mice significantly more quickly than the control mice (p < 0.02-.00003).

An interesting sidenote came from one of these studies. The researchers asked the healers to randomly alternate waking mice on either side of the table. The healers said they could only do this if there was at least a twenty-minute interval between wakings of successive mice. Otherwise, they warned, some of the distant healing effects from the previous waking would linger on that side of the table. If the next mouse was a control mouse, and if it were placed on the side where a mouse had been sent healing within less than a twenty-minute interval, a residual of the healing effect could influence that control mouse to waken more quickly.

The researchers were reluctant to spend so much time waiting between trials, so they kept one side of the table for healing for half of each series of mice, waited an appropriate interval, and then reversed the side for healing. In one series, they deliberately studied this alleged "linger" effect. Without allowing an interval between sending healing to one side of the table and placing control mice on that side of the table, they found that indeed the mice placed on that side of the table woke more quickly--even though healing was not being sent at that time to that side of the table.

Distant healing also ameliorated the development of amyloidosis (a collagen disease) experimentally induced in hamsters (44), slowed the growth of experimentally induced tumors in mice (45), and protected mice from effects of radiation (46).

One of the most intriguing studies of mice, indeed, the study with some of the most far-reaching implications in the healing literature, is that of Jerry Solfvin on malarial mice (47). Solfvin gave his laboratory workers two vials, one labeled "babesia" (babesia rhodanii are malarial organisms) and the other "non-babesia," for injecting two groups of mice. Each mouse was given a code number and
injected with malaria from one of the vials. A slip of paper, on which the code number and "babesia" or "non-babesia" were recorded, was sealed in an opaque envelope, with only the designation of "babesia" or "non-babesia" written on the envelope. These were handed to another experimenter, who sealed them in yet another envelope, again recording "high" or "low" on the second envelope.

Solfvin divided the "high" and "low" groups of envelopes into two piles, one designated to receive distant healing and the other as a control group. Thus, Solfvin had no way to know which mice were in which malarial group, and the laboratory workers had no way to know which mice were to receive distant healing.

In reality, the vials given to the handlers contained identical doses of malarial organisms, and Solfvin never contacted a healer to send distant healing to the mice so designated. The study was actually one of illness and healing expectancy effects.

In Experiment 1 there were three animal handlers. Two were "sheep" (believers in psychic phenomena and healing) and one was a "goat" (disbeliever). The mice handled by the sheep demonstrated random results. Those handled by the goat showed significant effects (p < 0.021) for illness and a trend towards significance (p < 0.09) for distant healing effect. Both of these effects were significantly in the opposite direction to that predicted in the study, but consistent with the expectations of the goat.

In Experiment 2 there were five animal handlers and the malaria was designated as either "high" or "low" babesia. There were significant healing expectancy effects in the direction of positive expectation (p < 0.05) in all groups and a marginal trend in the illness expectancy (p < 0.05-.10).

Solfvin notes:
This healing expectancy effect is definitely a parapsychological one in the sense that it cannot be entirely explained in terms of known sensory processes, since the target animals were not known by anyone until the end of the study. We have therefore produced a paranormal healing effect, or something that resembles a healing effect, in a well controlled laboratory study which cannot be attributed to a specific psychic healer or healing treatment. It must therefore be attributable to something else and that something else may be operating in other psychic healing situations as well.

In experimental studies of psychic healing treatments the experimenters may have reason to expect positive results. The healer may have performed well in pilot or screening trials, may have brought an impressive anecdotal case
history of successful healings, or may make a strong personal impression on one of the experimental staff members. The results of the current study, modeled after this situation, suggest that the expectation structure may be an important contributor to the results, regardless of what the healer does.

Without anyone having full information about which mice were designated for distant healing, a healing effect was evident. Non-local consciousness, as "Super-ESP," is suggested by this study. More on this in the discussion, below. If this study can be replicated with significant results, it will put in question every double-blind study ever done—as a possible effect of Super-ESP, or non-local experimenter effect.

Healers have reported that the apparent limits of time may be transcended in healing. Frans Snel and P. C. van der Sijde (48) set up an experiment to study this possibility. They ran a controlled study of distant healing for malaria in rats, where the healing was only sent at the end of the study. Modestly significant findings supported the possibility of backwards-in-time healing (p < 0.02).

Distant healing effects on plants
Plants make good experimental subjects. They are inexpensive, low maintenance, and require no elaborate permission forms (as human studies do). You could easily test your own healing abilities with plants. Take three pots of the same size, filled with soil from the same source. Take three batches of seeds from the same packet. Large ones, such as corn seeds, are handy, as you can plant them with their pointy ends down, each to the same, measured depth. Place the pots where they will each get the same intensity and duration of light, and water them with measured, equal amounts of water. Send positive thoughts or prayers to the first, leave the middle one alone, and send negative thoughts to the third. After two weeks you may see easily-visible differences in the growth rates in each pot.

Formal studies have shown significant effects of distant healing with plants (49, 50, 51, 52, 53, 54). Other studies showed no effects of distant healing on plants (55, 56). Each of these studies had problems in their designs that might explain the failures to demonstrate healing effects.

Distant healing effects on bacteria and yeasts
Distant healing produced significant effects on enhancing and retarding growth of bacteria (57, 58, 59) and yeasts (60, 61). These studies suggest that healers may be able to slow or halt the progress of an infection by retarding the growth of infecting organisms.

Carroll Nash (62) explored effects of distant healing on bacteria that mutate between two forms, "lac negative" and "lac positive," showing that healing could
selectively increase either form. If this is an effect on mutation, it provides encouragement to believe that healing might influence mutating cells, such as cancers, in the body. However, as Nash notes, an alternative hypothesis is that the distant healing selectively influenced the growth of one or the other form rather than influencing mutation rates. The implications of this study are discussed below.

**Distant healing effects on single-celled organisms**
C. M. Pleass and Dean Dey (63) explored effects of mental intent on the motility of algae. In their first experiment they found highly significant effects (p < 0.000000005). In their second experiment, replicating the first, they found no significant effects. It is not unusual in parapsychology to find this sort of difficulty in replications, and several other replications of (touch or near-the-body) healing studies have shown no effects.

**Distant healing effects on cells in the laboratory (in vitro)**
William Braud and colleagues showed that healers could slow the rate of hemolysis - the bursting of red blood cells placed in dilute saline (64, 65). The most likely mechanism for this effect is a strengthening of the cell wall of the red blood cells. If this is the case, it might explain some of the mechanisms for many healing effects. The cell wall is a very active transport system for moving fluid, chemicals, and molecules into and out of the cell. If healing can alter these gateways, it may enhance cellular functions and increase protection of the cell from negative influences.

Another possibility is that the cell wall may act as an antenna for receiving healing "messages."

Franz Snel also showed that distant healing could slow the rate of growth of cancer cells cultured in the laboratory (66).

**Distant healing effects of DNA**
Glen Rein and Rollin McCraty, at the HeartMath Institute, showed that distant healing could alter the rate of winding and unwinding of strands of DNA (67, 68). The implications of these studies are far-reaching, indeed. First, this could be a mechanism for the action of healing within the body, since DNA controls many of the functions of cells in the body. Second, if healing intent can influence these complex molecules that control genetics, it is possible that intent could influence heredity and evolution (69). This may be a mechanism for the effects in Nash's study of bacterial mutation.

**Discussion**
While distant healing appears to contradict our ordinary sense of reality and the
laws defined by conventional science, there are theoretical paradigms that appear to offer explanations for healing.

These studies of absent healing introduce Newtonian medicine to the action of mind from a distance, 'nonlocal consciousness' as Larry Dossey terms it (70). This is consonant with the theories of modern physics, that postulate interactions between certain particles from any distance. These hypotheses have been supported by research (71, 72, 73, 74). This is also supported by a wealth of research in parapsychology, demonstrating that minds can interact through telepathy, that a person can obtain information about physical objects from a distance through clairsentient perception, and that direct mental influence over physical objects is possible (75-77).

Distant healing and other non-local effects of energy medicine are acknowledged by several of the complementary therapies (78). One would hope that the benefits of such an inexpensive intervention would appeal to those who are concerned over the high costs of medical care. Distant healing research confirms the effects of prayer on health. This does not prove, however, that prayers within any particular religious framework are more effective than any other, or than secular distant healing. Subjective experiences of healers and healees involved in distant healing further support reports of experiences with prayer in religious settings. Those involved with healing may have a personal sense of heightened spiritual awareness (79).

The issues raised by distant healing research are extremely complex. ISSSEEM is truly at the frontiers of science in exploring these borderlands between Newtonian and quantum worlds, between the realms of matter and of spirit, through the study of subtle energies and energy medicine (80).

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8. Category C-3, including CD4+ cell counts of less than 200 cells, a history of at least one AIDS-defining disease, and taking prophylactic treatment against Pneumococcus carinii.
9. 'Triple drug therapy' (a protease inhibitor and two or more antiretroviral drugs) which has proven to decrease mortality from AIDS significantly.
10. In personal communication, Elisabeth Targ reports that a multi-center replication is planned that will include controls for any differences between treatments at the various centers.
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therapeutic touch on germinating corn seed, Psychological Reports, 70 (1992), pp. 891-896.
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78. Benor, D. J. Healing Research, Volume II: Consciousness, Bioenergy and Healing, Southfield, MI: Vision Publications, in press
80. For further explorations of these and many related issues, see Benor, D. J. Healing Research, Volume IV - A Synthesis of Recent Research, Southfield, MI: Vision Publications, in press.


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