The ethics of the placebo in clinical practice
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While discussions of the ethics of the placebo have usually dealt with their use in a research context, the authors address here the question of the placebo in clinical practice. It is argued, firstly, that the placebo can be an effective treatment. Secondly, it is demonstrated that its use does not always entail deception. Finally guidelines are presented according to which the placebo may be used for clinical purposes. It is suggested that in select cases, use of the placebo may even be morally imperative. The argument is illustrated by three case vignettes.

Physicians and others who have tended the human soma and psyche have always believed in their potions and nostrums; they have also occasionally resorted, in time of need, to knowingly ineffective remedies, or what we now term the placebo, in order to assuage the patient’s discomfort. Discussions of the ethics of prescribing a placebo have mostly focused upon its use as a research tool (for a balanced approach recently formulated, see Emanuel EJ). The ethics of the placebo in clinical use have received less attention. The two situations do, however, differ. In clinical practice, the physician prescribes a placebo in the hope that it will produce a therapeutic effect. In research, on the other hand, the physician prescribes a placebo in the hope that it will produce no therapeutic effect. The ethical implications for these two scenarios are different and need to be considered separately.

We will focus on the less commonly examined area of the use of the placebo in daily practice.

WHAT IS THE PLACEBO?
The placebo is not easily defined. Indeed, some have despaired of ever finding an adequate definition for the term. Many current definitions invoke the non-specific nature of the treatment effect as the leading feature of the placebo. Some specify further that we are talking of “non-specific, psychological, or psychophysiological” factors.

A side effect of stressing the non-specificity of the placebo has been to enlarge the scope of the placebo effect to include various common non-pharmacological and non-surgical elements of care, such as bed rest, exercise, routine nursing care, and the doctor/patient relationship, and so on. Some might add psychotherapy to the list. All these interventions would need to be considered placebo, not derogatorily, but rather in estimation of placebo’s wide ranging effects. These diverse features of medical and paramedical care can certainly be usefully studied in their own right, but to subsume them under an all encompassing placebo rubric would be conceptually sloppy and heuristically befuddling.

A more fundamental difficulty with a definition referring to non-specific effects is that behind it lurks a faulty dualistic conception of body and mind, as if to say that while “real medicine” works by some defined, or at least in theory definable, physiological mechanism, the placebo has a psychological, that is to say non-specific, effect. Exposing the fallacy of this approach does not entail an intricate philosophical discussion; the results of recent research into the placebo effect will suffice. Amanzio and Benedetti have convincingly demonstrated, in rigorously controlled studies, that alternate methods—all of them “psychological”—of activating the placebo effect will influence different pathways. If induced by expectation, placebo analgesia will be mediated by endorphins; if influenced by non-opioid based conditioning, endorphins will not be involved. The mind, in brief, may have a quite specific effect on the body.

For purposes of our discussion we will bypass theoretical considerations and address the ethics of the placebo operationally by asking when it is ethical, in clinical practice, to offer a pill or perform a procedure as an alternative to, or in the absence of, a standard, proven therapy when the effect, if any, of that pill or procedure is expected to be mediated by psychophysiological mechanisms, such as expectation, relaxation, or conditioned response, or what has elsewhere been termed a “meaning response”. The pill or procedure would then be considered the placebo; the effect it produces would be the placebo effect. This definition has the merit of avoiding the trap of a specificity/non-specificity dichotomy. Moreover, this formulation does not posit a mind/body duality; rather, in accordance with Engel’s biopsychosocial model, it accepts that intervention at one level of the mind/body continuum exerts an effect at another level. In the case of the placebo, this effect transpires in a top down direction, from a level of greater to lesser complexity, from the level of the person to that of the organ system, organ or cell. In contrast, a medical treatment works in a bottom up direction, from lesser to greater complexity—for example, when the manipulation of a neurotransmitter system affects cognitive function or the person’s wellbeing.

A further advantage of this definition is the implication that psychotherapy, bed rest, the doctor/patient relationship, and other such interventions should not be considered placebo, since they are not being offered as an alternative to an effective therapeutic intervention.

IS THE PLACEBO EFFECTIVE?
Physicians will not uncommonly offer a placebo to a patient. The effectiveness of the placebo has been claimed for many fields in medicine, such as surgery, cardiology, psychiatry, primary care, and elsewhere. In double blind, randomised controlled trials, placebo treated groups routinely show regression to the mean or the natural progression of illness. This scepticism about the very existence of a placebo effect gained ground following a recent meta-analysis of studies comparing a placebo control group with a no treatment group. This study found little evidence that placebo in general has significant therapeutic value, excluding studies with continuous subjective outcomes such as the treatment...
of pain. These findings have already led some to dismiss the placebo effect as a myth.14

Yet the proclamations of the placebo’s demise have been greatly exaggerated. The meta-analytic methods employed by Hrobjartsson and Gotzsche,13 in particular the inclusion of different types of studies of diverse disorders in a single analysis, may be questioned.15 Beyond methodological considerations, however, too many bits of evidence, not limited to randomised controlled studies, attest to the placebo’s power. The work of Benedetti and colleagues, already referred to, delineates a placebo effect, beyond a no treatment effect, not only for analgesia,4 which Hrobjartsson and Gotzsche13 acknowledge, but also for the production of respiratory responses as confirmed by objective measures.46 Using positron emission tomography scans, other researchers have demonstrated the ability of a placebo to promote a substantial release of dopamine from the striatum of Parkinson’s disease patients.37 Additional characteristics of the placebo response, such as a differential effect depending on the colour of the pill,6 contribute to the conclusion that the phenomenon is real.

ETHICAL CONSIDERATIONS
First we will provide two clinical vignettes derived from actual practice, which will serve as a basis for our further discussion.

Case 1
A 45 year old man suffering for many years from diabetes and hypertension underwent a second leg amputation. Severe pain following the surgery was treated with injections of intramuscular pethidine, an opioid analgesic. His pain virtually unabated, the patient demanded additional therapy. The staff decided to administer, in addition to pethidine, intramuscular saline. They explained to the patient that injectable saline had been used as an effective painkiller, and that they anticipated that it would help his pain as well. The treatment produced an impressive analgesic effect, to everyone’s satisfaction.

Case 2
During a house call many years ago, one of us (PL) easily diagnosed a 40 year old male complaining of diarrhoea and abdominal cramps for several hours as suffering from gastroenteritis. After the physician explained the nature of the disturbance and offered reassurance that the malady would quickly pass, the man’s wife, apparently the dominant force in the house, who had been nodding in seeming assuage the pain; we indeed believed that it would (and, perhaps less relevant to the issues at hand, it did). There was no misgiving than an outmoded Cartesian prejudice that bodily illness cannot be tended to by emotional means.

Significantly, disclosing to a patient that he is receiving a placebo will not necessarily diminish its effectiveness.6 20 Presumably, this phenomenon reflects the lingering effect of conditioning: the act of taking a pill, or being tended to by physician, will promote improvement. Sustained disclosure, however, might lead to extinction of this conditioned behaviour, and with it the extinction of the placebo effect.

The way that the physician reports the nature of the placebo she is offering is important here, as she tries to maximise the therapeutic effect without being dishonest with the patient. A possible statement might take the form of: “I would like to offer you a pill which I believe can help lessen your suffering. I do not know exactly how it works. I have other pills to offer whose mechanism is clearer, but I am not sure that they will work better for you, and they may also entail more serious side effects.” In this manner, the physician is being open and honest with the patient.

In case 1 which we presented above, to claim that we deceived the patient would be a narrow perspective indeed of the situation. We told the patient that the injection would assuage the pain; we indeed believed that it would (and, perhaps less relevant to the issues at hand, it did). There was nothing dishonest in the communication between doctor and patient.

Some might argue that we are nevertheless involved in deception, because the placebo itself is inert:

The one thing of which we can be absolutely certain is that placebos do not cause placebo effects. Placebos are inert and don’t cause anything” (Moerman DE,7 p 471: italics in the original).

This is a winsome rhetorical flourish, and it is wrong. It is akin to claiming that sound waves “don’t cause anything”. If, however, the sound waves are interpreted as words, or the placebo as a therapeutic agent, then they may lay equal claim to be included in the causal chain culminating in a beneficial psychophysiological effect.

Sometimes a patient will demand to know the name of the pill. In that case he should be told. He may ask how it works. He should be told that as well. He may refuse the pill. He is within his rights.

We do not know if this sort of full disclosure about the placebo might diminish its effect. Empirical studies could provide an answer. We suspect that ultimately the effect of the placebo, offered in the circumstances we described, would depend on the physician: if she understands and feels comfortable with the course of treatment she is suggesting, the placebo effect would remain unimpaired.
The ethics of the placebo

The second vignette we presented reflects a different situation. The patient, and his wife, in effect demanded a placebo. The doctor had no justification for providing it. Had he said: “Look, I told you the injection is pointless, but you’re the customer and I’ll provide the service,” he would not have been guilty of deception, but he would have risked harming the patient, causing discomfort, exposing the patient to possible local infection, and promoting antibiotic resistance. Had the family continued to demand treatment beyond reassurance, the doctor might have considered giving saline, admitting it was saline, and assuring the patient that he would rapidly recover.

CAN A PLACEBO BE THE PREFERRED FORM OF TREATMENT?

Until now we have considered the circumstances in which placebo treatment could be a legitimate therapeutic option. Could a situation arise wherein the placebo is the required form of treatment?

Case 3

A 32 year old mother of three is being treated for an agitated depression by means of hypnotherapy. In the course of one of the hypnosis sessions, the client envisions a bloody scene whose meaning is uncertain but which alarms her terribly. Refusing to continue with the therapy, she demands medication. The treating psychiatrist, seeing no alternative, prescribes imipramine at a starting dose of 25 mg, explaining to the patient that effectiveness generally requires two to four weeks at a dose of 200–300 mg. The day after taking her first 25 mg dose, she reports that a remarkable improvement has taken place and virtually all symptoms have subsided. She continues, diffidently, her psychotherapy. Attempts to discontinue the medication meet with immediate failure. Explanations by the suspicious psychiatrist that the medication requires higher dosage and longer duration are shrugged off by the client.

This vignette demonstrates several features of interest to our discussion. First of all, though imipramine, a tricyclic antidepressant, is a medication with established efficacy, it was used here as a placebo. Certainly, it was not the established noradrenergic action of the medication which, after one day and at a minuscule dose, brought about the clinical improvement. To quote our earlier discussion of the placebo, this treatment was being offered “as an alternative to ... a standard, proven therapy [that is, a full therapeutic intervention not consistent with a narrow biomedical model of therapeutics. Offering a placebo treatment requires that the physician accept that within the therapeutic situation he himself is an integral part of the cure. This is a misconception that scientific rigour precludes any therapeutic intervention not consistent with a narrow biomedical model of therapeutics. Offering a placebo treatment requires that the physician accept that within the therapeutic situation he himself is an integral part of the cure. This is not always something which is easily accepted by the physician.”

When asked about the nature and anticipated effects of the placebo treatment he is offering.

If the patient is helped by the placebo, discontinuing the placebo, in absence of a more effective treatment, would be unethical.

CONCLUSION

The placebo can be of service to physicians in many clinical situations. Therefore, it should not be denied its rightful place in medical treatment. Efforts to do so presumably stem from a misconception that scientific rigour precludes any therapeutic intervention not consistent with a narrow biomedical model of therapeutics. Offering a placebo treatment requires that the physician accept that within the therapeutic situation he himself is an integral part of the cure. This is not always something which is easily accepted by the physician.

Approached with due consideration for the issues involved, and in accordance with the guidelines we have set forth, we believe the placebo can be restored to its proper and legitimate place in medicine.

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Accepted for publication 2 June 2003

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*J Med Ethics* 2004 30: 551-554
doi: 10.1136/jme.2002.002832

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