The Ethics of Medical Practices During Protracted Dying: A Natural Science Perspective

Lawrence E. Fraley
West Virginia University


Abstract: Philosophy, insofar as it consists of the assumptions by which evidence is interpreted, substantially informs one’s interpretations of practical matters and thus determines the pattern of one’s reactions to them. This is especially evident in how medical personnel and others cope with death and dying. The philosophy of the natural sciences and the traditional mystical philosophy underlying most of religion and much of psychology are comparatively reviewed, especially their respective implications for medical practices to treat the dying. Differing philosophical foundations lead to differing values and ethics, and on the basis of various examples, it is argued that the culture would be better served with respect to thanatological matters if the philosophy of the natural sciences prevailed as the philosophical foundation for the medical establishment.

Unlike natural scientists of behavior, the practitioners of traditional social and behavior sciences have explained observed operant behavioral events as the manifest will of a mystical construct presumed to dwell within the body. Traditional social scientists have tended to avoid the precise technical term operant, referring instead to voluntary or willful behavior that a self-agent within the individual putatively has chosen to exhibit and for which that individual is subsequently to be held responsible. In the context of such assertions, the term individual alludes to that internal behavior-determining and directing self-agent. The familiar causal traits (e.g., generosity, empathy, greed, etc.) to which patterns of behavior are often attributed are implicitly the predilections of the behavior-controlling self-agent.

Within the traditional social science community, that ethereal behavior-producing engine is said to possess whatever powers would be necessary to generate the observed behavior. Science has then been brought to bear only on the problems of how that internal body-driving agent may operate. Within those traditional behavior-related fields, the science has been invoked in pursuit of the implications of that fundamental mystical assumption but has not been allowed to challenge it. That mystical inner agent has been identified by various names: In the religious community it is known as the soul; among the traditional behavior sciences it is the autonomous self (which in some versions operates from a somewhat mystical realm called the mind or in other versions simply is the mind); in the civic arena people often refer to it as the human spirit or simply a person’s character; occult versions include ghost and demon; the muse is a special-purpose version popular in literary circles. Grammatically, that spirit attains a conceptual embodiment upon its reference via proper names and personal pronouns (e.g., George, he, him; Laura, she, her; I, me).

The Natural Science of Behavior and its Philosophy

In contrast, the prevailing philosophy in any of the natural sciences excludes explanatory reliance on such mystical constructs. For example, in physics, chemistry, biology, and behaviorology, observed events are assumed to be defined only by measurable variables such as distance, mass, and time. All detected events, including behavioral events, are assumed to have a natural history consisting of a chain of prior natural events that are functionally linked. In any natural science, whatever occurs is explained by discovering and describing the functional relations that link that event to its functional antecedents. Until those functional relations can be found, natu-

1 For a somewhat extensive list of topics that are typically covered in the subject matter of behaviorology, see the list of the 30 chapter titles in General Behaviorology: The Natural Science of Human Behavior. Those titles can be viewed by visiting www.behaviorology.org. At that site, click in succession on Complete Behaviorology Resources, General Behaviorology page, and Information/Contents: General Behaviorology. See also Ledoux, S.F. (2002). Origins and components of behaviorology—Second Edition. Canton, NY: ABCs.
ral scientists must settle for ignorance, uncomfortable though that may be. Within the natural science community, the substitution of an imaginary mystical force to complete an account is regarded as intellectually immature, unsophisticated, and foolish.

Spontaneity is a fallacy insofar as it precludes or denies the functional antecedents of an event. Thus, we do not explain an observed behavior (verbal, motor, or emotional) by inventing a mystical, internal, and autonomous self possessed of whatever mystical capability would be required to initiate that behavior as if from nothing. In a natural science of behavior, I cannot explain my utterance of a phrase by saying that “I” (the mystical agent within me) decided or chose to say it and then issued the necessary performance instructions to my vocal apparatus. To rely on such an expedient device is a philosophically unacceptable intellectual shortcut, and spending the remainder of one’s life being progressively more profound about one’s doing so cannot restore validity to that fundamental mistake.

**The Natural Science Perspective on Values, Rights, and Ethics**

Except for primary reinforcers (food, water, sexual contact, etc.) the things that we value did not have pre-existing status as values that needed only to be recognized as such. Instead, each of them acquired status as a reinforcer through the behavioral process called operant conditioning, which occurs during the lifetime of the individual. One is said “to value” any stimulus either that comes to function or innately functions in that reinforcing way. A conditioned reinforcer may come to be such either via naturally occurring contingencies or via socially arranged operant processes. Cultural values related to death and dying, like other kinds of values, are reinforcers, and an individual will behave in ways that are consequeated by contacts with those reinforcers. That is, cultural values pertain to socially conditioned reinforcers and consist of whatever the group at large has conditioned its members to cherish (behave so as to contact).

A right is defined as unhindered access to a reinforcer (i.e., to a value). When that access is threatened, the affected person tends to claim rights with respect to the obstructed reinforcer (see Vargas, 1975/1977). Ethical behavior is then defined as behavior that respects those claims to uninhibited access. Obviously, this view is antithetical to the notion that values, and the ethics prescribed with respect to them, are handed down from some mystical absolute arbiter of what is good and right.

One’s acquired values, and the related ethical practices, are all arbitrary, and all subject to change in the sense that conditioning can be reversed via counterconditioning. There is nothing absolute or immutable about any acquired value. Its endurance is proportional to the duration of the contingencies that maintain it. Thus, because current functionally reinforcing stimuli (values) remain subject to change through various behavior change procedures, anyone can be conditioned or reconditioned to value anything. If access to it is then threatened, that person will claim the right of access to it and will regard as ethical any behavior by others that respects that claim. Thus, nothing absolute or fixed stands in the way either of entirely new personal or cultural values with respect to death and dying or of whatever new cultural practices would follow from those new values.

One important implication of the fact that values are not endowed with some immutable intrinsic merit is that the defense of conditioned values cannot logically be based on their mere existence. Prevailing cultural values do not have to be accepted passively. A culture is subject to behaviorological engineering. Arguably, the defense of values is best based on their practical implications. Values pertinent to death and dying have implications for the quality of life of individuals, of groups, and of cultures, and it is among those qualitative implications that criteria inhere by which to evaluate for potential change any prevailing death-related cultural value and its associated ethics.

**Ethicists and Advocates of Ethical Agendas**

According to the previous definition, the term ethic pertains to a class of verbal behavior defined by its relation to reinforcers and by the kind of contingencies under which that verbal behavior occurs. To be an ethicist, one must be able to define and describe both ethics and ethical behavior in terms of their class, constituent variables, and behavior-affecting properties. One must be capable of prescribing ethical behavior and of setting forth programs of conditioning that would prepare people to exhibit it to prespecification. Thus, an ethicist is skilled in the natural science of behavior, especially verbal behavior, and particularly in the special domain of that science that is relevant to ethics. An ethicist knows enough about the nature of ethics to predict ethical behavior and to produce it to specification in the behavior engineering sense of produce.

A person who merely has a preconceived agenda featuring a prescription by which others are to behave is not necessarily thereby an ethicist. That person is merely an advocate for a particular ethical agenda. An ethicist explains ethical behavior, and if that individual is the competent scientist and behavior engineer that is implicit in the term ethicist, the person can also produce ethical behavior according to prescription. Merely specifying the thematic content of such a prescription is to practice only advocacy, and one is not thereby qualified as an ethicist in the scientific and engineering sense.

Arguments about what behaviors ought to occur are not resolved in the scientific field of ethics, which per-
tains to making them happen, but rather are to be resolved in light of their respective implications for the well being of individuals, groups, and cultures. However, if one mistakenly assumes that ethics cannot be understood scientifically, it is easy to suppose that self-promotion as an ethicist requires only that one have strongly conditioned values that one then touts to others.

For example, the issues pertaining to whether, and on whom, to drop the first nuclear weapon were not resolvable within the analytical framework of the field of physics in which that weapon had been produced. In the same sense, ethics is a value-free scientific field that deals with the nature of ethical behavior, the circumstances under which such behavior appears, and how, exactly, it is produced. Ethics, as a scientific field, is a constituent field within the general behaviorological sphere of scientific activity. Just as the former weapon inventor who would persuade us to drop nuclear bombs on a particular foreign nation is not thereby practicing as a physicist, the person who would insist that we all behave ethically by participating in a particular boycott is not thereby practicing as an ethicist merely because of that advocacy.

We are all advocates of sorts, including those of us who happen to be ethicists, but the ethical prescriptions that are advocated by members of our culture at large differ greatly in their implications and hence in their quality. The values to which we are respectively conditioned throughout our lifetimes, and which give rise to our respective ethical perspectives, have arisen from the teachings of our diverse communities. As a scholar of the natural science of behavior, and a former university professor of that discipline, some of my teaching was focused on the behavioral science and technology of ethics. But, as is true of everyone else, when I transition from what is to what ought to be—that is, when I move from (a) the demonstrably real relations of the functional relations with which I operate as a scientist and behavior engineer to (b) the ethical itinerary that I argue should be pursued by others—I leap across a long recognized discontinuity. What I say that doctors should do in cases of death and dying has not been established under the same set of contingencies as were the principles of the science and technology of behavior that I have practiced and taught.

Nevertheless, my scientific concepts of the nature of ethics per se seem to afford me some advantage with my constructs of what ought to be. That advantage accrues when I respect the rule that my ethical agenda comport with the reality defined by the relations that comprise my science. In general, those whose ethical prescriptions disrespect the demonstrably real relations that define their topics have seldom prevailed in the long run, because, when people have continued to behave in ways that do not comport to an objectively established reality, their activities have become increasingly susceptible to the often severe corrections that nature ultimately tends to impose on such deviations.

For instance, consider a person who superstitiously assumes that a fetus has been infused with a sacrosanct spiritual soul that would suffer some kind of grievous insult if biological death followed from certain kinds of events rather than from others. That person may insist on the birth and subsequent care of a fetus that is known in advance of its birth to be afflicted with uncorrectable defects that among other problems will leave the resulting infant without the capacity for the kind of behavioral conditioning that is known as intellectual development. After its birth the infant enjoys the legal rights of a citizen while imposing great personal, social, and monetary costs on those who are charged with its maintenance. Such an ethically controlled deviation from reality, if the deviator is the infant’s caregiver, can soon bring to bear on the deviator a wide variety of aversive natural contingencies of the kinds that are commonly said to “ruin lives.” And when, via the social agencies of government and law, such people impose their own superstitiously derived ethical agenda on all others, the peril of such ruination is extended from the superstitious subset to the whole.

Contemporary Ethical Practices to Cope with Death and Dying

The media. Contemporary entertainment media continue to address the ethics of death and dying, a long prevailing theme, with familiar emotion and drama that usually pertains to conflicting ethics. When I first began to direct serious attention to this topic back in 1988, I took notes on its treatment in the popular media across a single week. The next several paragraphs provide typical examples extracted from those notes.

A medical intern reportedly acceded to the request of a dying cancer patient and administered a lethal dose of a depressant drug, then anonymously reported doing so in the Journal of the American Medical Association (“It’s Over, Debbie,” 1988). A wave of pro and con reactions were precipitated, including attacks on the staff of the journal for allowing the issue to surface (Grady, 1988).

The Wall Street Journal published a review of medical ethicist Daniel Callahan’s arguments to limit health care for the aged, especially for patients whose deteriorated quality of life could not be restored by available treatment (Otten, 1988). The article included a variety of diverse reactions to Callahan’s views.

The weekly episode of a popular television dramatic series featured a sub-plot in which an attorney asked a judge to order the Cesarean extraction of a viable fetus from a pregnant but dying leukemia patient (L.A. Law, 1988). The patient opposed that action because she wanted to try to stay alive long enough to give birth vaginally, although her doctors expected her to die prior to doing so, which would probably result in the death of the fetus as well. The dramatic twist was that the patient, struggling to remain alive long enough to experience giving birth normally, would probably not survive a court ordered Cesarean operation to insure the life of the fetus and hence not only would miss giving birth naturally but, in dying during the Cesarean operation, would never even see her baby.

The local newspaper carried a wire service report of a Florida man who had been convicted of the mercy killing of his suffering wife, a victim of Alzheimer’s disease and osteoporosis (“Mercy Killer,” 1988). The man was asking for a new trial on the grounds that his lawyer had botched his defense because the lawyer had been preoccupied with conflicting concerns about enhancing the market value of both a book and movie rights based on the case.

And finally, a Paulist priest contributed a newspaper editorial in support of his contention that a Christian perspective allowed withholding care from certain kinds of dying patients. He focused on those whose bodies could be maintained “alive” but whose behavioral repertoire could not again be exhibited (Tavella, 1988)—although he did not say it in those terms.

All things considered, it was a typical media week for our contemporary culture. Although the monitored interval happened almost 20 years ago, absent the time-designations, these examples would not seem atypical of the media content during the current week.

**Medical versus ethical technologies.** The prime derivative of biological evolution, namely, the multifaceted capacity for survival, renders organisms resistant to dying, although that outcome is inevitable. Witnesses tend to find the loss of such a struggle to be depressing. The aversive contingencies on those whose work or condition keeps them in close proximity to the slow–death process are so strong that few of those who are forced to remain close to such dying will argue with conviction that dying, as it actually occurs to most people, is acceptable, appropriate, and to be enjoyed as just another interesting phase in one’s existence. Few people who are slowly dying experience a long, comfortable, and peaceful subsidence that they accept with equanimity. Such an interval is also typically characterized by an uncomfortable degradation of the body that in many cases can arouse aversive extremes. The slow dying that many people will experience is a horrible ordeal both for them and for close others, and those who spend time in close proximity to slowly dying people have usually come to understand that reality. Dying slowly, peacefully, and comfortably while remaining fully conscious of what is happening, perhaps over many months, is sufficiently rare that instances are deemed noteworthy.

Modern medical science has developed on the foundation of objective data derived from observational and experimental contact with patients. But medical personnel must turn to behavior science rather than medical science for their ethical practices, and behavior science has not kept pace. Unfortunately, too, much in the field of contemporary medical ethics has evolved out of theory-based traditions, some handed down from antiquity. Thus, many contemporary ethical prescriptions have developed apart from the realities of dying. Medical ethics are still heavily influenced by theological ideologies, and by fallacious intellectual tactics such as reification. The result is that contemporary medical personnel are trained in conflicting repertoires—on the one hand, modern scientific medical skills, both verbal and nonverbal, and on the other hand, a verbal repertoire of ethical strictures that often conflict with data-based realities to the extent that the practitioner’s effectiveness can be neutralized.3

Theoretically, to escape from their aversive dilemma, medical practitioners could study the science of ethics per se and, after gaining some facility with the production of ethics, work to produce some better ones that would be of more help in their practice. But the vast majority of current medical personnel is untrained in behaviorology, the natural science discipline upon which such verbal behavioral engineering is based.4 As a result, while medical people can get technical with respect to the physical, chemical, or biological aspects of medical issues, they cannot get equally technical about the related ethics.

**A miscarried ethic: maintain treatment.** One traditional medical ethic dictates that the patient, if still alive, must be treated, if merely with palliative care, and provided with nourishment. That course of action often affords a beneficial reduction of the ongoing pain. However, insofar as it keeps the person alive, if the patient is also still behaving consciously, it can prolong suffering of another kind by extending the capability of patients to appreciate and contemplate their hopeless plight. A patient, whose body is still functioning in a slowly degrading mode, will often have ceased exhibiting most of the behavior that defines the person and will never again do so regardless of medical attention. The patient, kept alive and conscious, can function as little more than a reluctant

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3 For another discussion of how reliance on irrelevantly based theory can produce ineffective practice, see Skinner, 1974, pp. ix–xiii.

4 For a comprehensive history of the late 20th Century emergence of behaviorology, see Ledoux, 2002.
witness to his or her own slow fading. In some cases, doctors terminate those aversive remnants of person–life by sedating the individual until the body is rendered incapable of mediating the behaviors of consciousness. In that way they “kill” what is left of the person while allowing the body to continue its slow organic degradation toward body–death.

Once the person–defining operant behavior has given way to unconsciousness, and is being kept that way to eliminate pain and suffering, the still–functioning body is then more subject to the dispositions reserved for live bodies that will not again mediate a person (e.g. organ harvesting). Such sequences, with final person–death preceding body–death are, to some degree, obviously physician–controlled.

The harvesting of viable organs from a person–dead but biologically alive body may require the circumvention of some prevailing ethics that are pertinent to the maintenance of life. That often seems to require an exercise in self–deception whereby the physician is able to construe certain prevailing ethics as irrelevant. The approach is to redefine death so that, although the traditional ethics remain in place, they no longer apply, because an individual per se is redefined in a way that allows death to be declared legally at an earlier point in the total dying process. This is accomplished by detaching the legal definition of death from the later body–death and attaching it to the earlier person–death. A typical approach involves setting forth precise biological definitions of death in relation to certain neural events. Abandoning older definitions pertaining to termination of respiration and circulation, modern physicians may say that death occurs precisely when certain other physiological events first exceed critical limits, for example, the onset of irreversible brain disorganization marked by the cessation of certain measurable brain activities that constitute or support consciousness.

The metacriterion for applying those newer criteria is always some imprecisely defined lower limits in the frequencies of the outwardly exhibited behaviors that define the person, but that relation may not even be mentioned, or if it is, treated only as a symptom of putatively more important internal biological events. A widely adopted definition of death that marks the onset of permanent unconsciousness as the “death” of a “person” was set forth by K.G. Gervais (1986, p. 191). While correlated closely with internal physiological events, her definition pertains directly to a class of behavior (although it is not clear from her book that Gervais knew that the consciousness essential to her definition is a kind of behavior per se). But both biological and behavioral definitions of death can be manipulated to allow the convenient circumvention of the ancient rule that the physician must treat the patient until the patient is “dead.” Interestingly, Gervais called her concept of death the “death of a person.” However, she did not pursue the implications of her position to deal with differential behavioral dying over the preceding interval during which the body is still capable of mediating more behavior than the increasingly irrelevant environment can evoke. For persons who know that they are facing death, the behavioral processes of person–death can get ahead of the physiological processes of body death. We say technically that this disparity results from a progressive reduction in the contingencies to behave. Thus, Gervais’s loss–of–consciousness criterion does not address that potentially long interval of slow person–dying and tends to apply only when specific physiological breakdowns within the body destroy its capacity to produce the behavior called consciousness. That is, Gervais’s redefinition pertains only to the biologically alive body after the behaviorally defined “person” has entirely ceased happening, and, importantly, only after all suffering of which the person had been capable has been fully experienced.

Another overextended ethic: preserve “life.” Another ancient ethical stricture requires members of the medical profession to prolong and maintain biological life in general, an ethic that, through various laws, is bolstered with supplementary protection by the state. Killing a patient as a prescribed medical practice is forbidden, but here again is an ethic has been carried forward from a time preceding (a) modern life support technologies, (b) the recently emergent distinction between a biologically alive body and a behaviorally defined person, and (c) the emergence of a pragmatic natural science of values and ethics.5

Doctors daily confront patients who will never again manifest the mostly operant behavioral repertoires that gave those patients identity as specific persons, …patients who will never again contribute through their own behavior to their own interests or to the interests of their communities or to their culture at large, and whose personless bodies, by their continued biological life, extract substantial costs of many kinds.

Doctors also confront other patients who, though terminally ill, are still able to respond behaviorally to their environments, but whose environments can provide only continuous exposure to aversive stimuli, with few if any significant interruptions. Those patients continue to appreciate both their physical pain and their anguish at loss of capacity to respond effectively under a wide variety of once strong contingencies that previously determined the persons that they were. One’s greatest personal investment is in the production, management, and re-

finement of the behavioral repertoires that define the various facets of one's character. To be compelled to wit-
ness, from the confines of a body that is losing its capa-
bility to mediate those person–defining behaviors, the permanent extinguishing of those mature products is to
face the ultimate in depressing and discouraging events.
(For development of the concept of a person as a set of
behavioral repertoires, see Skinner, 1953, Ch. 28.)

Not surprisingly, many people in that condition ra-
tionally engage in escape behaviors common among
which are (a) requests for strong sedatives that will render
them unconscious, (b) requests to be allowed to die from
lack of further medical care, (c) requests to be allowed to
die from lack of further nutrition and perhaps other rou-
tine necessities for body maintenance, (d) requests to be
killed painlessly but quickly (euthanasia), and (e) requests
for the right and the means to commit suicide. That
some people accept relief in the form of agonizingly slow
starvation suggests the degree of aversiveness from which
that starvation would afford a preferable escape.

Quality of life is a function of the frequency and va-
riety of positive reinforcement (Cautella, 1994). Strong
practical reasons exist for the option to terminate the bi-
ological life of personless bodies where quality of life can-
not even be an issue insofar as operant reinforcement is
no longer possible. And the argument can be extended to
cover still conscious individuals for whom arrangements
to contact significant positive reinforcers lie beyond the
capability of all parties. For example, while worthwhile
quality of life can be restored to some patients simply by
eliminating their pain, for many others, a worthwhile
quality of life is not restored simply by rendering them
pain free. That is because many diseases so ravage the
body that, pain free or not, it can no longer mediate the
behaviors that would yield contacts with the patient's
previously effective reinforcers. In such cases, euthanasia
and assisted suicide comport both to the principles of
economics and to humane principles about minimizing
suffering (of whatever kinds). Relative to practical crite-
ria, life is not always worth living, and physical pain is
not the only thing that can be wrong with it.

In addition to the aversive changes faced by the dying
person, those who surround the patient also have to deal
with changes of other kinds. The normal behavior of oth-
ers toward a person who is in those advanced stages of
dying is necessarily on an extinction schedule, because
the dying person—in many cases a lifelong source of
positive social reinforcement—becomes unable to pro-
vide those reinforcers. To maintain the previous level of
regard for the dying person, the socially close others must
rely on self–managing verbal supplements in increasing
frequencies, thus substantially altering the nature of the
controls on their own continuing behaviors of “appropri-
ate regard” for the fading person (or for the lingering
personless body, as the case may be).6

Close associates of the dying often do not understand
such transitions in the control of their own behavior,
sometimes experiencing dismay at their own loss of “feel-
ing” for the dying person. But behavior can only occur in
response to the available controls; there is no alternative
to that. A prolonged episode of slow dying is characterized
by a long slow reduction in the person–defining behaviors of
the dying person, and those declining behaviors are precisely
what have been controlling the social behaviors of
others toward that person. As the frequency of those nor-
mal evocatives progressively diminishes, the normal social
behavior of those who surround the dying person can be
maintained only under supplemental controls that those
people have been conditioned to exhibit on such occasions
in what are called exercises of self–management. The re-
sulting behavior can be recognized as pretense by those
players, who are then left to act out their parts in quiet
shame that they seldom understand. In many cases, their
behavior is also easily recognized as pretense by the dying
person. Not only may these events serve little useful pur-
pose, but the aversive respondents that they condition
later interfere with the kind of pleasant memories of the
terminated individual that survivors want and need.

Doctors are also affected by all of this. They not only
see it; they are parties to it. The rational action in many
cases would be to end the dying person's behavioral and
bodily life functions. Often, however, the patients them-
selves, as a matter of principle, have been strongly condi-
tioned to abhor deliberately arranged dying and have
been taught to believe that the endurance of prolonged
death agony is each person's moral obligation. The people
who have conditioned them throughout their life times
have thus prepared them to serve as willing participants
in their own prolonged episodes of culturally imposed
and enforced agony.

In most cases in which such a course has been made
to seem appropriate and acceptable, it has been asserted
by its conditioners to be part of a divine plan. People will

6 Technically, this represents a shift in the nature of the
controls on the social behavior of those who surround the
slowly dying patient. Verbal supplements to the antecedent
control increasingly compensate for the weakening post-
cedent control, which the dying person increasingly fails to
provide. That is, the social behavior that can no longer be
sustained by its former consequences is increasingly main-
tained by strengthening its antecedent evocatives through
an addition of verbal supplements. Such a change in con-
roll may maintain the ongoing pattern of social behavior,
but the associated emotional elicitation is often different—a difference that a person may describe can-
didly as the activity having changed from fun to work.
have been conditioned to regard the endurance of a prolonged death agony rather like a moral duty. And in many cases, the avoidance of an escape via an arranged quick death along with the full endurance of the agony of a slow one is construed as a kind of martyrdom, because it earns admiration—presumably from a posited deity and certainly from the community of similarly conditioned people who await their own inevitable turns to demonstrate the steadfastness of their respect for the prevailing ideology.

At the same time, strong legally bolstered ethics prevent participation in any activity by medical personnel or others that could be interpreted as direct euthanasia. Also, doctors are strongly conditioned to experience what was hoped by their trainers to be intolerable guilt, shame, or sin should they become aware of practices on their part that kill by prescription. However, because it is often so rational that they do it anyhow, and the contingencies to do it are so strong, doctors have arranged elaborate ways of euthanizing patients while hiding even from themselves the fact that they are doing so. While it can make a pathetic spectacle of doctors, such curious behavior lets doctors approximate (often poorly) some sensible actions while avoiding legal obstacles and while escaping or avoiding otherwise associated emotional aversers originally potentiated by their trainers to be intolerable. How doctors manage to do that will be discussed in detail.

Since “life,” in the biological sense, refers to physiological processes exhibiting a dynamic equilibrium in relation to the environment, two classes of interventions are available to end the life of an individual. One involves direct changes to bodily structure, anyplace along the macro–to–micro scale, so that the body can no longer mediate its interactive “life” functions with its environment. This trauma category includes any severance of, removal of, or irrecoverable damage to life–sustaining body parts. The trauma can be represented by something as gross as the result of a body impacting the ground after a long plunge or as quiet and unspectacular as the severing of an essential nerve or vessel.

The other domain of interventions involves interrupting the normal input and output operations by which the body maintains equilibrium relative to the environment. One does not, in that case, intervene physically or chemically with a direct destruction of the body or its critical parts, though similar destruction is what ultimately happens. One merely interrupts the body’s sustaining relations with its environment, a somewhat less direct intervention. Such actions set in motion a series of naturally occurring events that ultimately prevent or preclude the internal life–defining operations of the body. Possibilities on the input side include starvation, suffocation, and withholding water. On the output side is any action that precludes the elimination of bodily waste products of any kind—gas, liquid, or solid. One can also add or withdraw thermal energy, exceeding the thermotaxic capacity of the body (e.g., as in freezing or over–heating).

At first blush, the distinction between these different approaches to lethal intervention can seem irrelevant. But doctors, who occasionally need to terminate certain of their patients for the most compelling and humane reasons, yet who are strongly conditioned to avoid doing that, must exploit differences in these domains of lethal intervention in order to find ways of terminating patients without eliciting the pre–conditioned automatic emotional aversers within themselves, and perhaps in other observers as well, and without attracting the attention of legal enforcers. To better understand this kind of self management, let us now review some basic principles that must be taken into analytical account.

First, consider that a person is often concurrently under two (or more) sets of contingencies to behave in ways that are mutually incompatible. Contingencies affecting behavior function algebraically. Thus, contingencies to act in one way and contingencies to act in another incompatible way, if concurrently in effect, resolve via the emergence of the behavior controlled by the stronger of the two sets of opposing contingencies. Close to the indifference point (where the strengths of the two sets of contingencies are equal) the exhibited behavior may be poorly organized or ill–defined, and perhaps accompanied, as is typical, by some aversive emotional reactions. Except in the very rare case in which the mutually countering contingencies remain equally strong, and the person flounders disconcertingly in what is commonly called a “breakdown,” some net behavior will occur as the strength of one set of contingencies exceeds the strength of the other, perhaps only slightly. In inverse proportion to the difference in the strength of the concurrent but incompatible contingencies, the person will be acting “reluctantly” or “indecisively” in one way or the other.

Next, we note that automatically elicited emotions are less susceptible to self–management practices than are operant behavioral activities. The doctors’ capacity for aversive emotional arousal lingers from earlier conditioning, and those aversive emotions, if elicited, can function as disrupters of currently appropriate behavior. Furthermore, those emotional aversers are automatically elicited by the particular stimuli to which the person was much earlier conditioned respondently, and because concurrent operant and respondent behaviors involve different bodily systems and hence exhibit some mutual independence, the aversive emotional reactions can still be triggered even after one’s relevant thinking has undergone operant processes of change so that one now “knows better” than to pursue the old course of action. Regardless of such changes in the operant behaviors of intellectuality, those somewhat–independently–operating, much–more–
slowly–deconditioning, and still–lingering aversive emotional capacities will still allow aversive emotions to be triggered inevitably by any action contrary to the old ways of behaving. And that will happen unless the body’s emotional capacity can be fooled in an exercise of self–deception so that an automatic elicitation of the aversive emotions will not be triggered when one behaves operantly in new ways that would normally make one feel sinful, shameful, or guilty.

Powerful feelings of guilt, shame, or sin (the automatically elicited respondents to which this discussion pertains), once conditioned and thus potentially ready to occur, are, by their nature, later triggered only upon encountering certain specific stimuli present on the occasion of the earlier conditioning. Only those stimuli will subsequently function to elicit the aversive emotional feelings. Therefore, one must avoid those triggering events. But the problem is that those eliciting stimuli happen to be the salient features of both the training situations and the later situations to which the training is applicable.

One such situational aspect is the associated prescriptive or descriptive verbal behavior of the practitioners themselves …that is, what the practitioners say or think about what they are doing. Often the conditioned eliciting stimulus (the emotional trigger) is tied less to the direct interventions among the variables of concern and more to the person’s own descriptions of those acts and of their effects and outcomes, …in lay terms, to how the person “views” his or her own actions rather than to the actions or their outcomes per se. When that is the case, as it often is, the person will subsequently experience the elicited aversive emotions, not necessarily upon exhibiting the actual practices of intervention, but upon thinking and saying certain kinds of prescriptive or descriptive things pertinent to those acts.

And in that distinction inheres the key with which doctors can and do escape from their ethical dilemma. If only they can do what must be done in a practical sense, but in ways that do not have to be described or considered in the terms to which the old emotional conditioning applied, those doctors can avoid eliciting in themselves at least some of the overwhelming aversive emotions that would disrupt the important practical actions that otherwise seem appropriate.

How to do what must be done for logically compelling reasons, but in ways that preclude one’s knowing in particular ways that one is doing it, may seem at first like an impossible problem for the behaving individual. But “outsmarting one’s conscience” is actually a somewhat common occurrence, and people tend to do it from time to time. The all too common incongruence of emotion and logic has resulted in such self–deception becoming a well honed human skill.

The science of behaviorology is necessary to understand how this occurs, but that science is not necessary merely for it to happen. Although a logically necessary action would seemingly arouse strongly adverse emotional reactions, with the necessary conditioning that appropriate action can nevertheless occur naturally or intuitively without the person thinking analytically about it. But with a scientific understanding of the process, the arrangements for its occurrence can also happen more deliberately. Before doctors can trick their bodies into not producing the troublesome emotional respondents, whether acting deliberately or under verbally unsupplemented natural contingencies, they must self–manage the contingencies controlling any verbal operants that would automatically elicit those aversive emotional respondents. That is often accomplished, with respect to euthanasia, by changing how one thinks and talks about what one is doing when terminating a patient.

One approach is to redefine death so that some patients can be terminated rather directly, especially those whose conscious behavior (awareness, recognition, comprehension, thinking, etc.) has permanently ceased. Typically, this is done through over–sedation, without explicitly regarding the action as killing. According to the new definition of death, the patient (as a person) is already dead, so the issue of killing a person is off the table. What one does construe to be occurring remains a problem, but a lesser one if the avoided emotional onslaught would have been triggered only by construing the action to be killing. It may suffice to describe what one is doing in almost any other way. Most physicians will take the opportunity to redescribe the action to themselves, not simply in neutral ways, but in ways that are reinforcing to hear (e.g., “I’ve behaved mercifully”). In a common but less direct approach, those patients who should be helped to die, are sometimes killed via a withholding of medication or nourishment after first defining such a deliberate program to be other than killing (e.g., as “rational stages in a course of treatment”). Doctors can then withhold certain substances that are critically necessary for bodily maintenance, doing so under the rubric of “treatment.” The patient weakens and may appear to die rather naturally while under what is construed to be appropriate treatment by the medical staff.

As far back as 1987 a California court agreed with two doctors, who had withheld nutrition and hydration, that nourishing and hydrating a permanently unconscious
patient was a form of “treatment” and that, as the courts had earlier ruled, physicians had no duty to continue “ineffective” treatment that incidentally may be keeping the patient alive (Burleigh, 1988, p. 72; Collins, 1987, p. 272).

In other cases the patient is killed by deliberately withholding more direct surgical interventions to repair body damage or to reverse certain processes that have lethal implications, either after defining “refusal to operate” not to be a kind of euthanasia or after declaring that such an intervention would be “pointless” (Nagler, 1986). By 1988 Rymer (1988) could present brief summaries of ten critical court decisions that provided definitions or rationalizations helpful to doctors in circumventing their aversive emotional reactions to their participation in some form of euthanasia. These trends have continued and are reflected in the currently popular “do not resuscitate” directives that people are now often encouraged to sign when they seek medical attention. In cases of both temporarily or permanently person-dead bodies, this allows doctors to avoid describing their own actions to themselves as what they opt to do and instead describe their rational actions to terminate the still biologically alive body as a fulfillment of the behaviorally dead patient’s wishes.

In matters of euthanasia, the fallacy that withholding treatment is not to kill the patient is promoted in the field of medicine. It may seem that little significant difference actually exists between sticking a knife into an individual and deliberately failing to remove one found to be there. However, doctors have discovered that emphasizing a distinction between those approaches is convenient in their own self-management strategies. If the example is made less extreme and more common, for example, by substituting “blocking a patient’s urinary excretion” for “inserting the knife,” and “providing urinary diversion” for “removing the knife,” the example falls within the realm of practice for many physicians today.

Given a patient whose quality of life has deteriorated to an extreme and irreversible low, most doctors would find that intervening to shut off that patient’s excretion of urine, so as to kill that patient, would readily elicit a substantial aversive emotional reaction, not only in that physician but also in many others. However, if the patient’s disease has blocked the urinary flow, the physician, after acknowledging that certain quality criteria pertain to the definition of “life,” can kill the involuntarily continent patient by withholding procedures of diversion and at the same time avoid eliciting the aversive emotions that would be triggered by deliberately “taking a life.” That is especially true if the patient has provided an implicit endorsement via an earlier signature on a preliminary directive. Also, because of the new quality-of-life criteria, a legally defined murder would not have been committed, because the terminated body-life, and possibly person-life, no longer supported or constituted what would now be described by doctor and patient as a human life worth living. As Harris Nagler (1986) concluded in an article called “Uremia—A Way Out,”

Technically, we have made great advances in our ability to afford comfortable urinary diversion to patients with a malignant urethral obstruction. However, the capacity to act does not in itself justify the action. The need to treat because we are trained to prolong life and because we are capable of prolonging life is no longer acceptable. The patient, the quality of life, and the dignity of life and death must be taken into consideration before a urinary diversion should be offered to those with progressive carcinoma that has not responded to other available therapies. Indeed, renal failure may offer a painless, peaceful demise to a patient who might otherwise be subjected to a tormenting death. (p. 159)

### The Fallacy of Doing Nothing

As noted, certain evasion strategies for the circumvention of emotionally bolstered but irrational ethics have been based on the proposition that withholding treatment, which is not to act, must preclude physicians being punished for taking actions to end life. As the assumption goes, punishment for ethical violations is attached only to acts that breach ethical rules, so not acting insures that breaches are impossible.

Another twist of the same genre depends on the distinction that doctors, when performing in the medical roles for which they can be held professionally responsible, are engaging in medical practices. It follows that when they are not engaging in medical practices they cannot possibly be performing bad ones for which they should be held responsible as medical professionals. Whatever they do instead, if described as nonmedical practice, falls beyond the umbrella of standard medical ethics and professional responsibility, which in such cases are not applicable. It amounts to the old device of “changing hats” while doing a chore that falls outside of one’s job description. One tends not to feel bad about what could otherwise be construed as a violation of medical ethics if the action is not strictly within the scope of medical practice. The doctors’ trick is to become able conceptually to shift the status of a behavior between the medical and nonmedical domains with few if any publicly evident affections.

An ecclesiastically inspired version posits that God directs nature, and when nature is permitted to take its course without the physician’s medical intervention, any
consequence—the death of the patient, for example—is therefore God's doing, …and surely the physician is not to be punished by self or others for allowing God to prevail. Thus, any death that can be made to seem natural leaves God, not the doctor, to answer for that outcome. Under those circumstances the aversive emotional arousal of sin is unlikely to be triggered in the doctor.

Another version, derived from the notion of personal autonomy, appeals to the putatively inviolate right of patients to exercise control over their own behavior and bodies. (The cases of Bouvia and Young, described by Rymer [1988], were classic examples.) If a patient indicates, or has indicated, that death is preferred, the physicians can arrange for that to occur while reassuring themselves that their actions are not in accordance with their own professional ethics but are nevertheless performed out of respect for a higher order of right, namely, the patient's right of self-determination. Doctors can then reaffirm the righteousness of their own ethics while violating them in practice, and that reaffirmation mitigates the self-offense in what those doctors are doing—and, importantly, may not trigger the aversive emotional reactions from which they otherwise could escape only by doing something other than arranging for such patients to die.

To construe these various and sometimes elaborate self-management practices, which avoid strongly aversive ethical respondents (felt as guilt, sin, or shame), as “doing nothing” is to overlook the fact that the result is a carefully arranged outcome of the doctor's behavior. Clearly, a doctor's circumvention of his or her own unhelpful ethics involves a lot of behavior—in particular, the special and rather elaborate contrivance of some rather powerful countercontrols over well-strengthened opposing behavior. To then imply, when describing one's role in such programs to withhold treatment, that one is not acting, is to entertain a major fallacy. When physicians pretend that they are not accountable to themselves for ethical violations because, for example, they are not conducting a medical intervention to maintain life, their “inaction” has actually been produced through an elaborate sequence of behavior. Though often self-unanalyzed, it amounts to a multifaceted circumvention of their own ethics.

What doctors need are better ethics in the first place, which would tend to follow from training in the appropriate basic natural science of the behavioral aspects of their profession. Arguably it is objectively based science that best prepares doctors to cope effectively with the behavioral complexities and demands of their profession. However, that level of preparation cannot be realized until medical training programs abandon the mystical accommodations that pass for foundation behavior science and teach doctors a natural science of human behavior to match the natural science training that they get in physics, chemistry, and biology.

Summary of the Doctor's Dilemma

Doctors who are managing episodes of patient dying often find themselves in complex situations that afford high potential for punishment and low potential for reinforcement—a kind of circumstance that often evokes the rhetorical question, “What can I possibly gain from this?” One widely reported large-scale study of doctors' behavior under these circumstances, conducted over a decade ago (Brink, 1995), found that two-thirds of doctors who received reports on patient's wishes about life-sustaining care did not even look at those reports.

Were a physician to arrange for the patient to die immediately, quickly, and painlessly, a wide variety of severe punishments are usually contingent on any action that would be understood to have yielded that result. The reinforcers for taking such action (e.g., relief from various aversive circumstances and possibly a measure of professional satisfaction) could be overwhelmed by several potential punishers including a) automatically elicited feelings of guilt, sin, or shame, b) severe censure by colleagues and administrators, c) costly and professionally detrimental legal actions both civil and criminal, d) attacks in the public media, especially by self-appointed ethicists, e) retaliations by friends and relatives of the deceased, and f) attacks by remote parties who have personal interests in proclaiming all human life, no matter how defined, to be sacrosanct regardless of its quality or any other considerations.

While considering those potential consequences of euthanasia, a doctor confronted with a slowly dying patient also faces the alternative of having to preside over that extended course of horrible and, from a realistic practical perspective, pointless suffering—aversive for all parties, not just the patient. In such cases of prolonged torment, doctors may find themselves presiding over a kind of protracted horror show. Obviously the physician is under strong contingencies to avoid both the severe punishment reserved for those who assist in a patient's death and the demeaning role as head of a team that teases the maximum possible anguish out of a hopeless situation. Self-management practices, often of a self-deceptive nature, can make a doctor feel better about acting directly or indirectly to discontinue a terminally suffering patient, but defenses against other kinds of threats, especially those of external origin, are more difficult to arrange. Few physicians have special behavioral histories that would prepare them for direct battle with a monster as large and complex as a misdeveloped culture. Nor are many physicians sufficiently clever to avoid all of those punishments while behaving in ways that would normally precipitate them.
To be Rendered Inhumane by the Prevailing Ethics

Floundering among the confusing mix of ethical strictures pertinent to death and dying, both doctor and patient can lose their dignity and their humanity, although the plight of the patient is better understood. Changes to the body of a terminal patient increasingly render ineffective the contingencies that produce that behaviorally defined person. As those functional relations between environment and behavior lose strength, the behaviors that define most of the person will approach zero frequency. At the same time, what remains of the dying individual’s behavior–controlling environment is often little more than a set of overwhelming and increasingly intense aversive stimuli. The verbal repertoire can become totally preoccupied with demands for escape—many of them magical, given the futility of the situation (Skinner, 1957, pp. 48–49). Often the particular escape being requested is death.

In such cases, the wretched lingering remnants of the former person typically exemplify extreme erosion of identity. What is left is without importance in many of the ways that people are important. At that stage the often slow process of person—death has been occurring for some time, yet the few remaining remnants of the person—a pathetic residue of a once complex repertoire—may continue to be regarded as if it were still intact. But that respect is accruing only to a progressively and irreversibly diminishing remnant of operant behavioral capacity, and what remains of the person may be of little or no practical importance and worth, even though others may have been ill-conditioned to feel otherwise.

In analyzing the behavior of the medical personnel who manage the patient’s terminal course, we must carefully distinguish between how they describe their activities and the functional effects of what they are doing. The physicians nourish the patient’s body. They frequently maintain at least some of the patient’s capacity for public and private verbal behavior (called keeping the patient conscious). They treat the patient’s pain, euphemistically calling it palliative care, and virtually emphasize that the patient is being kept “more comfortable” than would otherwise be the case while “nature takes its course.” Sometimes the patient is thereby rendered more capable of appreciating any residual undampened pain plus the inevitable gross discomfort of systemic bodily failures. But physical pain can be of lesser importance than the devastating emotional trauma of witnessing oneself losing the battle to live. As Dr. Ronald Cranford, then president of the American Society of Law and Medicine, once explained to an audience of doctors and medical students, “There’s a great deal of suffering. And doctors are doing it. Those doctors will say, ‘We’re not in the business of killing.’ But we’re sure not in the business of prolonging suffering, and that’s what we’re doing” (Formanek, 1988).

When the major degradation of the body begins to reach critical irreversible stages, aversive stimuli of many kinds may emanate from various loci within the body, often combining into a systemic torment that exceeds in magnitude anything previously experienced. A patient may characteristically exclaim that “I didn’t know it was possible to feel this bad.”

The physicians could preclude or end this irreversible suffering, perhaps at the patient’s request, but in most cases, as long as the patient remains conscious, the doctors let it continue, even when the patient begs to die. While the literature of torture contains accounts of elaborate contrivances to intensify and prolong human agony, the most diabolical schemes seldom approach the prolonged horror of slow “natural” death, for example by cancer wherein severe unabating agony increases at a glacial rate determined by the fission and growth of individual cells within tumors. Such dying, usually over a period of many months, can make the ancient torture of death by ten thousand tiny cuts, which usually kills in a matter of days, seem like mercy killing. The physicians preside over these episodes of slow dying, and typically insist, whether on moral or legal grounds, that they cannot act to produce a quick and painless death, although most physicians, overwhelmed by confrontation with the prevailing strong natural contingencies, will at least drug the patient into a stupor until the patient’s body fails for any kind of reason that can be called natural.

The doctors can be reduced to pathetic deceptions when they discuss the treatment “options” with a naive and perhaps still hopeful patient whom they know cannot be saved, such as a recently diagnosed lung cancer patient with early but spreading metastasis and for whom the latest ultraexpensive “miracle” drugs are economically inaccessible under a government–endorsed capitalist economic system. The truth, half told, has been called the cruelest lie of all. The physicians could preclude or end this irreversible process, perhaps at the patient’s request, but in most cases, as long as the patient remains conscious, the doctors let it continue, even when the patient begs to die. While the literature of torture contains accounts of elaborate contrivances to intensify and prolong human agony, the most diabolical schemes seldom approach the prolonged horror of slow “natural” death, for example by cancer wherein severe unabating agony increases at a glacial rate determined by the fission and growth of individual cells within tumors. Such dying, usually over a period of many months, can make the ancient torture of death by ten thousand tiny cuts, which usually kills in a matter of days, seem like mercy killing. The physicians preside over these episodes of slow dying, and typically insist, whether on moral or legal grounds, that they cannot act to produce a quick and painless death, although most physicians, overwhelmed by confrontation with the prevailing strong natural contingencies, will at least drug the patient into a stupor until the patient’s body fails for any kind of reason that can be called natural.

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Most of those options are indeed less prolonged and horrible than the alternatives. For example, a favored rec-
ommendation for the death of patients with certain kinds of lung cancer has been to let pneumonia develop (untreated) so that the lungs will gradually fill with fluid, and the person can slowly drown...preferable because that approach to death, typically spanning from one to a few days, is relatively rapid compared with the much slower alternatives. Death by untreated pneumonia has also been a favored option for terminal leukemia patients. Dr. Deward Viner, an earlier advocate of patient's rights to reject further treatment, was quoted as saying that “people are starting to believe again that pneumonia is the old man's friend” (Burleigh, 1988). But the slow suffocation, often of a conscious or semi-conscious patient, can take from many hours to days while loved ones hover nearby and watch, and the patient, at least while still able, can watch them watch.

Dramatists who want to suggest a circumstance worse than oneself being put to torture have traditionally resorted to the device of forcing the person to witness the torture of a loved one. It is over just such real-life scenes that doctors now often preside in accordance with contemporary law and medical ethics, both of which have been substantially informed by prevailing cultural superstition, especially religiously endorsed assumptions about the putatively mystical nature of life. Untold numbers of dying patients have gone to their deaths in a state of horrible emotional agony precipitated merely by their being forced to witness the effects of their own slow dying on intimates and loved ones whom they can no longer protect and comfort. When the prolonged suffocation by pneumonia, of an interminably conscious patient, is touted as a preferable way to die while under medical care, something seems wrong with medical care.

The ironic truth is that many doctors, caught in these situations, have, in fact, injected the drowning persons with semi-lethal doses of morphine depressants. That weakens the capacity of the patients' bodily systems to compensate for oxygen starvation and hastens heart failure. But that step is usually taken only after the patients have slipped into permanent or intermittent unconsciousness after having endured what is often the full measure of suffering that their fading capacities for awareness would permit. Euphemistically the action is described as sedating the patient perhaps to render the person “more comfortable.” It puts patients to sleep and kills them sooner than their diseases would have killed them, yet everybody can pretend that the patient merely died of pneumonia, an exercise that has the convenient characteristic of superficial truth but also the more important characteristic of being acceptable as a “natural cause” from the unsophisticated common perspective.

Across the previous decades, sympathetic courts have generally tolerated such medical practices by accepting that kind of stretched logic—a judicial course that has been justified on the basis of the compassionate practicality of the outcomes. As Collins (1987) could write nearly twenty years ago, “It is probably rare now that a terminal patient’s dying is extended beyond what the patient or the family wishes.”

But “terminal” does not apply until the dying individual is already nearly or totally person-dead anyhow. By that time most of the extended horror has already been experienced by all parties—days, weeks, or months of it—even years in rare cases. With each kind of slow but lethal disease lending itself to its own preferred kind of peripherally acceptable accelerated death, physicians will tend to choose one (and in some cases even recommend it), for example, the renal failure that has been touted for patients whose cancer has resulted in urethral obstruction. It is true that if the accumulating urine were diverted so that renal failure did not occur, the ultimate death of the patient due to the further growth of the cancerous tumor would be even slower and more painful. But those who would take relief from that reassurance should go watch some still conscious person die of renal failure. Given a realistic preview of what awaits them along the path of prolonged dying, many people, to the extent that they were unimpeded by mythological theories, would probably opt for an instantaneous end before having to embark on that progressively aversive journey.

A national survey (Payne, Taylor, Stocking, & Sachs, 1996), distributed to 250 physician members of the American Academy of Neurology and to another 250 from the American Medical Directors Association, revealed that 13 percent believed that patients in the persistent vegetative (pvs) state have awareness and experience hunger and thirst, while 30% believed that they experience pain. These conclusions about various behaviors of consciousness such as awareness of pain, hunger, and thirst are typically products of faulty psychological and religious theories about the nature of behavior and how it functions. Some versions feature assumptions of presumably vital self-spirits immured in near dead bodies—ethereal entities that have always been responsible for consciousness and continue with the functions of consciousness even though the body can no longer exhibit any outwardly evident behavioral manifestations of that consciousness activity.

Consciousness, however, is merely a kind of behavior, and, like any kind of behavior, it either happens, or it does not happen. But insofar as its occurrence is consciousness per se, it cannot be happening in the background of consciousness (i.e., if it is an absent event, it cannot also be a presently occurring event). Absent the occurrence of the behavior of knowing, there is no further level of such knowing behavior that can occur “unconsciously” (there is no such thing as unconscious consciousness).

A persistent vegetative state (pvs) is not a mere muscular paralysis that leaves the nervous system unimpaired and able to maintain the functions of consciousness. On
In the United States of America we have learned to be tolerant of the mythology entertained by our neighbors, generally in proportion to the harmlessness of its implications. But when a mythology becomes popular, its numerous adherents collectively arrange powerful controls, often involving the forces of law and government, to insure the free play of the implications of that mythology, even when those implications affect other people. No matter that, at root, the popular mysticism represents an intellectually puerile simplification, nor that its implications include the enforced prolongation of the terrible agony of individuals whose misfortune is to face slow dying. Conflicts among peoples’ beliefs are not amenable to resolution according to their relative strengths. It is only via the analytical treatment afforded by the emergent behaviorological field of qualitative knowing that such resolutions can be realized objectively.

Among people who become involved with death and dying only a small fraction of them typically will have had much relevant experience. Most enter into such episodes with little relevant prior conditioning. Naturally, they tend to defer to the judgment of professionals who deal regularly with such matters. Patients, concerned friends, and relatives tend to accept the wisdom of a doctor, not only on technical matters, but with respect to ethical issues as well. The result can be that intelligent, loving, caring, otherwise rational people find themselves parties to episodes of prolonged, pointless, and unnecessary agony suffered by their loved ones, all carried out under the umbrella of impractical ideologically–based ethics and the laws that enforce them. And if those people subsequently recognize, in that sense, what they have done, they tend strongly to resent having been made a party to inflicting something that awful on a loved one. Belatedly they may realize that their contact with prevailing medical ethics had the effect of significantly dehumanizing them.

**Conclusion**

Behaviors that respect a person’s access to reinforcers are regarded as ethical by the beneficiary of that respect. An individual’s repertoire of such conditioned behaviors of respect is said to represent one’s ethics. Because an ethical behavior acquires its ethical status from the perspective of its classifier, a response that is regarded as ethical by one person may not be regarded as ethical by another person. As is true of all behavior, the qualitative assessment of a putatively ethical response depends on the implications of its consequences or outcomes.

A stimulus that is destined to become a reinforcer the access to which can then be involved in investing certain related behavior with ethical status can be selected for such a destiny on the basis of a person’s philosophical assumptions (as when a person comes to value a particular icon on the assumption that it represents an important

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8 Such respondent behaviors played a major deceptive role in the recent and highly publicized case of Terri Schiavo, an adult married woman who after an event that left her largely “brain dead” was maintained in a person–dead but bodily–alive state for about 15 more years in the absence of any evident capacity for operant behavior. Under a court order she was eventually starved to death across a 13–day interval as a way of bringing that superstitiously extended episode to a relatively “compassionate” and “natural” end. In 2006 an internet search for “Terri Schiavo” via www.google.com found about 6,000,000 hits, most of which pertain to this especially protracted episode of differential dying.
deity with whom that icon has been associated in cultural lore). Assumptions are behaved both by persons who rely on objectivity and by persons who rely on superstition. On the one hand, philosophical assumptions may arise as inductive leaps from specific instances of objectively contacted evidence. However, they may just as readily arise to support speculative accounts in the absence of objective evidence. An example of the former is the assumption that any real current event has a functional history that theoretically can be traced objectively back through diverging chains of functional linkages ad infinitum. In contrast, an example of the latter is the assumption that a current event can be traced back through its functional history only as far as yesterday afternoon at 2:17 P.M., at which time the entire universe, including various kinds of intact records of a much longer history, is assumed to have been created instantaneously by a powerful deity.

The former assumption may inform the actions of political leaders who are allocating substantial government resources to educational programs in history, archaeology, geology, and other objectively grounded fields that probe the mysteries of antiquity. In contrast, the latter assumption may inform the actions of other leaders who regard indulgence in such fields of study as a grand fallacy and would divert those same substantial resources to educational programs of ideological indoctrination that stress fervent efforts to divine the will of that deity and teach how that deity can be appeased via programs of reverential deference. These very different courses of practical action stem from the two divergent assumptive classes, as do their very different implications for the culture and the ultimate well-being of its people.

Among the ethical prescriptions of the former leaders may be the stricture that public resources be allocated only to objectively informed activities, while among the ethical prescriptions of the latter leaders may be the requirement that public resources be allocated only in ways that comport with the divined will of the deity, the revelation of which is seldom evaluated according to objective criteria. Ethics that derive from superstitious foundations may by chance prescribe behavior that is absurd at a practical level of consideration from an objective perspective.

In this essay we have examined the plight of doctors who too often have experienced an ethical indoctrination that is characteristic of the superstitious cultural mainstream. The prevailing superstition–based values and related ethics pertinent to the matters of death and dying with which many doctors must routinely contend can be quite different from the values and ethics that the natural contingencies of medical practice tend to impose upon them or, alternatively, that would follow from an objectively derived ideology. Trained in modern medical science, but not in the natural science of behavior, contemporary doctors must work in a social environment that operates with ethical prescriptions that are derived largely from traditional superstitious assumptions. To behave rationally at a practical level, doctors with such a personal conflict often engage in elaborate exercises of self-deception. Such activities circumvent the inhibiting effects of the superstition–based conditioning that passes for social and behavioral training in most contemporary medical schools.9

However, in many cases that circumvention fails to occur. In such cases, a doctor continues rigidly to pursue, for fundamentally superstitious reasons, a course of treatment the particulars of which comport with the objectively derived principles of physics, chemistry, and biology but which, because of superstitious behavior-related assumptions, may perpetuate the agony of a helpless patient as well as of others who have an emotional investment in the quality of that patient’s existence.

Arguably, the circumvention of unsuitable ill-derived ethics via self-deception, as well as the unreliable trend that via liberal court decisions chips away piecemeal at legal requirements for the imposition of such harmful ethics, are both poor substitutes for a complete range of proper medical training and its legal address by an objectively informed government. Currently a medical student is trained, in general, how to perform medical procedures that are informed by the traditional basic natural sciences (i.e., physics, chemistry, and biology). But in dealing with human behavior, which is a substantial aspect of medical practice, doctors are trained in social and behavioral science that is informed largely by superstitious philosophy, both secular and religious. Secular versions are typically based on the fundamental assumption that the behavior of a body is managed and controlled by a responsible self-agent. In religious versions the behavior of a body is typically presumed to be managed and controlled by a similarly agential soul that derives its special designation as such from the further assumption that it, in turn, is controlled to some extent by, or is responsible to, a remote deity.

All such body–managing agents are simply conjured as seemingly necessary to complete objectively deficient accounts for behavior. In most cases, those incomplete accounts have rather glaring gaps where environment–behavior functional relations have been omitted in the absence of the particular basic natural science that is nec-

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9 Some doctors as well as other kinds of practitioners may be prepared to behave objectively with respect to behavior–related matters, but are forced to engage in prevailing superstition–based practices under punitive contingencies of imposed law or policy. As such, those doctors are victimized as are their patients. The current discussion, however, pertains to doctors who are caught in personal intrinsic conflicts that result from their own inconsistent conditioning histories.
essay for their inclusion. The results on medical practice of such explanatory recourse to superstition are predictable, and some of them have been explored in this essay. The natural science of human behavior exists, but until behaviorology is included in medical training curricula in place of the current superstition–based behavior–related program, many doctors whose physics–based, chemistry–based, and biology–based procedures may be helping their patients are likely to continue presiding over the arguably pointless torment of those patients with respect to certain behavior–related matters.

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