HUMOR IN MEDICINE

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Abstract: Humor and laughter have been a focus of attention in the popular media and in the medical literature. Despite statements about the health benefits of humor, current research is insufficient to validate such claims. There is support in the literature for the role of humor and laughter in other areas, including patient-physician communication, psychological aspects of patient care, medical education, and as a means of reducing stress in medical professionals.

Humor in medicine is not a specialty in the traditional sense. Although admittedly subjective, the study of humor can be divided into the following areas: humor and health, humor and patient-physician communication, humor and patient care, humor and the health professional, humor in medical education, and humor in the medical literature. Although numerous articles have been written about these areas individually, no reviews have been published recently that are representative of the field.1 Also, because humor is difficult to study, much of what is published consists of authors’ opinions or anecdotal experiences rather than well-controlled research. The purpose of this article was to provide a brief overview of the field, with a focus on what is known and not known about the value of humor in medicine. Humor in psychotherapy, not the subject of this article, has been reviewed elsewhere.2

Humor and Health

Although the notion that humor and laughter are good for one’s health is not new,3 the benefits of humor gained renewed interest with the publication of Norman Cousins’ article “Anatomy of an Illness.”4 In that article, and later in a book,5 Cousins described how laughter and vitamin C helped his recovery from ankylosing spondylitis. According to Cousins, 10 minutes of laughter resulted in 2 hours of pain-free sleep and a reduction in his erythrocyte sedimentation rate. Despite criticism that appeared in the medical literature,6,7 Cousins’ account worked its way into the national consciousness. In recent years, numerous articles attesting to the benefits of humor have been published. In addition to studying the origins and physiology of laughter,8–10 authors have credited humor with better health11–12 and improved immune function.13–15

Despite the popularity of humor therapy in the media and among some health care professionals, this treatment modality has not gained wide acceptance in mainstream medicine. In addition, two recent reviews criticized most of the studies in the field. Independently, Provine16 and Martin17 reached similar conclusions—that the majority of humor research either negates or is insufficient to support the stated claims. Both authors noted that studies are often poorly designed, have inadequate controls, or involve sample populations that are too small to support their conclusions.

The area that has shown the most promise is the use of humor to moderate a patient’s response to pain. Research in this area is divided into two groups. The first group consists of experimental studies in which a patient’s pain tolerance is evaluated during or after exposure to comedy videotapes.18,19 In most cases, the ability to tolerate pain is enhanced after exposure to humorous movies. The second group consists of field research in which a patient’s need for pain medication is studied after viewing comedies. In one well-controlled study, humorous movies reduced the need for postoperative analgesia in orthopedic patients.20 No effect was noted on the first postoperative day, but the experimental group showed a 61% decrease in requests for minor analgesics (eg, aspirin, minor tranquilizers) on the second day after surgery. Interestingly, patients who did not have a say in which movie they watched experienced no improvement compared with the control group. This suggests that for the humor to have a positive effect on pain control, patients need to be active participants in the type of material selected.

Key Points

• The study of humor in medicine can be divided into the following areas: humor and health, humor and patient-physician communication, humor and patient care, humor and the health professional, humor in medical education, and humor in the medical literature.
• Humor has the potential to relieve stress in patients and medical professionals.
• The area that has shown the most promise is the use of humor to moderate a patient’s response to pain.
Humor and Patient-Physician Communication

Wender recently reviewed the importance of humor in family medicine. He sees humor as a means of narrowing interpersonal gaps, communicating caring, and relieving anxiety associated with medical care. Patients also use humor to express frustration with their health and with the medical establishment. When patients quip to the doctor, they not only “let off steam” but also reveal hidden agendas. Physicians should pay attention to these overtures and use them as jumping-off points to discuss a patient’s deeper concerns.

Laughter is therapeutic with children. It relieves tension, increases curiosity, and gives children a sense of mastery over their surroundings. Humor also helps children overcome fear and anxiety associated with seeing the doctor. Young children respond to simple interactions such as tickling, playing peek-a-boo, and sharing small toys. Older children appreciate jokes and riddles and a type of office-based slapstick, such as getting caught up in curtains or making mistakes when palpating parts of the child’s body. There are times when humor is inappropriate, however. Some patients do not appreciate humor, and it can be counterproductive to use it in their presence. Also, if a child is ill or the parent is distressed or angry, humor should be avoided.

Although many articles have been published about the value of humor in patient-physician communication, this area has not been studied thoroughly. Nevertheless, some interesting work has been done in related areas. Studies have shown that patient satisfaction correlates with the length of visits and the emotional tone of medical encounters. When patients think that they have connected with the physician, they are more satisfied with their care and are more likely to follow the doctor’s advice. Gross et al found that patients feel less rushed if physicians spend even a brief time chatting with them. They concluded that “physicians may improve patients’ sense that the doctor has given them adequate time by simply talking about the weather, telling a joke, or evoking conversation about something other than the health of the patient” (p 136). A recent study examined patient-physician communication as it relates to malpractice risks. Primary care physicians with no history of malpractice claims differed from those who had experienced claims in three areas—physicians with no claims history spent more time with patients, used facilitative statements more often, and relied on laughter and humor more often during their encounters than did physicians who had been sued for malpractice.

Humor and Patient Care

Introducing humor and laughter into the health care setting is intended to improve a patient’s mood and quality of life. Nurses have traditionally played a more active role than physicians in bringing humor to patients. Given that nurses spend more time with patients, especially during hospitalizations, this finding is not surprising. Authors stress the importance of assessing a patient’s appreciation of humor before using it as a nursing intervention. It is equally important to use humor at the right time and place and to avoid humor that might alienate people. For example, ethnic and sexist humor as well as sarcastic humor should not be used with patients.

Some hospitals have formal humor programs in which staff members and volunteers bring laughter to patients by using humor carts and humor resource centers. Humor carts are similar to standard hospital carts, except in this case patients select humorous books, videotapes, and other paraphernalia to brighten their day. When patients are allowed to laugh and to play, humor has the potential to distract them, at least temporarily, from physical pain. Humor should never be forced on patients, and volunteers are taught to be mindful that patients and family members may be coping with tragic news or grieving the loss of a loved one.

Few authors have examined how patients themselves use humor in medical settings. In one observational study of hospitalized patients, humor and laughter were commonly witnessed among patients. Patients used humor as a coping mechanism to reduce the anxiety and frustration associated with being in the hospital—the insecurity of being sick, having to deal with hospital routines and submission to authority figures, and the loss of control over bodily functions. In many cases, patients used “jocular griping,” which involves patients’ trading complaints about the hospital to let off steam and amuse each other. This behavior served to socialize patients and allowed them to transform individual complaints into group pleasure.

Humor and the Health Professional

Numerous authors have written about the value of humor to health care professionals. Humor helps doctors and nurses deal with the stress of caring for patients who are in pain. It also fosters good working relationships among colleagues and improves morale. Having a positive attitude at work can extend to colleagues and support staff, and health care workers who greet colleagues with a smile usually get one in return.

Medical students respond to the stress of their education by making fun of their courses, their professors, and the process of becoming a physician. The culmination of medical school humor occurs when students put on their annual spring follies. From a sociological perspective, one can appreciate these shows within the context of the kind of folk drama found in many different communities and cultures. People enjoy making fun of their superiors and their own foibles, and mocking the established social order has always been a part of group life.
included drawing on past experiences, ignoring the stressful event by becoming involved with other activities, or seeing humor in the situation. The doctors with the best coping skills also reported the highest level of job satisfaction and sense of personal accomplishment. Humor is also used as a coping strategy by residents, physicians in other specialties, and allied health personnel. The term gallows humor describes a type of morbid humor that people use in the face of tragedy or death. Gallows humor is based on Freud’s theory that joking relieves anxiety or repressed impulses and that laughter converts unpleasant feelings into pleasant ones. The use of gallows humor in medical settings raises an important point—that all humor exists within a certain culture or subculture. As a result, what is funny to one group may not be appreciated by others or in different settings. A recent study found that experienced paramedics do not share their work-related humor with family and friends for fear that it will not be understood. Consequently, it is important that patients be shielded from this type of medical humor so that they do not misinterpret the laughter as cruel or uncaring.

Humor in Medical Education

Physicians often use humor in lectures and other presentations. Ziegler found that 75% of physicians at Sydney Children’s Hospital used humor in teaching. The staff members think that humor reduces stress, increases motivation and comprehension, and aids socialization into the profession. Furthermore, the doctors surveyed did not think that humor is distracting or unprofessional or that it trivializes the education process. Even William Osler was known to use humor in teaching his students and colleagues at The Johns Hopkins University.

Although widely practiced, the use of humor in higher education has not been studied adequately. Naftulin et al found that “student” ratings could be influenced by a teacher’s style. In their study, an actor was enlisted to lecture to a group of mental health professionals. The actor was coached to use humor to make the presentation enjoyable, even though the lecture included double-talk and contradictory statements. The participants rated the speaker highly despite the lack of substance in the presentation. This study was criticized, however, because the authors did not attempt to measure what the students learned. Ware et al extended Naftulin et al’s work and showed that humor and an enthusiastic style affect student ratings of the instructor as well as student test performance immediately after a lecture.

Ziv studied the effects of humor during a 14-week statistics course for college students. The subject matter and teacher for both the control and experimental groups were identical, except that the teacher included the use of humor in the experimental group. At the end of the course, on the final examination, the students who were exposed to humor performed significantly better than the group with which humor was not used. Ziv emphasized that humor works best in small doses—usually four or five jokes or cartoons per lecture—and that the humor should be relevant to the material taught.

Humor in the Medical Literature

Humor has been published in the medical literature for more than 100 years in a wide range of journals. Areas targeted for humor include medical school and residency, academia, medical language, writing and publishing, research, and clinical practice. In the past decade, humor anthologies of the medical and nursing literature have been published.

Although light material occasionally appears in columns, most of the humor published in medical journals turns up sporadically as brief reports, essays, or verse. Parodies and amusing case reports appear in the medical literature both as full-length articles and as letters to the editor. The most famous of these reports describes the therapeutic effects of chicken soup to treat pneumonia. The “patient” featured in this article became acutely ill and improved quickly after the prompt initiation of treatment with 500 ml chicken soup every 4 hours. The patient relapsed when he declined further treatment and subsequently had to be managed with more conventional treatment (IV penicillin and thoracotomy). In the latter part of the 20th century, The New England Journal of Medicine was known for publishing case reports in its correspondence section that described unusual and sometimes entertaining maladies of daily living. These items were presented as brief case reports that included an amusing title or a medical twist that spoofed medicine or the author himself.

Despite the wide range of humor published in the medical literature, no one has studied what physicians think about this material. Alfred Soffer, the editor of Chest from 1968 to 1993, received more letters in response to the chicken soup parody than any other article he published in his 30 years as an editor. Although written “tongue-in-cheek,” the tone of these letters was positive about the article, and many authors added their own “documentation” of chicken soup’s therapeutic efficacy. Some physicians use published humor to lighten the atmosphere during lectures, bedside teaching, and case conferences (H Fischer, personal communication, November 2001). Nevertheless, other physicians think the medical literature should not be a forum for humor. Concerns have been raised that people might be offended by this material or that it will mislead physicians who are searching for serious work in the literature.

Conclusions

Humor has the potential to relieve stress in patients and medical professionals. Humor gives patients the opportunity to forget about their anxiety and pain, if only for a brief period of time. When doctors share humor with patients, they create lines of communication that encourage patients to dis-
cuss difficult issues. In effect, humor can put both parties at ease in a way that more formal types of communication cannot.\textsuperscript{13} Medical professionals also use humor to deal with the tension that results from working in the modern medical environment. Doctors acquire their signature humor while in medical school. This behavior continues as students complete their training and begin working in the health care system. It is seen in the banter and jokes one witnesses on the wards and even in the humor doctors publish in the medical literature. Despite the preliminary work in this area, many questions remain. Do patients want their physicians to use humor on a regular basis in clinical interactions? Do physicians think that the medical literature is an appropriate forum for humor that satirizes the profession? Will the health benefits of humor be substantiated in future, well-controlled research? Only time will answer these questions. It seems that at least in some areas, however, humor is off to a good start.

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References

Patience is power. With time and patience, the mulberry leaf becomes silk.

—Chinese proverb
Humor and laughter have been a focus of attention in the popular media and in the medical literature. Despite statements about the health benefits of humor, current research is insufficient to validate such claims. This article reviews the role that humor and laughter may play in medicine in general and palliative care in particular. In addition, it introduces a model that clinicians can follow when trying to introduce humor into their daily encounters with patients.