Use of Social Media in Health Care—Opportunities, Challenges, and Ethical Considerations

A Position Statement of the American Academy of Neurology

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The American Academy of Neurology (AAN) Code of Professional Conduct (CPC) formalizes the standards of professional behavior for AAN members. The CPC provides the ethical principles and professional standards that neurologists and other neuroscience professionals should or must observe in their clinical and scientific activities. While ethical principles do not change with time, developments in technology and social structure may lead to a change in how these principles are applied. One such technological development is social media—a class of communication tools that has rapidly grown in number and popularity in recent years. The AAN developed this position statement to review in-depth how social media use has transformed clinical practice, with a particular focus on neurologic practice, and, by exploring the relevant principles in the CPC, to provide an ethical framework for neurology professionals and trainees to consider when engaging in social media. This statement complements the CPC; it is not a replacement for the AAN Web site’s Code of Conduct, Privacy Policy, or Terms of Service.

The use of social media has become nearly ubiquitous. Social media applications are widely available, free or of low cost, and not limited by geographic or temporal boundaries. Nearly 70% of adults in the United States use at least one social media platform. The most frequent consumers of social media are those between 18 and 29 years of age, but the number of older consumers has continued to increase over the years, especially between 30- and 49-year-olds. While use of social media is equally common across divisions of race and sex, it remains most frequent among those with some form of college education. More than half of adults use social media in the United States to obtain health care information, and this number is expected to continue to grow.

Among physicians, 90% use at least one social media modality in their personal lives, and 67% use one professionally. Among the many social media applications, health care systems most commonly use Facebook and YouTube for marketing; Twitter, LinkedIn, Instagram, and blogs play an important role in professional communities.

Social media has transformed personal and professional lives, raising important ethical questions for health care and clinicians. We review the medico-ethical challenges that the advent of social media presents, with special attention to issues facing neurologists. Existing ethical principles and norms of professional communication can and should serve as the framework for guiding the professional use of social media by neurologists and other clinicians.
How Social Media Has Enriched the Medical Profession

Information Exchange, Distribution, and Networking

Social media enables professional connection and networking. Through social media, trainees engage with national societies earlier in their career, leading to service on a national committee and relationships with leaders in the field. Joining Twitter accelerates professional development and uncovers opportunities that otherwise would have been difficult to access. Participation in social media is helpful for amplifying the impact of one’s work and providing new opportunities for academic scholarship. Social media provides access to unparalleled professional development opportunities. Altmetrics is quickly emerging as a novel metric for quantifying the dissemination, discussion, and impact of online contributions, and it might eventually be used as a metric in the academic promotion process. Using social media purposefully can (1) amplify brand-building efforts such as speaking engagements, medical journal articles, or news media engagements; (2) advance one’s professional passions; (3) teach patients and the general public; (4) attract patients; and (5) publicize research. Networking not only leads to peer-to-peer referrals—Twitter users also report that patients have self-referred after following specific neurologists’ tweets.

All of these opportunities require careful forethought and crafting. Simply signing up and using a given platform will not lead to success. A first step for an individual or an organization is to establish clear goals for use of social media—setting the direction for a social media plan, defining priorities, and ensuring conveyance of intended messages. For clinicians and health care organizations, improving the health of patients and the broader community should be the foremost goals in any social media plan, taking precedence over personal and economic goals, as required by the ethical principles of beneficence and justice.

Education and Research

Use of Internet-based platforms and social media has changed the landscape of education dramatically in recent years. Free Open Access Medical Education and Free Open Access Radiology Education describe new methods of medical educators aiming to provide trainees with access to free online educational resources. Within neurology education specifically, several existing programs—such as problem-based learning and case discussions for neurologic intensive care unit nurses—and rapid dissemination of information in the field of neuropathology—may have the potential to improve primary and continued medical education. On the other hand, use of social media in graduate medical education revealed mixed results regarding effect on education, recruitment, and professionalism. Similarly, social media–based interventions have thus far had poor results in the dissemination and implementation of clinical practice guidelines: social media–based dissemination methods did not confer additional benefit over print-, email-, or Internet-based methods in increasing awareness and changing intent in physicians or patients.

Utilization of social media for research is another growing trend. Many investigators post their ideas and trials on professional platforms, eliciting more immediate and widespread discussion and communication than was previously achieved through traditional media. Furthermore, announcing clinical studies via social media has successfully facilitated community consultation and public disclosure activities. Recruitment of potential study subjects using social media is still a relatively new phenomenon, and it might bring advantages, but also dilemmas. Social media has a diverse group of users and may be one avenue for researchers to begin to locate and recruit a more diverse sample, but it might be complicated by the number of popular social media platforms available to the public and the limitations posed by selection bias. Another recently reported application of social media was a move for drug repositioning to accelerate drug development in Parkinson disease where, without social media, such development would likely be delayed.

Patient Education, Counseling, and Treatment

The role of physicians includes not just treatment of patients in the office or hospital, but also education to advance patients’ and families’ overall knowledge and understanding of health and health literacy, a task that has taken on new dimensions with universal access to and distribution of information online. This role accords with the principle of beneficence, which requires clinicians to act to promote their patients’ health, and the principle of justice, which requires clinicians to consider the effect of their actions on other members of their community beyond their current patients. The wide availability of and easy access to information on social media and the Internet adds to clinicians’ responsibility to educate the public and to protect our patients from misinformation: if we, as clinicians, do not provide accurate information, the public may be exposed to misinformation that is widely shared on social media. Verification of information presented online is difficult, and it has been shown that the rate and speed of false information diffusion through online media is nearly 10-fold greater than the rate and speed of true information diffusion. These findings hold true also in
content specific to neurology: an analysis of Korean videos on Parkinson disease revealed that videos with reliable content were less popular than videos with misleading content. Furthermore, content on media available for patients and families may not always present information in a balanced manner. A study searching Facebook and Twitter for public accounts on epilepsy found that provision of information and correction of common misconception in epilepsy was the most common theme, and surgical options were only mentioned in 1% of posts. Another illustration of the power and potential value of social media is presented in a qualitative analysis of the a Twitter hashtag referencing patients’ negative experiences with their doctors (#DoctorsAreDickheads). Among the 40,000 posts associated with this viral hashtag, the most commonly mentioned conditions included chronic pain and mental health, both themes very relevant to the field of neurology. Specific issues identified included physicians’ disbelief in patients’ experiences and power inequity between patients and clinicians. This analysis highlights how social media shapes the public’s view of medical professionals’ behavior, and also offers an opportunity to learn about patients’ needs and strategies to improve in communication with patients.

How can social media enhance treatment? For physicians, social media can be one way to stay abreast of the latest research findings in their field and a source of medical education and discussion. Examples include “tweetorials” and case studies or pictures used as diagnostic tools to illustrate features such as ptosis or facial palsy.

When faced with her son’s acute illness and acute flaccid myelitis, one neurologist found that, despite being a medical professional specializing in the diagnosis and treatment of the disorder that was afflicting her child, she still experienced important gaps between his inpatient and outpatient care. Through a Facebook group, she gained information on recommended rehabilitation experts, electrical stimulation devices and settings, and templates for letters to insurers. Furthermore, social media opened pathways through which knowledge could flow back to medical professionals. In a study evaluating a Facebook support group for liver transplant patients, integration of social media into clinical practice empowered surgeons to synthesize a patient support community, augmenting patient engagement and satisfaction. In a systematic review on the effect of social media on chronic disease, 48% of studies indicated some benefit, 45% were neutral or undefined, and 7% suggested harm. Among studies that showed benefit, 85% used either Facebook or blogs, and 40% were based within the domain of support. In the face of changing online landscapes, these data are likely also subject to change, but 2 main messages remain. First, it is evident that in the right setting, employment of social media might greatly enhance individual patient or caregiver journeys. Second, given these findings, an important question for clinicians is how much—if any—information regarding social media support groups that could potentially enhance traditional approach to care are we obliged to share?

In analyses of health care–related hashtags on social media, patients and patient advocates made the majority of posts, but physician use is steadily growing. The World Medical Association’s Declaration of Geneva pledges health care professionals to “share medical knowledge for the benefit of the patient and the advancement of healthcare.” Social media may be an attractive mechanism for meeting this ethical and professional obligation, especially during the coronavirus disease 2019 (COVID-19) pandemic and other public health emergencies when regular access to in-person information and treatment are limited. In such situations, innovative approaches are necessary to ensure continuity of care and broad access to updates as well as forums to interactively ask questions.

Recommending social media resources to patients and families may also carry some risk of harm. As outlined above, diffusion of false information is a common problem. For some social media users, the perceived need to be online may result in compulsive use of social networking sites, which—in extreme cases—may result in symptoms and consequences traditionally associated with substance-related addictions, including fear of missing out (FOMO) and smartphone addiction as well as nomophobia (no mobile phone phobia).

Participation in Social Media and Associated Challenges

The traditional ethical principles of beneficence and justice, combined with our duty as physicians to inform, not only permits, but may encourage use of social media for networking, education, research, and patient care. However, these principles have to be weighed against the principles of primum non nocere (above all, do no harm), right of privacy, and confidentiality.

How to Conduct Oneself When Using Social Media

When considering how to conduct oneself, the existing norms of professional communication, rooted in the established principles of medical ethics, serve as the starting point. Contemporary medical ethics, including the ethics of professional social media use, can be understood and framed by a system known as principlism: patient autonomy, beneficence, nonmaleficence, and justice. The principle of respect for autonomy requires clinicians to respect patients’ inherent right of self-determination, to promote patients’ control over their own medical care, and specifically to allow patients to make informed and uncoerced decisions to consent to or refuse medical interventions. The principle of beneficence requires clinicians to promote their patients’ welfare and health. The related principle of nonmaleficence requires
To be cognizant of and maintain standards of patient privacy and confidentiality | Nonmaleficence and autonomy
---|---
To follow ethics guidance regarding confidentiality, privacy, and informed consent | Nonmaleficence and autonomy
To use privacy settings to safeguard personal information and content to the extent possible with the understanding that privacy settings are not infallible and that information once posted on the Internet is difficult or impossible to erase | Nonmaleficence
To maintain appropriate boundaries of the patient-physician relationship | Beneficence and nonmaleficence
To consider separation of personal and professional content online | Nonmaleficence
To bring unprofessional content to attention | Nonmaleficence
To recognize that actions online and content posted may have consequences | Beneficence and nonmaleficence
To avoid use of social media that distracts from or otherwise impairs clinical care | Beneficence and nonmaleficence

Clinicians to avoid and avert harm to their patients. The principle of justice requires that clinicians take into account the effect of their actions on society, and attempt to ensure that the benefits and burdens of health care are distributed fairly. In our view and in the view of many medical ethicists, the principle of autonomy also requires clinicians to communicate honestly, out of respect for their patients as autonomous ends in themselves.36,37

Each of these principles applies to professional communication on social media, just as they do to professional conduct and communication in face-to-face interactions. For example, the principles of nonmaleficence and autonomy prohibit the publication of confidential clinical information or images without informed consent. The principles of beneficence and justice support the dissemination of accurate health information, such as the results of clinical studies, for the purpose of public education. The principles of both nonmaleficence and beneficence also demand that sharing or posting of false information be avoided, requiring proper fact-checking and vetting of information prior to dissemination—action items that require awareness and digital literacy.38 Another challenge with digital media, when compared to traditional media, is that they extend beyond spatial and temporal constraints. As a result, norms of communication widely accepted in one part of the world might not be standard in another, where social media outlets still will reach.

With regard to regulatory bodies, it is important to recognize that improper use of social media can adversely affect the clinician. Credentialing and licensing authorities as well as boards have the authority to impose restrictions or limit licenses.39 Furthermore, use of social media can invoke complex legal issues, and awareness that most social media content will be considered discoverable is important.39

Many societies and professional organizations have issued policies on the use of social media. The American Medical Association (AMA) issued a policy on the use of social media in 201040,41 and the American College of Physicians and the Federation of State Medical Boards together issued guidelines on online medical professionalism in 2013.42,43 Examples of the application of principism are shown in Table 1. The case example shows a possible scenario when engaging social media and analyzes the ethical principles involved.

These norms for professional communication, applied in the setting of social media, raise several additional important questions. We can generalize the core ethical principles to circumstances not covered by the norms published by professional organizations.

### What Is the Clinician’s Responsibility for Ensuring That Privacy Is Maintained on Social Media?

Social media is qualitatively different from (and less secure than) software platforms built specifically for secure clinical use in compliance with the Health Insurance Portability and Privacy Act (HIPAA). Privacy concerns may limit the use of social media in the health care system.43 Proprietary HIPAA-compliant health care portals operated by hospitals and other health care institutions may attempt to use some selected features of social media applications with enhanced privacy and security. However, data breaches on social media are common, often unforeseen, and outside the control of both users and social media companies. In some documented cases, social media companies have themselves participated in or allowed data breaches.44,45 Private thoughts, writings, or photographs can rapidly become public through social media46 regardless of their users’ intentions. There is a false sense of privacy and anonymity inherent to online interactions, which may foster disinhibition and sharing of private information that would not ordinarily be publicized.47 A review of physician postings to Twitter in 2013 revealed that 1.9% of the tweets were labelled as “unprofessional.” Among these were posts that included information that could violate patient privacy.48 In a more recent analysis of Twitter data, patient names were mentioned in 2% of health care–related tweets by clinicians, and other elements of the tweets not traditionally defined as identifiers were judged identifiable by families or friends for nearly one third of the tweets, and even more when tweets pertained to patients who were still alive.49 These potential privacy violations are concerning because the reach of social media posts is potentially unlimited in geography and time, and because posts are often effectively irreversible once disseminated. Another consideration for maintenance of privacy is to use the blind carbon copy (BCC) function in email or email-like messaging when addressing a group, so that individual recipients cannot see each other’s contact information.
Does the Potential Risk of a Data Breach Require Clinicians to Avoid Posting or Communicating on Social Media, or Are There Constraints and Precautions Under Which Clinicians Can Use Social Media While Adhering to the Principles of Professional Ethics?

Given clinicians’ inability to guarantee the security and privacy of data posted on social media, the AMA’s recommendation is that clinicians refrain from posting identifiable patient information on social media without the written informed consent of the patient or legal surrogate. This guidance accords with the fundamental ethical principles of autonomy and nonmaleficence, which require clinicians to promote patient control over personal health information and to act to minimize risk of harm to patients and to their interests. Given the possibility of unauthorized use of posted data by social media companies or third parties, identifiable patient information should not be posted to social media in either public or private forums without explicit written informed consent. This is of specific importance when considering forums’ “private” or semi-private spaces, including for example Synapse. Given the possibility of unauthorized use of posted data by third parties, virtually no online forum should be considered fully private. The AMA also recommends that information posted to social media for educational purposes follow ethics guidance regarding confidentiality, privacy, and informed consent. As a heuristic, posting on social media (even in supposedly private forums) should only include material that could be ethically posted in an explicitly public venue such as a journal or newspaper.

We acknowledge that patients may post their own medical information, obtained through secure health care portals or from traditional sources of clinical information; however, clinicians should not be held responsible for medical information posted to social media by patients or other parties.

How Should Clinicians Maintain the Boundaries of the Patient–Clinician Relationship on Social Media?

Patient–clinician interactions take place on multiple levels within online social networks. Overall, these interactions are more typically initiated by patients than by physicians or physicians in training. How does one maintain trust, empathy, and reliability if communication about a specific topic gradually moves on to become a “friend request” or a “follow” on social media? Here again, it is useful to begin with the traditional framework of professional norms and guidelines rooted in ethical principles. Personal relations may inhibit the collection of a detailed history, the completion of a rigorous physical examination, or the objective evaluation of clinical evidence, and thereby violate ethical principles of beneficence and nonmaleficence. Traditional norms of professional behavior suggest that clinicians refrain from treating close friends, family members, or romantic partners when other medical care is available. When personal relationships do develop between a patient and clinician, professional guidelines recommend that the professional relationship should end, and that the patient should be referred to the care of another clinician. Similarly, romantic relationships between patients and clinicians are considered unethical when they occur during the professional relationship, or when the clinician later “uses or exploits trust, knowledge, emotions, or influence derived from” a prior professional relationship.

While these norms of ethical professional conduct can conceptually be applied directly to personal relationships involving social media, there is an added layer of complexity in...
that it is sometimes difficult to define a personal relationship on social media. Terms like “friends” and “followers” are commonly used on social media, but often do not imply the same meaning of personal friendship inherent to parallel offline relationships. While some social media “friends” may be close friends with the same emotional intimacy as close friends in the offline world, many social media “friends” and “followers” are acquaintances or even strangers with no emotional involvement at all. Social media interactions may cross geographic and cultural boundaries, and social norms and definitions of relationships, including personal friendships, may vary. The environment and specific setting may also play a role; not befriending a patient in a small town where people generally know each other has a different implication than not doing so in a metropole where there might be more anonymity.

Because the recommendations against providing care to a close friend, family member, or romantic partner are based on the emotional content of the relationship, these recommendations then would not necessarily apply to social media “friends” or “followers.” Social media “friendships” with patients are not prohibited, although a majority of physicians view online interactions with patients as ethically problematic due to confidentiality and pessimism about the actual quality of communication. If they do occur, clinicians are responsible for closely monitoring such relations for emotional developments, miscommunications, or unclear intentions that could undermine the professional relationship or cause harm to the patient. A specific challenge may arise when asked to provide medical advice on social media by followers or social media friends. Given that a social media relationship is not akin to a patient–doctor relationship, it is generally advised to refrain from offering individual medical advice on social media. This is also important from a legal perspective: health care professionals can expose themselves to lawsuits by providing medical advice via social media, especially in cases where there is no preexisting patient–provider relationship.

**Table 3 Examples of Do's and Don'ts in Use of Social Media for Neurology Professionals**

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<thead>
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<th>Do</th>
<th>Don’t</th>
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<tr>
<td>Apply the 4 principles of medical ethics and the American Academy of Neurology's Code of Professional Conduct when considering whether a specific social media post or interaction is ethical and professional</td>
<td>Post protected health information without the written consent of the patient involved</td>
</tr>
<tr>
<td>Utilize social media posts (including tweetorials) to educate patients and the public on matters of public health importance and to counteract misinformation</td>
<td>Provide individual medical advice over social media</td>
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<td>Conduct proper fact checking and scientific vetting of information that you post or repost</td>
<td>Post or repost false or misleading information</td>
</tr>
<tr>
<td>Post research ideas and announcements to solicit feedback and discussion from professionals, affected communities, and other stakeholders</td>
<td>Engage in harassment or vitriolic attacks or post offensive or intimidating material from professional social media accounts</td>
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<td>Consider potential limitations, such as selection bias, when using social media for research participant recruitment</td>
<td>Discriminate on the basis of categories such as race, ethnicity, socioeconomic status, age, gender, religion, national origin, or disability</td>
</tr>
<tr>
<td>Use social media to network with other health care professionals and initiate clinical, research, and advocacy collaborations</td>
<td>Post sexually explicit material to professional social media accounts</td>
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<td>Consider separation of personal and professional content online</td>
<td>Make posts or engage in social media relationships using professional social media accounts that violate the appropriate boundaries of the in-person patient-clinician relationship</td>
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<td>Be aware of restrictions on social media use by relevant professional, licensing, and regulatory organizations, and that social media posts are generally considered discoverable in legal matters</td>
<td>Engage in social media use that distracts from or impairs your clinical care</td>
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<td>Be aware that data breaches on social media are common, unpredictable, and sometimes outside the control of both users and social media companies</td>
<td>Make posts on social media platforms—even ostensibly private posts—that you would not wish to be seen on the front page of national newspapers</td>
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Surgeons that was subsequently retracted. Professional social media content among young vascular recently surrounding the publication of an article on wards race, gender, or other characteristics. This surfaced univocally agreed upon, and may be in immune diseases, the initiating posts were considered strictly elicited online commentary on vaccines or autoimmunestatements can be taken out of context and rephrased in encounters by patients or potential patients. Clinicians may encounter reputational challenges due to patient postings on their professional accounts or due to false ratings on social platforms. Practical advice provided by experts on cyberbullying is to refrain from answering publicly. Such situations may require a significant time investment to follow and monitor online postings and ratings and, if applicable, to attempt removal of false accusations or fake reviews. Monitoring one’s online reputation is also important, even for those physicians not active on social media. In addition to patients and the general public, 70% of employers query social media sites prior to hiring. 47

Table 4 Examples of How to Use Twitter and What Not to Do When Using Twitter 57, 58

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<tr>
<th>Do</th>
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<tr>
<td>Understand how to use Twitter for medical education using #MedEd, #MedTwitter, #NeuroTwitter Network, and #EndNeurophobia</td>
<td>Post unverifiable medical facts without links to the evidence</td>
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<tr>
<td>Lurk on Twitter to understand the proper use of @, #, reply, retweet, share, and like</td>
<td>Post tweets without considering downstream effects</td>
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<tr>
<td>Consider posting conflicts of interest in your Twitter bio</td>
<td>Post about your book or other personal project without making your conflict of interest clear</td>
</tr>
<tr>
<td>Consider participating in Twitter chats, especially in your subspecialty</td>
<td>Extend beyond your subspecialty knowledge on specialty topics</td>
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<td>Learn more about #medtwitter teaching with #medthread, #tweetorials, #tweet, and #postitipearl</td>
<td>Feel compelled to create unique content; you can just follow and learn from others</td>
</tr>
<tr>
<td>Use #hashtags carefully to allow others to find your content</td>
<td>#use too many hashtags in your tweet</td>
</tr>
<tr>
<td>Share positive examples of social media for education and professionalism</td>
<td>Allow unprofessional behavior on social media to be unchallenged without reaching out privately in a direct message (DM) to help others recognize the consequences of their actions</td>
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What Separates Clinicians’ Private vs Professional Profiles?

Posting of unprofessional content is common among clinicians and includes violations of privacy and confidentiality, as well as inappropriate language, sexually explicit material, and discriminatory statements. 59 When using a social media account for professional purposes, such posts could be perceived offensive or intimidate potential patients, and undermine existing clinician–patient relationships. However, the definition of what constitutes “unprofessional” may not be univocally agreed upon, and may be influenced by biases towards race, gender, or other characteristics. This surfaced recently surrounding the publication of an article on unprofessional social media content among young vascular surgeons that was subsequently retracted.

Just as traditional norms of professional conduct, informed by the ethical principle of nonmaleficence, prohibit offensive or intimidating behavior towards patients in person, they also prohibit such behavior on social media where it will likely be encountered by patients or potential patients.

Statements can be taken out of context and rephrased in adversarial ways. For example, when pediatric neurologists elicited online commentary on vaccines or autoimmune diseases, the initiating posts were considered strictly professional, but the reactions to them became rapidly personal. Some digital attacks against physicians have been well-orchestrated, methodical, and intended to cause deliberate harm. 61 Bound by physician–patient confidentiality, physicians may be unable to post replies in their defense.

Clinicians may encounter reputational challenges due to patient postings on their professional accounts or due to false ratings on social platforms. Practical advice provided by experts on cyberbullying is to refrain from answering publicly. Such situations may require a significant time investment to follow and monitor online postings and ratings and, if applicable, to attempt removal of false accusations or fake reviews. Monitoring one’s online reputation is also important, even for those physicians not active on social media. In addition to patients and the general public, 70% of employers query social media sites prior to hiring. 47

Professional Guidance Relating to Social Media

Professional organizations should prioritize encouraging clinicians to adhere to norms for professional communication in their social media communications. Emerging evidence suggests that teaching online etiquette improves online professionalism as well. 64 As social media has become more frequently utilized in health care, guidance for the bounds of acceptable and unacceptable behavior are available on increasing numbers of departmental, institutional, and professional society levels. 42 For example, the code of conduct specific to use of the AAN web site puts forth the rules and guidelines shown in Table 2; similarly, the AAN has put forth rules and etiquette guidelines for the use of listservs (see AAN’s Disciplinary Action Policy, reference provided in Figure 1). However, not all organizations have announced such guidance, and, if available, it is not always actively disseminated. An exemplary summary of do’s and don’ts in the use of social media for neurology professionals including guidance for use of Twitter as an example is provided in Tables 3 and 4. A case example of social media use with analysis is displayed in Figure 2.

Discussion

Increasing use of social media has expanded the availability and reach of medical information and social interactions, but it also carries important ethical obligations. Clinicians must adhere to core ethical principles and norms of professional behavior that have guided patient care for centuries, while updating and extending these principles to the novel domain.
of social media. Clinicians should challenge themselves to expand their traditional roles beyond the clinic or hospital setting and traditional ways of publishing. By using social media appropriately, clinicians can more broadly affect public health and medical literacy, an important service to provide at a time when information (and misinformation) is shared so extensively and rapidly. Timing and context of social media use affect how it is perceived; and yet, once something is publicized, it can be reposted, shared, or disseminated at any future time and in different contexts.35 As social media use grows, clinicians should aim to avoid moral pitfalls and public misrepresentation by aligning their professional social media communications with established norms of professional conduct. Interaction with social media has become a critical element in both individual and professional life, and current clinicians and trainees need to be educated in its use. Despite its many challenges, social media provides opportunities to greatly enhance our ability to improve the lives of our patients and to enrich our professional lives. The growing importance of social media in health care has accelerated dramatically during the COVID-19 pandemic65 and is likely to continue for years to come.

Acknowledgment

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Appendix Authors

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