COVID-19 is catalyzing the adoption of teleneurology

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The coronavirus disease of 2019, or COVID-19, changed the world within a matter of weeks. The primary action to constrain the spread of the virus is social isolation. Given this public health principle, and the shortage of personal protective equipment during the global pandemic, all health care stakeholders need to reconsider the indications for face-to-face health care encounters in providing patient care. Which encounters are imperative and which ones can be switched to non–face-to-face care? What changes in laws, regulations, payment policies, and workflow are needed to enable this transition?1–3

Remote or non–face-to-face care models, in which the patient is geographically separated from the physician or other qualified health care professional, are enabled by communication-based technologies. They have existed for decades, but widespread implementation has been constrained by laws, regulations, and policies at national, state, and organizational levels. Federal and commercial payers have not covered many of these services. Until recent years, the evidence for their effectiveness compared with traditional care models has been sparse.4,5

The general terms for many non–face-to-face care services are “telehealth” or “telemedicine,” from the Greek word for “far.” Many think of telemedicine as consisting exclusively of real-time interactive or synchronous audio and video communications between a patient and a provider. There is a wide spectrum of other telehealth services including telephone communication; asynchronous digital services including email, text messages, and remote monitoring of patient data such as images or physiologic parameters; and provider-to-provider communications.6

Many evaluation and management services can be performed remotely. The first use of telemedicine in neurology was in stroke evaluation at hospitals where neurologists were not onsite. Evidence showed noninferiority of telestroke evaluations compared with face-to-face encounters. Today, “teleneurology is neurology” in a wide variety of clinical settings.7

The COVID-19 crisis stimulated policy makers, regulators, and payers to encourage expanded use of remote health care. Policy restrictions were loosened or lifted. Many telehealth services are now reimbursed with few associated administrative burdens. Neurologists, regardless of setting, should consider incorporating telehealth into their practice. It is imperative to rapidly understand current local and federal laws, regulations, and coding and reimbursement options and stay informed because laws, regulations, and reimbursements may change by the day. For example, providers may now be reimbursed for Medicare patients using traditional evaluation and management coding for telehealth visits regardless of patient location, including the patient’s home.8 Per Centers for Medicare and Medicaid Services, providers licensed in any US state may now practice telehealth in other states without additional licensing, if state laws allow this.9,10

Providers must remain vigilant to understand their state’s laws and each individual payer’s policies including use of modifiers and eligible patient populations. Payments by payers within a state vary based on existing parity laws,10 temporary mandates during the emergency period of COVID-19, contract negotiations, and individual payer policy decisions. Furthermore, these rules and regulations may change frequently requiring practices to rereview their contracted payer websites, contacting the payers directly, and/or reaching out to their state medical or neurologic societies. The American
Academy of Neurology has developed online resources on how to provide telemedicine and remote care services\(^1\) and telehealth coding.\(^2\) The information will be regularly updated.

Although COVID-19 did not alter telehealth-related Current Procedural Terminology, new non-face-to-face service codes were added in 2020.\(^3\) Practices can benefit from refocusing efforts and fully understanding the spectrum of telehealth codes. Providers may be paid not only for traditional telemedicine but also for evaluation and management services based on online work, interprofessional consults, or telephone encounters.\(^4\) However, practices must diligently review each contracted payer’s policies to determine applicable payments. Developing a telehealth-based fee schedule to understand coding and reimbursement implications across payers may help administration and providers.

Workflow and staffing functions need to adapt to telehealth services as well. Staff needs to support scheduling. Technology needs to integrate electronic medical records with telehealth applications if practical and ensure that providers and patients can connect with one another via the telehealth platform. Billing, prior authorizations, managerial oversight, and additional clinical concerns such as prescribing need to be addressed. Depending on the size of one’s organization and staffing capabilities, there may be value in creating rotating teams to manage clinic functions in the office or via telehealth. Student and resident education must also be reconfigured to consider their roles whereby they may still see patients via telehealth supervised by the attending to discuss best clinical management.

Providers, administrators, hospitals, and networks will benefit from developing models in telehealth to project the economic impact on their practices and institutions. Depending on the organization size and structure, they may need access to cash and consider overhead reductions to keep their doors open if reserves dwindle due to diminished reimbursements. Consideration should also include small business loans, lines of credit, or other options. Department leadership should be ready for conversations with their hospital or enterprise leadership about projections and ramifications. A sensitivity analysis should consider the impact of an ongoing crisis that may last weeks to months.

In parallel, practices should begin considering what a post–COVID-19 world may look like. The impact of telemedicine in practices is unlikely to recede as this changing paradigm will leave an indelible imprint on new and valued opportunities of care between providers and patients. As practices build or enhance their telemedicine capabilities, they may benefit from ensuring that their model is built on a strong, reliable infrastructure, with the ability to scale, and become embedded within normal operations after the crisis resolves.\(^5\)

Over time, leadership will also want to understand each provider’s strengths and weaknesses associated with telehealth for ongoing utilization. Telemedicine is a specific audiovisual communications technology, requiring authentic engagement and rapport, provider and patient placement, room staging, nonverbal communication strategies, appropriate documentation, and time management.\(^6\) Not every neurologist may be comfortable with performing a high volume of telemedicine services due to lack of social interaction with colleagues.

The global pandemic will have a lasting effect on society. If there are positive consequences to be considered, they could include a stronger sense of community and ongoing dissemination and implementation of telehealth services that improve population health, patient care, and lower costs.

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**References**

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