

# EQUUM MEDICAL TELE-NEUROLOGY

NEUROLOGIC CARE ON-DEMAND TO IMPROVE ACUTE STROKE OUTCOMES AND HOSPITAL THROUGHPUT



EQUUM MEDICAL



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## INNOVATIVE & COLLABORATIVE

Equum is committed to continuously improving patient safety through innovative solutions that couple people, process and technology, ensuring that hospitals can adapt to the evolving needs of patients and staff.

# BACKGROUND & MARKET CHALLENGE

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Stroke and other neurologic emergencies require immediate expert assessment, yet many hospitals lack a neurologist on-site, especially during nights and weekends. Every 40 seconds someone in the U.S. has a stroke, and timely intervention is critical to prevent death and/or decrease disability. However, not all patients have access to stroke specialists: rural patients face higher stroke mortality in part due to long travel times and lack of neurologist availability ([www.heart.org](http://www.heart.org)). Even in urban areas, an ongoing neurologist shortage means on-call coverage can be limited ([www.heart.org](http://www.heart.org)). As a result, community hospitals often must transfer stroke patients to distant tertiary centers for care, or treat them without specialist input. From an operational standpoint, the absence of neurologists can bottleneck the emergency department and ICU. Hospitals also incur high costs from avoidable patient transfers and lost revenue when stroke patients bypass the facility.

## OPPORTUNITY & SOLUTION — TELE-NEUROLOGY/TELE-STROKE

Tele-Neurology brings stroke neurologists and other neurology specialists into hospitals virtually, on demand. Equum Medical's Tele-Stroke service enables even the most remote hospital to rapidly connect with an expert neurologist via secure video. This means immediate guidance on stroke protocols – from interpreting CT brain scans to deciding on thrombolysis or thrombectomy – without waiting for an off-site physician. The impact on care is profound: studies show that telestroke networks lead to significantly better outcomes, including lower 30-day mortality rates compared to hospitals without telestroke ([www.heart.org](http://www.heart.org)). Telehealth guided stroke care also increases the use of clot-busting medication: one multi-center study found telemedicine in rural hospitals raised tPA usage by over 10% ([www.heart.org](http://www.heart.org)), and another reported virtual stroke care increased tPA administration rates in community hospitals by as much as 55% ([www.heart.org](http://www.heart.org)). These data underscore a major opportunity for hospitals to save lives and prevent disability. Beyond stroke, tele-neurologists can assist with seizures, traumatic brain injury, and more, expanding a hospital's capability to manage complex neurology cases.

# TELE-NEUROLOGY SERVICE CAPABILITIES

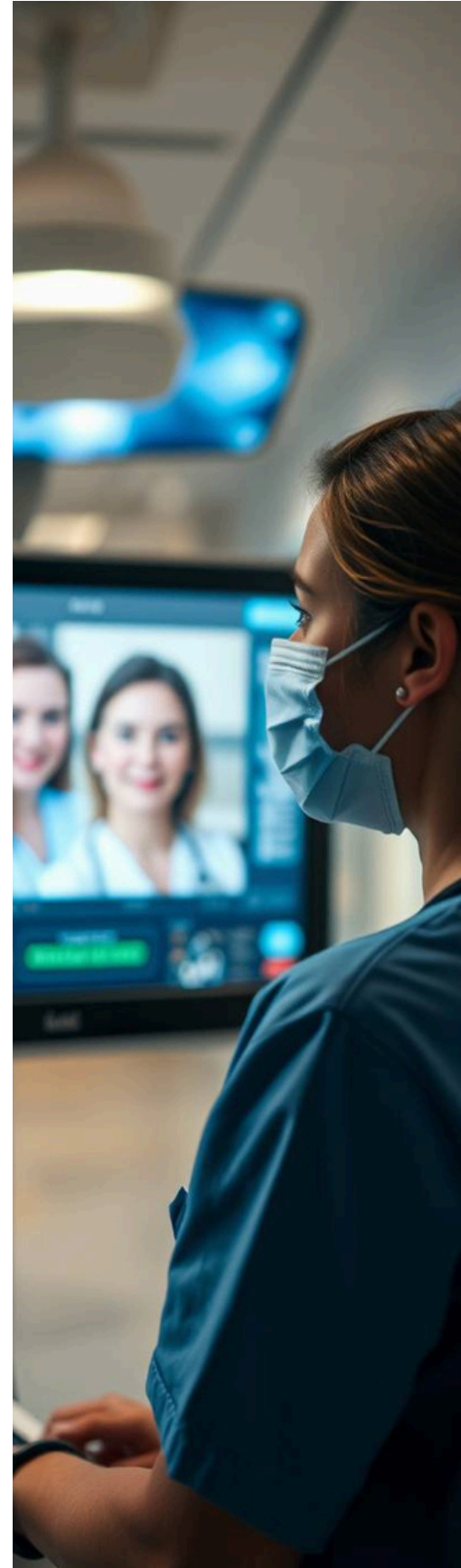
*Equum Medical's tele-neurology offering is a comprehensive acute neurologic care solution.*

## KEY FEATURES AND CAPABILITIES INCLUDE:

**24/7 On-Demand Neurologist Access:** Equum provides around-the-clock availability of board-certified neurologists and stroke specialists. The moment a patient with stroke symptoms or other neurological emergency arrives, the care team can request an immediate tele-consult.

**Expert Acute Stroke Management:** Equum's Tele-Stroke specialists guide local clinicians through every step of acute ischemic stroke care. They quickly evaluate patients via video, perform NIH Stroke Scale assessments, and review CT/MRI results in real-time. Based on evidence-based guidelines, our neurologists provide orders or recommendations for IV thrombolysis and can facilitate decisions about mechanical thrombectomy at a specialized center if needed. All of this happens within the critical treatment window, giving patients the best chance at recovery.

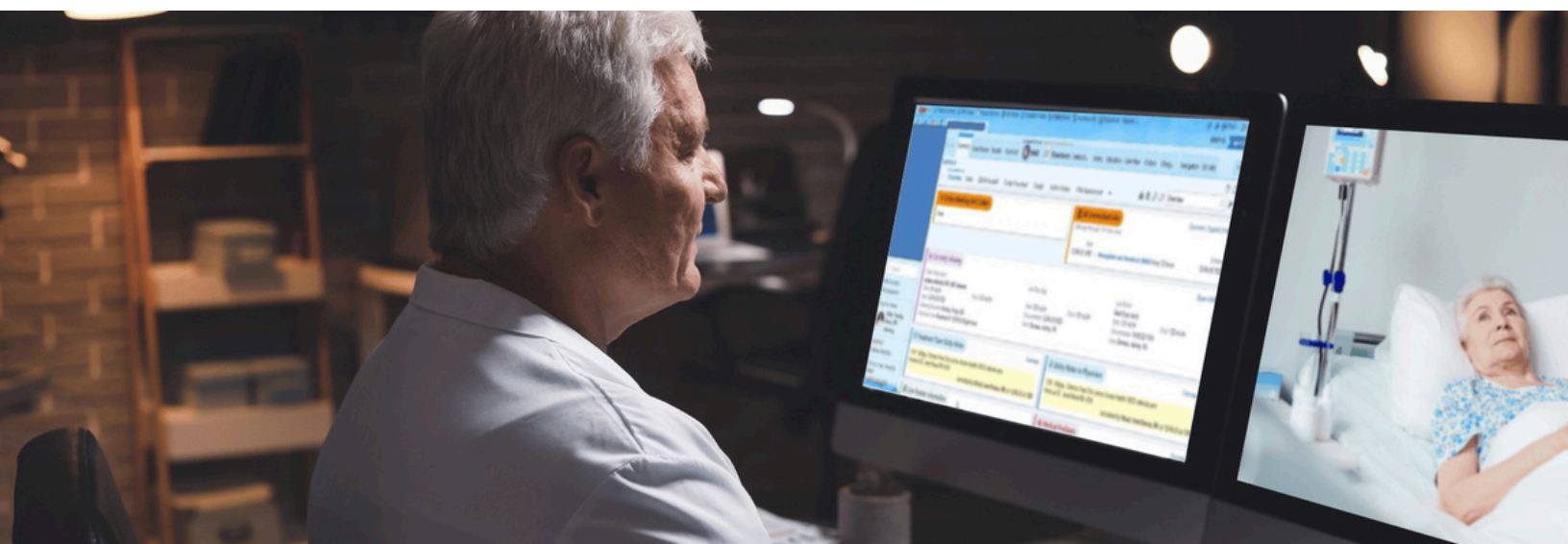
**Comprehensive Neurology Consultations:** In addition to stroke, our tele-neurologists are available to consult on a range of conditions – from acute altered mental status (possible encephalopathy, meningitis, etc.) to status epilepticus, neuromuscular crises (like Guillain-Barré), and more. They can support emergency physicians in diagnosing complex neurological presentations and advise on management, including ICU-level neuro care (e.g., intracerebral hemorrhage blood pressure management, seizure protocols, etc.). This breadth of expertise means your hospital has a virtual neurology department on call at all times.



**Care Coordination and Transfer Guidance:** Equum's team doesn't just give one-time advice; we can remain involved as needed throughout the patient's ED and inpatient course. Our tele- neurologists help determine if a patient can be treated and monitored safely at the local hospital or if transfer to a higher-level neuroscience center is warranted. If transfer is needed (for neurosurgery or interventions not available locally), we provide documentation and recommendations to expedite that handoff. If the patient stays, we can follow up with virtual rounding and clinical oversight. This coordination ensures continuity of care and optimal use of resources – keeping patients local whenever possible and transferring only when absolutely necessary.

**Data-Driven Performance Monitoring:** As part of our service, Equum provides hospitals with reporting on key metrics such as door-to-needle times, tele-consult response times, and clinical outcomes for stroke patients. We help partner hospitals track improvements in stroke care benchmarks (for example, rates of tPA administration, time to neurology consult, etc.) and identify areas for further optimization. Our quality team works with you to continuously refine protocols, conduct case reviews, and ensure that the tele-neurology program is delivering maximum value in line with national stroke standards.

**Integration & Compliance:** Equum's tele-neurology platform integrates with hospital imaging systems (so our neurologists can view scans remotely) and electronic health records for seamless documentation. We ensure all consultations are HIPAA-compliant and adhere to best care practices. Equum assists with credentialing our neurologists at your facility and navigating licensure across state lines, so that regulatory compliance is maintained at every step.



# BENEFITS TO HOSPITALS

*Implementing Equum Medical's Tele-Neurology service yields significant benefits for hospitals, administrators, and, most importantly, patients:*



**Improved Patient Outcomes:** With tele-neurology, patients receive specialist care during the most critical moments of a stroke or neurological event, leading to better outcomes. Faster treatment translates to reduced stroke-related mortality and disability ([www.heart.org](http://www.heart.org)). By increasing the administration of time-sensitive treatments like tPA or TNK, hospitals can dramatically improve patients' chances of recovery and functional independence.

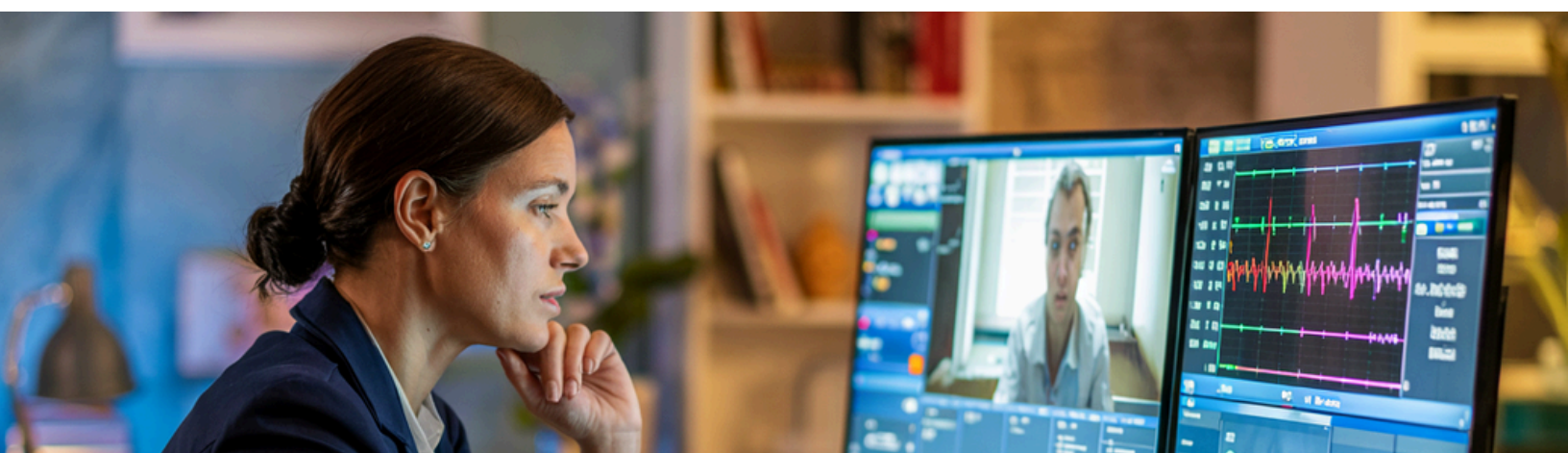
**Enhanced Emergency Department Throughput:** Having neurologists instantly available helps streamline ED workflow. Emergency physicians can immediately hand off a complex neuro case to the tele-neurologist for assessment, allowing the ED team to continue caring for other patients. Treatment decisions can be made within minutes, and the patient proceeds to appropriate therapy or disposition. Overall ED length of stay for neurologic cases declines, improving throughput and wait times for all patients.

**Retention of High-Acuity Cases & Revenue:** Tele-Neurology enables community hospitals to treat more stroke and neuro patients in-house that previously would be diverted or transferred. By managing suitable cases locally (with expert guidance), hospitals can retain those admissions and associated revenues. Avoiding unnecessary transfers not only saves significant transport costs but also keeps patients and families within their community hospital, which can enhance the hospital's reputation and market share in stroke care.

**Cost Savings & Efficiency:** Instead of trying to recruit scarce neurologists or paying costly on-call stipends, hospitals leverage Equum's service for specialist coverage. This reduces staffing expenditures while still providing top-tier care. Tele-neurology also helps avoid the downstream costs of untreated strokes (such as prolonged rehabilitation or long-term care costs) by facilitating early intervention. In fact, studies have found telestroke programs can save hospitals over \$350,000 per year by reducing disability and post-acute care needs ([heart.org](http://heart.org)). Additionally, by improving processes like door-to-needle time, hospitals may qualify for performance incentives and stroke center designations, which can have financial benefits.

**Expanded Capacity without Additional Bed Space:** Equum's virtual neurologists effectively expand your hospital's capacity to handle surges in neurologic emergencies. For instance, during multiple simultaneous neuro cases, our team can handle consults in parallel – something a single on-site neurologist might struggle with. This means your hospital can manage a higher volume of acute cases without saturating your on-site resources, leading to more resilient operations.

**Quality of Care and Patient Satisfaction:** By delivering rapid, expert care, tele-neurology boosts patient and family confidence. Patients receive immediate answers about their condition from specialists, and families appreciate that everything possible is being done in a timely fashion. Tele-stroke patients have reported higher satisfaction and perceived quality of care compared to those at non-telestroke hospitals ([www.heart.org](http://www.heart.org)). Keeping patients in their home community when appropriate (rather than transferring far away) improves satisfaction and continuity. Equum's service helps hospitals demonstrate a commitment to cutting-edge care, which reflects in patient experience scores and community trust.



# ENGAGE WITH EQUUM MEDICAL

## BECAUSE, WE'RE HERE TO HELP

Explore how Equum can help elevate your virtual patient observation program:

### EMAIL ADDRESS

[Info@equummedical.com](mailto:Info@equummedical.com)

### TELEPHONE

1.833.240.8966

### WEBSITE

[equummedical.com](http://equummedical.com)

Engage with Equum today to strengthen patient safety, relieve staff burden, and unlock long-term savings through the power of smart, outsourced Tele-sitting.



BRIDGING THE HEALTHCARE GAP  
THROUGH TECHNOLOGICAL INNOVATION.

