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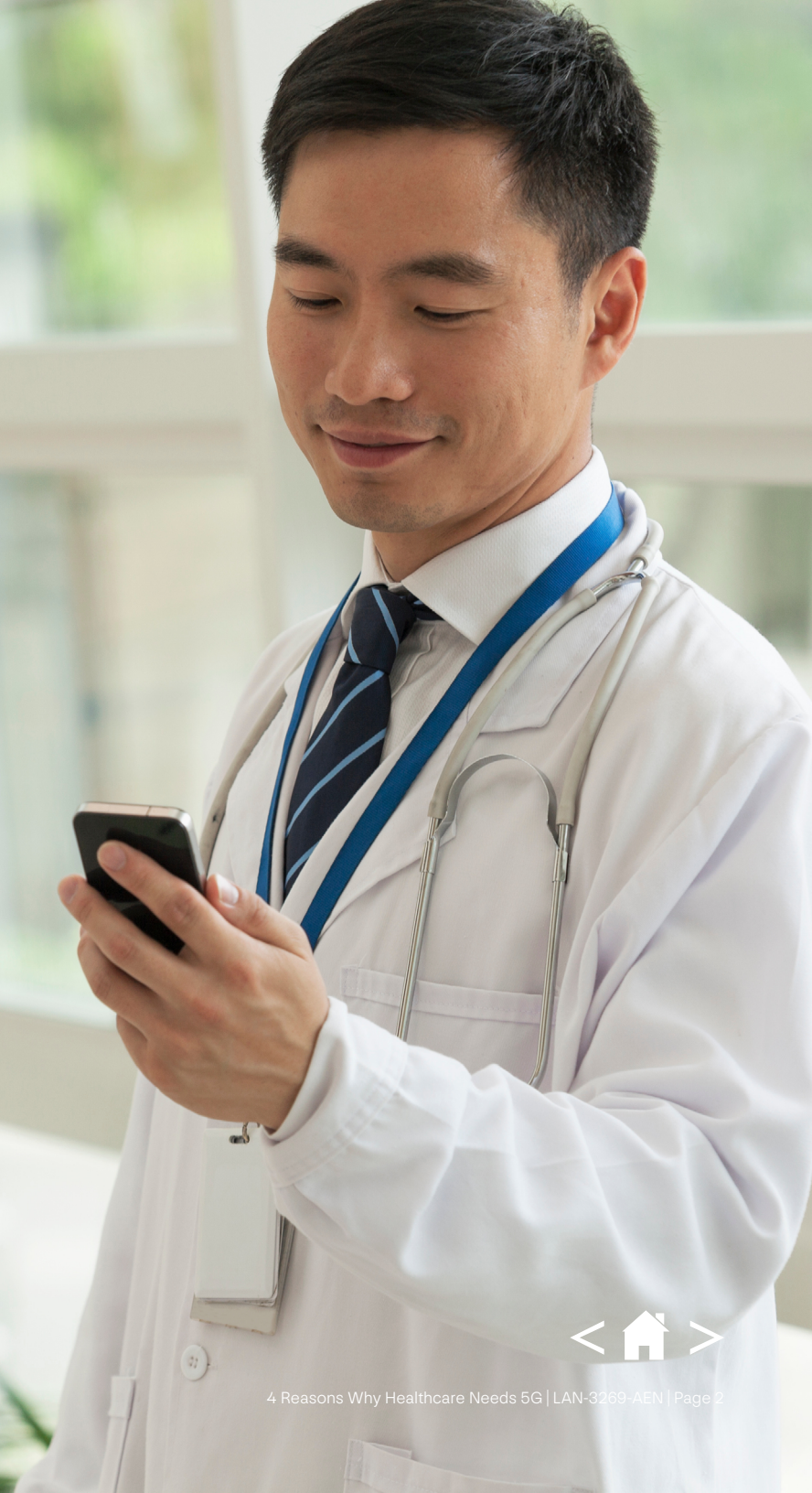
# 4 Reasons Why Healthcare Needs 5G



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# 5G: The Foundation for Healthcare Technology

5G is now the global cellular standard. Why? Because only 5G has the capacity to support today's technologies and keep up with the explosive pace of new developments. From patients and visitors to medical staff, vendors, and management teams, 5G offers the easy connectivity, flexibility, reliability, and high speed they need to stay in touch and drive results.





# 5G Offers a Foundation for **New** Technology



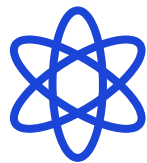
# What is 5G?

5G is the current standard for cellular voice and data communication. It not only solves the challenges of previous cellular generations for today, it has the extreme speed and data capacity to support long-term growth as well.

5G operates using higher-frequency wavelengths with more towers and local antennas than previous cellular systems. That makes it significantly faster, more responsive, and able to handle more devices and information.



**Up to  
100x faster**



**Connect  
250x more  
devices**



**Near  
zero lag**



# 4 Reasons Why Healthcare Needs 5G



Medical and operational innovation is moving fast. To make the most of new opportunities for your patients, staff, and business, you need a network that can keep up. Connect your teams to each other and advanced technologies throughout the healthcare system with 5G.

- Medical practices
- Clinics
- Urgent care
- Outpatient surgical centers
- EMS/ambulance
- Hospitals
- Home health agencies
- Telehealth
- Remote medical specialists and patient monitoring
- Continuing education and certification
- Medical schools and training programs
- Equipment vendors and industry advisors
- VR/AR applications
- Remote/robotic surgery



# Improve Patient Experience

According to the Agency for Healthcare Research and Quality (AHRQ), improving patient experience leads to many benefits for both patients and their healthcare organizations, including:

- Better health outcomes
- Higher adherence to medical advice and treatment plans
- Greater employee satisfaction and retention
- Stronger patient loyalty
- Lower risk of malpractice actions

One simple way to improve patient experience is to keep them connected to their family, friends, doctors, and the information they need to make good healthcare decisions throughout their interaction with your facility and teams. As part of your network, 5G cellular also seamlessly connects your staff to advanced technologies that can deliver better, potentially life-saving outcomes for your patients, plus the high productivity and cost-efficiency you need for your business.





## Keep Staff Connected

Healthcare is facing unprecedented clinical and non-clinical staffing challenges. According to the National Institutes of Health, 50% say they feel burned out. Staff who care for young children or other family members also report they worry about not being reachable during their shifts. The vast majority complain about poor cellular coverage inside their workplace, especially the notorious hospital “dead zones.”

One way to alleviate stress is creating an environment that balances the needs of the business and the people who work there. Reliable connectivity can play a big role. 5G, integrated into your network, can save you money by helping to grow employee morale and retention while improving operational efficiency.







## Enable New Workflows

Many of the operational procedures that healthcare organizations implemented during the COVID-19 pandemic have become the new standards. Virtual waiting rooms, remote check-ins, telehealth, and more have proven popular with patients, their caregivers, and medical staff because of their convenience. 5G can also improve operational efficiency inside your buildings, enabling wayfinding, advanced clinical communications, centralized inpatient monitoring, and real-time asset management.



# Support Next-Generation Smart Devices

According to Deloitte, there are over 15 million connected medical devices in U.S. hospitals today – that's about 10-15 per bed. The number is expected to grow by 1,000x within the next decade. Is your organization ready?

With fast, reliable 5G built into your network, you'll have the real-time signal capacity to leverage the Internet of Medical Things (IoMT) to provide exceptional care while growing efficiency and reducing cost. From infusion pumps to gurneys and handwashing stations, more and more essential equipment has embedded technology, even everyday consumables.





# A Wireless-first Design Delivers a **Future-proof** Network



# 5G for Healthcare Planning Checklist



## Assess what's working and what isn't.

Survey your staff and conduct a radio frequency (RF) analysis to create a cellular map. Together this will identify dead zones and other coverage issues.

## Inventory your infrastructure.

Understand what network equipment you have; e.g., locate your DAS units and note their age, make, and model.

## Understand your current usage.

Find out your daily maximum, minimum, and average cellular usage and load data.

## Brainstorm with your internal stakeholders.

Create a detailed “wish list” for current and future needs, then prioritize. Include multiple departments, like clinicians, facilities management, finance, HR, and administration.

## Cultivate a leadership champion.

Find a change-agent member of senior leadership who can promote your 5G initiative and help navigate roadblocks.

## Meet with telecommunications providers.

Once you've documented your current state plus needs and priorities, you're ready to talk with cellular company representatives.

## Choose your 5G network team.

Find expert partners who will guide you through the process, always keeping your best interests in mind. Reach out to healthcare organizations that have already implemented 5G for recommendations.

## Research flexible technologies.

To maximize cost efficiency and ensure you have the bandwidth you need for future growth, consider a fiber optic network solution that delivers both 5G cellular and reliable hi-speed internet/Wi-Fi in one.





# Forward-thinking Organizations Are Investing Now





# Let's Get Started!

Forward-thinking organizations are investing now.

Visit [www.corning.com/healthcare](http://www.corning.com/healthcare) to begin your 5G journey with us.

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