

THE STATE OF: DIAGNOSTIC IMAGING SYSTEMS

INNOVATIONS BY CONTEC IN PATIENT-
CENTERED IMAGING SOLUTIONS.



The State of Diagnostic Imaging Systems: **Innovations by Contec in Patient-Centered Imaging Solutions.**



Intro

In the years leading up to the Covid-19 pandemic, the accessibility and utilization of diagnostic imaging systems worldwide saw steady but incremental improvements. These advances were driven by increased healthcare investments and rapid technological progress, which enhanced both image acquisition speed and quality. According to The Lancet in October 2021, 47% of the global population had access to diagnostic imaging, with over 4.9 billion diagnostic imaging procedures performed annually in 2019. Among these, X-ray imaging dominated, comprising more than half of all procedures, while ultrasound and, to a lesser extent, CT and MRI modalities experienced notable growth.

At Contec, we have been at the forefront of delivering advanced diagnostic imaging solutions to meet evolving healthcare demands.

The Pandemic's Impact on **Diagnostic Imaging**

The Covid-19 pandemic brought significant disruptions to diagnostic imaging volumes globally. Lockdowns and resource reallocation toward pandemic management forced healthcare providers to postpone non-urgent imaging procedures. In 2020 alone, the number of diagnostic imaging procedures fell nearly 16%, dropping to just under 4.2 billion.

MRI imaging was particularly affected due to:

- Limited utility in Covid-19 patient assessment.
- Decreased demand for musculoskeletal imaging.
- Increased infection control challenges in confined MRI rooms.
- Postponement of new MRI installations.

While some recovery in procedure volumes was anticipated for 2021, the emergence of Covid-19 variants hampered this progress. Nevertheless, projections estimate that imaging volumes will surpass 2019 levels by 2022 and continue to grow steadily into 2025.

Shifting Modalities in **Diagnostic Imaging**

From 2019 to 2025, the proportional breakdown of imaging modalities is expected to shift slightly:

Increased Utilization: Ultrasound, CT, and MRI modalities are projected to grow.

Decline in X-ray Use: A relative decrease in X-ray procedures is anticipated, though it will remain the most widely used modality due to its accessibility and affordability.



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Modality-Specific Use Cases:

X-Ray: Dominates due to its speed and accessibility, commonly used for chest and extremity imaging.

Ultrasound: Preferred for real-time visualization of abdominal organs, fetal monitoring, and cardiac assessments.

CT (computed tomography): Frequently employed for imaging the chest and head & neck, aiding in diagnosing cancer, respiratory conditions, stroke, and trauma.

MRI (magnetic resonance imaging): Offers unparalleled detail for soft tissues, ideal for neurological, spinal, and extremity imaging.

Global Trends and Opportunities by Geography

Growth Rates: Countries in Asia Pacific and Latin America, such as China, Vietnam, and India, are driving significant growth in diagnostic imaging.

Efforts to expand healthcare infrastructure in these regions have amplified access to imaging procedures.

Meanwhile, countries like Saudi Arabia and ANZ (Australia, New Zealand, and neighboring islands) have also demonstrated strong growth, fueled by investments in state-of-the-art imaging equipment.

Under-Penetrated Markets:

For modalities like X-ray and ultrasound, regions with limited imaging infrastructure such as India, Mexico, and parts of the Middle East and Latin America represent substantial growth opportunities.

These modalities, with their lower cost and minimal training requirements, are well-suited to improve healthcare outcomes in underserved areas.

Future Outlook: Toward 2025

As healthcare systems recover from pandemic-related disruptions, the demand for diagnostic imaging is expected to grow robustly, reaching nearly 6 billion annual procedures by 2025. Key drivers of this growth include:

- Increased investment in imaging technologies to address pandemic-related backlogs.
- Enhanced device capabilities offering superior image quality and speed.
- The continuing democratization of imaging technologies, bringing advanced capabilities to under-resourced regions.

At the forefront of this evolution, Contec provides cutting-edge technologies to support and enhance diagnostic imaging systems:

Medical-Grade Monitors: Offering high-resolution, reliable displays critical for accurate diagnostics.

Edge AI Solutions: Utilizing advanced computing platforms like the DX-M2300 for real-time image processing and data analysis.

IoT Integration: Seamlessly connecting imaging systems to healthcare networks for improved efficiency and data management.

As diagnostic imaging systems become more accessible and sophisticated, Contec remains committed to delivering solutions that empower healthcare providers to improve patient care and outcomes worldwide.

Contec Supports the Future of Diagnostic Imaging

Partner with Contec to bring cutting-edge diagnostic imaging solutions to your facility. Contact us to learn more about how we can improve patient outcomes and operational efficiency.

Contact us



Looking ahead, Contec continues to invest in AI-driven imaging technologies and seamless system integrations to support healthcare providers as they meet rising diagnostic demands globally.



How Contec Supports the Future of Diagnostic Imaging



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