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**HEALTHCARE**  
EDITION

## **MOM** **Technology**

STREAMLINING  
JAPAN'S  
HEALTHCARE WITH  
EMR SYSTEMS  
AND AI



Mitsuhiro Hirayama,  
President



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## Certificate





# MOM Technology

## STREAMLINING JAPAN'S HEALTHCARE WITH EMR SYSTEMS AND AI

**T**he pandemic took Japan's healthcare industry by storm, as it did the rest of the world. Mirroring the global struggle, medical personnel, often working long hours, faced the challenge of managing infection control measures while performing routine care.

Collaboration among healthcare specialists—doctors, nurses, physical therapists, laboratory technicians and radiographers—became crucial at this critical juncture for making informed treatment decisions and improving patient outcomes.

This is where MOM Technology's (MOMTEC) electronic medical record (EMR) system proved vital in Japan. It served as an optimal communication tool among different professions, facilitating seamless coordination and enhancing patient care.

Recognizing the distinct needs of each hospital, MOMTEC tailors the implementation of its medical information systems. Its comprehensive suite of services includes consultation, setup, operation, and maintenance, ensuring each phase of implementation progresses smoothly and efficiently. This holistic approach enables hospitals to leverage the capabilities of the EMR system, streamlining processes and improving communication among healthcare professionals.

Should operational challenges arise, the company has the expertise and workforce to deliver bespoke solutions. This ability to maintain support after implementation helps healthcare providers in achieving sustainable growth and development.

"By attentively listening to client needs, we facilitate effective teamwork across our departments. This includes not only sales representatives but engineers skilled in distilling precise requirements from clients," says Mitsuhiro Hirayama, president.

A case in point involves a regional hospital that aimed to streamline operations and optimize cross department communication. Faced with challenges such as patient surges and cancelled preparation sessions due to the pandemic, the hospital opted to implement an EMR system. MOMTEC's engineers identified and addressed departmental issues,

implementing best practices derived from their expertise. They ensured cross departmental coordination for a seamless transition and successfully deployed the EMR system. This notably improved the patient experience, which serves a large elderly population visiting multiple specialists. Enhanced information sharing, streamlined informed consent processes and reduced wait times through efficient testing and medication administration contributed to better patient care.

### DRIVING INNOVATION AND FOCUSING ON NATIONAL HEALTHCARE GOALS

MOMTEC's initiative aligns with Japan's 'Medical DX Reiwa Vision 2030,' which aims for full adoption of EMRs by 2030. Despite this goal, the adoption rate in small to medium-sized hospitals hovers at 50 percent, signaling ongoing challenges in achieving widespread acceptance. MOMTEC recognizes the importance of this initiative in rural areas, where a significant portion of the elderly population requires access to multiple medical specialties. The seamless communication facilitated by EMRs is invaluable, ensuring smoother project implementations and better-coordinated care.

Improving the quality of healthcare around Japan, M.O.M Technology is expanding its portfolio by focusing not only on treatment-focused systems but on preventive care technologies. Using data analysis capabilities within its EMR systems, the company enables hospitals to refine treatment approaches, leading to better patient management and outcomes. MOMTEC's commitment to innovation is highlighted by its successful development of an in-house health check-up management software widely used in over 90 institutions nationwide.


Not just that, adhering to the Kaizen philosophy of continuous improvement, MOMTEC collaborates with specialized vendors to pioneer cutting-edge healthcare digital transformation (DX) services. The services harness the power of artificial intelligence (AI) to address key operational challenges faced by healthcare institutions, streamlining operations and driving workstyle reforms.

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### TRANSFORMING DATA INTO ACTIONABLE HEALTHCARE STRATEGIES

A key area of transformation is the analysis of varied datasets such as medical records, insurance claims and other institutional data. MOMTEC leverages AI to extract actionable insights from these sources, enabling healthcare providers to optimize processes and support the transformation of healthcare practices. This effort is supported by the development of a sophisticated detection model that parses and interprets data to aid in informed decision-making.

It consistently empowers hospitals to leverage information and communications technology for superior operations management. From enabling deferred payments and cashless options to providing mobile access to patient records, MOMTEC is proving indispensable in advancing healthcare practices and meeting the evolving needs of providers and patients. 



**Mitsuhiro Hirayama,**  
President