

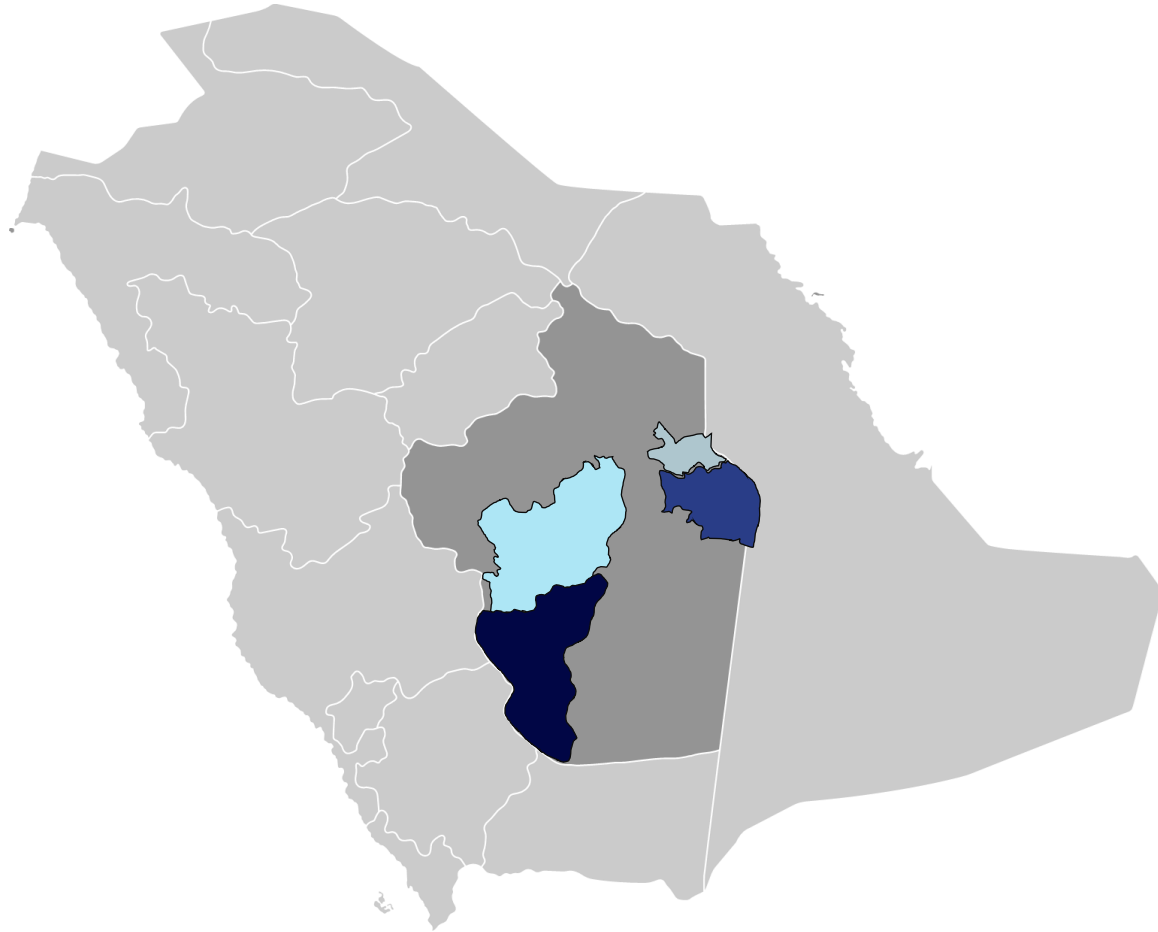
Digital Transformation & Technology

2024-2025

Introduction about the Project

The Digital Transformation & Technology at the Riyadh First Health Cluster is delivering a comprehensive system with integrated solutions and digital channels to achieve Unified Electronic Medical Records. This initiative aims to standardize patients' health records across the facilities of the Riyadh First Health Cluster through the Health Information System **(Watheeq)** for hospitals and **(Raqeem)** for primary healthcare centers.

Brief about Digital Transformation & Technology's Scope of Service



Digital Transformation & Technology at the Riyadh First Health Cluster provides services to one medical city and 18 hospitals across four zones: Riyadh, Al-Kharj, Al-Quway'iyah, and Wadi Al-Dawasir.

Electronic Medical Record (EMR)

Aligned with the Kingdom of Saudi Arabia's Vision 2030 and the National Health Transformation Program, R1 has initiated the EMR project to enhance and optimize healthcare outcomes.

The implementation of the Electronic Medical Record (EMR) system serves as a vital foundation for enhancing the quality and grade of healthcare services. It aims to cover the entire patient journey, encompassing both clinical and administrative aspects, with the ultimate goal of achieving the desired outcomes for Riyadh First Health Cluster and promoting health transformation across Saudi Arabia.

1. Consistency and Unifying of Data

- **Standardized Data:** A unified EMR ensures consistent data across Riyadh First Health Cluster facilities, reducing discrepancies and providing accurate information.
- **No Data Silos:** A single system integrates patient records, ensuring all facilities access complete information for better continuity of care.
- **Accurate Records:** Consistent data entry minimizes duplicates and conflicts, reducing errors in diagnosis and treatment.

2. Streamlined Administrative Processes

- **Faster Patient Registration and Scheduling:** A unified EMR system reduces administrative workload by centralizing patient data, making processes like patient registration, scheduling, and billing more efficient.
- **Cost Savings:** With a streamlined and efficient system, administrative and operational costs can be reduced. This also minimizes paperwork and storage space requirements.

3. Enhanced Data Analytics and Reporting

- **Real-Time Reporting:** Unified EMRs provide real-time data for informed decision-making, monitoring healthcare quality, and evaluating performance.
- **Better Resource Allocation:** Analyzing data across facilities enables informed decisions on staffing and resource distribution based on patient needs.
- **Improved Public Health Monitoring:** A unified system effectively tracks disease patterns and trends, aiding in early outbreak detection and targeted interventions.

Electronic Medical Record (EMR)

How does The System Support Everyday Tasks?

1. Outpatient nurse

- Facilitating the process of creating an everyday list of patients and access to their medical files.
- Documenting vital signs timely and accurately.
- Facilitating the process of patient transfer and appointments.

2. Inpatient nurse

- Documenting vital signs timely and accurately and facilitating following up.
- Documenting patient's case and facilitating communication between nursing and physicians shifts.
- Managing cases and detecting hospital capacity.
- Documenting safety and security procedures in the operating room.

3. Physicians

- Viewing the patient's medical history.
- Documenting the patient's case and progress.
- Requesting tests and viewing the x-rays and laboratory results.
- Referring and transferring patients to other specialties.

4. Pharmacist

- Verifying prescriptions and viewing logged drug interactions.
- Documenting the process of dispensing medications.
- Managing medication units remotely in an easier way in accordance with international standards.
- Managing and tracking medications storage throughout the hospital and pharmacy.

5. Laboratory technician

- Facilitating communication between physicians, nurses, and laboratory technicians.
- Receiving requests accurately and presenting results immediately.
- Completing the process of delivering critical results immediately according to the specified standards.
- Facilitating access to patient medical history and data which helps in reading the results.

6. Operations & administrations

- Booking patients' appointments according to on-call schedules.
- Managing accounts, payments, and medical insurance.
- Managing stocks and costs.
- Tracking KPIs.
- Coordinating operation schedules for operating rooms.

Electronic Medical Record (EMR): Integration

The system has been successfully launched in one Medical City and 18 Hospitals

Integration

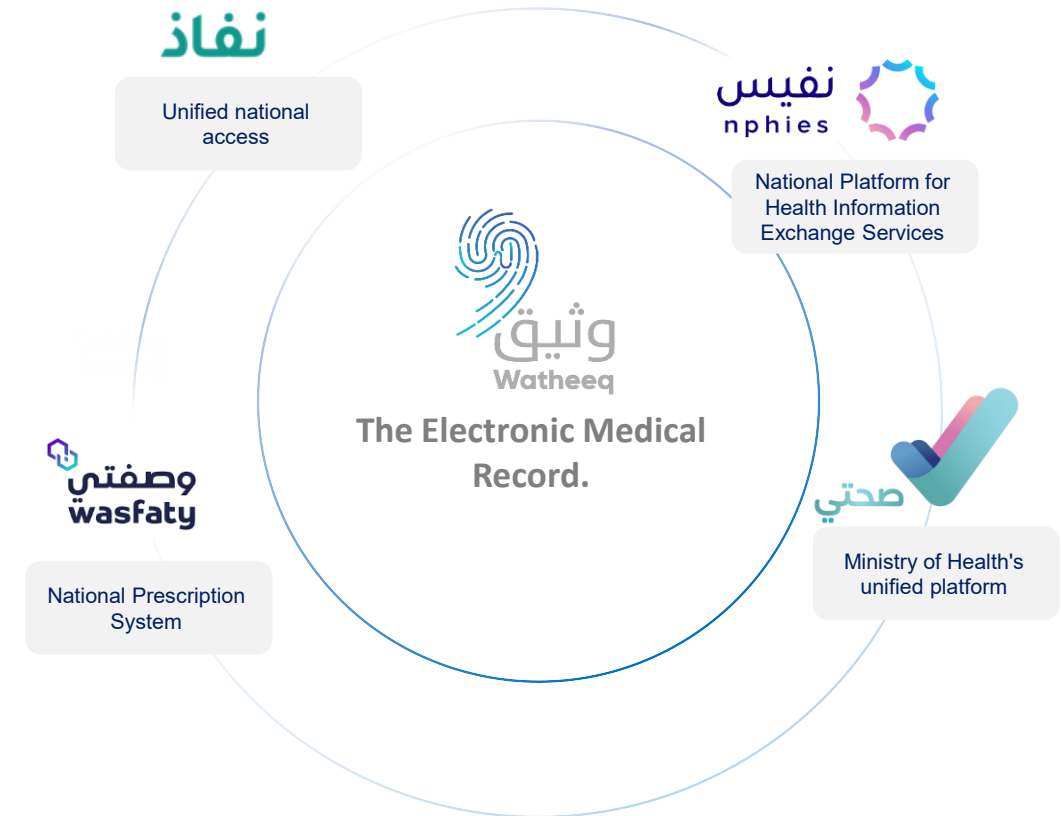
The Electronic Medical Record (EMR) has been integrated with various laboratory devices and medical systems to facilitate the seamless exchange of patient health information and the sharing of health data. Additionally, the system is connected to key national platforms, supporting the development of a comprehensive, mature, and sustainable digital infrastructure for managing health transactions.

30+

Integrated
System

39

Laboratory
Devices



Electronic Medical Record (EMR): Channels



Patient App



Physicians App

- Appointment Management
- Patient Visit Records
- Laboratory Tests
- Radiology Reports
- Prescriptions
- Access the App via Nafath
- Appointment Card
- Print Appointment Records
- Discharge Reports
- Pathology Reports
- Medical Reports
- Detailed Medical Report
- Birth Report
- Inquiries, Suggestions, and Complaints
- Updating Patient Data
- Live Chat
- Invoices for Paid Treatment Beneficiaries

- View a list of registered outpatients
- Basic patient demographics and visit details
- View a list of registered emergency patients
- View a list of inpatients
- View a list of current and future patient lists
- View OPD/IP referrals
- View a list of pending requests
- View approved lab results
- View authorized radiology results
- Progress notes
- Referrals (consultations and referrals to inpatient care)
- Assignments
- Requests excluding medications
- Allergy recording
- Alerts

Thank you