Koita Centre for Digital Diabetology

RESEARCH SOCIETY FOR THE STUDY OF DIABETES IN INDIA

Koita Centre for Digital Diabetology-RSSDI (KCDD-RSSDI)
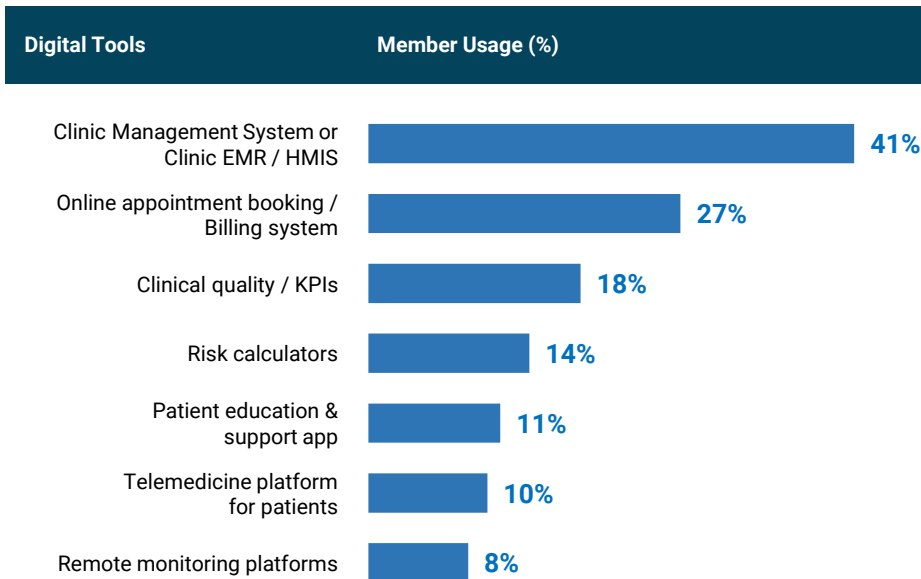
The RSSDI Technology Survey 2024

- o RSSDI conducted a detailed technology survey across its members

- o Combination of semi-structured telephonic and in-person responses covering 350+ members across India

- o The survey covered a comprehensive set of questions covering:

  A: Current digital tool usage and key challenges

  B: Current Clinic Management System (CMS) usage and key challenges

  C: Areas where RSSDI members would like KCDD-RSSDI to focus on

- o Inputs received from this survey will help in prioritizing focus areas for KCDD

The RSSDI Technology Survey findings provided significant insights

- Use of digital tools is low across RSSDI members

- There is a strong desire of members to use digital tools

- Members want RSSDI to actively support their digital initiatives in specific areas

Low Use of Digital Tools Across RSSDI Members

Digital Tools	Member Usage (%)
Clinic Management System or Clinic EMR / HMIS	41%
Online appointment booking / Billing system	27%
Clinical quality / KPIs	18%
Risk calculators	14%
Patient education & support app	11%
Telemedicine platform for patients	10%
Remote monitoring platforms	8%

Low Use of Digital tools across RSSDI members

~40%
use a Clinic Management Software (CMS) or EMR

<20%
track clinical KPIs

<10%
use telemedicine and remote monitoring

<10%
suggest patients to use Apps for education, medication management, etc.

Strong Desire to Use Digital Tools
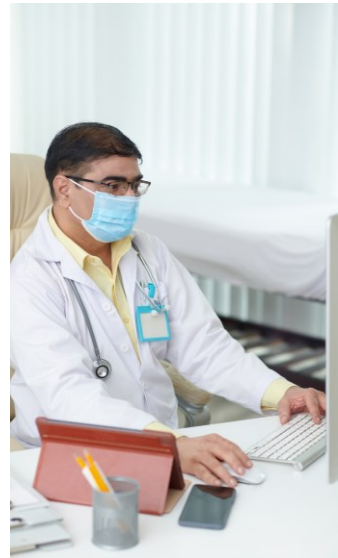
Overall Feedback

RSSDI members recognize the importance of using digital tools to improve diabetes care and drive better patient outcomes.
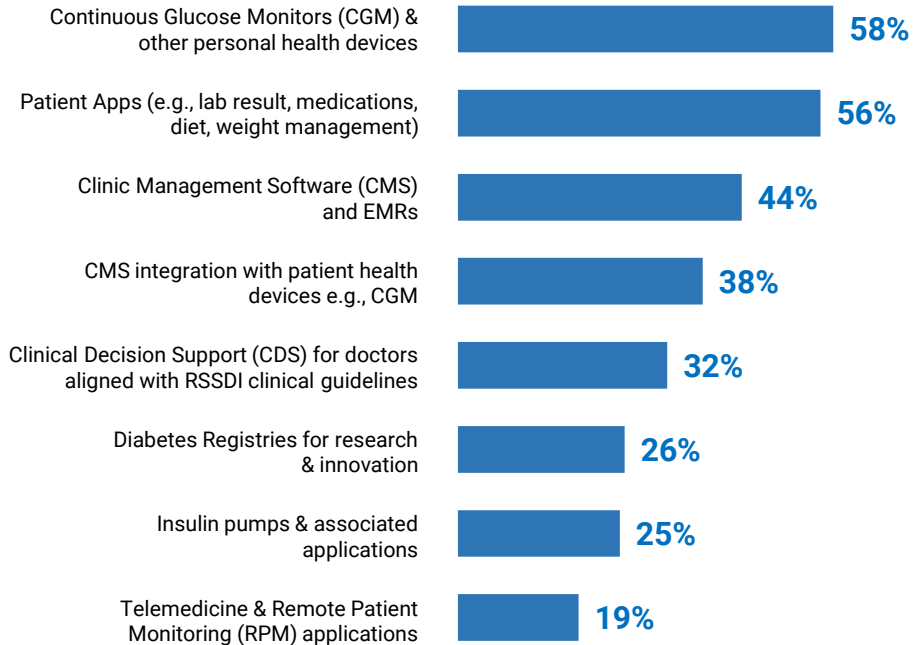
Member Priority

RSSDI members identified many areas of high priority (>50%) - Clinic Management System (CMS), Clinical KPIs, Risk calculators, Remote monitoring, Patient Apps, etc.

Member Preparedness

Most RSSDI members feel that their level of preparedness is low (<50%), and would like support from RSSDI in identifying and using Digital tools

Top Areas Where Members Desire RSSDI Support in Digital Adoption

- Continuous Glucose Monitors (CGM) & other personal health devices — **58%**
- Patient Apps (e.g., lab result, medications, diet, weight management) — **56%**
- Clinic Management Software (CMS) and EMRs — **44%**
- CMS integration with patient health devices e.g., CGM — **38%**
- Clinical Decision Support (CDS) for doctors aligned with RSSDI clinical guidelines — **32%**
- Diabetes Registries for research & innovation — **26%**
- Insulin pumps & associated applications — **25%**
- Telemedicine & Remote Patient Monitoring (RPM) applications — **19%**

Koita Centre for Digital Diabetology – RSSDI (KCDD-RSSDI) Overview

KCDD-RSSDI, a first-of-its-kind centre, to help RSSDI and its network of 12,000+ physicians leverage Digital technologies to meaningfully improve Diabetes management and drive Diabetes research and innovation in India.

KCDD-RSSDI Launch at RSSDI Research Event - April 2024

Dr. Sanjay Agarwal (Secretary, RSSDI), Dr. Rakesh Sahay
(President, RSSDI), Rekha Koita (Director, Koita Foundation)

Learn more: www.kcdd.in

KCDD-RSSDI Digital Health Focus

Diabetes Care Quality
Drive use of Diabetes-specific Clinic Management Systems (CMS), implement evidence-based guidelines, clinical quality measures.

Access to Care
Improve access to high quality Diabetes care in non-urban, rural areas e.g., telemedicine, remote monitoring.

Clinic Productivity
Improve clinical & administrative workflows, reducing manual and redundant activities.

Data & Analytics
Establish Diabetes registries and leverage advanced AI/ML and LLM models in diabetes care.
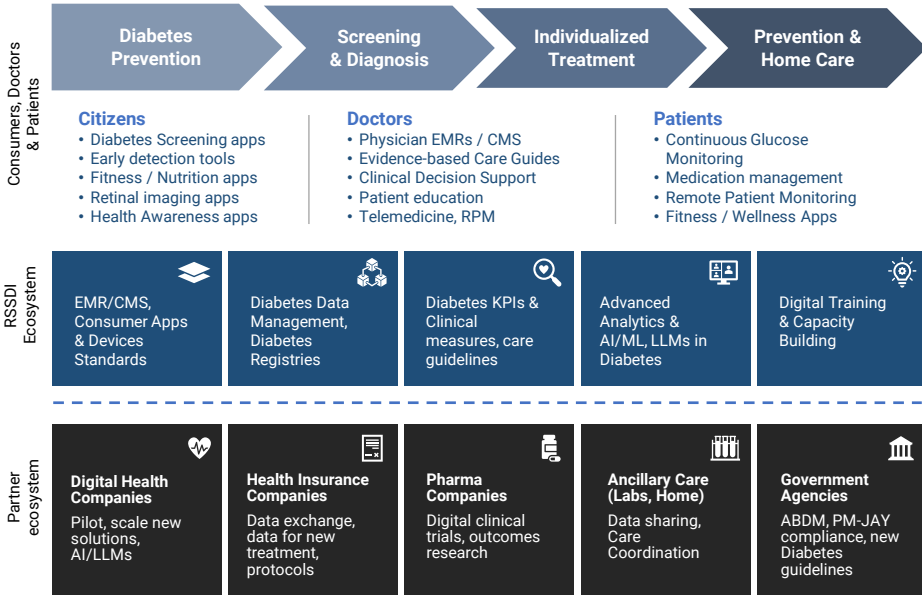
Research & Innovation
Leverage new Digital Health technologies. Partner with health tech cos, life science companies, health insurance.

Training & Capacity Building
Use Digital Health tools for continuous learning and skill development for doctors, nurses and technicians.

KCDD-RSSDI Digital Health Vision

Consumers, Doctors & Patients

Diabetes Prevention	Screening & Diagnosis	Individualized Treatment	Prevention & Home Care

Citizens
- Diabetes Screening apps
- Early detection tools
- Fitness / Nutrition apps
- Retinal imaging apps
- Health Awareness apps

Doctors
- Physician EMRs / CMS
- Evidence-based Care Guides
- Clinical Decision Support
- Patient education
- Telemedicine, RPM

Patients
- Continuous Glucose Monitoring
- Medication management
- Remote Patient Monitoring
- Fitness / Wellness Apps

RSSDI Ecosystem

EMR/CMS, Consumer Apps & Devices Standards	Diabetes Data Management, Diabetes Registries	Diabetes KPIs & Clinical measures, care guidelines	Advanced Analytics & AI/ML, LLMs in Diabetes	Digital Training & Capacity Building

Partner ecosystem

Digital Health Companies Pilot, scale new solutions, AI/LLMs	**Health Insurance Companies** Data exchange, data for new treatment, protocols	**Pharma Companies** Digital clinical trials, outcomes research	**Ancillary Care (Labs, Home)** Data sharing, Care Coordination	**Government Agencies** ABDM, PM-JAY compliance, new Diabetes guidelines

Comprehensive KCDD-RSSDI vision to leverage Digital Health to enhance & transform Diabetes care in India
- Roll-out EMR/CMS for doctors
- Enhance and drive use of patient apps and health devices / CGM
- Drive standardization and interoperability of patient data
- Support Data platform & Diabetes Registries
- Leverage new tech - AI/LLMs, mobile apps, IoT to drive innovation

KCDD-RSSDI: Key Initiatives for 2025-26

Diabetes EMR Initiative — Define diabetes requirements, select RSSDI empaneled EMR vendors, and drive EMR adoption, RSSDI certification (incl. interoperability, clinical metrics)

Diabetes Control Initiative — Define diabetes requirements, select RSSDI empaneled Diabetes Control/ Glucose Monitoring apps, RSSDI certification (incl. interoperability, clinical metrics)

Diabetes Device Initiative — Create a focused initiative for defining device standards, and empaneling approved devices (e.g., glucose monitoring)

Digital Diabetes Toolkits — Develop cost-effective patient-doctor toolkits (health devices, software, EMR integration) for integrated Diabetes management

Training / Capacity Building — Develop strong Digital Health training programs including Digital Health Foundation Course (DHFC) for doctors and patients, leveraging the RSSDI LMS platform

Diabetes Registries — Develop integration with empaneled EMRs for creating real-time national Diabetes Registries
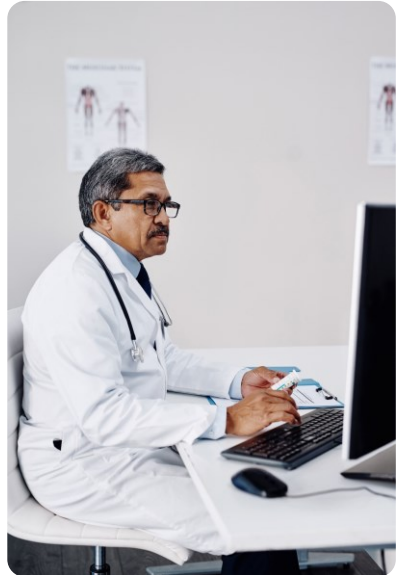
Diabetes Research — Partner with leading research/ technology team in India (e.g., IITB/KCDH) to drive innovation and use of the latest tech including AI/ML/LLMs

KCDD-RSSDI: Diabetes CMS Initiative

The use of CMS is a big challenge for doctors in their clinics & hospitals, despite its importance in managing diabetes patients over time

Key Challenges in CMS Usage

- o Lack of simple, easy-to-use CMSs
- o Lack of diabetes-specific capabilities in current clinic CMS products
- o High costs of buying clinic CMSs
- o Inconsistent use of clinic CMSs
- o Lack of training of doctors, nurses, and IT staff in effective CMS use
- o Inability to use data in clinic CMSs to improve patient care or overall clinical performance

KCDD-RSSDI: Diabetes CMS Initiative

o Conduct a **Technology Survey** to understand the current use of digital tools among RSSDI members (completed)

o Develop a comprehensive **RSSDI CMS Requirement (RCR)** for diabetes care, working closely with a core team of diabetes specialists, healthcare technology companies, hospitals, and external consultants

o **Empanel established clinic CMS companies**, based on (a) maturity of existing CMS products (b) current client base and client satisfaction (c) product pricing (d) commitment to meeting RER requirements over the next 12-24 months

o Support the empaneled CMS/HMIS/EMR partners to **enhance their products for diabetes care** e.g., team-based care, tracking complications, etc.

o Help empaneled partners engage with RSSDI members, hospitals and **support doctors / hospitals select the clinic EMR/CMS/HIMS** that best meets their needs

o Over time, **RSSDI-Digital will track and support the clinic EMR/CMS/ HIMS implementation to ensure success** e.g., end-user feedback with hospitals, best practices, digital health training of doctors/nurses

Empowering Diabetes Care with Digital Technologies

Koita Centre for Digital Diabetology

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