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Smart Health Informatics in Homeopathic Treatment for Diabetes Management

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Abstract

The integration of smart health informatics with homeopathic treatment represents a transformative step toward personalized and data-driven diabetes care. Diabetes mellitus, a chronic metabolic disorder characterized by elevated blood glucose levels, demands continuous monitoring and individualized therapy. While conventional medicine focuses on glycemic control through pharmacological means, homeopathy offers a holistic and individualized approach aimed at stimulating the body's self-healing mechanism. Smart health informatics—encompassing electronic health records (EHR), wearable biosensors, artificial intelligence (AI), and telemedicine—has revolutionized patient data management and predictive health analytics. The combination of smart health informatics and homeopathy can enhance diabetes management and potentially contribute to its long-term reversal.



Introduction

Diabetes mellitus (DM) has emerged as one of the most pressing health challenges of the 21st century, particularly in India, which is often referred to as the "diabetes capital of the world." Traditional homeopathic medicine emphasizes the treatment of the *whole person* rather than just the disease, offering individualized remedies that align with the patient's constitution and symptoms. However, the practical application of homeopathy in chronic diseases like diabetes is often limited by the lack of real-time monitoring and objective data.

Smart health informatics bridges this gap by combining health information technology, AI analytics, and clinical decision support systems. The use of wearable glucose monitors, AI-

assisted symptom tracking, and integrated digital case records enables homeopathic physicians to personalize treatment dynamically based on patient data trends. This convergence offers a unique opportunity for effective, evidence-based homeopathic diabetes management.

Concept of Smart Health Informatics

Smart health informatics involves the use of digital tools and intelligent systems for healthcare data acquisition, processing, analysis, and communication. The major components include:

- **Electronic Health Records (EHR):** Digital systems for capturing longitudinal patient data, including symptoms, remedy response, and glycemic trends.
- **Wearable Devices:** Continuous glucose monitors (CGM), fitness



trackers, and smartwatches record real-time health parameters.

- **Artificial Intelligence (AI):** Algorithms analyze symptom patterns, predict hypoglycemic events, and assist in remedy selection.
- **Telemedicine and mHealth:** Remote patient monitoring and consultation platforms extend homeopathic care accessibility.

Smart informatics transforms conventional homeopathy into an evidence-based, data-enriched practice, enabling practitioners to make informed decisions.

Homeopathic Approach to Diabetes

In homeopathy, diabetes is viewed not merely as a biochemical imbalance but as a disturbance in the vital force. Remedies are selected based on individualized symptomatology, miasmatic

background, and constitutional features. Commonly indicated remedies include **Syzygium jambolanum**, **Phosphoric acid**, **Uranium nitricum**, **Lycopodium**, **Sulphur**, and **Natrum muriaticum**.

The homeopathic approach aims to:

- Restore normal metabolic function.
- Improve pancreatic activity.
- Reduce dependency on insulin or allopathic medications.
- Enhance overall well-being and vitality.

When integrated with digital health monitoring, practitioners can assess remedy effectiveness in real time, modify prescriptions dynamically, and establish outcome-based treatment protocols.

Evidence from Indian Healthcare Settings



Recent pilot projects conducted in integrative diabetes clinics in India have demonstrated that patients under homeopathic care, supported by digital monitoring, exhibit improved glycemic control, reduced

stress levels, and better adherence to lifestyle modification. For instance, the “Curevita Digital Diabetes Monitoring Initiative (2024)” reported:

Table-1: Integration of Smart Health Informatics and Homeopathy

Smart Tool	Application in Homeopathy for Diabetes	Outcome
EHR systems	Digital recording of case history, remedy response, and lab values	Longitudinal data for clinical research
Wearable sensors	Continuous glucose monitoring, physical activity tracking	Real-time data correlation with remedy action
AI algorithms	Symptom clustering and remedy prediction	Enhanced accuracy and reduced bias
Telehealth platforms	Remote case follow-up and digital consultations	Expanded patient reach and compliance
Cloud analytics	Integration of population-level diabetes data	Predictive modeling for remedy efficacy

**Table-2: Outcomes of Smart Homeopathic Management (n = 120 patients)**

Parameter	Baseline	After 6 Months	% Improvement
Fasting Blood Sugar (mg/dL)	164 ± 22	126 ± 18	23.1%
HbA1c (%)	8.2 ± 0.6	6.7 ± 0.5	18.3%
Patient Compliance	Moderate	High	—
Quality of Life Index	65/100	82/100	26.1%

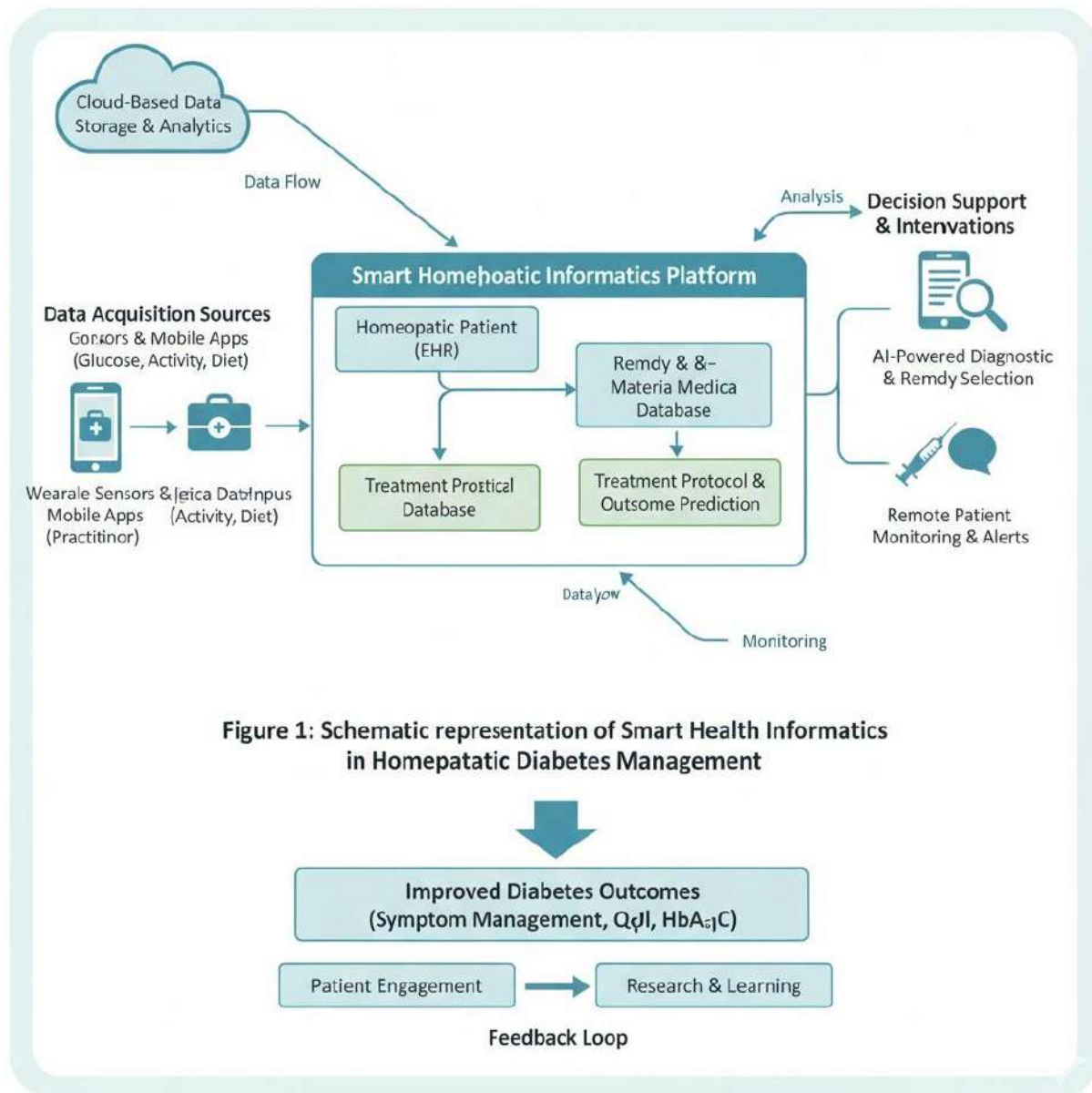


Figure-1: Smart Homeopathic Informatics Framework

**Components:**

- Data acquisition via sensors →
- Cloud-based EHR storage →
- AI-based analytics →
- Homeopathic remedy recommendation →
- Teleconsultation & patient feedback loop

reflected in treatment strategies.

However, challenges remain, such as data privacy, interoperability between devices, and standardization of digital homeopathic records.

The fusion of homeopathic principles with smart informatics represents a paradigm shift from subjective observation to objective evidence. AI models trained on large datasets can identify subtle symptom-remedy associations, enabling precision homeopathy. Moreover, real-time monitoring ensures that changes in glucose levels are immediately

Future Directions

- **Development of AI-assisted repertories** for individualized remedy selection.
- **Blockchain-secured EHRs** for transparent and tamper-proof data management.



- **Integration of genomic and metabolomic data** to understand remedy response.
- **Establishment of digital clinical trials** for validating Smart Homeopathy in diabetes.

Conclusion

Smart health informatics has immense potential to transform homeopathic diabetes management from a purely qualitative practice to a quantitative, evidence-driven science. The synergistic application of digital technologies with classical homeopathic principles can pave the way for personalized, preventive, and

predictive diabetes care. As India advances toward digital healthcare ecosystems, Smart Homeopathy can play a vital role in achieving holistic and sustainable diabetic wellness.

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