

Healthcare Operating System

Category:

Best Digital Health Solution

Company Name:

TECHMEDO Inc.

Number of employees:

51-200

Turnover and/or Funding:

Turnover - 3.0 Million USD

Funding - 10 Million USD

Product/Solution Name:

Healthcare Operating System

Corporate Name:

TECHMEDO Inc.

Date of Approval:

2020-12-26

Indications:

Over 50% of the global population lacks access to healthcare, despite healthcare spending exceeding \$8 trillion and projected to surpass \$10 trillion in the next two years. There is a critical shortage of medical staff, with millions of doctors, nurses, and healthcare professionals needed worldwide. The U.S. alone will require 181,000 doctors and 671,000 nurses by 2030. In response, the WHO has set the Triple Billion Goals: by 2023, aiming to ensure one billion more people benefit from universal health coverage, one billion more are better protected from health emergencies, and one billion more enjoy better health and well-being.

These staggering challenges are even not bearable by the world's strongest economies

and immediate need is make healthcare more affordable, accessible and equitable.

Therapeutic Areas:

1. Primary Healthcare: Ensuring broad access to basic health services.
2. Emergency Care: Improving responses to health emergencies.
3. Maternal and Child Health: Enhancing health outcomes for mothers and children.
4. Infectious Diseases: Addressing the prevention and treatment of diseases like HIV, TB, and malaria.
5. Non-Communicable Diseases (NCDs): Managing chronic conditions such as diabetes, cardiovascular diseases, and cancer.
6. Mental Health: Providing care and support for mental health conditions.
7. Preventive Care: Focusing on vaccination, health education, and screenings to prevent illnesses.

General Information File Document upload:

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Background information and need for drug / device:

There are several pain points that TECHMEDO aims to address: - Lack of access to primary care in remote areas

- Long wait times for medical appointments
- Limited availability of healthcare providers - High cost of healthcare
- Poor quality of medical care and suboptimal outcomes
- Difficulty in keeping track of patient data and medical records
- Disengagement of patients from their own health and medical care
- Inefficient data management and sharing
- Limited resources and specialized expertise
- Lack of technology in primary care facilities
- Limited patient engagement and low adherence to treatment plans
- Inadequate patient-provider communication
- Fragmented healthcare system leading to inefficiencies and delays
- Inaccurate and incomplete medical records
- Limited data security and privacy protection for patient information.

Background File Document upload:

N/A

History of the development of the solution/product:

The development of the TECHMEDO Healthcare OS was driven by the urgent need to improve healthcare accessibility and efficiency. By leveraging advanced AI algorithms, TECHMEDO assesses patient care requirements and integrates various systems and personnel to deliver comprehensive support. Our scalable platform, Care 360, empowers patients with advanced IoT devices for physiological measurements, providing actionable insights and guiding them on next steps.

Patients can conveniently book appointments with caregivers to address specific health concerns, with providers staying informed to facilitate early detection and reduce the overall impact of illnesses. TECHMEDO also offers reduced-cost teleconsultations, enabling patients to perform self-assessments and utilize structured physical examinations, all enhanced by AI-aided diagnostic tools that create targeted care plans.

The platform incentivizes patients with adherence scores and offers educational courses through our user-friendly apps. This web-based engagement promotes active involvement in health management, leading to successful treatment outcomes and a higher quality of care. So far through the platform more than 2 million patients are served with quality of care in rural and remote areas.

Development File Document upload:

N/A

Why this drug or device is innovative, the broad implications for future research, and/or how it will improve the human condition:

The TECHMEDO Healthcare Operating System is a groundbreaking innovation that revolutionizes patient care through the integration of AI, IoT, and telehealth technologies. Unlike traditional systems, TECHMEDO's platform leverages AI algorithms to assess patient needs and unifies diverse healthcare systems and personnel to deliver seamless, comprehensive support.

Innovative Aspects:

1. **AI-Driven Care:** TECHMEDO uses AI to assess care requirements, enabling early detection of health issues and reducing the overall impact of illnesses.
2. **Integrated IoT Devices:** Patients use advanced IoT devices to monitor their physiological data in real-time, receiving tailored guidance on their health actions.
3. **Enhanced Telehealth:** The platform supports reduced-cost teleconsultations, self-assessments, and AI-aided diagnostics, providing a robust virtual healthcare ecosystem.
4. **Patient Engagement:** Through adherence scores, educational courses, and structured physical examinations, TECHMEDO actively involves patients in their own care, promoting better health outcomes.

Broad Implications for Future Research:

TECHMEDO's integration of AI and IoT in patient care opens new avenues for research in predictive analytics, personalized medicine, and remote health monitoring. The data generated from patient interactions can inform large-scale studies, leading to innovations in treatment protocols and healthcare delivery models.

Improving the Human Condition:

TECHMEDO significantly enhances healthcare accessibility, particularly for underserved populations. By enabling early detection and continuous monitoring, the platform reduces the burden on healthcare facilities and improves patient outcomes. The holistic approach ensures that patients receive timely, effective care, ultimately leading to healthier communities and a better quality of life.

TECHMEDO Healthcare Operating System not only sets a new standard in digital health but also lays the foundation for a future where healthcare is more accessible, efficient, and patient-centric.

Innovation File Document upload:

N/A

Please provide appropriate references (PubMed, Abstract, Website):

TECHMEDO has won many accolades over the past two years that includes SIEMENS Innovation Award, Publishes on Forbes and below are some of the references

1- <https://www.techmedology.com>

2- <https://solve.mit.edu/challenges/heath-in-fragile-contexts-challenge/solutions/77149>

3- <https://www.cbinsights.com/company/techmedo>

4-

<https://www.businesswire.com/news/home/20240514334798/en/Belden-Names-3-Finalists-for-Joseph-C.-Belden-Innovation-Award>

5- <https://www.himss.org/membership-participation/himss-future50-community>

6- <https://www.sme-news.co.uk/winners/techmedo/>

7-

<https://www.himss.org/news/himss-announces-2022-changemaker-health-award-recipients>

References File Document upload:

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