



MARKET

Digital blood pressure monitor market size is expected to progress at a CAGR of 10.1% and reach **\$1.4 billion** by the end of 2025.

IoT Medical Devices Market (including Blood Pressure Monitors) is projected to reach **\$94.2 billion** by 2026 from USD 26.5 billion in 2021, at a CAGR of 28.9% during the forecast period.

INNOVATION

EXPRESS diagnostics with blood pressure monitoring which allows to investigate:

- > The level of health and adaptive capabilities of the body
- > Central and peripheral circulation
- > Autonomic nervous system
- > Risks of heart, lung, mental and COVID-19 diseases, 85-97% accuracy
- > Prediction of blood test parameters, over 90% accuracy

METHOD

ARTERIAL OSCILLOGRAPHY (AO) - analysis of pulsations recorded during blood pressure measurement.

IMPORTANT MILESTONES

- 2010  **Research start, 2000+ patients were examined during 11 years**
- 2014  **Software system development**
- 2015  **Obtaining national patents**
- 2017  **Prototyping**
- 2021  **USF grant, Clinical trials and certification in Ukraine**
- 2022  **Poland Prize grant, certification and patenting in Europe, Device manufacturing**
- 2023  **Certification and patenting in America, Device manufacturing**

APPLICATION and TA

All areas of blood pressure monitoring. The innovation provides additional and expanded diagnostics for sports, space and military medicine, daily monitoring, fitness, preventive and functional examinations.

Users: patients, nurses, family doctors, cardiologists and other doctors.

TECHNICAL SOLUTION

1. A special algorithm for calculating AO values is added to the blood measurement device and displayed on the monitor.
2. By modifying the program of a blood monitor processor we use wireless communication to transmit data to our web application and display it in a user's personal dashboard.

BUSINESS MODEL

Licensing for blood monitors manufacturers and subscription for software users.

HIGHLIGHTS

- **Grants - Ukrainian Foundation of Startups (USF), National Research Fund of Ukraine, Poland Prize**
- **Acceleration - I.S.E (Innovation Startup Entrepreneurship), GIST Innovates Ukraine (2021)**
- **Certified in Ukraine according to EN 62304: 2014, ISO 13485: 2018**

70+ scientific publications including Scopus

CONTACTS

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