VISIONET

Revolutionizing Clinical Research with ISDP:

The AI-enabled Intelligent Sensor Data Platform Transforming Patient Outcomes

The Sensor Data Maze: Overwhelming Challenges

More and more clinical trials are automated through wearable sensors to measure disease-related outcomes and drug efficacy. With the increasing demand for smart and connected devices, Pharmaceutical companies need better platforms for collecting, storing, processing, and analyzing sensor data from various sources, allowing organizations to make informed decisions and improve their operations.

Some of these challenges include:

Data integration & interoperability:

A lack of standardization across different sensor types and manufacturers make it difficult to ensure data compatibility and interoperability.

Data management and storage:

The volume and velocity of sensor data generated can quickly become overwhelming, making it challenging to store, manage, and efficiently access this data.

Data security and privacy:

Sensitive information, such as personal data or patient data is often vulnerable to cyber threats & data breaches, making it critical to ensure that the platform has robust security measures in place.

Real-time processing & analysis:

The value of sensor data lies in its ability to provide real-time insights. However, this requires a platform that is capable of processing and analyzing large amounts of data in real time, which can be a challenge for organizations with limited resources or technology capabilities.

Scalability:

As the number of connected devices and sensors grows, the demand for processing and storage capacity will increase. A lack of scalability can limit the ability, leading to performance issues and reduced efficiency.

Visionet's Intelligent Sensor Data Platform (ISDP): Making Wearable Sensor-based Outcome Analysis A Reality.

An intelligent Sensor Data Platform (ISDP) is a single comprehensive platform for capturing sensor-based drug outcomes in clinical trials. Our solution enables clinical sponsors to track patients' conditions 24/7, capture drug outcomes that are more objective and quantitative, and ensure protocol adherence during a trial.

With wearable devices integrated with a phone app and a backend cloud solution, ISDP provides 360-degree visibility of the human body's vitals and physiological observations, using AI to enrich raw sensor data into advanced body measurements and performance measures. With low code device and sensor integration, ISDP brings together data from multiple wearable sensors into one analytical schema, providing a unified solution for capturing sensor-based drug outcomes in clinical trials.

Why we call it a 'Comprehensive Solution'

AI-powered toolkit:
ISDP's patent-pending AI toolkit allows for the seamless conversion of raw sensor data into complex bodily outcomes and measurements.

Standardized Data Model:
ISDP's data schema stores sensor data into a standard, pseudo-dimensional model, enabling performance threshold analysis and the evaluation of outliers among cohorts.

Universal Sensor Integration:
ISDP's integration layer is designed to work with any current or future biometric device and wearable sensor, with no-code customization required.
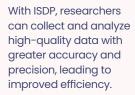
Healthcare Compliant:
ISDP's coding standards and data storage are compliant with healthcare regulations, ensuring privacy and security requirements are met.

Discover the Power of ISDP: Key Benefits Simplified

High-Quality Data Collection:

With ISDP, researchers can collect and analyze high-quality data with greater accuracy and precision, leading to improved efficiency.

Generation of Novel Clinical Endpoints:

The platform's data analytics service can be used to mix de-identified trial data with information from genomic, lifestyle, and other sources to investigate new therapeutic options.

Improved Patient Experience:

By reducing clinic visits and streamlining appointments, ISDP helps to relieve patient stress, and boost patient engagement through real-time communication and interaction.

Strengthening Patient Loyalty:

The platform's capabilities have the potential to foster patient loyalty and provide valuable insights into their health, empowering patients and giving them a sense of control over their well-being.

Accelerated Molecule-to-Market of New Drugs:

By producing high-quality data and reducing dropouts, ISDP can help to speed up the time it takes for new treatments to reach the market, as well as potentially lower the costs.

Reliable Evidence:

The platform's access to larger, more diverse data sources and advanced analytics can help analysts produce more objective clinical measurements. That in turn results in more reliable metrics for proving drug efficacy or otherwise—enabling more "hits" and reducing the "misses".

About Visionet

Visionet is an engineering-led company driven by innovation. In our journey of 27+ years, we've helped over 350 clients across various industries to innovate faster, remain relevant, and build better products and services. With more than 8,000 people worldwide, across our 14 locations, Visionet provides transformational consulting, technology, and outsourcing services and solutions for a broad range of industries.

For more information, visit

www.visionet.com

Headquarters
4 Cedarbrook Drive, Bldg. B Cranbury, NJ 08512

Tel: 609 452 0700
Fax: 609 655 5232

sales@visionet.com

VISIONET
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