

Evolution of Data Capture, Monitoring and Management in Clinical Trial

ATLANTA, GEORGIA, NIGERIA, April 25, 2024 /EINPresswire.com/ -- In the field of clinical data, you will come across these terminologies very often: data capture, data monitoring, and data management. The evolution of these three concepts are not only that of technology but also the need to develop bodies to ensure they are carried out with the safety of patients, efficacy, and validity of the study in mind. For example, CDISC. This growth of data capture, monitoring, and management over time is a testament to the transformative power of technology in maximizing the potential of this valuable resource.

Traditionally, data capture involved manual entry and painstaking processes that were susceptible to errors. However, with technological advancements, data capture has undergone a transformation. Automated systems and technologies, such as optical character recognition (OCR) and advanced sensors, now streamline data collection processes. This evolution not only enhances the speed of data capture but also ensures a higher level of accuracy, laying a solid foundation for reliable insights.

The last 10 years have also witnessed a growth in data monitoring. From paper-based data collection to use of electronic tools. For example, actigraphy and other tools currently used to make patient retention easier. The journey of data capture, monitoring, and management continues to evolve, with technology serving as the driving force. As organizations embrace these advancements, they position themselves to thrive in the era of big data, leveraging insights to gain a competitive edge and shape the future of their industries.

Below are the some of the problems evolution in this fields have reduced:

- Eliminating the cost of logistics.
- Time lost in sorting data
- Use of storage rooms
- Participants decline after a while in a study
- Delayed decision making

Challenges of this growth

While the evolution of data practices brings about numerous opportunities, it also poses challenges. Security and privacy concerns, data silos, and the need for skilled professionals to

navigate these sophisticated systems are among the challenges organizations face. However, these challenges present opportunities for further innovation and the development of comprehensive solutions that address the complexities of modern data ecosystems.

The future

In conclusion, the evolution of data practices is not just a technological progression; it is a paradigm shift that redefines how organizations harness the power of data. By embracing these changes, businesses can unlock new possibilities, foster innovation, and chart a course toward a more data-driven and dynamic future.

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