



tsti 大世科 醫療大數據 Medical Big Data Integration

tsti Medical Big Data Integration Platforms. Smart hospitals, medical big data, and big data platforms can aggregate various digital data in the hospital to assist physicians in optimizing treatment plans so that patients can get the most effective treatment.

Effectively integrate data, understand the context from a large amount of data, and effectively create digital value:

1. Physicians analyze the relevant information of the patient's lesion through the inter-hospital and inter-hospital data, and the patient's own health information and past pathology and medical records, to assist the doctor to optimize the treatment plan, so that the patient can get the most effective treatment and do it quickly. The result is a much more accurate diagnosis than before.
2. The big data platform can collect all kinds of digital data (clinical, non-clinical) in the hospital. Under the framework of complying with relevant patient privacy regulations, the collection time and accuracy of medical research data can be greatly reduced. Big data platforms can also be used to integrate data from different systems. Through the development of the platform and related APIs, different systems can share data from the same source.

The big data platform developed by the tsti can maximize the potential of data collection and integration, reducing the difficulty of subsequent data analysis and application. In a huge amount of data, data islands are connected in series to break the limitations of the original region or system, and through data analysis to mine hidden knowledge, it can be used to find laws and predict short-term future trends in the short term; in the long term, it can be used as Reference indicators for corporate thinking and operating strategies.

Through the effective integration of data, the context is drawn from a large amount of data, so that doctors can find out the tacit knowledge and rules of experience of daily activities through the exchange of data in hospitals and between hospitals, as well as the patient's own health information and past medical records. Assist physicians in optimizing treatment plans, so that patients can get the most effective treatment. And quickly make a more accurate diagnosis than before.

Establish a big data platform, plan to use massive data technology, digitize and integrate data, accommodate data in various formats, follow international standard anonymous processing methods, and provide users with convenient query and export mechanisms to perform more value-added processing. In terms of data, it supports data recovery and provides a complete history of data usage, enhances the application value of current data, provides doctors with a complete and safe research data source, and meets the needs of medical service integration and future diversified development.

tsti Medical Big Data Integration Platforms Expected benefit:

1. Provide accurate, fast and safe research materials.
2. Build the foundation of Evidence-Based Medicine
3. Establish a cross-region and cross-system big data research center.
4. Ability to master data assets in the hospital, and observe various research directions and trends from multiple perspectives.
5. It can be combined with the research application management process, and the anonymous mechanism confirms patient privacy.
6. Obtain the relevant data of "a large number of original hospital data + medical imaging + structured pathology report" from the big data platform, integrate a large number of and diversified data sources, and lay the foundation for medical big data.
7. Eventually became a leading indicator of medical research in Taiwan.



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Medical Big Data Integration

tsti大世科開發架設的大數據平台可讓資料的收集與整合發揮到最大的潛力，減少後續資料分析與應用的難度。在龐大的資料中，將數據孤島串聯起來，打破原有區域或系統的限制，並透過數據分析挖掘隱含的知識，短期而言可以用來尋找規律預測短期的未來趨勢；長期而言可以作為企業思維、營運策略的參考指標。

藉由對於數據的有效整合，從大量數據理出脈絡，讓醫師可透過院內、院間的互通資料，和病患本身的健康資訊與過往病歷，找出日常活動的隱性知識與經驗法則，協助醫師優化治療方案，讓病患獲得最有效的治療。並迅速做出相較以往精確許多的診斷。

預期效益

- 1.提供正確、快速且安全的研究資料。
- 2.打造證醫學(Evidence-Based Medicine)基礎
- 3.成立跨區域跨系統的大數據研究中心。
- 4.可掌握院內數據資產，可多面向觀察各研究方向與趨勢。
- 5.可結合研究申請管理流程，匿名機制確表病患隱私。
- 6.由大數據平台取得「醫院大量原始資料+醫學影像+結構化病理報告」相關資料，整合大量且多樣化資料來源，奠定醫療大數據之基礎。
- 7.最終成為台灣醫學研究領先指標。

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