



The bridge to  
healthcare innovation

# Kidney Transplant Management System

## INDUSTRY

- Healthcare

## CHALLENGES

- Geographical vastness in China
- Disparate systems in hospitals

## OFFERING

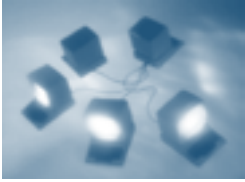
- Web-based information-sharing system

## BENEFITS

- Easy submission and retrieval of patient information
- Increased co-ordination between hospitals

**Innovation in Healthcare** ■ As a healthcare innovator, Shanghai Roche Pharmaceuticals (Roche) embarked on a program to encourage information sharing among doctors in China. This was in the area of post-transplant care for patients suffering from kidney failure. This information sharing would be vital in helping doctors across China to unify their efforts in maximising the standards of post-operative healthcare for kidney transplant patients.





To encourage doctors and other medical professionals to use the system, NCS worked with Roche to hold seminars to educate end-users about the merits of using the KTMS.

## Overcoming Geographical Challenge ■

The geographical vastness of China was easily overcome with the use of Information Technology (IT). Thanks to IT, hospitals across the eastern and northern coastal cities of China - including Beijing, Shanghai, Nanjing and Jinan - could easily consolidate information via a web-based information-sharing system, the Kidney Transplant Management System (KTMS).

The Asia Pacific region's leading IT service provider, NCS Pte. Ltd., not only provided the technological expertise and implemented the system, they also provided a holistic solution that included consultation, needs analysis and the training of end-users.

## Easy Information Storage and Retrieval ■

With the KTMS, doctors could submit information about the progress of patients following their kidney transplant operations. This included information such as the patient's medical history, reaction to medication and pace of recovery. For ease of storage and retrieval, the information was organised according to pre-configured fields.

The data of the patients was stored safely in a server within a protected environment. This was necessary to ensure the confidentiality of patient records. To further enhance the security of the information, users logged in with a user identification (ID) and encrypted password.

**The Holistic Approach ■** To implement a system that was relevant, efficient and user-friendly, NCS worked closely with both the management of Roche as well as the medical practitioners working at the hospitals from the start of the project

till after its implementation. NCS engineers interacted with the medical practitioners from the 16 hospitals involved in the pilot run of this project to recommend the sizing and hardware requirements for the KTMS to run on the respective systems of the hospitals. Most of these 16 hospitals are large and reputed.

NCS's job did not end with the implementation of the KTMS. To encourage doctors and other medical professionals to use the system, NCS worked with Roche to hold seminars to educate end-users about the merits of using the KTMS. At these seminars, NCS IT professionals provided the end-users training as well as answered any technological enquiries they might have. A series of one-day seminars and two-day training sessions were carried out in the pilot run to facilitate higher user adoption.

**The Benefits ■** The KTMS allowed for the integration of patient records across various hospitals in geographically diverse provinces - ensuring ease of processing, retrieval and cross-reference among doctors. The first of its kind in China, the system will be marketed throughout China by Roche to become the first Pan-China system that encourages such knowledge sharing among medical professionals.

NCS helps healthcare professionals achieve innovation and service enhancement through the strategic use of IT.

## Contact NCS Group today!

As the region's leading IT and communication engineering solutions provider, NCS Group aims to work closely with customers to create business value through the innovative use of IT. With proven experience and expertise in consulting, development, integration and managed services, we bring end-to-end support for your organisation's entire technology life cycle. For more information, please visit [www.ncs.com.sg](http://www.ncs.com.sg).