

移植個案管理系統功能優化與IOT資訊整合介接

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摘要

為提升器官移植病人及移植器官存活率，以往透過口頭說明及紙本病友手冊進行指導，因應移動式裝置普及，整合病友手冊與自主管理平台，國內第一個針對器官移植病人的互動式管理平台—心肝寶貝雲App，已於2021年6月正式上線，聚焦於移植後自我照護及監測能力提升，經由百餘位受贈者使用及反饋，加上醫療端之建議，評估後仍有進步空間，諸如：非本科醫療團隊對移植病人不熟悉，導致做醫療決策時有一定程度的困難，且醫學數據對於一般民眾而言僅是艱澀難懂的數字，無法真正達到警示的效果。經多方考量與積極配合本院App整合管理目標，將針對三點做優化：1.增加「待贈者」、「受贈者」及「活體捐贈者」自動生成醫療卡之功能，利於院內外醫療團隊快速掌握病人資訊，2.針對「受贈者」之特定抽血、尿液等檢驗項目，於特定期間推送以圖文方式主現健康成績單，賦權病人對自己的健康負責，3.透過與移植個案管理系統及外科部近期開發中之手術照護App介接整合，納入醫護、器官待贈者、活體捐贈者及家屬等對象，善用手術照護App所開發之各項微服務以擴大使用者族群，俾使病人及其家人能充分了解身體變化，達到提升自我監測的目的，也利於醫療團隊做出正確的醫療決策。

關鍵字:器官移植、健康行動程式、醫療卡、健康成績單、個案管理

Abstract

In order to improve the survival rate of grafts and patients, we provided patients health education through oral instructions and handbooks in the past. Nowadays, the integration of patient handbooks and self-management platforms via mobile devices are popular with people. The first interactive management platform for organ transplant patients in Taiwan- ISAI Cloud App- has been launched in June 2021. It was designed to improve awareness of self-care and monitoring of patients' condition. There are still challenges after the assessment of feedbacks from medical experts and more than 100 recipient users. For instance, the medical team, which specialty is not transplant surgery, is to a certain degree of difficulty in making medical decisions without thorough understanding of the patients' past history due to lack of integrated medical records. Besides, the professional data is difficult for patient and family to interpret, which cannot accurately achieve the effect of warning and sometimes misunderstanding as well. Transformation of the App is necessary with the issues of integration management goals after considering and cooperating in three aspects: 1. generate medical cards automatically for "patients on the waitlist", "recipients" and "living donors", which is conducive for the medical team to grasp information quickly, 2. send a transcription of health report about the specific blood and urine tests during specific periods for recipients with standardized graphs, which empowers patients to be responsible for their own health without misunderstanding, 3. Maximize the content of services and user populations, including medical experts, patients on the waitlist, living donors and family members 'etc., through the integration of the transplant case management system and the app developed by the Department of Surgery. By this means, patients and families can fully understand the changes of the health status, achieve the purpose of improving self-monitoring, and facilitate the medical team to make correct medical decisions with confluent communications.

Key words: organ transplantation, mobile health applications, medical cards, transcription of health report, case management.