

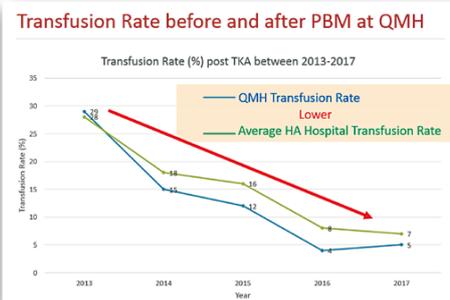
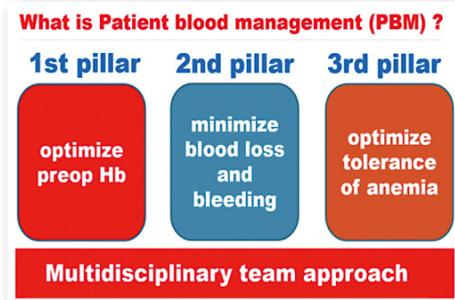
## Working towards Transfusion-Free Total Knee Replacement Surgery through Patient Blood Management Programme

By Chan PK<sup>1</sup>, Hwang YY<sup>3</sup>, Chan CW<sup>2</sup>, Yan CH<sup>1</sup>, Amy Cheung<sup>1</sup>, Henry Fu<sup>1</sup>, Cheung MH<sup>1</sup>, Chiu KY<sup>1</sup>,

<sup>1</sup> Department of Orthopaedics and Traumatology; <sup>2</sup> Department of Anaesthesiology; <sup>3</sup> Department of Medicine, Queen Mary Hospital

Recurrent blood shortage and transfusion related risks raised the concern of proper blood usage. Patient Blood Management (PBM) programme is encouraged worldwide and it involves the use of multidisciplinary, multimodal, individualized strategies to minimize transfusion with the ultimate goal of improving patient outcomes.

Queen Mary Hospital (QMH) is one of the pioneers in Hong Kong involving these strategies. PBM was introduced with the aim of minimizing perioperative blood transfusion in joint replacement surgery, which could potentially increase the patient's risk of surgical site infection. Multidisciplinary team approach was applied with the collaboration of surgeons, anaesthesiologists and haematologists. The measures included preoperative anaemia identification and optimization, reducing intraoperative blood loss by the use of tranexamic acid, restrictive transfusion protocol and single unit transfusion policy.



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Anaemia is associated with increased risks of postoperative infectious complications, prolonged hospitalization, and allogeneic transfusion. In 2017, we identified 10% of patients were anaemic before Total Knee Arthroplasty (TKA) according to our preoperative anaemia protocol. They were referred to haematologist in our hospital for the assessment and optimization before surgery.

With the PBM programme, perioperative transfusion rate in TKA was reduced from 29% in 2013 to 5% in 2017, while QMH has a lower transfusion rate in TKA when compared to the average transfusion rate in HA hospitals. The successful results demonstrated the improved patient safety and outcomes and it is an optimal management to handle blood shortage and adjust resources allocation in hospitals.



### Editorial Comments

Patient Blood Management (PBM) is to optimise the management of patient and transfusion of blood products for quality and effective patient care. QMH's experience sharing on the PBM programme for total knee replacement surgery is encouraging. It not only vividly demonstrates how PBM works for the good of patients and alleviates the economic and operational pressures, but also the importance of multidisciplinary collaboration, engagement and support of clusters to promulgate and implement PBM initiatives.

Dr Linda YU,

Chief Manager (Clinical Effectiveness & Technology Management), HAHO

# Enhanced Breast Cancer Postoperative Discharge Programme

By **Dr Sharon Wing Wai CHAN**, Clinical Director, Kowloon East Cluster Breast Centre, Consultant, Department of Surgery, United Christian Hospital

In Kowloon East Cluster Breast Centre of United Christian Hospital, a clinical pathway for breast cancer operation has been established since 2013, aiming to shorten hospital stay by multimodal perioperative care. However, there is still an unmet need in the transition from postoperative care in hospital to home setting, which leads to an increasing trend of Accident & Emergency Department attendance and unplanned readmission. To bridge the gap, the Enhanced Breast Cancer Postoperative Discharge Programme was developed in 2016.

This Programme aims to make patient discharge journey **Safe and Seamless** through our ABCDE approach.

1. **Accessible Back up** support
2. **Coordinated** discharge planning and post discharge management
3. **Delegation** of wound and drain management to nurses
4. **Empowerment** of patient self-care techniques

This includes the **4T** services:

1. Clear clinical guideline to **Triage patients** to be managed in home-environment, ambulatory or hospital setting.
2. **Training workshop** to ward nurse, community nurse and breast nurse on wound and drain management.
3. Patient education talks and reminder cards on **home care Techniques**.
4. **Telephone service** to patient by community nurse and **telephone hotline** for back up support to patient, community nurse, ward nurse and breast nurse.

After set up of the programme, we are able to reduce unplanned readmission by 66%, AED attendance by 55% and hospital length of stay by 50%. Patient and staff satisfaction including community nurse, ward nurse, breast nurse and surgeons are all increased because of coordinated and streamlined patient care<sup>1</sup>.

<sup>1</sup> Best Oral Presentation, HA Convention 2018

**Enhanced Breast Cancer Postoperative Discharge Program: reducing unplanned readmission and increasing staff and patient satisfaction**

Wong KY<sup>1</sup>, Wong SL<sup>2</sup>, Lau WL<sup>3</sup>, Chan SWW<sup>1</sup>, Ng PC<sup>1</sup>, Lau SY<sup>2</sup>, Lee KY<sup>3</sup>, Leung SH<sup>3</sup>, Lee M F<sup>2</sup>, Chow TL<sup>2</sup>

<sup>1</sup> Kowloon East Cluster Breast Centre, United Christian Hospital

<sup>2</sup> Department of Surgery

<sup>3</sup> Community Nursing Service



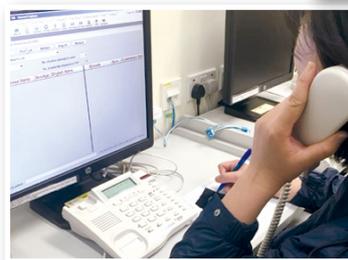
Readily **Accessible Back up support** from surgical team



**Triaging** patient using Clinical guideline uploaded to electronic device for easy reference during home visit



**Training workshops** on wound and drain management



**Telephone service** to patient during weekends and public holidays by community nurse

## Editorial Comments

*Effective engagement, training and empowerment of all stakeholders are the key to success in this discharge programme. This is amply reflected in the impressive reduction in unplanned readmission, AED attendance and hospital length of stay. Patients' as well as staff's satisfaction have justifiably increased too!*

**Hon. Assoc. Prof. William C M CHUI**,  
Clinical Stream Coordinator (Pharmacy), HKWC



# Launch of New Smartphone Mobile App for Diabetes Patients with Self-monitoring of Blood Glucose

By **Dr Wai Sheung WONG**, Associate Consultant, Department of Medicine, North District Hospital

Given an aging population in Hong Kong, our health care system has made it a priority task to prevent and treat chronic illness among the people. Diabetes mellitus, one of the commonest chronic diseases, not surprisingly, poses a significant challenge to our health care system. To tackle it, patient's engagement and the ability of self-care are the critical elements of success.

Mobile phone has become a necessity for everyone in this modern electronic era. It is not only an effective tool for information delivery but also be utilized to close the communication loop. Besides, patients can always carry their health records including self-monitoring of blood glucose (SMBG) record during follow up.

In collaboration with Information technology (IT) department of New Territories East Cluster (NTEC), a mobile app named "DM Care" was designed for the diabetic patient in 2017. It was composed of an electronic SMBG record, reminder and electronic version of diabetes information leaflet. Using digital transformation, paperless clinical service can be further implemented. Besides, these readily available information and user-friendly functions can support the patient anytime and anywhere to manage their chronic illness.



本程式提供的健康資訊是用作一般教育及參考之用。如你所對所接受的護理及治療有任何問題，應向醫護人員查詢。

[提出意見](#)

[本應用程式的聲明](#)

[使用指南](#)



DM Care 糖訊通 v1.5  
醫院管理局2017版權所有

**請即下載「糖訊通」**  
**糖尿自理更輕鬆**

**DM Care 糖訊通**  
協助管理糖尿病

應用程式「DM Care 糖訊通」提供糖尿護理的相關資訊、影片及血糖記錄功能。用戶可輸入個人血糖度數，食物/有關資訊和照片作記錄，程式設有圖表分析。

此外，用戶亦可設定量度血糖、用藥及覆診提示，協助患者管理糖尿病。

(備註：此程式現正在新界東聯網醫院包括威爾斯親王醫院、雅麗氏何妙齡那打素醫院、北區醫院和普通科門診試行推廣)

掃描二維碼下載程式，或在蘋果 / 安卓應用程式商店內搜尋「DM Care 糖訊通」、「PWH」、「AHNH」或「NDH」

程式內容為中文製作。如有查詢，請聯絡威爾斯親王醫院、雅麗氏何妙齡那打素醫院或北區醫院糖尿中心。  
The content in the App is in Chinese. For enquiries, please contact the diabetes centres of PWH, AHNH or NDH.

DM Care was launched and piloted in 2017 at the Medical Outpatient Clinic (MOPD) and Family Medicine Clinic (FMC) in NTEC. It was well recognized and appreciated by our diabetes patients and carers. More than 30000 cumulative downloads were recorded, and more than 90% responder offered positive comment. Backing with the support from our patients, it is deeply convinced that "DM Care" mobile app has an enormous potential for future development to become a new platform for patient engagement.

## Editorial Comments

*Patient empowerment is important in patient-centered healthcare. By using healthcare apps, chronic disease patients can keep track of their own health as well as connect with their healthcare providers regarding any concerns. It helps to promote autonomous self-regulation and treatment compliance, so that the potential of health and wellness can be maximized.*

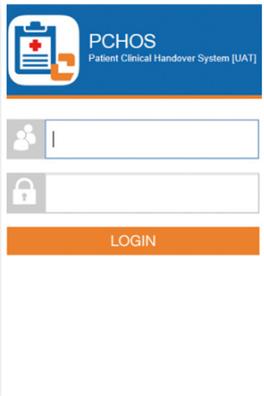
**Dr Joanna PANG,**  
Chief Manager (Health Informatics), HAHO



# A Comprehensive Clinical Handover Ensures Correct Patient Information Transfer and Continuity of Care

**Kowloon West Cluster**

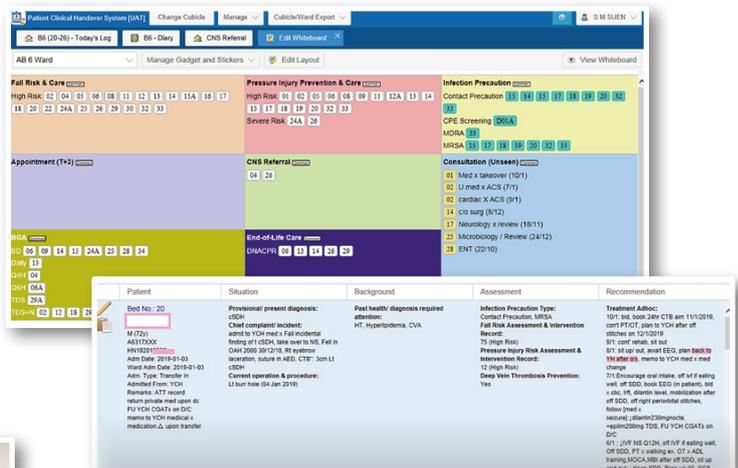
By **Ms S M SUEN**, Department Operations Manager(Neurosurgery & Integrated Care Centre); **Ms Candic TANG**, Department Operations Manager (Medicine & Geriatrics) ; Members of Patient Care Process Audit Workgroup; Information Technology Department, Princess Margaret Hospital



Clinical handover is crucial and integral in patient care management to ensure continuity of care. Princess Margaret Hospital has launched a new electronic platform Patient Clinical Handover System (PCHOS) to facilitate the transfer of information. SBAR (Situation, Background, Assessment, and Recommendation) format was adopted in the system to facilitate effective communication among nurses with standardized template. This system allows individualization of patient care plan for integrated care. Nurses could make use of the saved information for clinical handover, care planning and utilize eWhiteboard to organize daily patient activities. Patient information could also be shared with Community Nurses in the system for care coordination upon patient discharge.

Human errors during copying and information transfer were largely diminished after implementation of the system. All patient care was coordinated throughout the whole patient journey from admission to discharge in a one-stop system.

The program was piloted in Neurosurgery and Medicine & Geriatrics Department in Nov 2017 and was then rolled out to other departments. Its flexibility was well accepted while the program was implemented in psychiatric setting of Kwai Chung Hospital and rehabilitation setting of Lai King Convalescent wards in 2018.



## Editorial Comments

Effective clinical handover system is essential in promoting accurate transfer of critical information to ensure patient safety. This electronic handover system in KWC provides a platform for effective communication and care planning. It is another example of adopting information technology solution to facilitate clinical operation, quality and safety of patient care.

**Dr Venus SIU, Dep. Chief Manager (Quality and Standards), HAHO**

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### Comments are welcome

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