

### **Project Title**

Streamlining Renal Dialysis Centre Operations

### **Project Lead and Members**

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### **Organisation(s) Involved**

Singapore General Hospital

### Healthcare Family Group(s) Involved in this Project

Nursing, Healthcare Administration

### **Applicable Specialty or Discipline**

Operation, Nephrology, Office of Safety Network

### Aims

To streamline renal dialysis centre's operations

### Background

See poster appended/below

### Methods

See poster appended/below

### Results

See poster appended/ below

### Conclusion



### CHI Learning & Development (CHILD) System

See poster appended/ below

### **Project Category**

Care & Process Redesign

Quality Improvement, Workflow Redesign, Lean Methodology, Value Based Care, Productivity

### Keywords

Haemodialysis, Value Stream Mapping, Ergonomic

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# Streamlining Renal Dialysis Center Operations

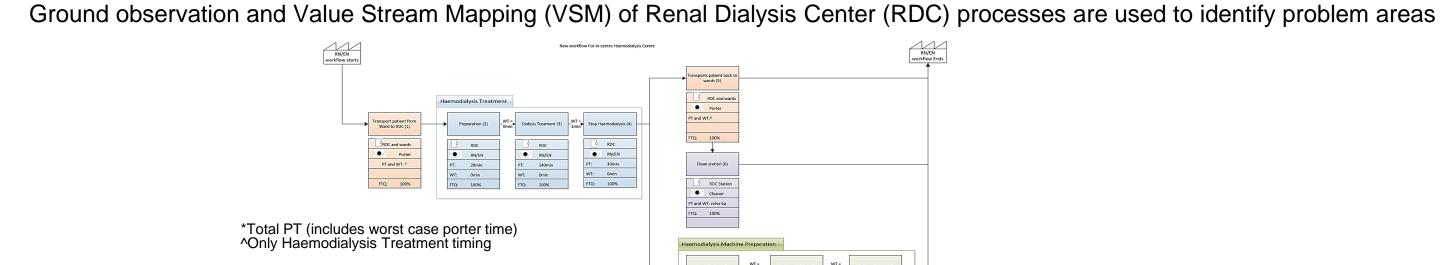
Renal Dialysis Centre (RDC) provides Hemodialysis (HD) treatment for patients admitted to Singapore General Hospital. Dialysis treatments are provided as both In-center and Out-center services. For In-center service, RDC operates 20 dialysis stations on full-time six days per week, and part-time for emergency care on Sunday. For patients who are suffering from severe shock, trauma, post cardiac and vascular surgery, or hospitalized at intensive care units (ICUs), ICAs and Isolation Wards, out-centre dialysis is provided at the patient's bedside.

### Workflow Streamlining Renal Dialysis Center Operation After 4 hrs Porter informs Patient Service Porter bring patients Porter bring dialysis Nurses starts back to ward Associates (PSA) that patient dialysis for patients patients to RDC has arrived. Porter brings to dialysis stations

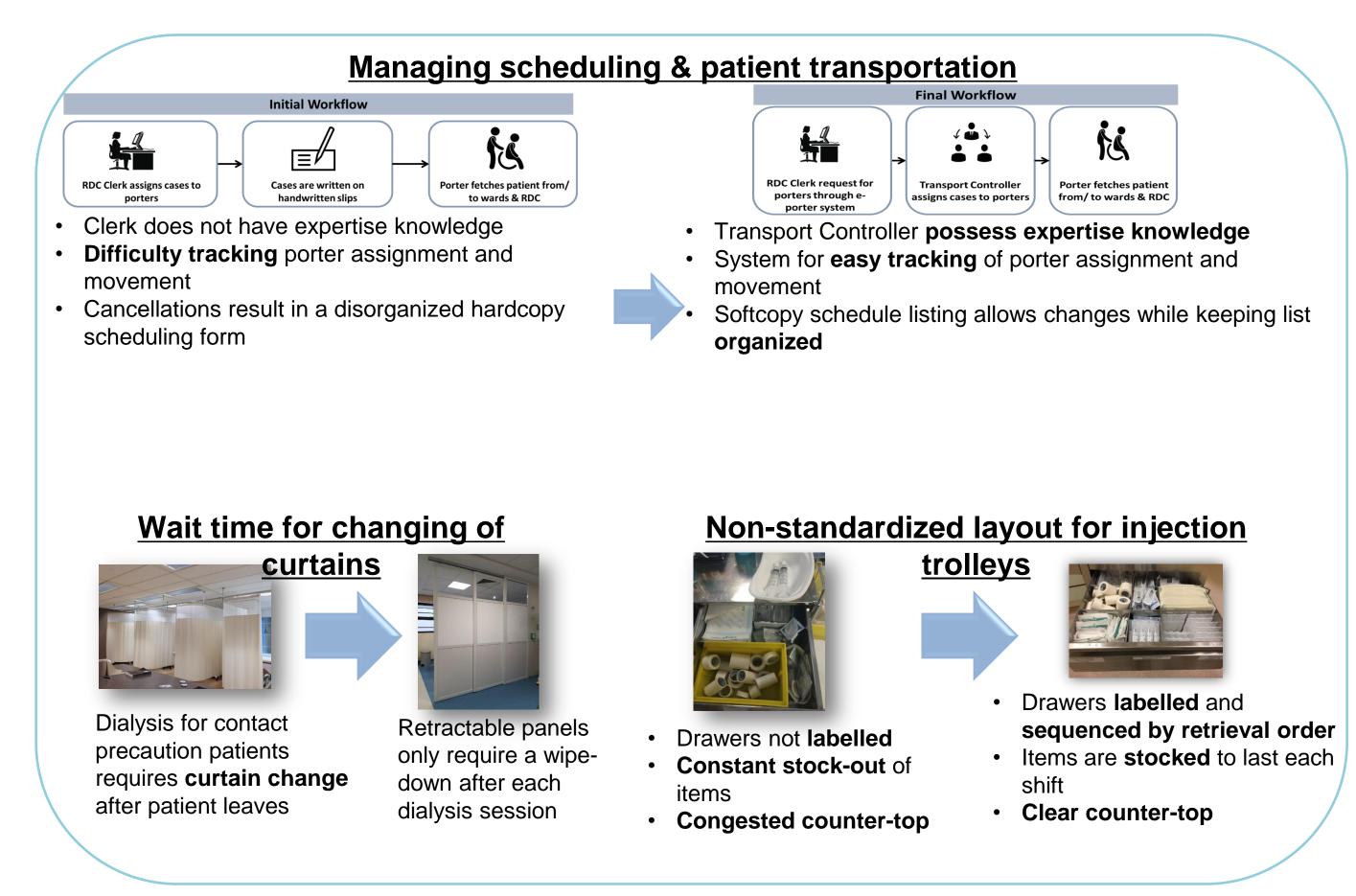
## **Problem**



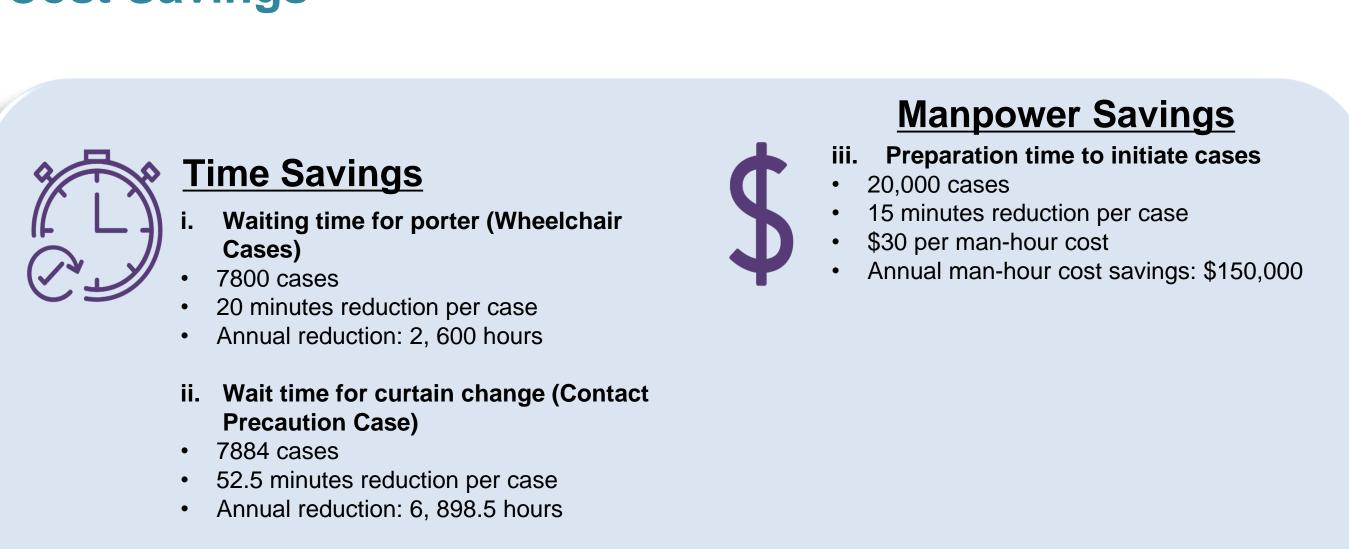
## Methodology



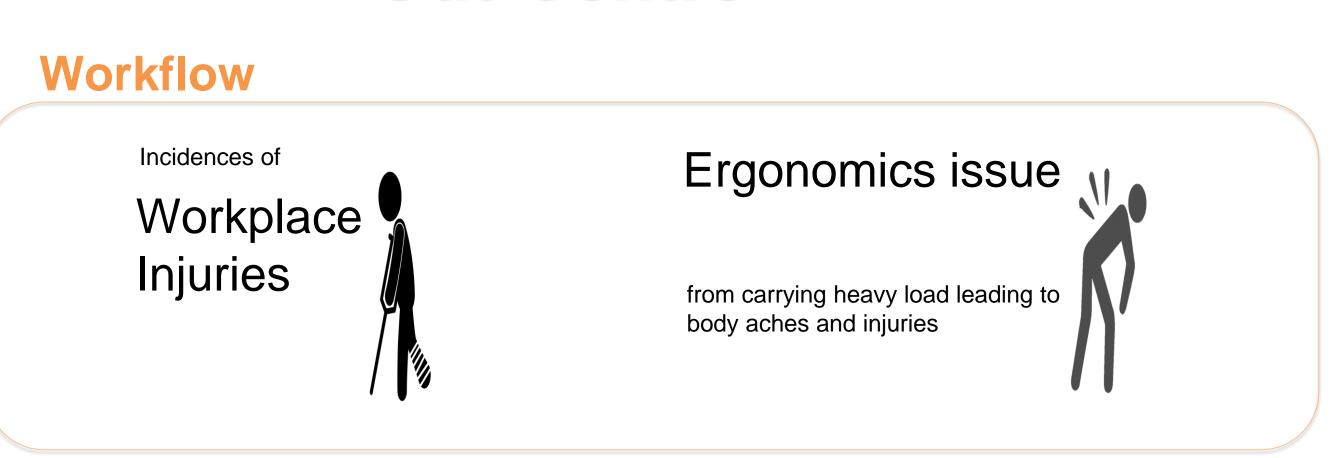
## Findings & Solutions



## **Cost Savings**



## **Out-Centre**

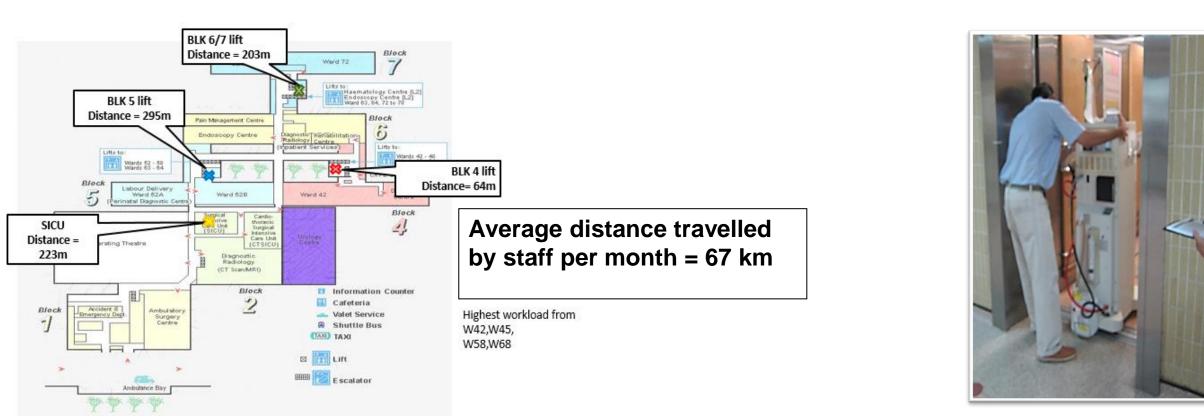


## **Problem**



## Methodology

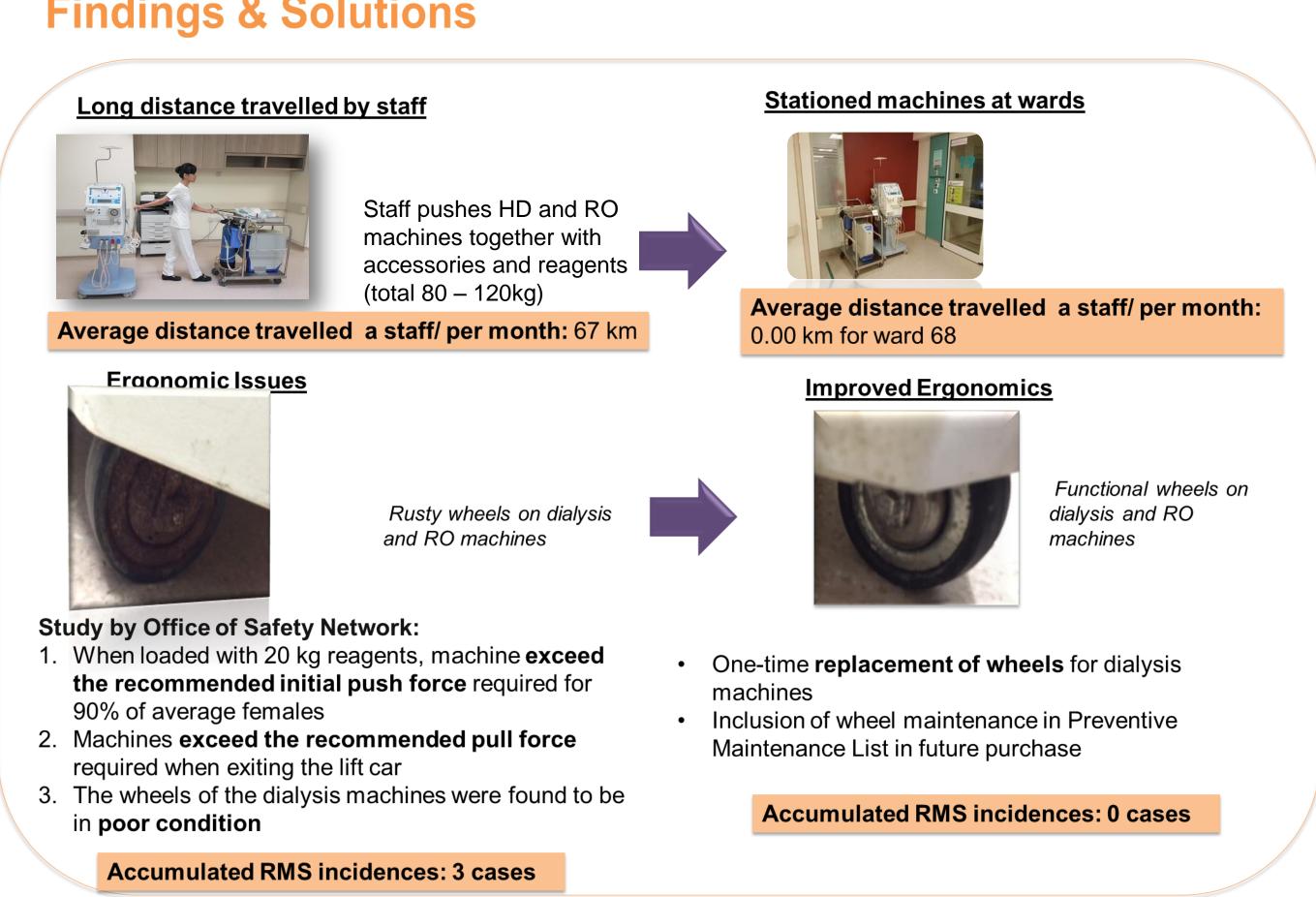
(1) Distance travelled by nurse from RDC to wards was mapped and calculated. (2) Ergonomics study by Office of Safety Network



## Findings & Solutions

ravel time : Excludes takeover cases – cases will require staff to push machines up to wards. Doesn't include the number of machine pushed

Distance are approximate. Includes travel to and from wards



## **Cost Savings**

