



**Singapore Healthcare
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To improve current work processes during Peritoneal Dialysis (PD) patient training for patients, caregivers and staff



**Singapore
General Hospital**
SingHealth

Wu Sin Yan / Kok Su Fong / Lee Pei San
Peritoneal Dialysis Centre, Singapore General Hospital

Aim

To improve current work processes during PD patient training for patients, caregivers and staff, through the implementation of the new PD table.

Background

Patient education in peritoneal dialysis is essential to developing a successful home-based peritoneal dialysis program. Adequate training of patients and caregivers in proper PD technique is an important and necessary strategy to decrease infection rates. A quiet and spacious training space with adequate furniture is essential for PD training.

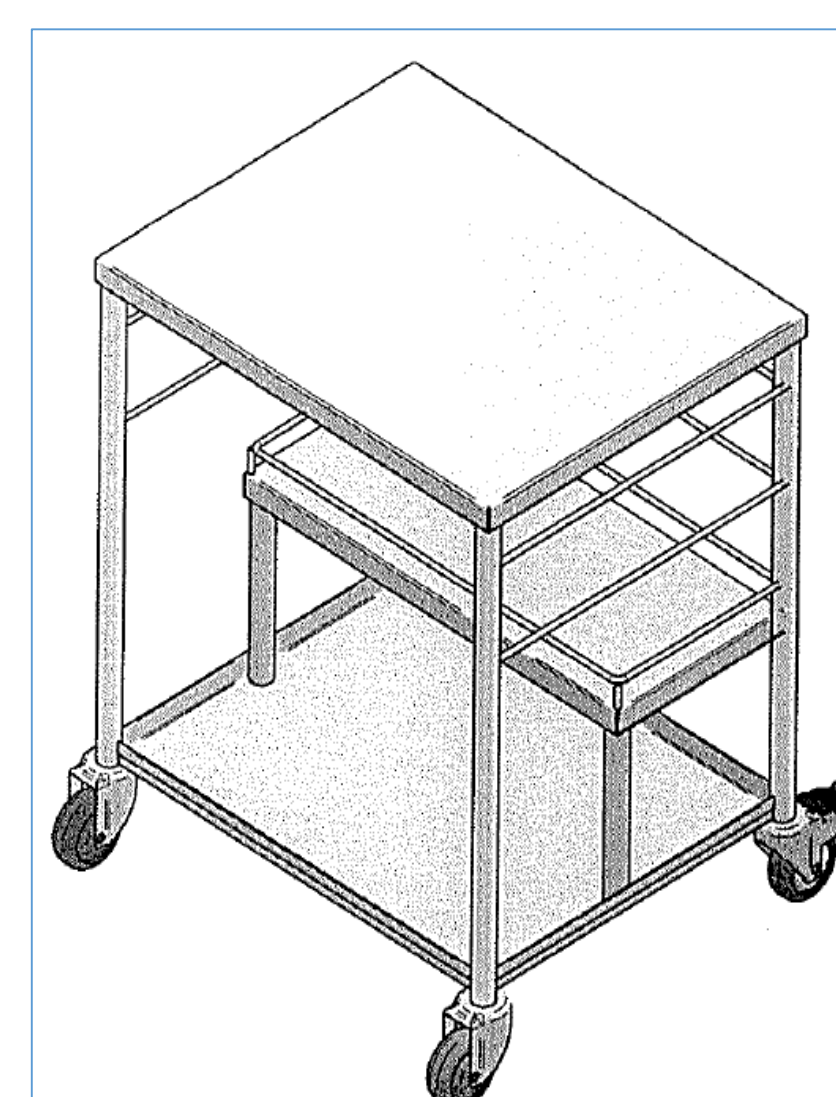
The PD table currently in use during PD training has the following problems and limitations:

- The laminated wood material and poor segregation of sterile and non-sterile items results in poor compliance to infection control guidelines.
- Poor ergonomics - patients, caregivers and nursing staff have to bend about 8-10 times per patient to retrieve

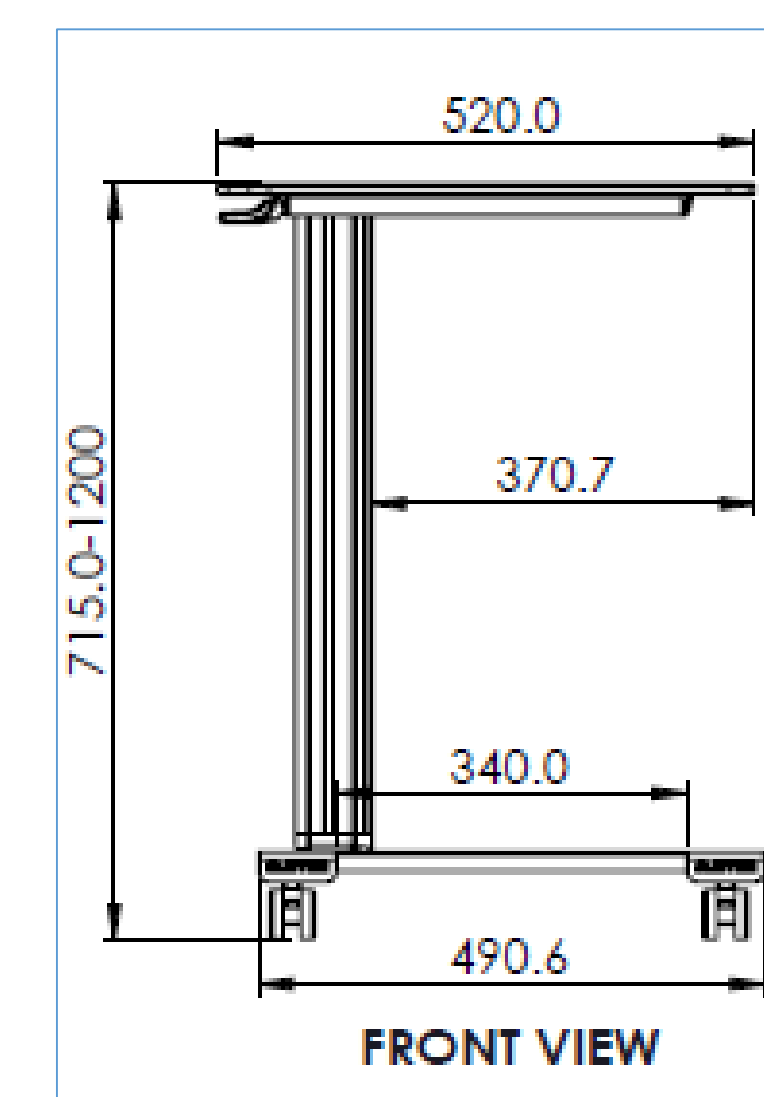


PD Effluent
Drainage bag

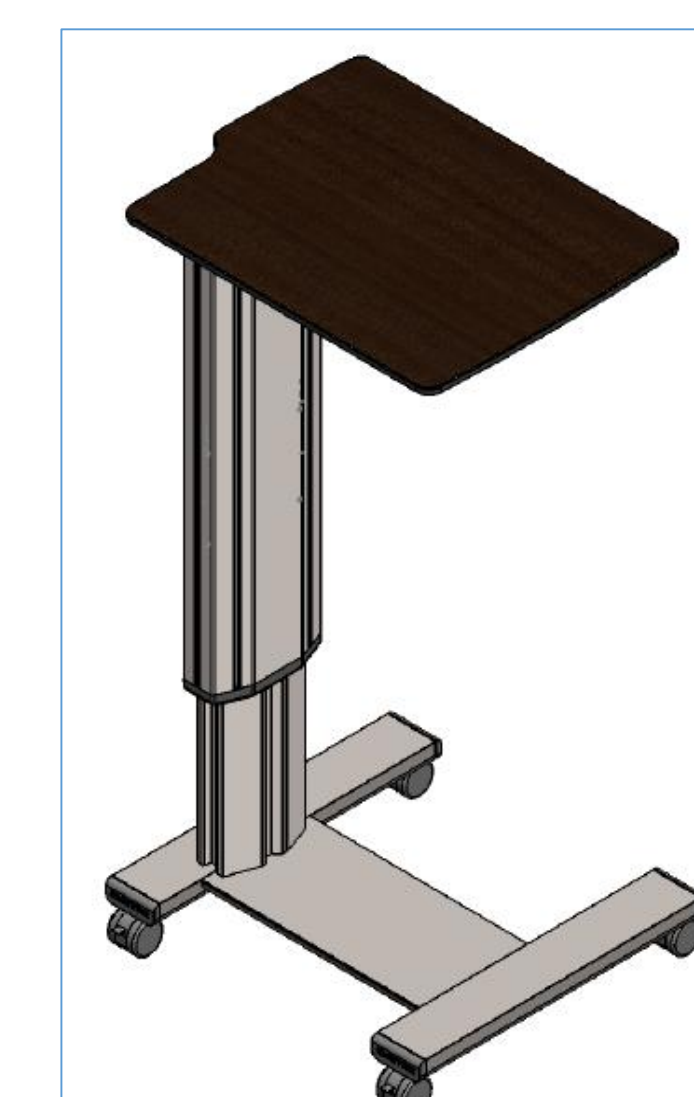
Design process



Stainless steel table



Re-design a cardiac table with adjustable height

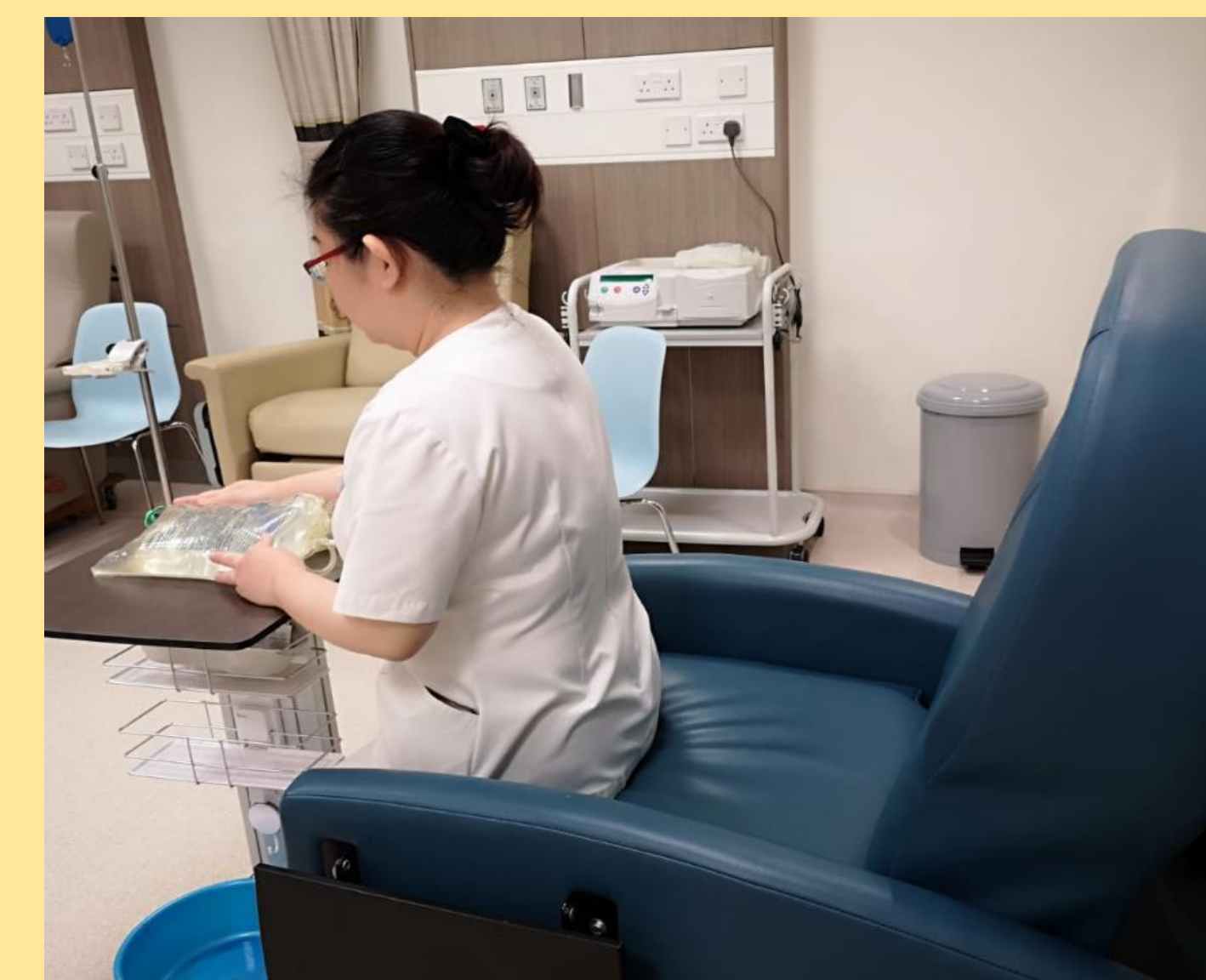


Result

The vendor constructed the table with adjustable height based on the design specifications stipulated. A sample of the PD table below:



Attached handrub holder, 2 compartments for PD items and a hook for hanging the basin



Improved ergonomics

Methodology

The project team brainstormed and decided that they will have to redesign the entire PD table to incorporate new features to eliminate their current problems:

- As part of the design process, the team worked on the exact technical specifications they envisioned for the new PD Table.
- This was done through a process of examining all the PD training items currently in use and deciding on where each item should be placed using the 6S methodology.
- The measurements PD training items were taken to ensure that all items can fit well into the new table. The project team went through 3 rounds of discussion to confirm the final design template of the new PD Table.

This project was a success with the following results achieved:

- Adequate space for all relevant PD items.
- Compliance to infection control guidelines with proper segregation of sterile and non sterile items in top and lower compartments respectively.
- After 1 months of implementation, end users gave a 100% satisfaction rating to the new PD Table.
- Improved ergonomics with the adjustable height table, users have no more bending to retrieve PD items.

Conclusion

The targets that the project team wanted to achieve were all delivered with very good outcomes. This PD Table can be implement for other PD centre / services.