

Project Title

Inventory Management of Non-Standard Anaesthesia Unit Consumables In Operating Theatre

Project Lead and Members

Project lead: SNM Joanna Tan

Project members: SSN Mary Jane, Christina Lim, Eliza Wang, Averie Lim

Organisation(s) Involved

Ng Teng Fong General Hospital

Aims

Reduce unconsumed non-standard AU consumables from contracts established. Decrease unconsumed and expired non-standard AU consumables to \$0. Identify gaps in the current process and re-design the process, roles and responsibilities of the parties involved.

Background

See poster below

Methods

See poster below

Results

See poster below

Lessons Learnt

It is important to share our improvement methods with other disciplines. Given the different natures of non-standard consumables in different disciplines, not all of the improvement methods may need be adopted and some modifications / adaptations are needed.

Conclusion

See poster below

Project Category

Care & Process Redesign

Keywords

Ng Teng Fong General Hospital, Care & Process Redesign, Quality Improvement, Improvement Tools, Fish Bone Diagram, Inventory Management, Consumables in Operating Theatre, Non-Standard Consumables

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INVENTORY MANAGEMENT OF NON-STANDARD ANAETHESIA UNIT CONSUMABLES IN OPERATING THEATRE

- SAFETY
- PRODUCTIVITY
- PATIENT EXPERIENCE
- QUALITY
- VALUE

MEMBERS: SNM JOANNA TAN, SSN MARY JANE, CHRISTINA LIM, ELIZA WANG, AVERIE LIM

Define Problem / Set Aim

Problem

Multiple purchases and contracts were done and established during the setting up of NTFGH OT Complex in 2015, when planning was based on full operating capacity at 18 ORs. This has resulted in overstocking of consumables as currently, there are only 11 ORs in use.

- (1) In April 2017 – March 2018 (FY2017), non-standard AU consumables that were purchased and stored in OT and not consumed resulted in a wastage of \$9,108.
- (2) As of 1 April 2018, there is still \$101,620 worth of non-standard AU consumables on old contracts that have not been consumed.

Aim

- (1) Reduce unconsumed non-standard AU consumables from contracts established.
- (2) Decrease unconsumed and expired non-standard AU consumables to \$0.
- (3) Identify gaps in the current process and re-design the process, roles and responsibilities of the parties involved.

Establish Measures

Chart (1): Actual Waste of AU Non-Standard Consumables

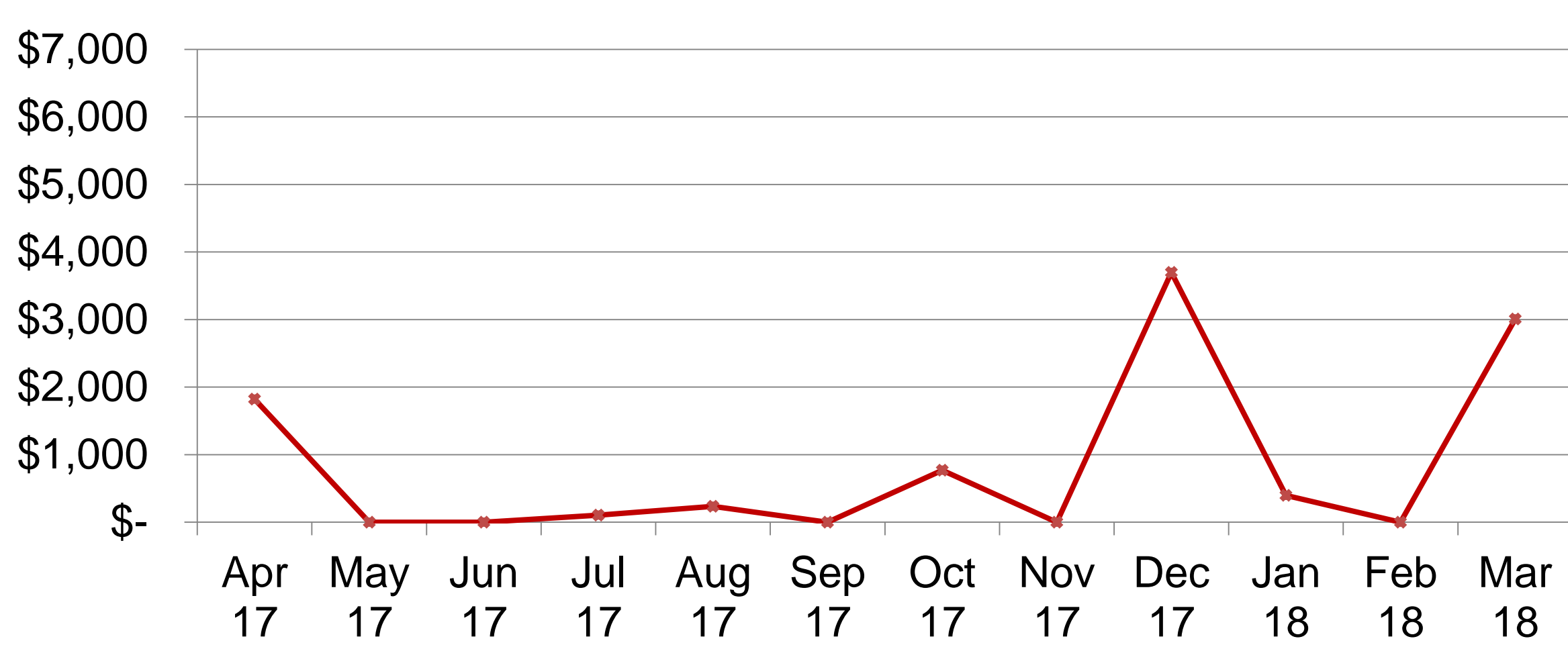
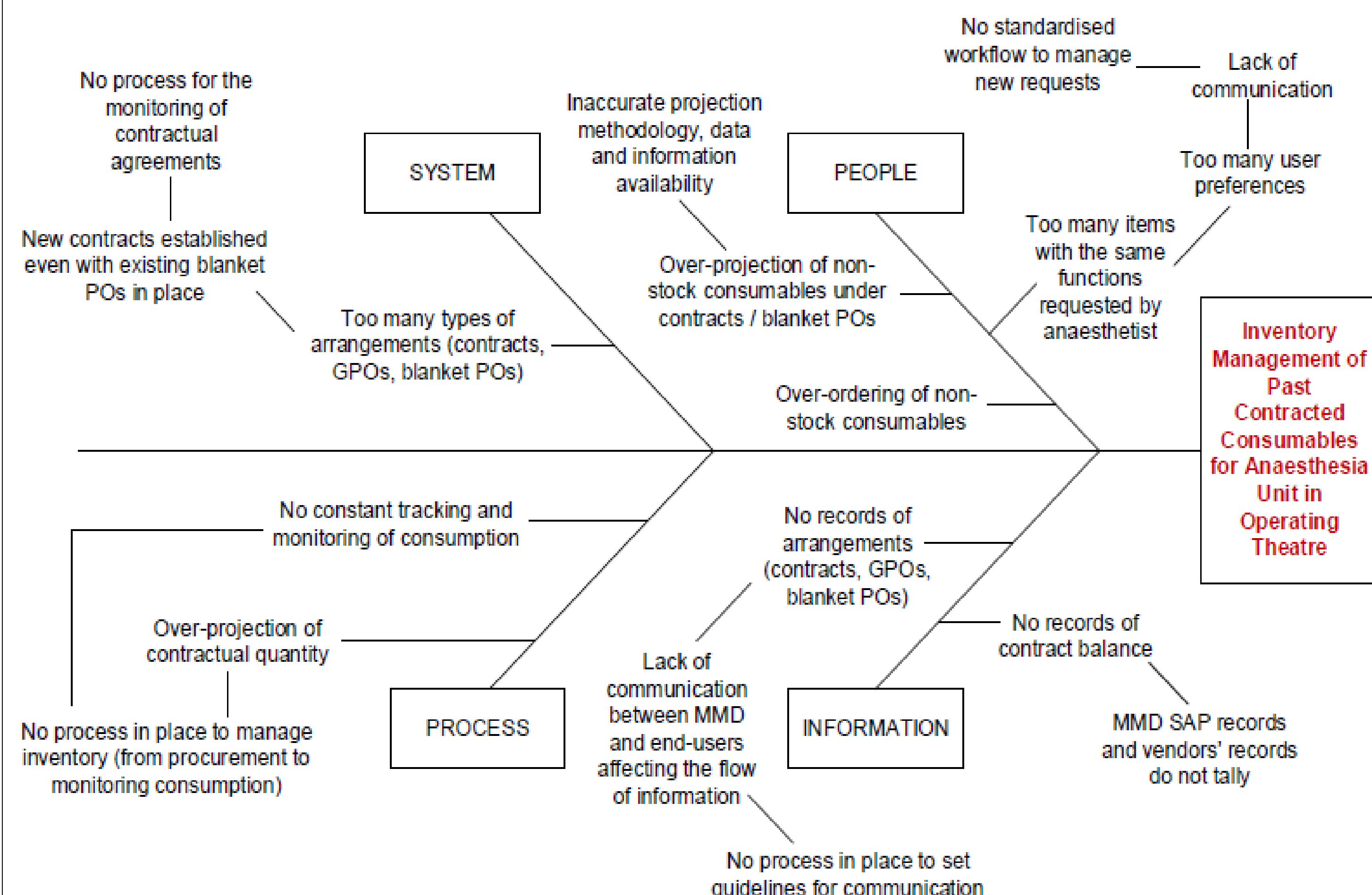


Chart (2): Unconsumed AU Non-Standard Consumables on Old Contracts



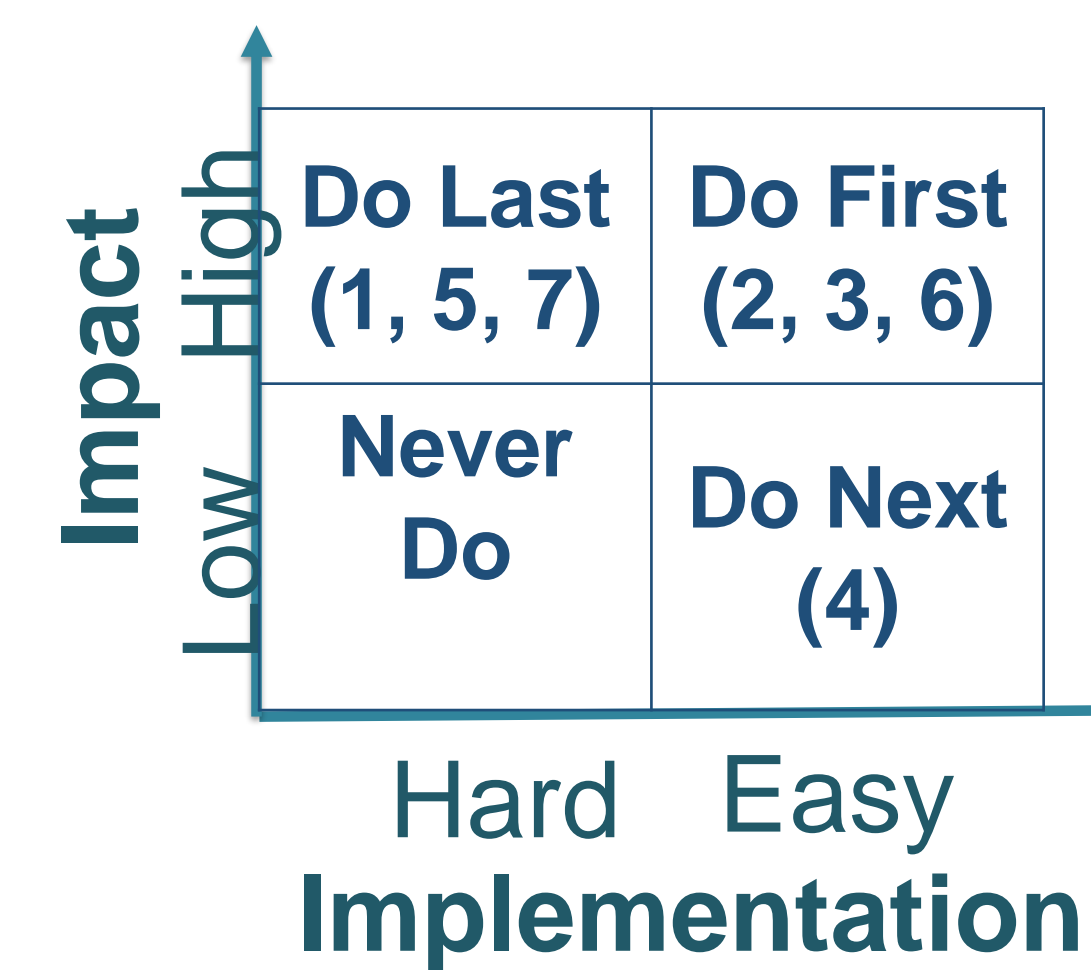
Analyse Problem

Chart (3): Fish Bone Diagram



Select Changes

Root Cause	Potential Solutions
No process in place to manage inventory (from procurement to monitoring consumption)	1 Reduce variations of existing consumables with same function
	2 Restrict variations of new consumables with same function
	3 Get updated list of contractual agreements from MMD
	4 Standardized terminologies of the description of the consumable when PRs are raised in SAP
	5 Monitor monthly consumption of contractual agreements by items, quantity and value for early detection of unused / low usage consumables. Work with vendors to resolve where necessary.
	6 MMD to request from vendors for PO balance for items on Blanket PO and contract every 6 months to monitor consumption
	7 Guidelines to ordering consumables e.g. quantity, frequency, slow / fast moving, lead time to delivery, quotation / quotation validity



Test & Implement Changes

Chart (4): Actual Waste of AU Non-Standard Consumables After Intervention

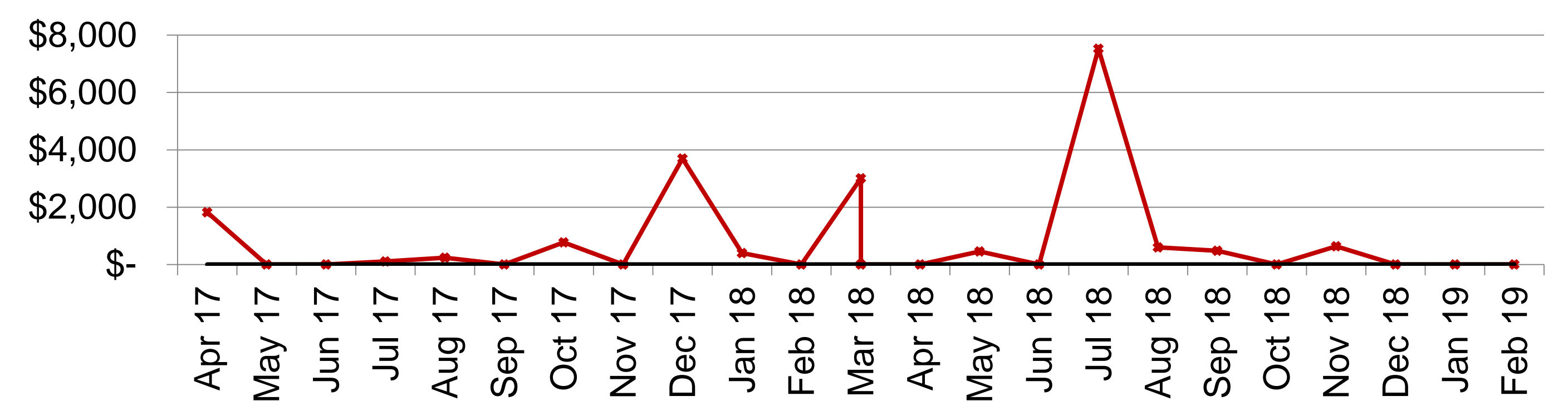
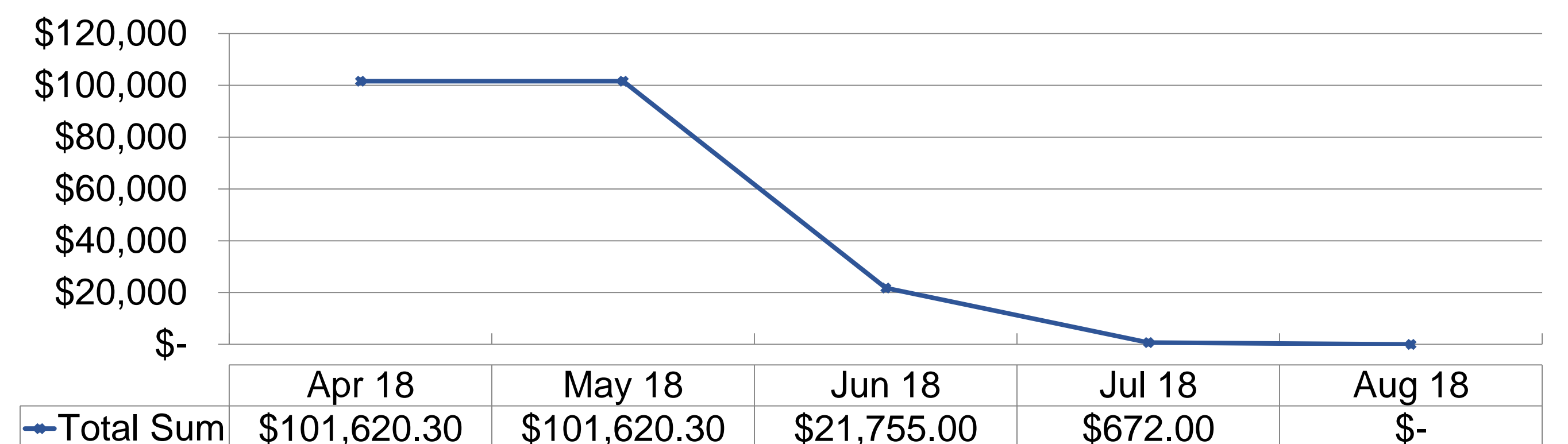


Chart (5): Unconsumed AU Non-Standard Consumables on Old Contracts After Intervention



Spread Change/ Learning Points

- The project is effective in reducing wastage of AU non-standard consumables in OT.
- Moving forward, we would share our improvement methods with the other disciplines. Given the different natures of non-standard consumables in different disciplines, not all of the improvement methods may be adopted and some modifications / adaptations is needed