



Singapore Healthcare Management 2018

QUICKPAK

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Introduction

Percutaneous nephrolithotomy (PCNL) is a minimally-invasive procedure to remove stones from the kidney by a small puncture wound through the skin. It is the preferred way for treating larger kidney stones of more than 2cm in size.

Background of the problem

Currently, before start of surgery PCNL, OR nurses i.e. scrub and circulating nurses prepare consumables and drapes for surgery. Time taken to complete this process is 20mins per surgery. There are over 37 single-use consumables required to be opened.

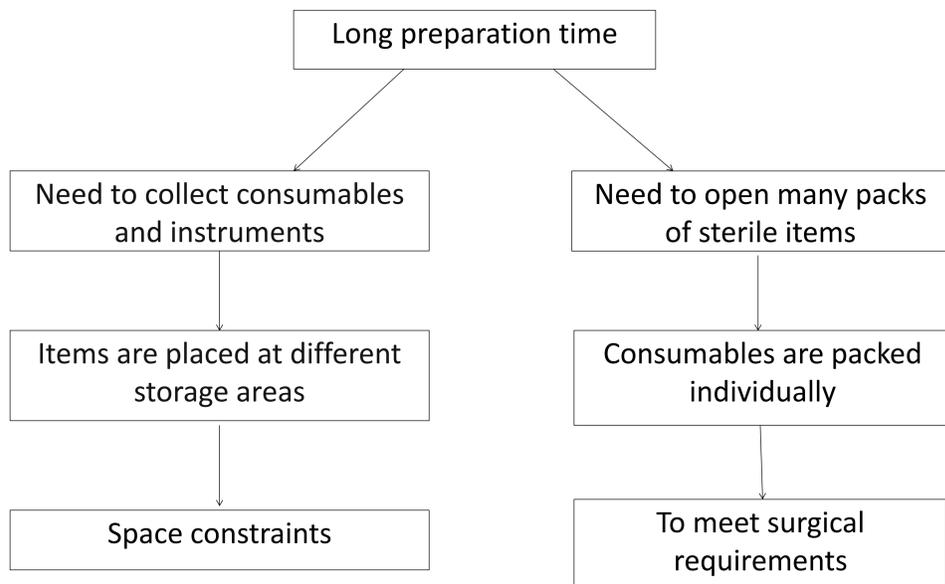
Mission Statement

To reduce time taken to prepare for (PCNL) procedure by 50% in Urology OT within 3 months.



Trolley preparation before QuickPak

Root Cause Analysis



Interventions / Initiatives

Reviewed work process, analysed the root causes and finally, brainstormed for solutions. We worked with a vendor to customize the packs according to the type of the procedure needs. The packs met the criteria of our needs in terms of quality and suitability for the surgery.

S/No.	Implementation	Responsible	Date
1.	List the items required for the surgery	Eng Hwee, Roshini York Khim	February 17
2.	Review and select items to be placed inside the sample pack	Febrianna, Roshini York Khim	March 17
3.	Evaluate the sample pack to ensure items meet the needs of the procedure	Febrianna, Roshini York Khim	March 17
4.	Arrange items in the pack in order of usage	Febrianna, Roshini York Khim	April - May 17
5.	Provide inservice on 'QuickPak' to all nurses	Febrianna, Roshini York Khim	April - May 17
6.	Conduct trial on the use of 'QuickPak' during surgery	Febrianna, Roshini	
7.	Collect feedback from surgeons and other scrub nurses.	Febrianna, Roshini York Khim	May 17

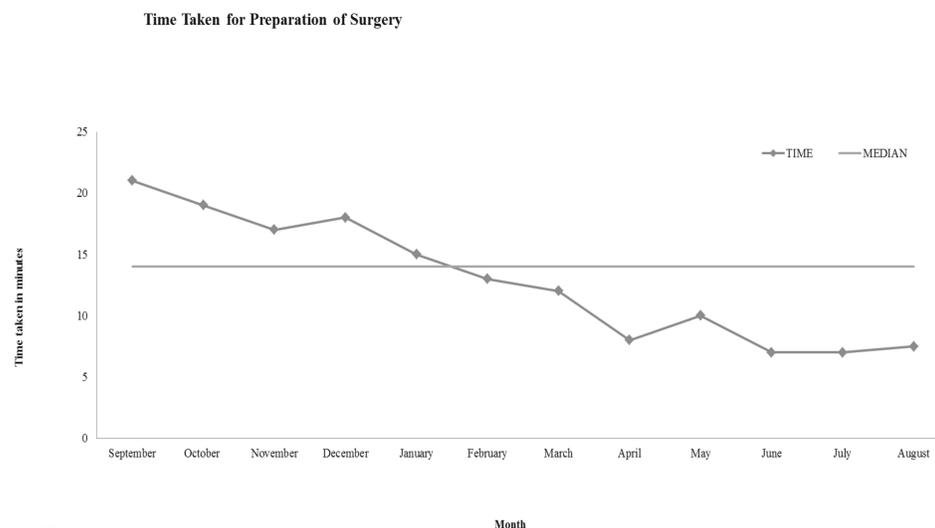
QUICK PAK – After Implementation



Results

We have met the objectives to shorten the time taken by 70%, from 20mins to 7mins. Total time savings of 13mins/surgery = 20hours / year This amounts to a total manpower savings of \$894/year based on 90 surgeries carried out.

Run chart



Benefits

The customized packs received positive feedback.

- Needs of the patient can be attended to as time is freed up for the circulating nurse while the scrub nurse is preparing her trolley
- Duration of patient under anesthesia is shorten due to quick preparation.
- The QuickPak simplifies collation of requisites.
- The pack consists of all the disposable items needed for the surgery which can be opened all at once.
- The time savings frees up circulating and allowing her to attend to patient's needs.
- Provides convenience to the OR nurse
- Surgeons are happy with the products and the shorter preparation time taken for preparation.

Sustainability Plans

- To ensure sustainability of the use of the customized packs, the packs are stored in a convenient area that is easily accessible.
- Support and training were also provided to all staff in familiarizing with the packs.
- Procedure packs are implemented for other surgeries, i.e, TUR (transurethral) Procedures

Conclusion

The Quick Pak is an alternative option for the OR team, reducing preparation time while providing a safe and secure environment for our patients as risk of contamination is lower. Using the Quick Pak improves our efficiency, productivity and patient's experience.