

CHI Learning & Development (CHILD) System

Project Title

External Staff Attachment Redesign

Project Lead and Members

Project lead: Chao Siew Mien and Koo Xin Ni

Project members: Norhazslizah Binte Rabu, Flora Khoo Boon Li and Eve Cheng Pei

Ying

Organisation(s) Involved

Tan Tock Seng Hospital

Healthcare Family Group(s) Involved in this Project

Healthcare Administration

Applicable Specialty or Discipline

Clinical Research & Outcome, Kaizen

Aims

Transform external staff attachment process and find new, better ways of doing things to improve efficiency and productivity

- Aim to achieve faster turnaround and improved user experience by designing:
- (1) seamless and transparent workflow
- (2) simple form to avoid confusion and rework

Target Outcome:

- Processing turnaround time from 3 months to 1 month
- To reduce, combine and consolidate the number of forms by at least 50%

Aligning to department initiatives in driving operational and processes efficiencies as well as digitalizing forms and approval processes wherever possible



CHI Learning & Development (CHILD) System

Background

See poster attached/below

Methods

See poster attached/below

Results

See poster attached/below

Conclusion

See poster attached/below

Additional Information

Accorded the NHG Quality Day 2021 (Category B: Service Redesign & Delivery) Merit Award

Project Category

Care & Process Redesign

Quality Improvement, Workflow Redesign

Quality Improvement, Manhour and Time saving

Keywords

Workflow Redesign, Kaizen, DOWNTIME Approach

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External Staff Attachment Redesign

Chao Siew Mien

Clinical Research & Innovation Office



Mission Statement

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Team Members						
	Name	Designation	Department			
Team Leader	Koo Xin Ni	Assistant Manager	CRIO			
Team Members Norhazslizah Binte Rabu		Executive Assistant	CRIO			
	Flora Khoo Boon Li	Assistant Manager	Kaizen Office			
	Eve Cheng Pei Ying	Sr Executive	Kaizen Office			
Sponsor	Adj A/Prof Tan Cher Heng	ACMB (Clinical Research & Innovation)	CRIO			

Evidence for a Problem Worth Solving

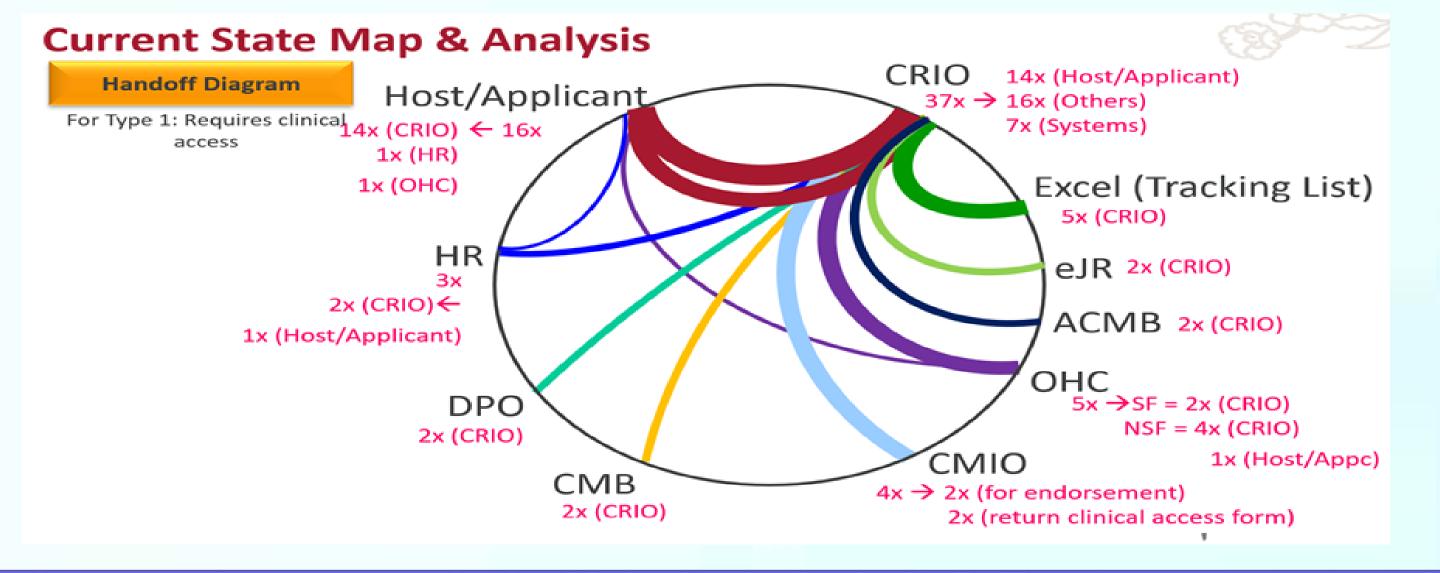
External Staff from external or other institutions are attached to TTSH to assist in research study by augmenting existing manpower to conduct research activities. CRIO coordinates the attachment process by liaising with various stakeholders such as HR, OHC, OCCI etc and seek relevant approvals for commencement of the attachment. CRIO also provides governance support by overseeing appropriate management of these external staff.

Due to the involvement of many internal stakeholders, multiple forms are required to be completed, and many points of information exchange i.e. handsoff and touch points. It creates confusion and frustration to both the requesting department and external staff. Users experience repetitive questions in some of the forms and long turn- around time on application processing.

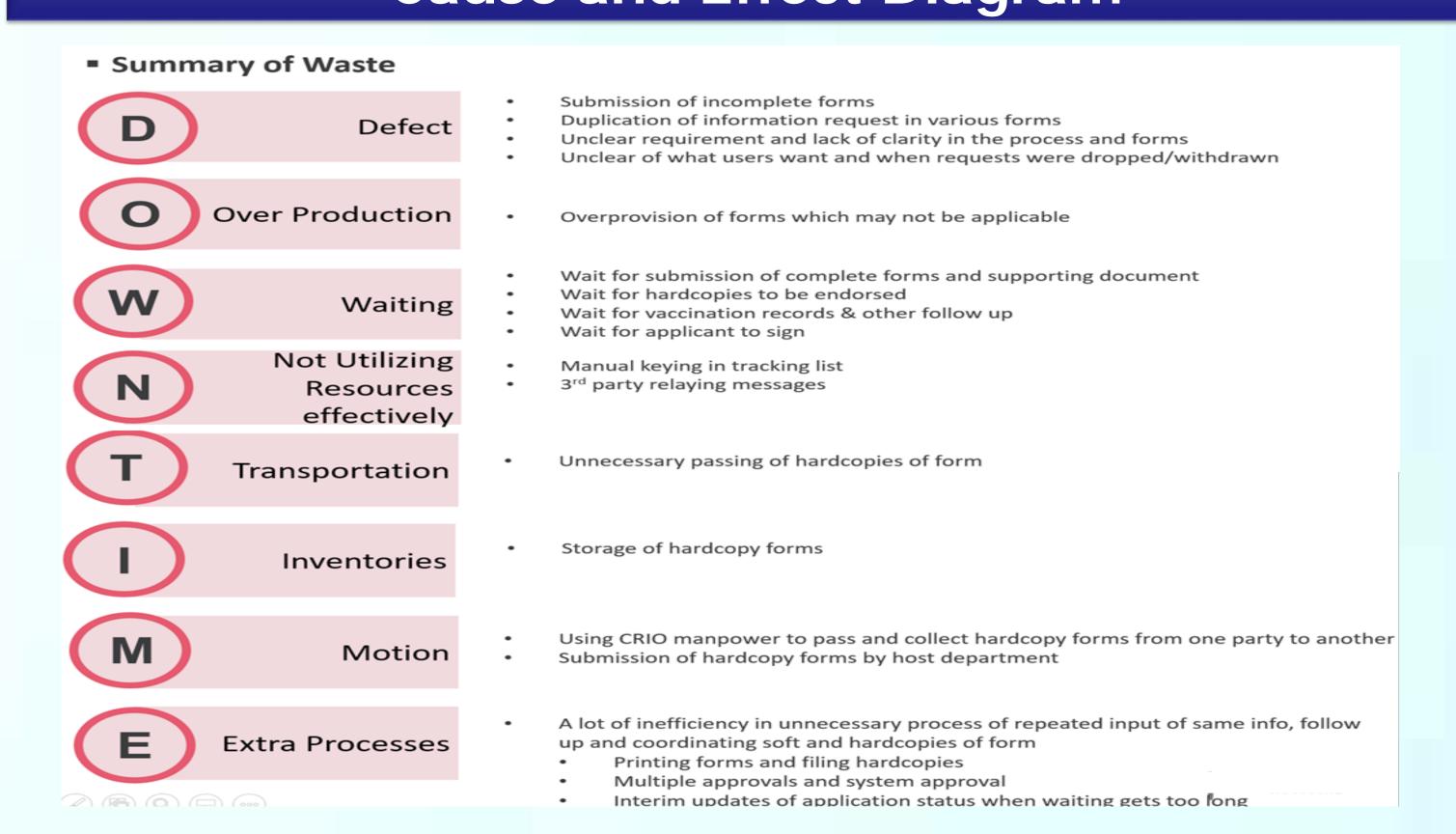
Current Performance of a Process

Average initial turn-around time was 2-3 months for each application. There were up to 19 forms to complete for each application

Flow Chart of Process



Cause and Effect Diagram



Intervention and Implementation

S/N	KEY CHANGES	BEFORE	AFTER	IMPACT
1	Simplified application form - Only data essential for CRIO's processing are required	7 pages Word Doc	1.5 page FormSG	Provide better user experience in filling up with a. Removal of duplications and unnecessary fields b. Clearer instructions and proper headers c. Easy access to form via FormSG
2	Reduced no. of documents to be submitted upfront	19 documents and forms	a. Up to 11 formsb. Projectagreements to beretrievedinternally	a. Reduced hassle and confusion to usersb. Reduce reworkc. Review process can commence earlier
3	Hard copy to Soft copy	Wet ink signature	Email endorsement is accepted	Reduce motion waste to pass hard copies around. Easy storage
4	Reduced no of approvers	a. DOP's approval requiredb. HR is required	a. 1 approver reduced within DPOb. HR is no longer needed	a. Reduced tourchpointsb. Improve turnaround in application outcome
5.	Empower user/host department	CRIO as "messenger" role	Dept empowered to liaise and obtain clearance with stakeholders	a. Reduced touch points and refinement of role from "messenger" to facilitatorb. Clear understanding, more ownership on the process
6	Introduction of "Orientation Page"/Workflow Diagram on Intranet	No info is available	Information is available on intranet	a. Transparency in application processb. Reduce rework and back& forth clarification processc. Improve turnaround in application outcome
7	Clarity in immunization & CPR requirements	Unsure of the minimum requirements	Minimum requirements are clarified and provided upfront on Intranet	Unnecessary steps/costs/waiting time may be avoided
8	Introduction/formalizing "Extension" & "cessation" workflow	No exit or extension process – unaware of extension of attachment and actual end date	Formalizing extension process with provision of QR code & url link and clearance form	CRIO is kept updated of the external staff attached to TTSH and may provide info readily to HR when requested
9	Removal of Observership attachment	A variation in attachment for short duration < 5 days	Removed observership attachment – no hands-on	Resources are focused on attachments with "hands on" components

Results

Outcomes (Clinical / Non-clinical)

- 1. TAT reduced greatly by 80% from average of 2-3 months to < 2 weeks
- 2. Number of handoffs were reduced by 62% from 39 to 15
- 3. Number of forms were reduced by 42-43% from 19 forms to 8-11 forms
- 4. Reworks and chasing for complete submission are reduced with transparency of workflow and upfront orientation of document required
- 5. Clarity in number of active status in the organisation

Experience: (Staff / Patient)

- 1. Clarity in application process with visualisation of end-to-end process on department Intranet, hence less chance of misread and wrong interpretation by users.
- 2. Seamless experience by users since all required document were made available at one glance
- 3. More efficient and productive, hence, less frustrating, less chasing and reduced motion waste for the admin staff processing it.

Cost Savings

- 1. Number of manhours saving per application this was estimated to be 36 days (from previous average of 48 working days to current 10-12 working days), after completed/minimal forms were received to allow the proceeding of getting the initial internal approval.
- 2. Less physical storage required due to the use of digital forms and platform

Problems Encountered

- 1. Change of mindset
- 2. Many stakeholders were needed to be engaged to provide opportunities for sharing of perspectives and understanding of information needs
- 3. Encourage the review of current processes and operating procedures to explore ways of refining them to bring about increased efficiencies

Strategies to Sustain

- 1. Continuous engagement of stakeholders to review and improvement of processes to ensure relevance in current environment
- 2. Regular audit to ensure compliance to approved scope of work and TTSH policies and procedures