National Quality Improvement Conference

Improve Efficiency of On-Arrival Intravitreal Injection Treatment for Retinal Diseases Stanley Poh, Jessica Choo, Tay Li <u>Zhen, Beau Fenner, Kelvin Teo</u>

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Problem Statement

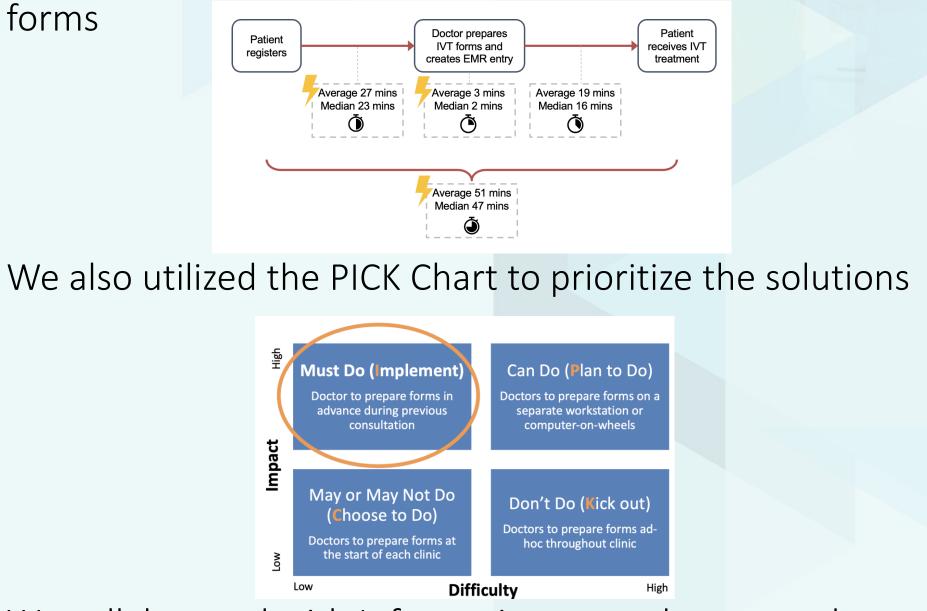
Nurse-led on-arrival intravitreal (IVT) injections pioneered in Singapore National Eye Centre proves to be safe and effective and was successful in reducing clinician workload and improving clinic efficiency.

However, there was still significant patient wait time even though these patients are only planned for treatment without consultation. Doctors had to be interrupted between patient consults to order and print IVT forms. As IVT treatment is projected to increase, improving these inefficiencies is important to reduce patient dwell time in SNEC and to improve patient and doctor satisfaction.

Potential Solutions

We illustrated the current treatment workflow with a diagram to help identify areas of inefficiency and potential areas for improvements.

We identified that significant wait time occurred when nurses were waiting for clinicians to prepare IVT treatment



Project Aim

To reduce average wait time for onarrival IVT injection by 20% in 3 months

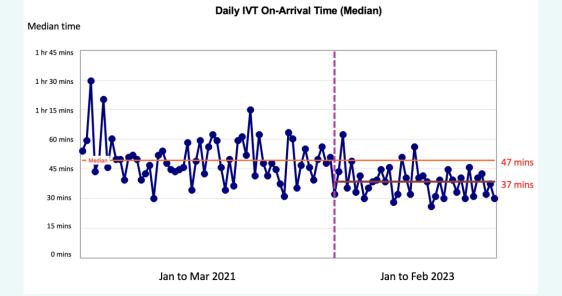
Lessons Learnt

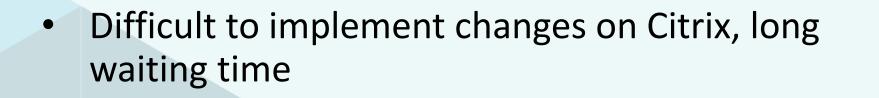
We collaborated with Informatics team, doctors and nurses to derive a new workflow and enhancement to Citrix consult notes to allow for consent form and medication to be prepared for future visit's IVT treatment.

Outcomes & Impacts

We managed to achieve >20% reduction in median time

(Fig.5)





- To be able to identify various causes to the problem, and tackle one cause that would make the most impact
- Good to have an interim or backup plan if our original idea (Citrix enhancement) does not work out

New workflow eliminated the Nurses and Doctors wait time:

Feedback from nurses and doctors were positive, no inconvenience and less encumbrance compared to the past when forms had to be printed manually, potential interruption of flow in seeing patients.

This new Citrix-based enhancement was successful in reducing average wait times of patients coming in for onarrival IVT treatment. Similar workflow can be applied to other procedures that require in advance consent taking or ordering of medication such as eye laser procedure or Botox treatment in SNEC.