

Improving Access of Patients with Inflammatory Arthritis to TTSH Rheumatology Clinic



Adding years of healthy life

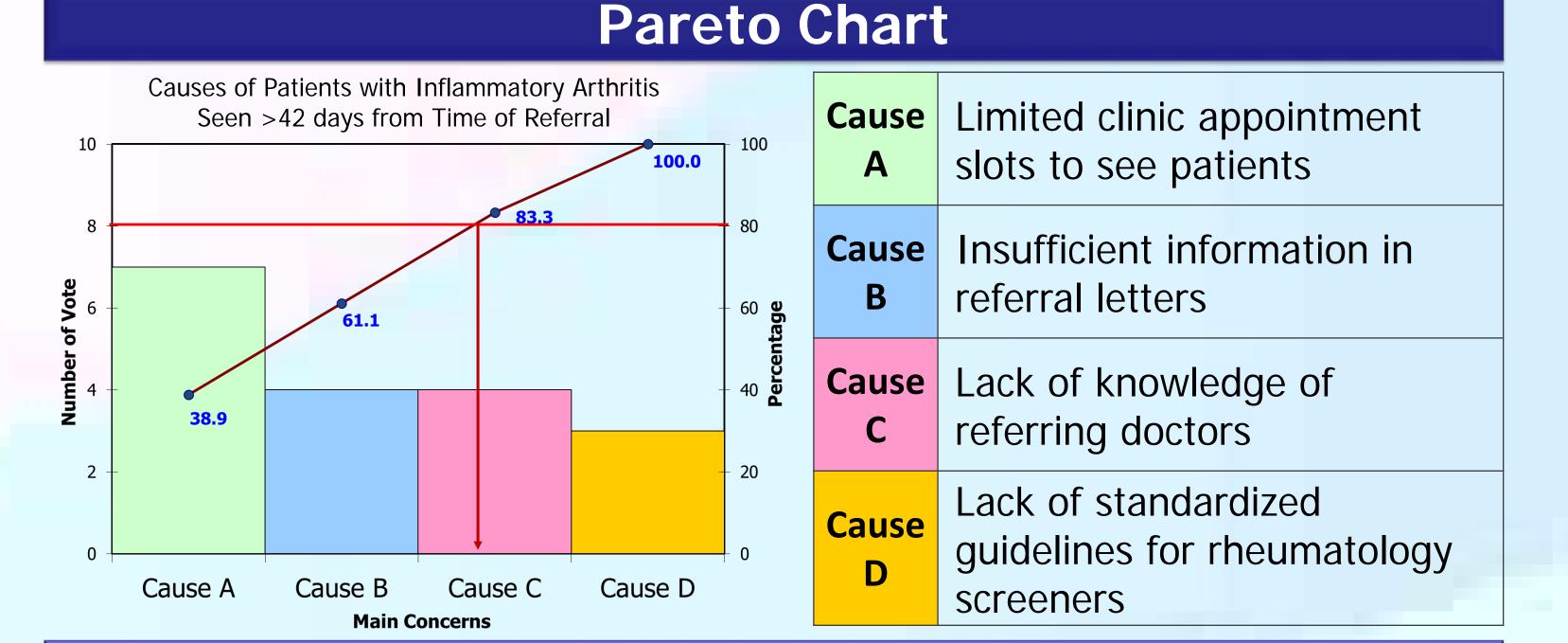
Adj Asst Prof Justina Tan Wei Lynn Department of Rheumatology, Allergy & Immunology (RAI)

Mission Statement

To increase the percentage of patients with suspected inflammatory arthritis seen at the Rheumatology Clinic in TTSH within 42 days from time of referral from 40% to 100% within 6 months

Team Members

	Name	Designation	Department	
Team Leader	Adj Asst Prof Justina Tan Wei Lynn	Senior Consultant	RAI	
Team Members	Dr Koh Li Wearn	Senior Consultant	RAI	
	Ms Xanthe Chua Bee Ling	Advanced Practice Nurse	RAI	
	Mr Hamzah Bin Sameen	Patient Service Associate	Clinic B1A	
	Mr Cheng Dong Hao	Operations Manager	RAI	
	Dr Yong Yan Zhen	Primary Care Physician	Hougang Polyclinic	
	Dr Hazel Oon Hwee Boon	Senior Consultant	National Skin Centre	
	Dr Stephen Siew Ka Fai	Senior Resident	Hand & Reconstructive Microsurgery	
Sponsor	Adj A/Prof Kong Kok Ooi	Head of Department	RAI	
Mentors	Adj A/Prof Gervais Wansaicheong & Dr Troy Sullivan			
-				



Evidence for a Problem Worth Solving

- 1. In TTSH, amongst patients suspected to have inflammatory arthritis and are referred to Rheumatology clinic, only about 40% of them are seen within 6 weeks time frame.
- 2. Delay in presentation to a Rheumatologist will lead to a delay in diagnosis and initiation of treatment for inflammatory arthritis.
- 3. Numerous studies have shown there exists a window of opportunity for treatment of inflammatory arthritis - earlier diagnosis and treatment is associated with better prognosis, reduced morbidity and mortality, better functional status and quality of life.
 - Canadian Rheumatology Association guidelines on wait-time benchmarks for rheumatology: Max wait time to see patient with suspected rheumatoid arthritis is 4 weeks¹ In the United Kingdom, NICE (National Institute for Health and Care Excellence) guidelines 2013 published quality standards for the diagnosis and treatment of rheumatoid arthritis Waiting time, states that people with suspected persistent synovitis (swelling) should be assessed in a rheumatology service within 3 weeks of referral.²

Implomontatio

Implementation				
Root Cause	Intervention	Implementation Date		
Cause A: Limited clinic appointment slots to see patients	PDSA 1A: Utilization of unused clinic slots and conversion into new case slots for identified patients referred for inflammatory arthritis	1 Jul 2019		
	PDSA 1B : Conversion of an under utilized clinic into clinic for seeing arthritis early (Early Arthritis Clinic)	1 Aug 2019		
Cause B: Insufficient information in referral letters Cause C: Lack of knowledge of referring doctors	PDSA 2 : Simple template for filling up to be included in the referral letter	1 Sep 2019		

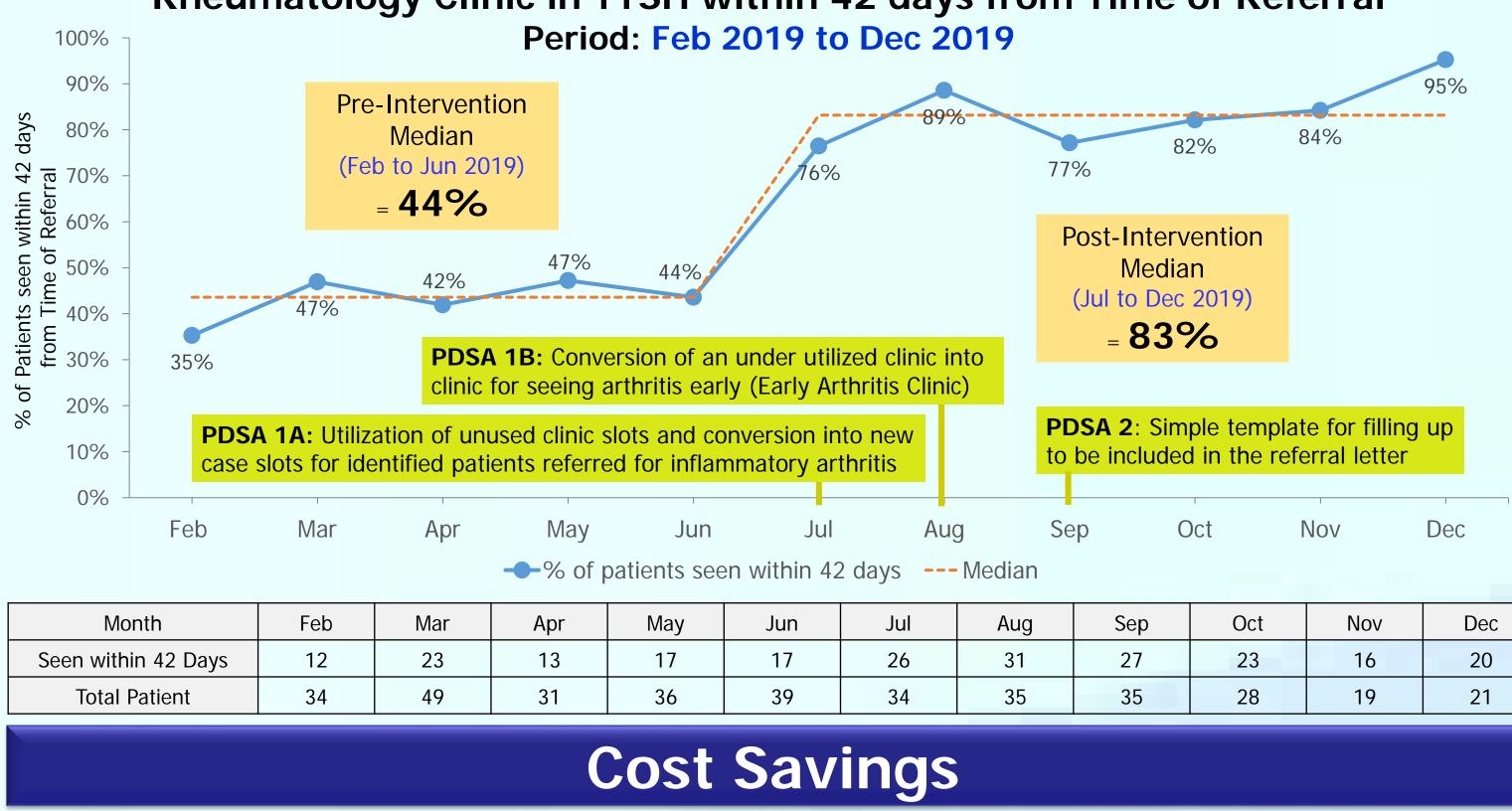
Results

Percentage of Patients with Suspected Inflammatory Arthritis seen at the Rheumatology Clinic in TTSH within 42 days from Time of Referral

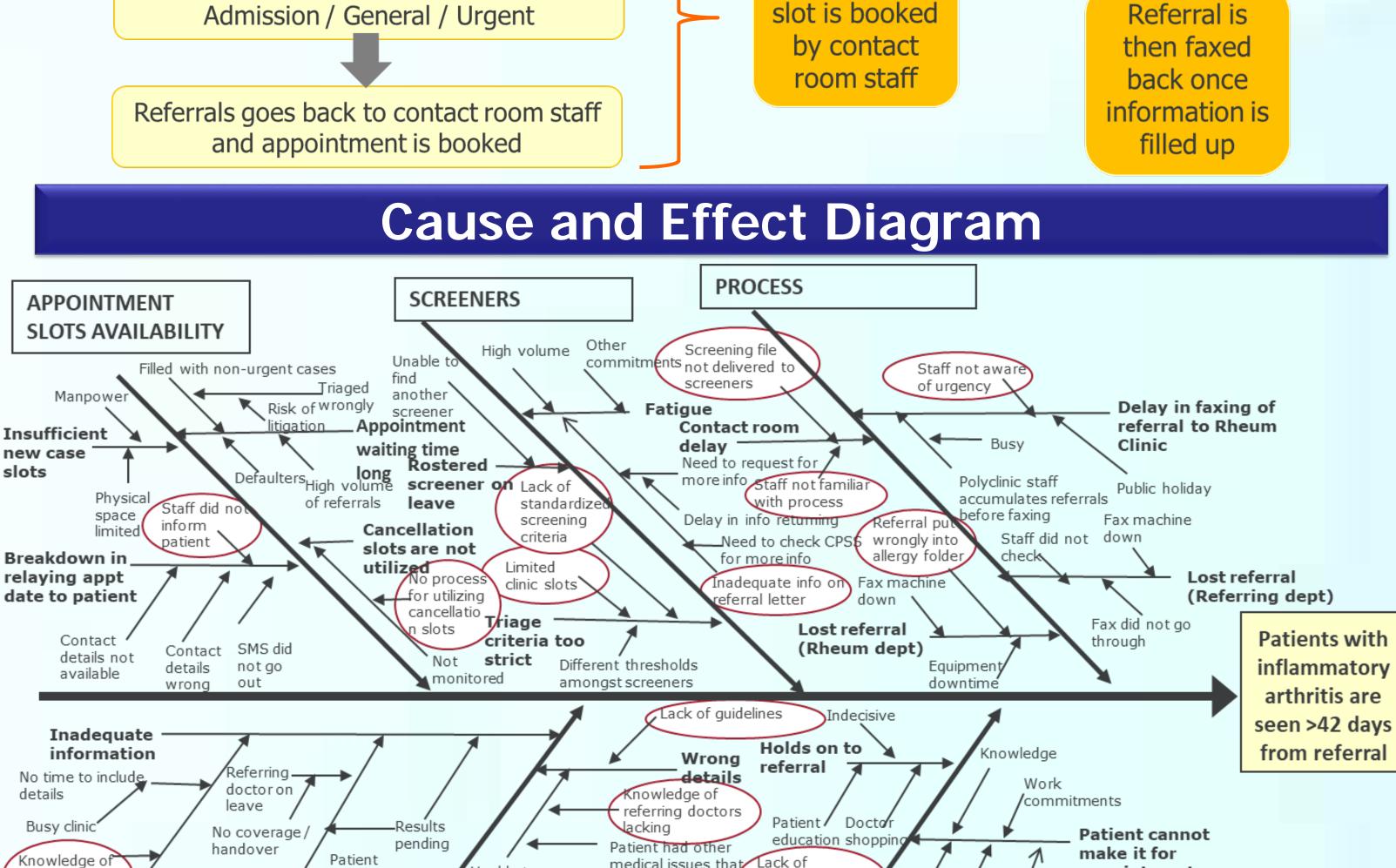
¹ Canadian Rheumatology Association. Wait-time benchmarks for rheumatology [Internet. Accessed July 25, 2016] Available from: www.waittimealliance.ca/wp-content/uploads/2014/05/Wait-Time-Benchmarks-for-Rheumatology-FINAL.pdf

² JM Ledingham et al. Achievement of NICE Quality Standards for patients with new presentation of inflammatory arthritis: Observation from the National Clinical Audit for Rheumatoid and Early Inflammatory Arthritis. Rheumatology (Oxford) 2017; 56(2): 223-230

Flow Chart of Process **MICRO FLOWCHART** MACRO FLOWCHART Initiation of referral of patient with Referrals are screened suspected inflammatory arthritis by doctor Sufficient Insufficient Referral is faxed information information to the Rheumatology clinic Referral is Advised for **Referral received** sent back to admission by contact room staff referring doctor to General New request for Urgent New Rheumatology screener more info Next available Patients are triaged: slot is booked **Referral** is Admission / General / Urgent by contact then faxed



	Pre-Intervention	Post-Intervention			
Percentage of Patients seen early (within 42 days)	44%	84.5%			
Mean of 30 patients with inflammatory arthritis each month					
Each Month	13 patients seen early 17 patients seen late	25 patients seen early 5 patients seen late			
Each Year	156 patients seen early 204 patients seen late	300 patients seen early 60 patients seen late			
Biologics Use	5.6% of 156 = 9 26% of 204 = 53	5.6% of 300 = 17 26% of 60 = 16			
Total Patients requiring Biologics / Year	9 + 53 = 62 patients	17 + 16 = 33 patients			
No. of Patients less requiring Biologics / Year	62 - 33 = 29				
29 x SGD \$19,200 = - SGD \$556,800					



medical issues that

Patient education

improved

Condition

since visit

changed

Unable to

recognize IA

declines to

repeat exan

return for

and tests

Request for

"more info

INFORMATION

lost

REFERRAL

referring

doctors lacking

Doesnot

know what

info needed

Doctor changed

Process

tedious

Reques

for more

info

too

eferral

Lack of

what to do

were more pressing instructions as

Doctor

PATIENT

hoppina

appointment

New case clinic days limited

Incorrect history

given to doctor

to Mon, Thurs and Fri

Other more pressing

medical issues

Lessons Learnt

- 1. Enthusiasm at the start is not usually sustained a lot of hard work and effort needs to put in to carry things through.
- 2. It is hard to change things internally, but even harder to implement change outside your department.
- 3. With small changes to our current work processes, we can actually improve the quality of care for our patients.

Strategies to Sustain

- 1. Continue audit as a quality improvement work project
- 2. Involving people into the project
 - Senior Residents
 - Other Rheumatologists
- 3. Presentation of our work and results to the rest of the department
- 4. Can become one of the key performance indicators for the department