National **Quality Improvement Conference**

Increasing the Rate of Diabetes Foot Screening (DFS) in Diabetes Mellitus Patients

Dr Ryan Choo Rui-en Dr Yeo Pei Shan

ryan re choo@ttsh.com.sg pei_shan_yeo@ttsh.com.sg



Problem Statement

- Local data showed that in 2019, the overall DFS rate in TTSH was only 46.3% compared to NHGP with 86.5%.
- Improving DM foot screening in high-risk patients could prevent major and minor amputations

Potential Solutions		
Root Cause		Intervention
Not part of routine to DFS		Intervention 1: Incorporate DFS as part of PD clinic routine (DFS: same- day service as PD clinic visit) Implementation Date: 29 Apr 2022
Patient lac	ks	Intervention 2:

The point prevalence of DM patients with ESRF on PD attending Clinic B2B between 8 April to 28 April 2022, with DFS done within 1 year was only 21.6% (21 out of 97 patients).

Abbreviations:

DFS: Diabetes Foot Screening, DM: Diabetes Mellitus, ESRF: End-Stage Renal Failure, PD: Peritoneal Dialysis

Project Aim

To increase point prevalence of annual

DFS completion in DM patients with

ESRF on PD (attending TTSH B2B PD clinic)

from 22% to 60% (stretch 80%)

over 6 months

Lessons Learnt

knowledge that DFS picks up early disease when patient is asymptomatic

Patient lacks knowledge that he will still need annual DFS

Staff booking appointment did not explain DFS

Patient Education Materials IABETIC FOOT SCREENING Implementation Why is it important to me? Date: 13 May 2022

hat To Expect will have some tests done to your feet and a



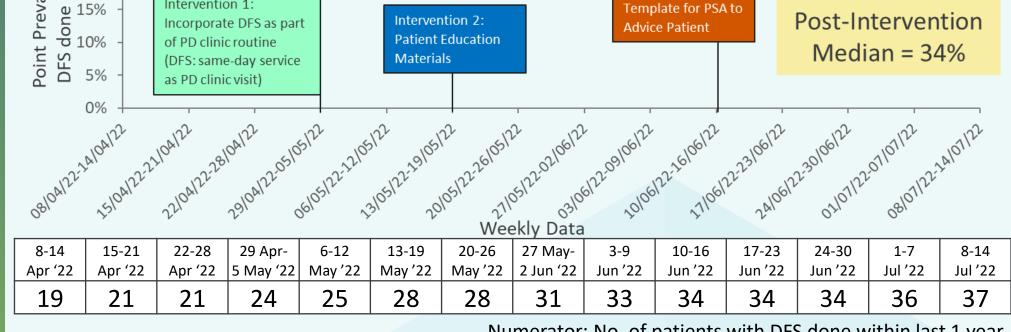
Intervention 3: Create a standardised template for PSA to advise patient, with a list of common FAQs Implementation Date: 10 Jun 2022

Standardized

Outcomes & Impacts

Point Prevalence of DM patients with ESRF on PD attending TTSH B2B PD Clinic with DFS done within 1 year 45% patient with ne last 1 year %0% (Period: 8 April 2022 to 14 July 2022) of + 25% within 50 **Pre-Intervention**

- 1. CPIP truly demonstrates the value of everyone's unique role in a multi-disciplinary and more importantly trans-disciplinary team
- 2. Everyone in the team is valuable
- 3. When an intervention is being implemented, it is pertinent to go onto the ground to see the process and obtain feedback from ground staff.
- 4. Data collection can be tedious. Collecting only the necessary data critical to instituting change will ensure sustainability.



GOOD OUTCOME:

Numerator: No. of patients with DFS done within last 1 year **Denominator: 97 Patients**

Median = 22%

As of 9 March 2023, 76/101 (75%) DM PD patients who qualify for DFS have a DFS within the prior 1 year.

VALUE:

Potential cost avoided per patient (1 LEAPP Clinic First Visit Cost = \$120, 1 LEAPP Clinic Review Visit Cost = \$60-\$80, 1 Major Lower Limb Amputation Cost including hospitalisation = \$45,000) Cost estimates by NHG National Diabetes Mellitus Collaborative D3V **LEAPP: Lower Extremity Amputation Prevention Clinic Service**