Reducing Length of Stay for Patients Admitted with Acute Gout

Singapore Healthcare Management 2018



Singapore General Hospital The 48 Hour Gout Fix

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Results

Background

What is gout?

- Arthritis caused by deposition of monosodium urate crystals within joints

Interventions / Initiatives

We generated a proposed Acute Gout Clinical Care Pathway (CCP) (Figure 3) through multidisciplinary discussion (consisting of doctors, nurses, administrators) and also developed teaching materials for doctors.

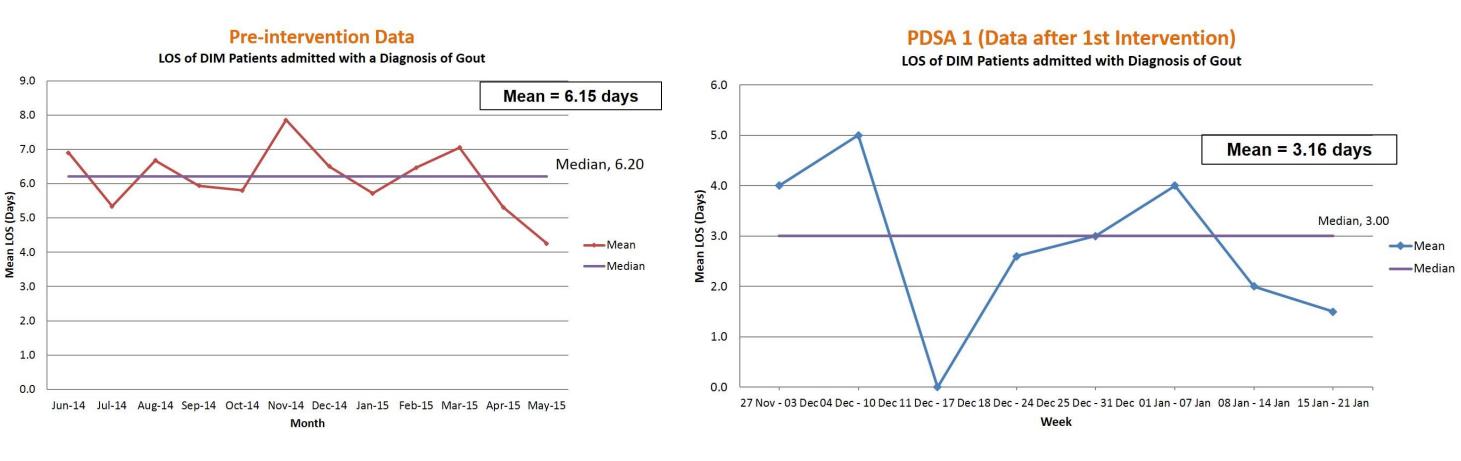
vinat is gout?	 Causes joint destruction, leading to physical impairment and reduced work productivity.
Current situation	 Total of ~554 patients per year admitted to the Department of Internal Medicine, Singapore General Hospital for management of an acute gout flare
Length of stay	 Mean length of stay = 6 days based on data collected from 1/6/2014 to 31/5/2015
Reduction of Length of Stay	 Reduction of the mean length of stay for patients admitted with an acute gout flare would lead to significant cost savings
Aim	 We aim to explore factors leading to prolonged hospital admissions for patients with acute gout

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Figure 3: Acute Gout Clinical Care Pathway

PDSA Cycle 1: Clinical Care Pathway

We implemented our clinical care pathway (CCP) in ward 73 Singapore General Hospital, collected feedback and aimed to enhance the use of the CCP and improve management of acute gout and shorten length of stay.



Mission Statement

To reduce the length of stay for patients with an acute gout flare admitted under the Department of Internal Medicine from a mean of 6 days to a mean of 2 days within 6 months

To reduce the average cost of stay for patients admitted for

PDSA Cycle 2: Teaching Doctors

We then gathered feedback from users of the CCP that their preference was

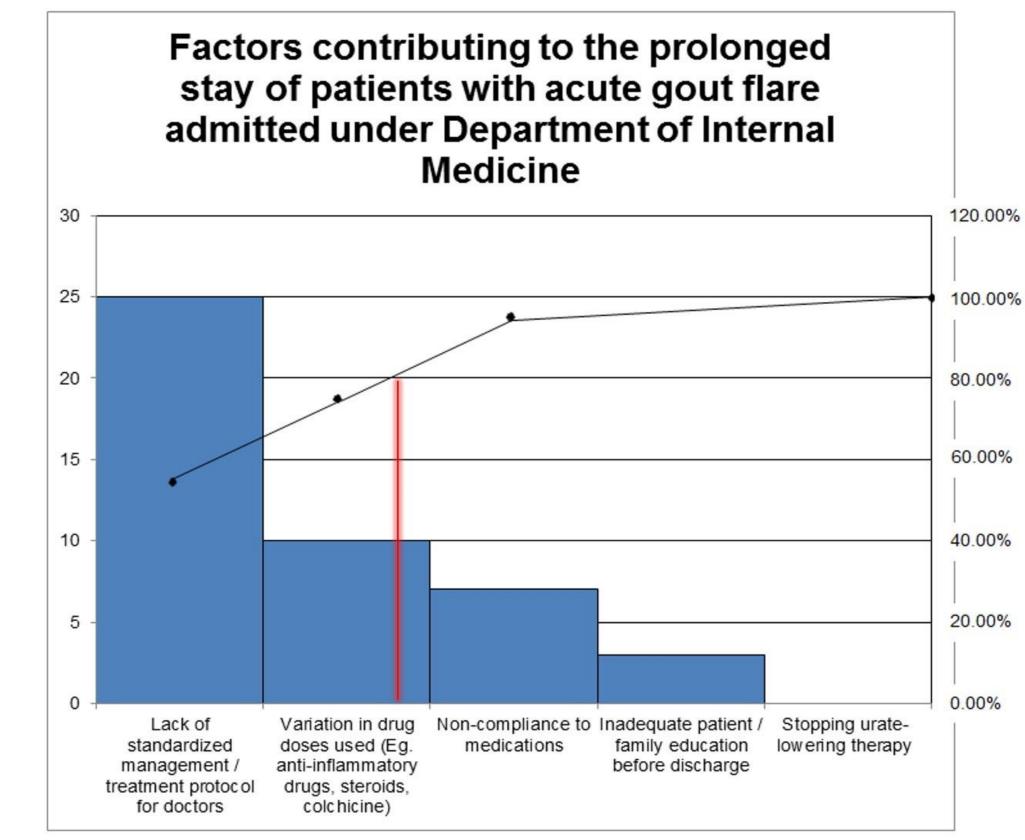
acute gout flare.

Analysis of Problem

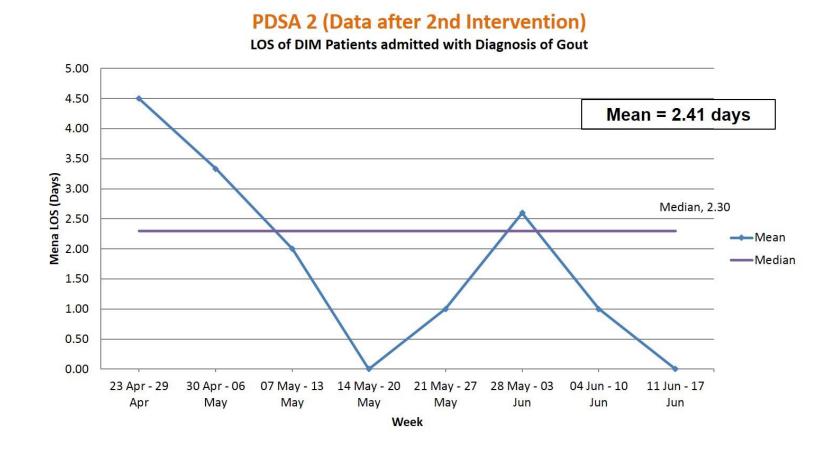
From our Cause & Effect Diagram, we identified the main factors contributing to the prolonged stays of patients with acute gout flare. On the Pareto Chart (Figure 1), we highlighted the most important factors.

We then prioritized the interventions on our Tree Diagram (Figure 2).

Figure 1: Pareto Chart



education of doctors on management of acute gout through a standardized teaching forum. The CCP was implemented in ward 73 again after doctors received education on gout.



Overall results: Reduction of Length of Stay Mean Length of Stay reduced from 6.15 days to 2.41 days

Combined Data after 2 PDSA Cycles

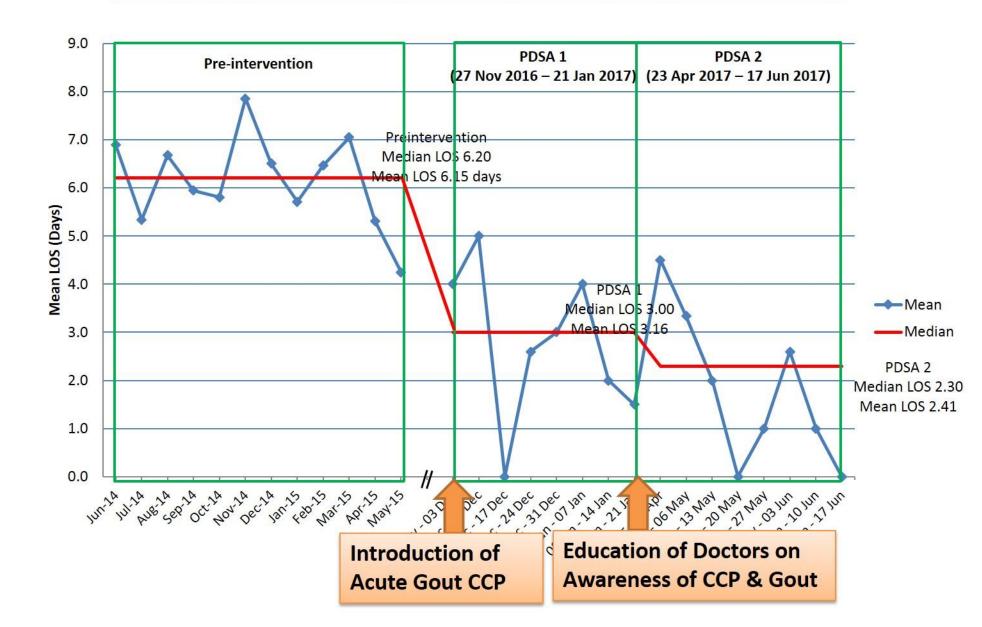
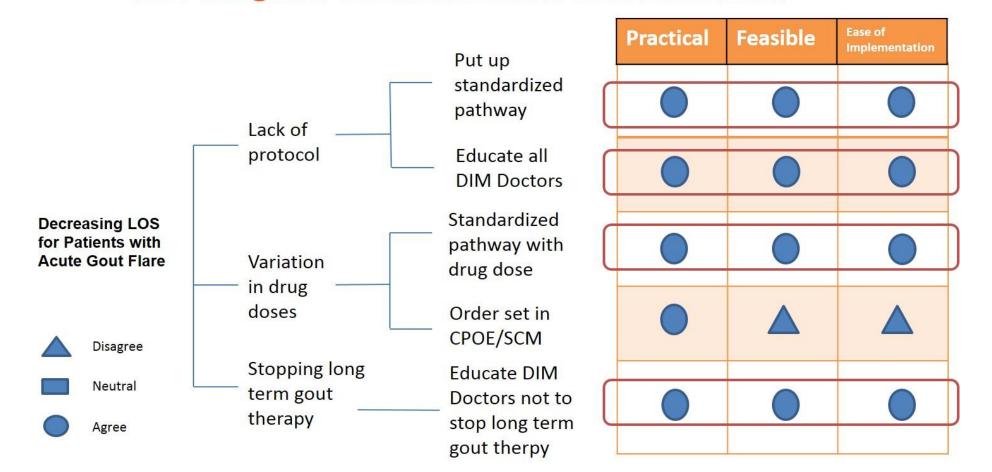


Figure 2: Tree Diagram

Tree Diagram & Prioritization of Intervention



Sustainability Plans

