To enhance medication adherence rate among patients with chronic disease post discharge from an acute hospital.

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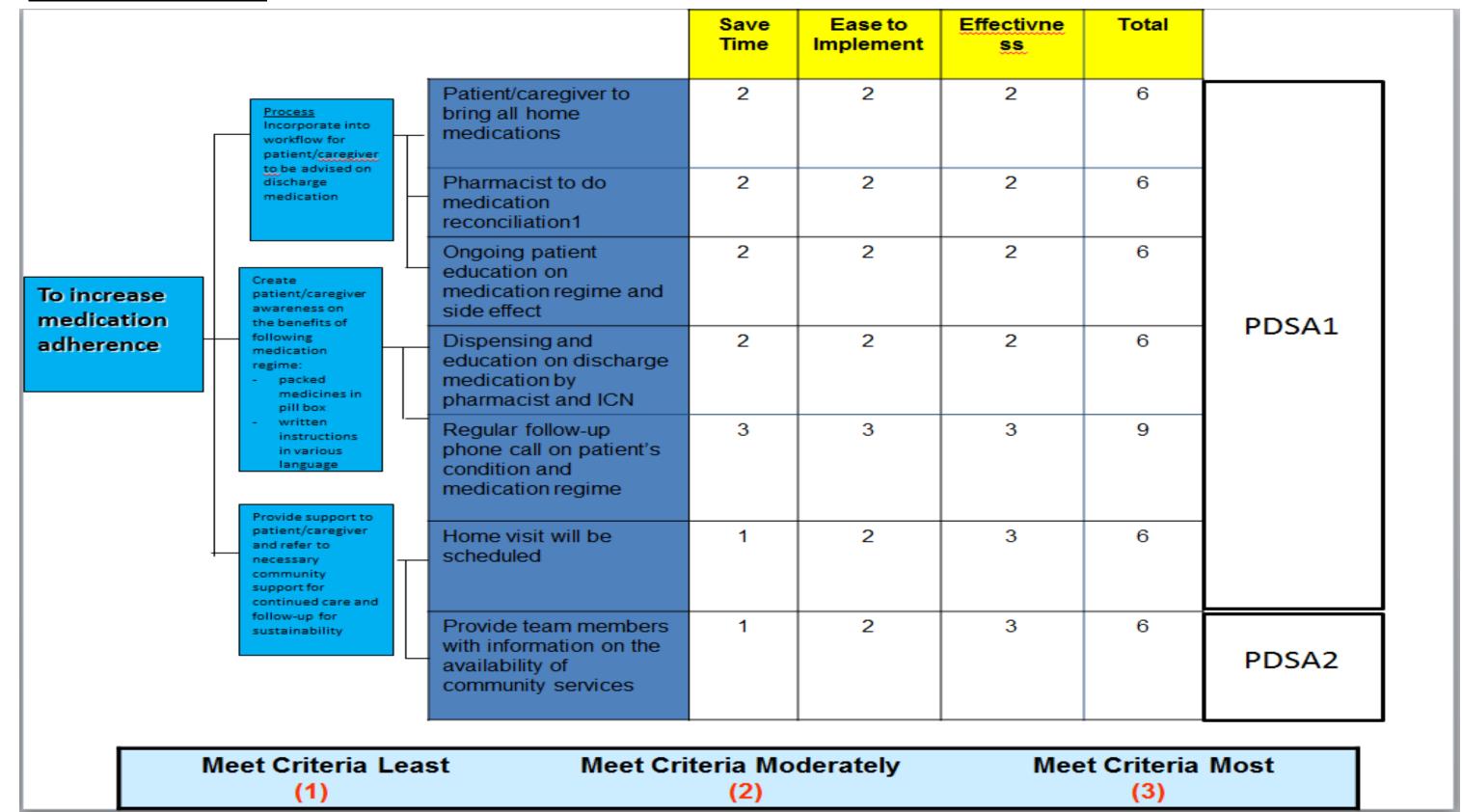


Introduction

Why is medication adherence important?

- Enhance patient's safety.
- Reduce unnecessary hospital readmission and length of stay.

Solutions



- Improve patient and caregiver satisfaction.
- Improve discharge planning.

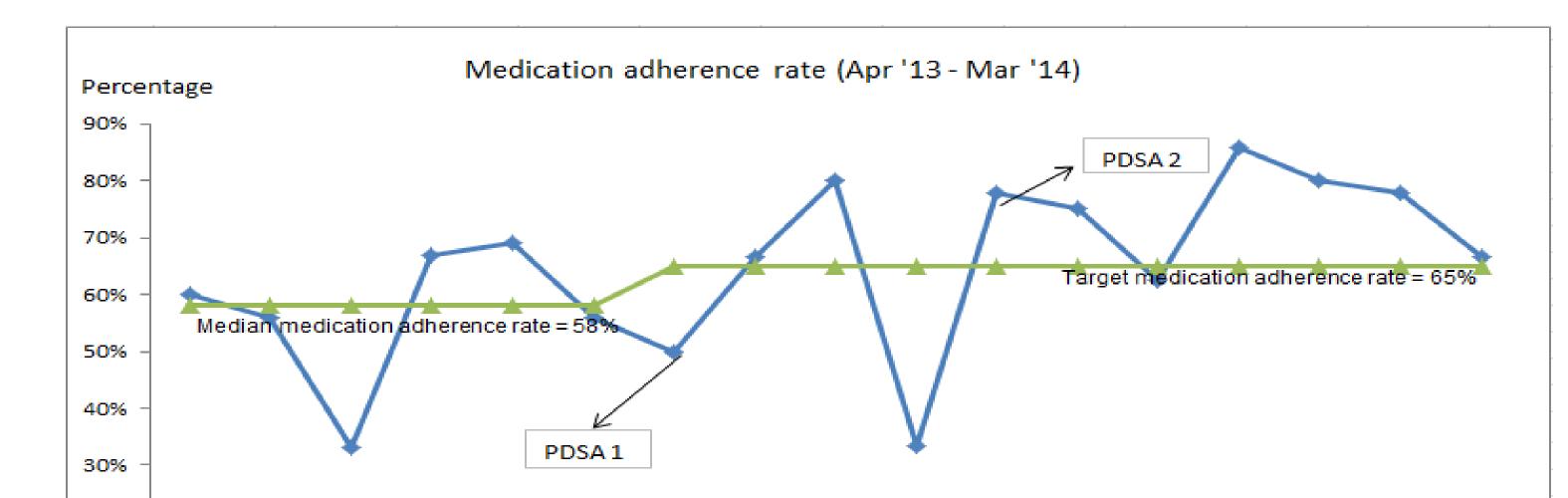
Objectives:

- a) To improve patient's medication adherence rate to 65%.
- b) To improve patient/caregiver health literacy.

<u>Problem</u>

- Why monitoring medication adherence is a MUST?
- 1. Challenges in deciphering medication taking behaviour of patients
- 2. Aging population problem becomes more acute
- 3. Improving medication adherence potentially
 - ✓ prevent medication adverse events
 - ✓ reduce preventable readmission
 - ✓ reduce length of stay (LOS)
 - ✓ reduce healthcare related costs

Figure 3 : Prioritization Matrix



Methodology

- A "cause and effect" diagram to aid the identification of the root causes (Figure 1)
- Delphi and serendipity techniques were employed for solutioning.

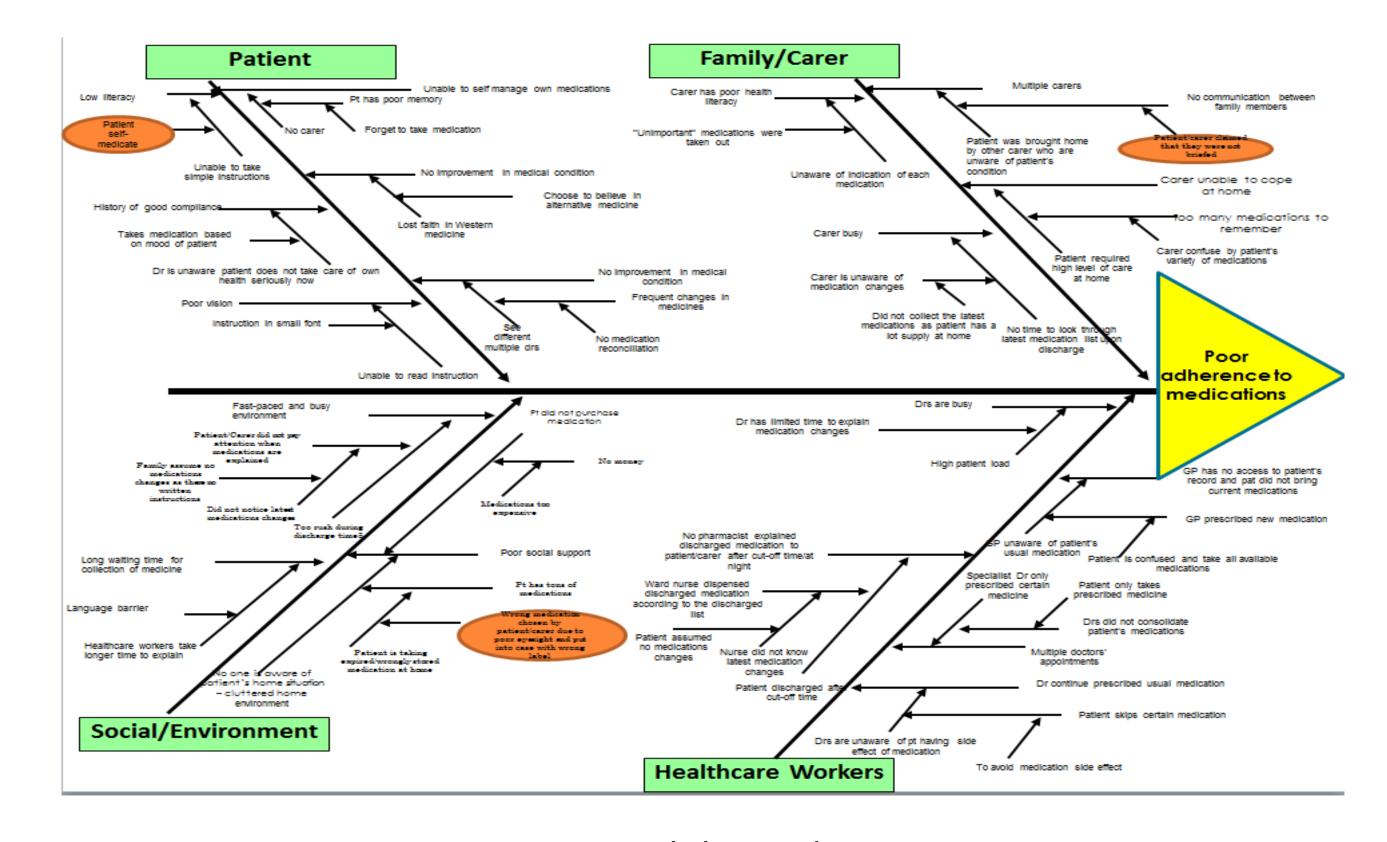




Figure 4 : Run chart

Tangible results

- 1. Readmissions reduced by 40%.
- 2. Length of stay reduced (619 days, savings of \$46,425)

Intangible results

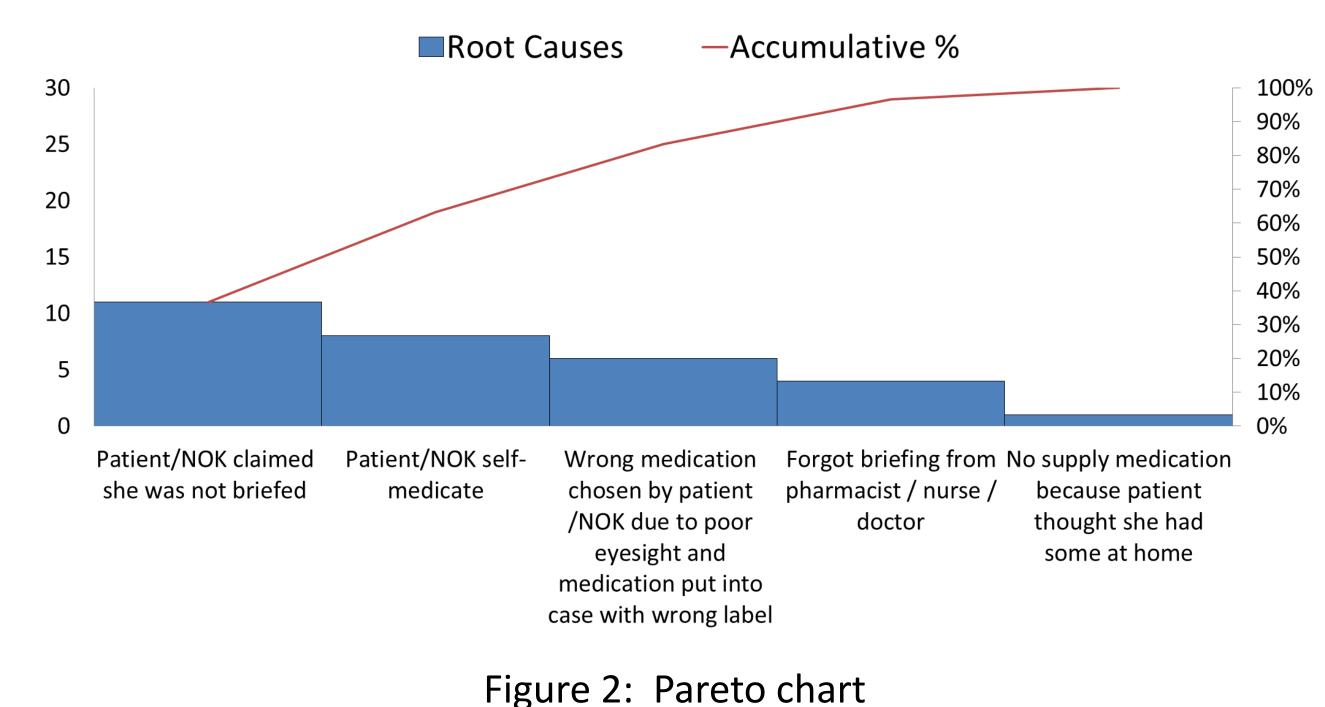
- 1. Patient's and caregiver's needs are met.
- 2. Better time management.
- 3. Enhanced staff morale.
- 4. Enhanced hospital image.

<u>Conclusion</u>

• Revised work process benefited stakeholders.

Figure 1: Fish bone diagram

Pareto Chart for Medication Non-compliance



- Reduction in number of readmissions (decreased requirements for hospital bed).
- Reduction in length of stay (decreased healthcare costs).
- Patient's satisfaction and hospital's image is met to deliver quality care to every patient and quality statement of "Best Outcome, Best experience" with the improvement process.

