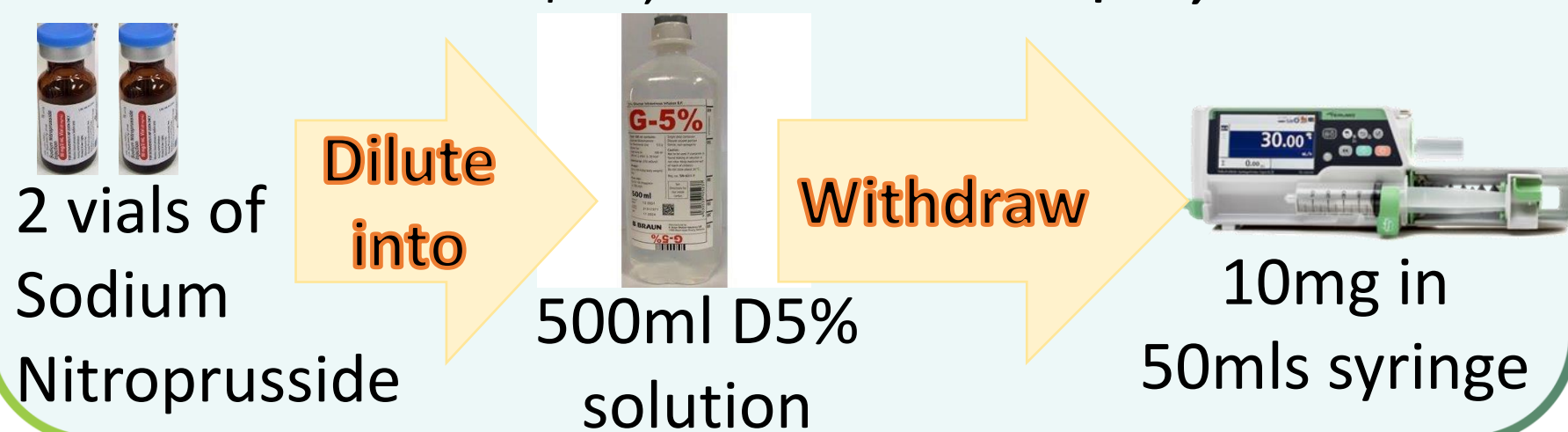




Improving Preparation of Sodium Nitroprusside in Operating Theatre: Less Wastage More Efficient

Problem Statement

- Dilution- 2 vials of Sodium Nitroprusside (50mg/vial) into 500mls of D5% solution
- Only 50mls will be used for patient, the remaining 450mls will be discarded/wasted
- In 2021, usage of Sodium Nitroprusside vials = **496 vials**
- Each vial costs \$72, total cost was **\$35,712**



Project Aim

To reduce the number of vials used in the preparation of Sodium Nitroprusside for Cardiothoracic Surgeries in the Operating Theatre from a median of 8 vials/week to 4 vials/week within the next 6 months

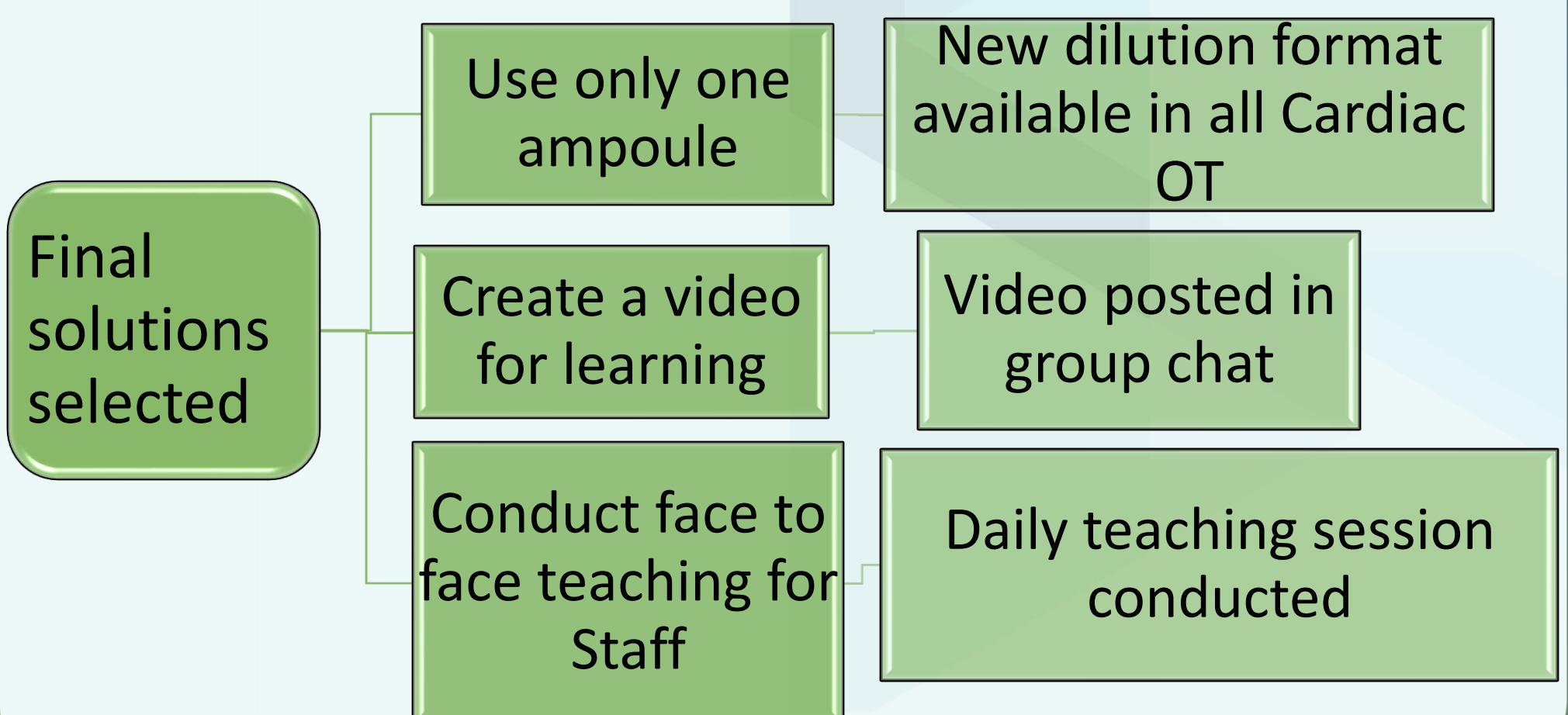
Lessons Learnt

Changing in Practice	Time for teaching
<ul style="list-style-type: none"> Ensure staffs understand the reason for new practice Video recorded for new practice shared in work group chat to allow easy accessibility Face to face teaching and return demonstration required 	<ul style="list-style-type: none"> Utilize overlap shift timing to allow adequate time for teaching Video sharing improved understanding on new practice

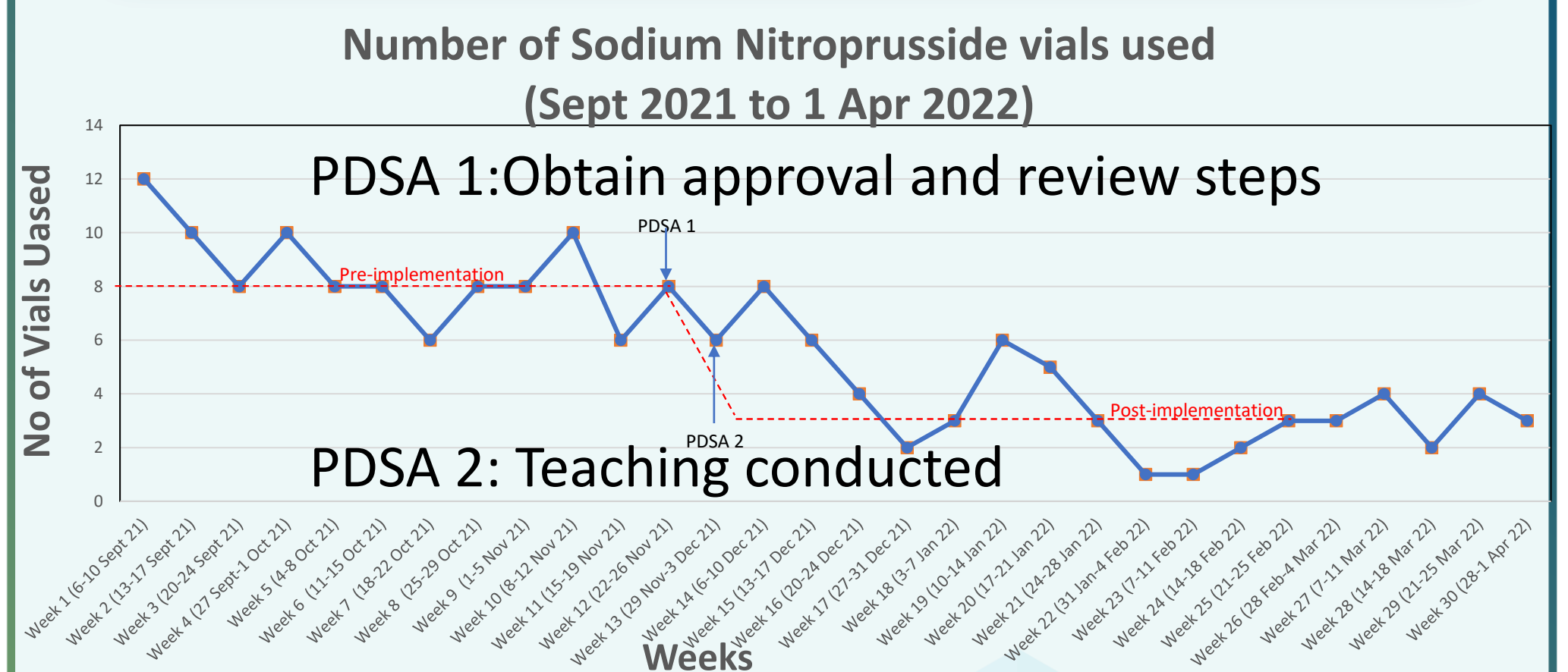
Potential Solutions

	Save Time	Effective	Ease To Implement	
Change In Practice	Use only one ampoule	☆	☆	☆
	Source for 50ml D5%	○	○	△
Improve knowledge	Conduct face to face teaching	○	☆	☆
	Make a video for learning	☆	○	☆
	Conduct E-learning	○	△	△

△ Meets Criteria Least ○ Meets Criteria Moderately ☆ Meets Criteria Most



Outcomes & Impacts



Number of vials used from Jan 2022 to Mar 2022 = 40 vials (first quarter).
 Estimated number of vials used for 2022 = 160 vials (\$11,520)
 Total number of vials saved : 496 vials - 160 vials = **336 vials (68%)**
We have met our objectives of reducing usage of Sodium Nitroprusside vials by more than 50%.
 Total cost savings: \$35,712 (2021) - \$11,520 (2022) = **\$24,192**