

QI PROJECT PDSA CYCLES REPORT FORM

QIP: Reduce supply chain Inefficiency from a median of 17% to less than 5% from 21/10/2016 to 20/10/2017

START DATE: 21/10/ 2016 EC

END DATE: 20/10/2017EC

QI PROJECT LEADER: Nuredin Yigezu (MPH)

CHANGE IDEA: Implement quarterly inventory reviews		PDSA 1: CYCLE III		DATE: 30/07/2017EC
PLAN				
WHAT IS THE PURPOSE OF THIS CYCLE? (Check one)		DEVELOP	<input checked="" type="checkbox"/> TEST	IMPLEMENT
WHAT IS THE OBJECTIVE OF THIS CYCLE? WHAT QUESTIONS DO YOU WANT TO ANSWER? WHAT ARE YOUR PREDICTIONS?				
<p>Objective: Reduce total supply chain inefficiency from 6% to less than 5% through structured quarterly inventory review and enhanced follow-up on identified gaps.</p> <p>Questions to Answer: Do supply chain inefficiency will drop by 1% percentage points (from 6% to <5%) as a result of quarterly inventory review?</p> <p>Predictions: The cycle will lead to a 1% improvement, achieving <5% total inefficiency by the end of the quarter..</p>				
LIST TASKS NECESSARY TO SET UP AND CONDUCT THE TEST (THINK 'ONENESS' AND 'DROP TWO')				
What? (Specific task)	How? (Checklist, tally sheet)	Who? (Name or role)	When? (Times, dates - be specific)	Where? (Program, location site - be specific)
• Conducting quarterly inventory reviews	EAPTS report	Rediwan S. (Data Collector)	QUARTERLY	Pharmacy
• Gap Assessment Across 11 supply chain Areas	• Reviewing EAPTS, Bin Cards, Model 19	Rediwan S.	Quarterly	Finance
OUTLINE YOUR PDSA DATA COLLECTION PLAN (WHAT, HOW, WHO WHEN AND WHERE)				
What data will be collected?	How? (Checklist, tally sheet)	Who? (Name or role)	When? (Times, dates – be specific)	Where will the data be recorded?
EAPTS TRANSACTION DATA	Model 19, Bincard, Eapts Transactions, Observation	Rediwan S.	Quarterly	Pharmacy and Finance
		DO		
WHAT DID YOU OBSERVE DURING THE TEST? WERE THERE ANY UNEXPECTED OBSERVATIONS OR ISSUES? WHAT WENT WELL?				

Observations

- Notable improvements in Inventory Management, Procurement, Storage, and Demand Forecasting due to regular inventory reviews.
- Departments actively engaged in performance tracking using standard tools (Model 19, Bin Cards, EAPTS).

What Went Well

- Overall inefficiency reduced from 6.0% to 5.0%.
- Use of digital tools and standardized data collection enhanced accuracy.
- Quarterly inventory reviews improved stock accuracy and interdepartmental communication.

Unexpected Observations/Issues

- Persistent inefficiencies in Demand Forecasting, Procurement, and Communication & Coordination.
- Absence of formal KPI monitoring, contract reviews, and emergency communication protocols.
- Limited clinical team feedback and lack of routine audits.

Challenges

- No defined minimum/maximum stock policies.
- Inconsistent quarterly inventory reviews prior to this cycle.
- Lack of formal interdepartmental coordination frameworks.
- Limited oversight from the Drug and Therapeutics Committee (DTC) on procurement and order verification.

STUDY

ANALYZE YOUR DATA AND DESCRIBE THE RESULTS. HOW DO THE RESULTS COMPARE WITH YOUR PREDICTIONS? WHAT DID YOU LEARN FROM THIS CYCLE?

- Quarterly inventory reviews contributed positively to reducing inefficiencies but slightly missed the <5% target.
- Improvements in inventory accuracy and technology utilization are promising but must be further strengthened.
- Addressing persistent gaps in forecasting, procurement practices, and communication is critical.
- Formal KPI tracking are necessary for sustained gains.
- Enhanced clinical feedback and routine audits will support continuous improvement.

No.	Area of Inefficiency	Contributio n (%)	Cost (ETB)
1	Demand Forecasting	1.4%	13,490
2	Procurement Efficiency	1.1%	10,606
3	Communication & Coordination	1.0%	9,642
4	Financial Management & Cost Control	0.5%	4,821
5	Storage Practice Inefficiency	0.3%	2,893
6	Inventory Management	0.3%	2,893
7	Technology & System Integration	0.2%	1,929
8	Wastage Reduction	0.2%	1,929

9	Monitoring & Reporting	0.15%	1,446
10	Dispensing Practice Inefficiency	0.15%	1,446
	Total	5.0%	48,185

ACT

Adapt: Sustain quarterly inventory review as they have shown clear impact on reducing supply chain inefficiency.

[ADAPT \(note changes for next cycle\)](#)

[ADOPT](#)

[ABANDON](#)

Reported by: Rediwan S.

Case Team: QI team

Date: MEGABIT 30, 2017E.C

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1st Data point

