Biiroo Fayyaa Oromiyaatti Hospitaala Waliigalaa Dadar
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Oromia Health Bureau Deder General Hospital

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: Reviewing the Quarterly Inventory using the structrured EAPTS checklist	PDSA 1: CYCLE IV	DATE: 30/10/2017EC

PLAN

WHAT IS THE PURPOSE OF THIS CYCLE? (Check one)	DEVELOP	✓ TEST	IMPLEMENT

WHAT IS THE OBJECTIVE OF THIS CYCLE? WHAT QUESTIONS DO YOU WANT TO ANSWER? WHAT ARE YOUR PREDICTIONS?

Objective: Reduce total supply chain inefficiency from 5% to less than 5% through structured quarterly supply chain meetings and enhanced follow-up on identified gaps.

Questions to Answer: Do implementing supply chain meeting supply chain inefficiency from 5% to <5% ?

Predictions: If these interventions are maintained, the supply chain inefficiency rate will fall from 5% to below 5%

LIST TASKS NECESSARY TO SET UP AND CONDUCT THE TEST (THINK 'ONENESS' AND 'DROP TWO')

What? (Specifc task)	How? (Checklist, tally sheet)	Who? (Name or role)	When? (Times, dates - be specifc)	Where? (Program, location site - be specifc)
• Conducting Inventory Review	• Reviewing the Quarterly Inventory using the structrured EAPTS checklist	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 specifc)	Where will the data be recorded?
EAPTS TRANSACTION DATAS	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?

What Was Done:

- Inventory reviewing is done.
- Digital tracking (EAPTS) used in more pharmacy points.
- Supplier evaluations were conducted based on delivery accuracy and timeliness.
- Audit and reporting templates standardized.

What Went Well:

- **Inefficiency reduced from 5% to 3.12%.**
- Reduced emergency procurement by 50%.
- Better accountability from departments due to KPI sharing.

Challenges:

- Still some inefficiencies were witnessed in some areas

STUDY

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

Expected Outcome: Inefficiency rate drops below 5%
Actual Outcome: Inefficiency rate reduced to **3.12%**, with associated cost at **42,000 ETB**

Key Findings:

- Improved monitoring and digital system usage had the highest impact.
- Most inefficiency gains came from improved procurement planning and supplier engagement.
- Communication delays and outdated SOPs in emergency requests remain a risk area.

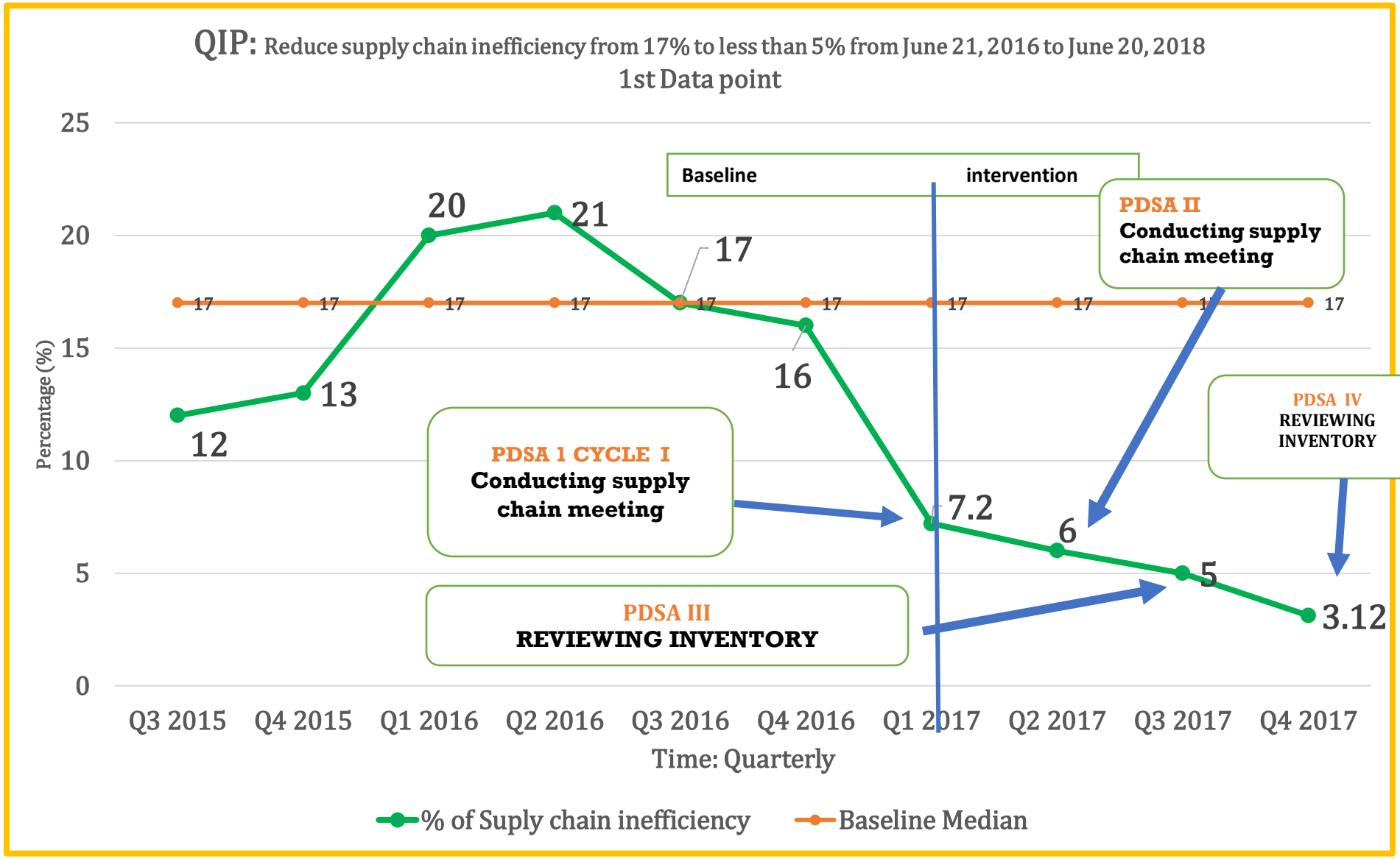
Lesson Learned:

- Continued quarterly meetings and focused KPIs lead to measurable improvements.
- Need for full institutionalization of SOPs and system training for sustained gains.

No.	Area of Inefficiency	Contribution to Inefficiency (%)	Estimated Cost (ETB)
1	Procurement Efficiency	0.85%	11,340
2	Inventory Management	0.40%	5,350
3	Demand Forecasting	0.50%	6,675
4	Supplier and Distribution	0.30%	4,005
5	Financial Management & Cost Efficiency	0.25%	3,150
6	Monitoring and Reporting	0.10%	1,260
7	Technology and System Integration	0.12%	1,512
8	Communication and Coordination	0.20%	2,520
9	Wastage Reduction	0.15%	1,890
10	Storage Practice Inefficiency	0.05%	630
11	Dispensing Practice Inefficiency	0.10%	1,260
Total		**3.12%**	**41,592**

ACT		
Adapt: Sustain quarterly supply chain meetings 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: SENE 30, 2017E.C


QIP: Reduce supply chain inefficiency from 17% to less than 5% from June 21, 2016 to June 20, 2018
1st Data point
Baseline
intervention
PDSA II
Conducting supply chain meeting
PDSA IV
REVIEWING INVENTORY
PDSA 1 CYCLE I
Conducting supply chain meeting
PDSA III
REVIEWING INVENTORY
Percentage (%)
25
20
15
10
5
0
12
13
20
21
17
16
7.2
6
5
3.12
17
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017
Q2 2017
Q3 2017
Q4 2017
Time: Quarterly
% of Suply chain inefficiency
Baseline Median