

12-13 OCTOBER 2022

PtD GLOBAL INDABA

Workforce Deployment for pharmacy service, store and auditing

Using the APTS System in Ethiopia



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**Presented by the USAID Global Health Supply Chain
Program-Procurement and Supply Management
(GHSC-PSM) project in Ethiopia**

Background

- Auditable Pharmaceutical Transaction and Services (APTS) is an innovative Ethiopian system that institutes and is enacted by **regulation, directive and guidelines**.
- APTS establishes human resource deployment based on workload analysis.

Before APTS in Ethiopia:

- Deployment of human power (HP) was not based on workload analysis
- Resulting in pharmacy HP shortages and difficulties in
 - Controlling medicine availability
 - Reducing wastage rates
 - Serving patients properly

HR challenges

- Undefined roles and responsibilities
- Bin ownership:
 - Overextended physical inventory (PI) period
 - Inaccuracy of PI
- Counter layouts made service difficult for all patients, especially mothers carrying children



- Difficulties in dispensing medicines and counseling patients

Why?

- Shortage of staff and dispensary counters
- There was no collective responsibility – this also led to theft & pilferages



APTS has 5 Result Areas



Method

- National cross-sectional study was conducted in 26 hospitals (HLs) selected from all APTS sites
- The practice of workforce deployment assessed for:
 - supply chain in HLs
 - service based on APTS workload analysis
- Study was approved by MOH

For the assessment:

- The 26 hospitals were selected purposefully from all regional states of Ethiopia
- APTS is implemented in 246 of 363 general HLs (70%) and 25 of 26 federal HLs (96%)
- The data was collected & analyzed using MS Excel and SPSS v.23

Results-I

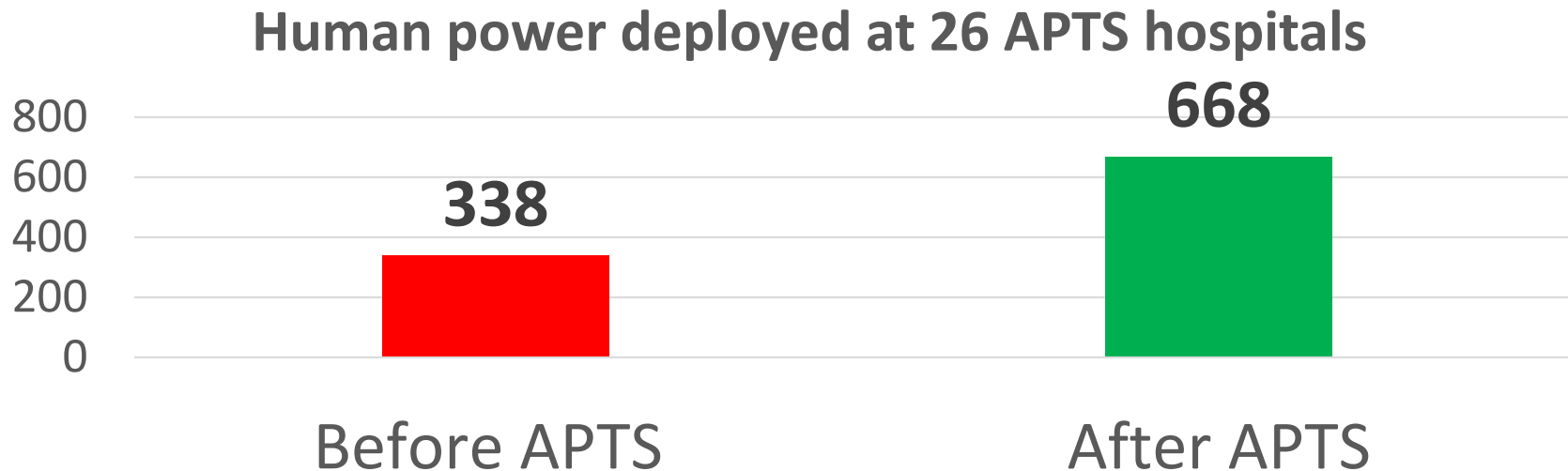
Due to APTS, proper human power deployment is now used to:

- Request medicines from store/supply chain
- Conduct accurate and fast PI
- Perform stock status analysis (SSA) and resource sharing (RS) from facility to facility
- Control products by bin ownership
- Increase medicine availability and reduce wastage



Results-2

- APTS was used to analyze the workload at all 26 sites and determine how many positions were needed to provide adequate service and perform SC responsibilities
- With this number in hand, and new APTS regulations and guidelines in place, the facilities achieved the following:



Due to APTS, 100% of pharmacists graduated in Ethiopia are employed.

Discussion - workload analysis

- APTS implementing hospitals now deploy HP based on workload analysis
- HP deployment factors in:
 - Number of dispensary counters
 - Quantity of medicines and shelves
 - Threshold for patients per day per pharmacist at outpatient pharmacy departments (OPD), which APTS establishes as max 48
- Due to APTS regulations on proper staffing, clinical pharmacies can only have 35 patients per day/ per pharmacist at primary HLs; 30 at general HLs; and 25 at special HLs.

Reference for APTS guidelines: [Chapter 10: Pharmacy Service; guideline \(google\)](#)

APTS has increased performance and satisfaction-

Metric: mothers carrying children from worst to the best sites

X



Satisfaction rate of interviewed patients and SC workers showed improvement: from 51% before APTS to **91-100%** after APTS



Read more: <https://chemonics.com/impact-story/attention-to-detail/>

Impact on supply chain performance

- After APTS, PI of dispensaries now ranges from 0.33 to 1 day
- Availability of medicines at APTS sites increased from 80% to 100%
- Store PI went from up to 16 days to 1-4 days
- Average wastage rate improved:
 - Before APTS < 5.1%
 - After APTS < 2%
 - **Why?** HP deployment & bin ownership!



The hospitals that deployed human power by workload analysis used bin ownership principles for inventory

Read more here: <https://chemonics.com/impact-story/attention-to-detail/>

Lessons learned and next steps

APTS principles of proper human power (HP) deployment can:

1. Increase availability and reduce wastage rate
 2. Bring best quality of service improve patient satisfaction
- Human power deployment based on workload analysis are very important
 - Due to the assessment results, the APTS system will continue with much government support in the next years.
 - And all regional states will continue to use evidence-based workforce deployment (using the approved directives/guides)
 - The APTS system should be considered for expansion across Ethiopia and could even be considered for other countries --

In Africa? Europe? Americas? How?

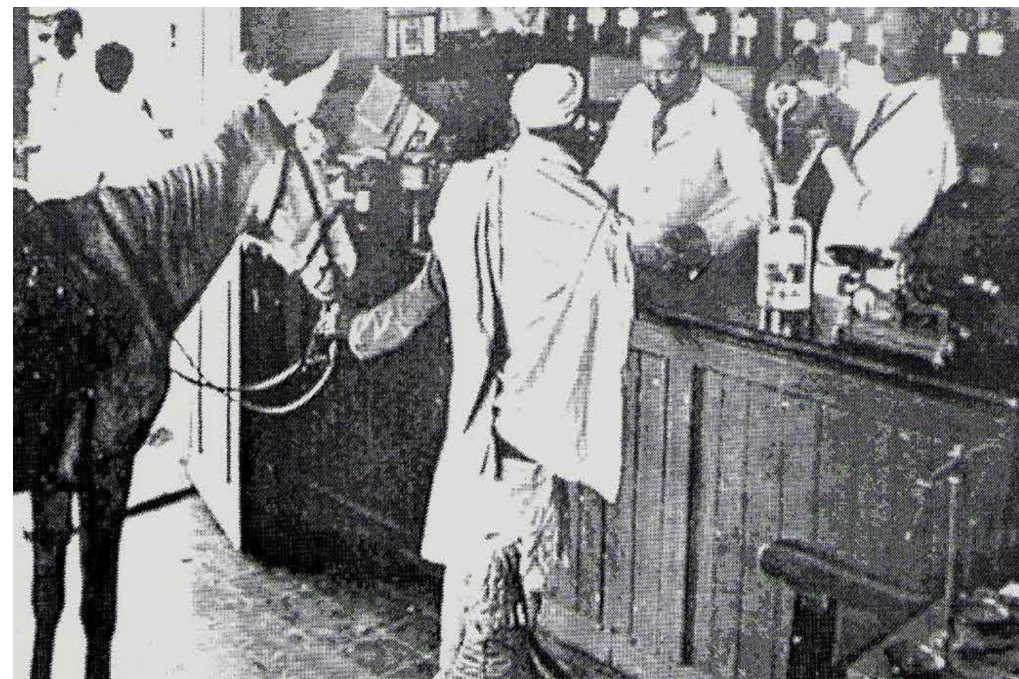
APTS implementation inaugurations by MOH, RHB and GHSC-PSM (2019, 2020, 2021)



Ribbon-cutting by MOH and First Lady of Ethiopia



Inauguration of APTS



**Pharmacy design,
100 years ago
Addis Ababa, Ethiopia**

**Pharmacy design
based on APTS
principles in 2021**



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