





Integrating 3HP-based Tuberculosis Preventive Treatment (TPT) into Zimbabwe's Fast Track HIV model

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Background

Zimbabwe was moved from the world's top 30 list of countries heavily burdened by TB in 2021.

It now has a double burden of TB/HIV and MDR-TB.

- TB estimated incidence of 193 /100,000 population in 2020
- TB/HIV co- infection rate of 53% (*Global TB Report, 2022*)
- Zimbabwe has been providing TB Preventive Therapy (TPT) for PLHIV since the pilots in 2010
- Isoniazid was the mainstay of TPT in line with global guidance until the introduction of new and shorter TB regimens



3HP in Zimbabwe

- 3HP (three months of once weekly rifapentine and isoniazid) was adopted as a preferred TPT regimen in 2019
- This new guidance was incorporated in the national documents in 2019
- The introduction of 3HP in the health system started with the implementation of the 3HP Scale Up
 Feasibility Study that the MoHCC conducted with support from IMPAACT4TB through CHAI in 2020
 - 2022.
- The country has successfully scaled up 3HP as the preferred regimen of choice on with consumption increasing to reach the regimen split targets of 30% INH and 70% 3HP by Dec 2023
- 3HP has been well received by recipients of care, and representatives of PLHIV who feel that the convenience it provides promotes compliance and adherence.

Study Goal and Objectives

Goal:

To improve TB preventive treatment (TPT) coverage amongst PLHIV in less-intensive differentiated treatment models, ICAP partnered with MoHCC, HRSA, CDC and ZNNP+ to assess integration of TPT into Fast Track (FT) models.

Objective:

To explore the feasibility and acceptability of integrating 3HP into the FT model without adding additional HF visits.

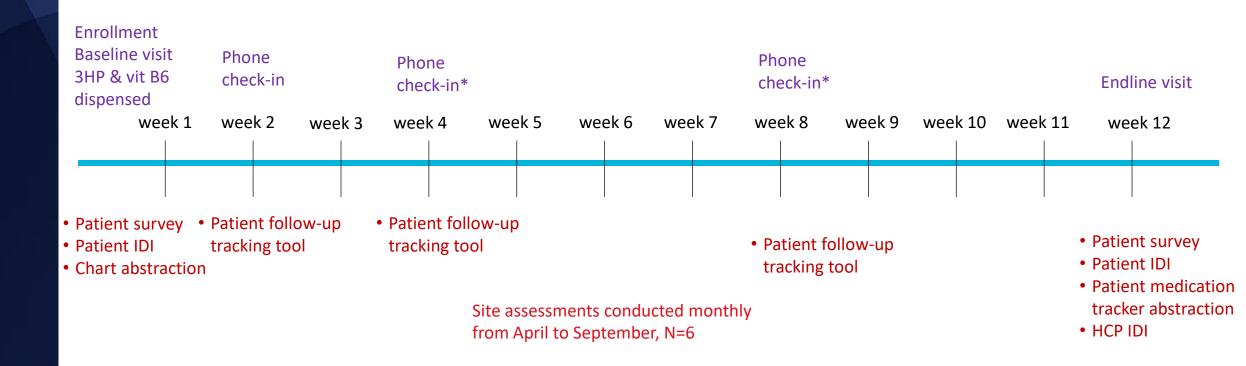
Zimbabwe's Fast Track Model

- Facility-based individual model for adults established on ART ("stable patients")
 - Patients come to HF quarterly to collect medication from pharmacy/dispensing point
 - Annual clinical examination + labs
- Approximately 19% of people on ART in Zimbabwe are enrolled in FT
- The pilot was designed to align TPT with the routine FT visit and dispensing schedule
 - Recruited PLHIV attending routine FT visit
 - Utilized mobile phone follow up and counseling instead of additional visits



Timeline

Patients, N=50 Healthcare Providers, N=11 1 Urban Health Facility



The pilot was conducted between April-June 2021 and followed up through September 2021

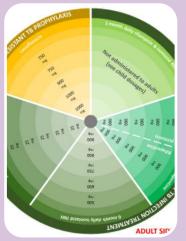


Toolkit

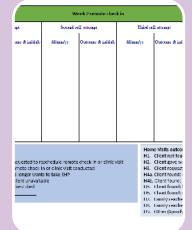












clinical
algorithm based
on national
guidelines used
by HCP to assess
patients for 3HP
eligibility;
initiate 3HP; and
monitor for
adherence, side
effects and TB
symptoms.

Pocket card
used by HCP to
deliver
messages
encouraging 3HP
initiation and
adherence and
advising about
side effects.

Illustrated
flipchart used by
community
referral
facilitators to
educate PLHIV
about 3HP and
provide
adherence
counseling.

Dosage chart
that allow HCP
to determine
the appropriate
dose of isoniazid
and rifapentine
by weight.

3HP Patient
Management
Tool used by
ROC to note
their adherence
and refer to side
effects.

HCP and SMS logs used to record 3HP delivery and outgoing SMS messages.

Job Aids

M&E Tools

Pre-pilot views of study participants on TB, TPT and 3HP through Fast Track

Knowledge of TB

- Most participants had little to moderate understanding of TB
- Knowledge was mostly regarding TB symptoms; less knowledge regarding diagnosis and treatment
- Aware of risk of TB

Knowledge of TPT

- Most participants had never heard of TPT
- The few that had taken TPT in the past did not remember much about the treatment

• 3HP in Fast Track

- Despite low understanding and knowledge of TB and TPT, most participants thought 3HP through FT is a good idea and a convenient/helpful method of TPT delivery
- Participants were confident in their ability to adhere to 3HP with support of HCPs
- Concerns about drug interactions, ability to remember once weekly dosing, pill burden on 3HP days
- Need support in order to adhere, including nutritional support, adherence support, informational support



Completion rates during the pilot period

44 participants **completed 3HP** within 12 weeks

88%

- 4 participants completed within 13 weeks
- 1 participant completed within 16 weeks
- 1 stopped at 8 weeks due to jaundice

100%

week 2 remote check ins completed

100%

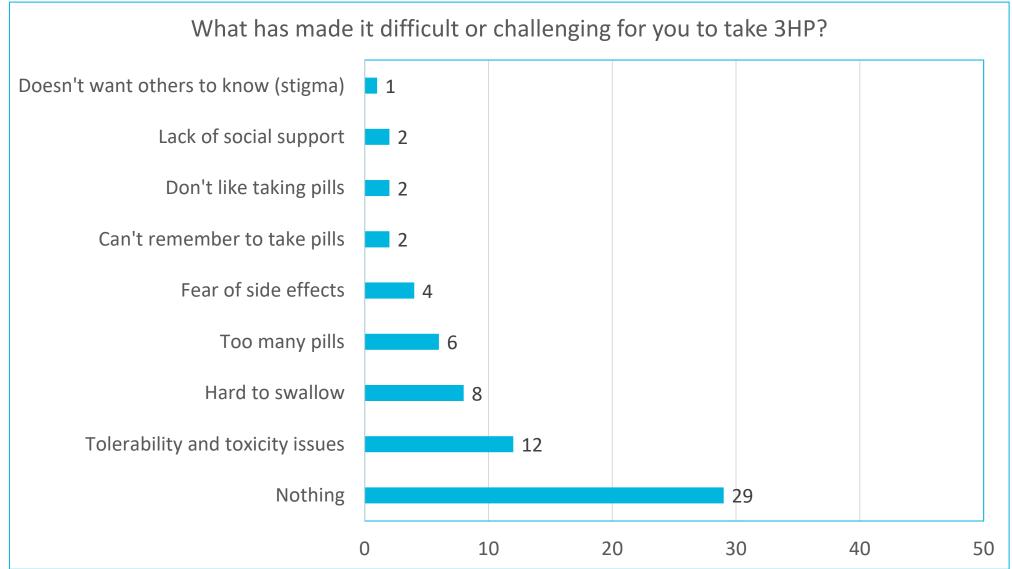
month 1 remote check ins completed

100%

month 2 remote check ins completed

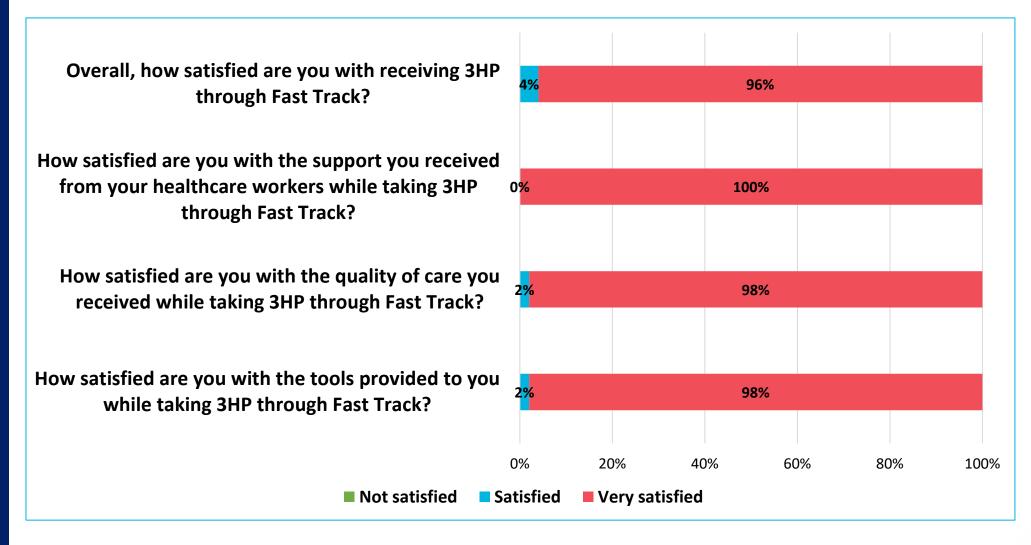


ART & 3HP Adherence Challenges



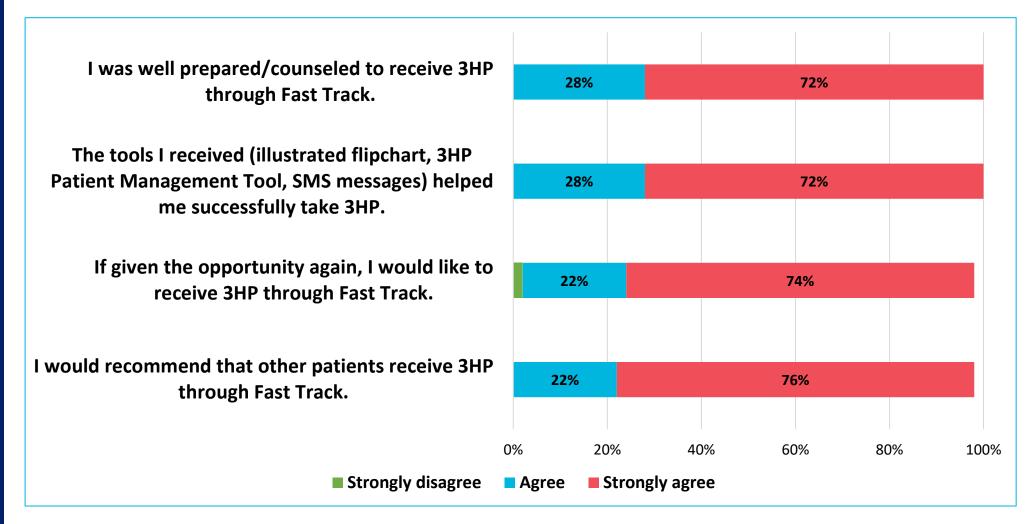


Views on 3HP through Fast Track





Views on 3HP through Fast Track cont.





Patient participant quotes

"What helped me was the fact that I knew the benefits of taking 3HP and I also knew that it prevents against TB so that encouraged me to take it."

-Male, <30 years old

"What helped me most is Fast Track... because I could collect my medication fast; I got my ARVs and 3HP at the same time. I did not collect the medication at different serving points."

- Female, <30 years old

"What I think is helpful is the way health care providers talk to the patient as they will be giving education on 3HP... they take time to explain the use of the pill... Then they follow up on you trying to understand if you are taking your medication well."

- Female, ≥30 years old

"The medication tracker was most helpful because I would tick it soon after taking my medication... It worked as a reminder so I would take my medication."

- Male, ≥30 years old

"What I found most helpful is that... you will realize that your body will become much stronger and also the adherence support you get from healthcare providers motivates you to want to stay healthy."

- Female, ≥30 years old



Healthcare providers

- All providers reported that it is 'very important' (n=9; 82%) or 'important' (n=2; 18%) to scale up TPT for HIV-positive people in Zimbabwe and that the shorter 3HP regimen led to high rates of adherence
- All providers acknowledged that the integration of 3HP into the FT model was a success
- Benefits of integration included:
 - reducing provider workload
 - decongesting the health facility

"...since we are continuing with the DSD models and the Fast Track I think this will actually blend very well because... it will be easy to introduce 3HP to our clients."

- Female, Nurse

"when someone on Fast Track comes for their ART drug pick-up we then also give him 3HP to take for three months, that way the patient doesn't keep visiting the clinic like someone on IPT. So for 3HP, someone on Fast Track gets ART for three months and also 3HP for three months... It de-congests the clinic. It also reduces workload."

- Female, Linkage facilitator/health officer



Conclusion

- Using the FT model to deliver 3HP was feasible and acceptable to adults on ART
- Some toxicity and tolerability challenges were reported but 98% of participants completed 3HP
- No participants wished for additional health facility visits
- All participants appreciated the efficiency of phone-based counseling.

Scaling up 3HP for PLHIV in the FT model has the potential to expand TPT coverage in Zimbabwe.



Acknowledgements

- Study investigators
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Thank you!

