Improving TB Treatment Success Rates through timely data insights

A Success Story

July 2023

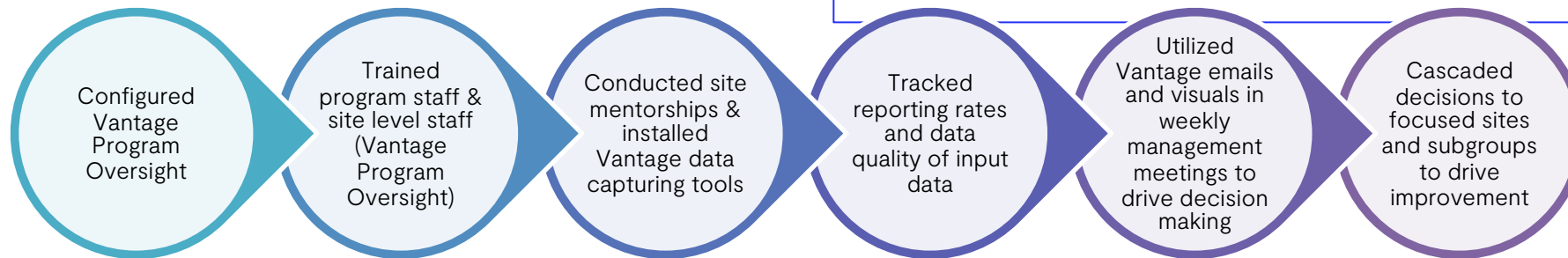vantage
health technologies

A part of the

BROADREACH
group
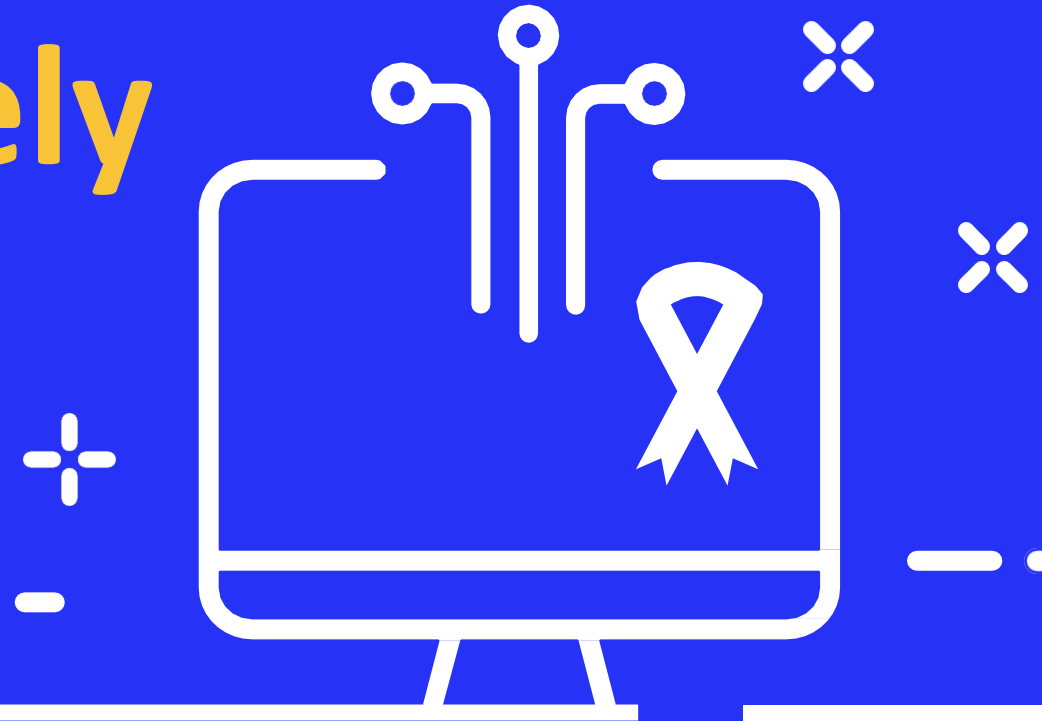
The Challenge

A research centre in East Africa working in the fight against the HIV and TB epidemic was finding it difficult to manage TB outcomes due to the lack of regular insight into performance data to adaptively manage the program's interventions in one of their subregions. Treatment Success Rates (TSR) were stagnant at 88% for a period of 6 months. The centre needed to effectively track the treatment of TB patient cohorts to promote better adherence to achieve successful outcomes.

They were relying on the national HMIS system that provided a view on TB outcomes on a quarterly cadence; while these data points were integral for reporting purposes, they were not timeous enough to facilitate decision making proactively to get ahead of problems. More frequent updates were managed through Excel based tools that were difficult to manage from the perspective of analysis, sustainability and version control. As a result, visibility and alignment of the program's performance across a wide range of stakeholders was sub-optimal.
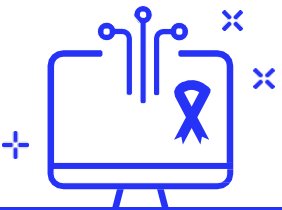
The Approach

In addition to other program data related interventions, the research centre implemented an abbreviated version of the Vantage Program Oversight Solution to provide a single system to manage all key areas of the program through the visual representation of data.

The Solution

The research centre partnered with Vantage Health Technologies (part of the BroadReach Group) to implement the Vantage Program Oversight solution. This solution provides a birds-eye view of the overall program's status across HIV prevention, testing and treatment cascades as well as TB and Cervical cancer management. Managers can understand overall performance and then drill down to focus on specific areas where focus was required. To address the issue of obtaining more frequent updates on specific areas of performance, Vantage data capturing tools were deployed at the facility level to allow staff to timeously capture data. This included data around the TB cohorts being treated and the non-virally suppressed HIV population. Vantage also integrated already existing feeds from the national HMIS system on other indicators that were being collected on a weekly and monthly basis to provide a single point of reference from which to manage all key areas of the program through the visual representation of data.

1. Define the key goals and objectives the program was aiming to achieve
2. Understand the different role players, their areas of focus, and what intelligence they need to effectively accomplish their mandates
3. Conduct a data landscape assessment to understand existing data availability, quality, timeliness and the gaps thereof
4. Configure the Vantage Program Oversight solution to proactively deliver visual representations of performance that are refreshed on a weekly and monthly basis. As part of this solution, Vantage data capture tools were also deployed to allow site level staff to directly capture non-routine weekly TB adherence data into the solution for more granular oversight at the high burden sites.
5. Trained and supported staff to utilize Vantage in weekly meetings to drive adaptive management around launching interventions to address performance, data quality and reporting compliance issues.

Configured Vantage Program Oversight → Trained program staff & site level staff (Vantage Program Oversight) → Conducted site mentorships & installed Vantage data capturing tools → Tracked reporting rates and data quality of input data → Utilized Vantage emails and visuals in weekly management meetings to drive decision making → Cascaded decisions to focused sites and subgroups to drive improvement
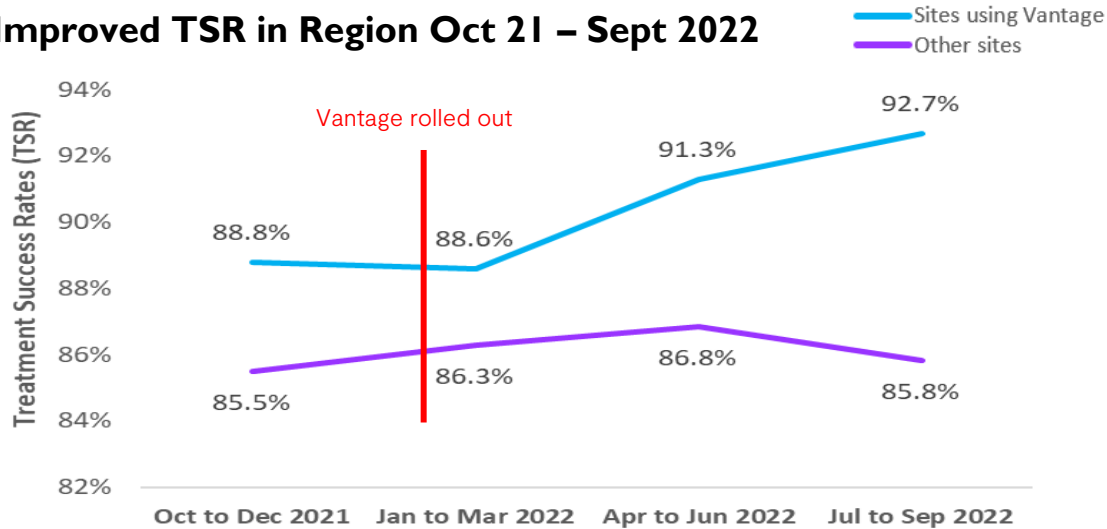
The Results

Improved outcome indicator of TB Treatment Success Rate among sites using Vantage

92.7% TSR achieved

3.9% improvement by year end

Through management of non-routine weekly data around sputum monitoring and appointment keeping, sites using Vantage for routine TB management saw a marked increase in the Treatment Success Rates achieved from 89% to 93% over 6 months, while sites not on Vantage remained stagnant at ~86%.

Improved TSR in Region Oct 21 – Sept 2022

Sites using Vantage
Other sites

Vantage rolled out

92.7%
91.3%
88.8%
88.6%
86.8%
85.5%
86.3%
85.8%

Treatment Success Rates (TSR)

94%
92%
90%
88%
86%
84%
82%

	Oct to Dec 2021		Jan to Mar 2022		Apr to Jun 2022		Jul to Sep 2022	
# facilities	43	13	49	14	45	14	52	19
Cohort size	189	110	266	135	257	152	390	148

Performance gap between the two sets of sites increased from **3.3% to 6.9%**

Client Experience

Sharing of best practices and improved evidence-based decision making

Having visibility to non-routine indicators like weekly TB appointment and sputum monitoring has helped create visibility of the process gaps that we can then use to share with the management team for timely action.

*M&E DIRECTOR

Sharing of best practices and improved evidence-based decision making

The weekly reporting of data has empowered me to share performance trends with TB clinic staff so that we can collaboratively find solutions to the gaps that have been identified and initiate Quality Improvement initiatives.

SITE LEVEL DATA STAFF

One stop shop for understanding program performance

Having a consolidated view of data in one system and having a summary of performance delivered directly to my inbox has facilitated me in the production of our institutional reports.

REPORTING MANAGER

* Monitoring and Evaluation

A part of the

vantage
health technologies

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