

Using Al & to Personalise Care in HIV programmes



Al is key to Personalisation of HIV Care at Scale







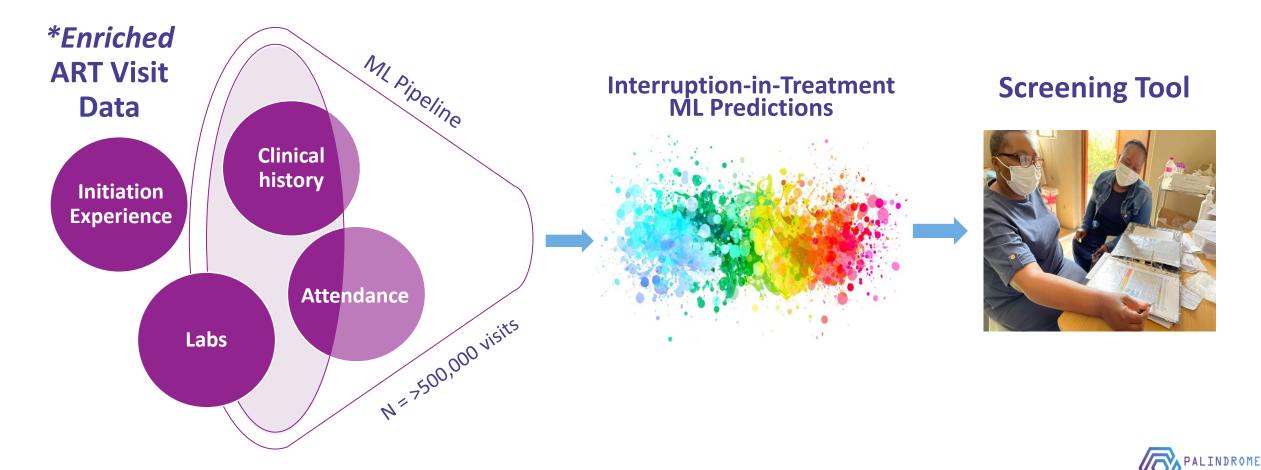


Al Tailored & Targeted
Interventions to meet Complex
needs



Method:

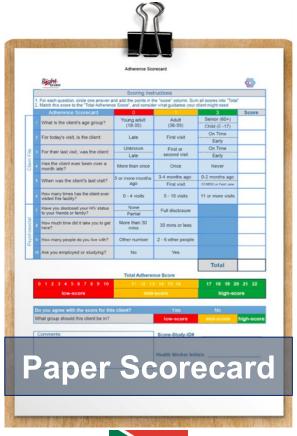
Predict Interruption using EMR visit data & Machine Learning

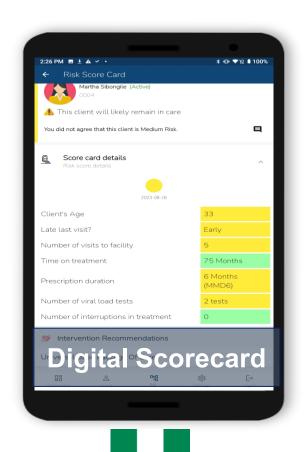






Application: Feasible point of care risk tool







- √ 98% Predictions Agreeable for Healthworkers
- √ Fast < 2 mins
 </p>
- √ is Personalising care

In Study – How Improve Outcomes 🧶







How is it used in a clinic?

'File History' - helps identify how stable is the treatment journey

'Psychosocial' section - helps identify and discuss patient struggles



Adherence Scorecard



Scoring Instructions

1. For each question, circle an answer and add the points in the "score" column. Sum all scores into "Total".

2. Match this score to the "Total Adherence Score", and consider what guidance your client might need.

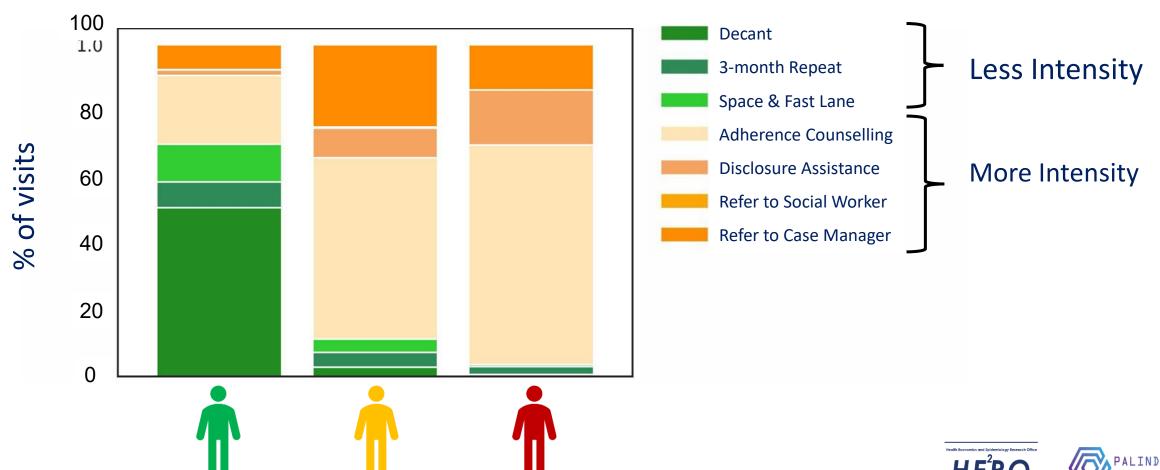
		Adherence Scorecard	0	1	3	Score
Client File		What is the client's age group?	Young adult (18-35)	Adult (36-59)	Senior (60+) Child (0 -17)	1
	2	For today's visit, is the client:	Late	First visit	On Time Early	3
	3	For their last visit, was the client:	Unknown Late	First or second visit	On Time Early	0
	4	Has the client ever been over a month late?	More than once	Once	Never	1
	5	When was the client's last visit?	5 or more months ago	3-4 months ago First visit	0-2 months ago	3
	6	How many times has the client ever visited this facility?	0 - 4 visits	5 - 10 visits	11 or more visits	0
Psychosocial	7	Have you disclosed your HIV status to your friends or family?	No disclosure Partial	Full disclosure		1
	8	How much time did it take you to get here?	More than 30 mins	30 mins or less		1
	9	How many people do you live with?	Other number	2 - 6 other people		1
	10	Are you employed or studying?	No	Yes		1
					Total	12

Total Adherence Score

0 1 2 3 4 5 6 7 8 9 10	11 12 13 14 15 16	17 18 19 20 21 22	
low-score	mid-score	high-score	

HCW personalising care using risk profile











Nigeria Integration: Al Case Management Risk-Scoring



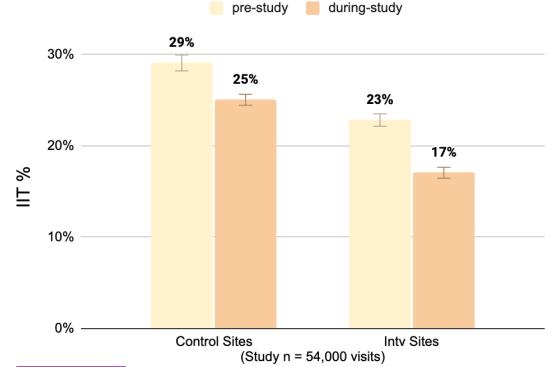


Palindrome Data **integrated** its Al & ML functionality into an existing National EMR System in Taraba and Kwara states (Jhpiego and CCRN)

- 49 facilities,
- 180 mobile case managers,
- >50,000 patient visits

Studying HIV patient management using a breakthrough AI risk-scoring case management tool integrated into existing EMR (LAMIS+)

Risk scores reduced (Abs) IIT in Intervention Sites

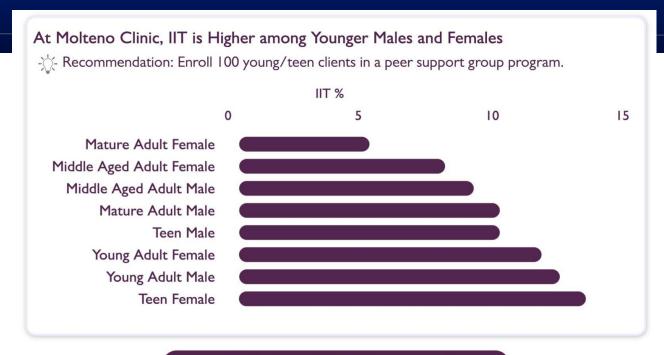


Preliminary pre-print results!





Lesedi AI: Sub-National Programme Recommendation Engine



: Ask Lesedi Al to Recommend

- Here are some suggestions for age and gender groups at the highest risk of IIT:
 - * Teen Female: Focus on improving communication and support systems for this group. This could include dedicated youth-friendly resources, peer support groups, and increased involvement of parents or guardians in treatment planning.
 - * Young Adult Male: Address potential barriers to adherence such as stigma, mental health issues, and lack of access to services. This could involve offering confidential and accessible mental health services, promoting open dialogue about HIV, and ensuring convenient access to medication and support.
 - * Young Adult Female: Provide tailored support and education that addresses the unique challenges faced by young women. This could include information on managing HIV during pregnancy, family planning, and the impact of HIV on fertility.

The LLM Can:

- Explain insights, graphs and data intuitively
- Generate recommendations from general context
- Generate recommendations from public guidelines

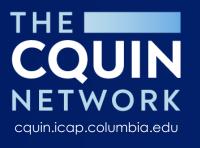
We're experimenting with traceable action:

- Make insights and graphs easy to share
- Generate text to explain local situation and challenges
- Supporting meetings and decision making practically









Thank You!

