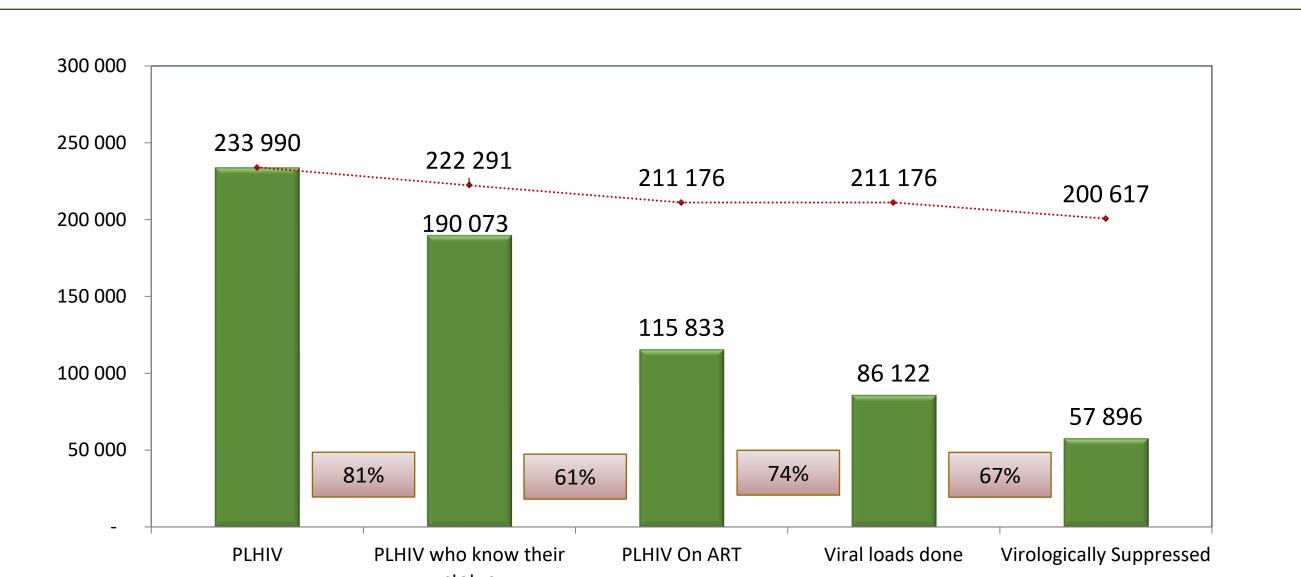
# ACCELERATING ACHIEVEMENT OF THE 95-95-95 TARGETS IN SOUTH AFRICA USING A PAEDIATRIC AND ADOLESCENT MATRIX OF INTERVENTIONS

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#### BACKGROUND

Although South Africa has made progress towards achievement of the 95-95-95 targets in the overall population, a notable gap in HIV testing and treatment of children and adolescents remains with the cascade for children under 15 years standing at 81-61-67 as of March 2023 (see Figure 1. below).



### **DEVELOPING AND IMPLEMENTING THE MATRIX OF INTERVENTIONS**

Within the South African public sector, HIV treatment services are provided through approximately 3 500 primary health care clinics and community health centres. In order to reach the 95-95-95 targets and to end AIDs in children, minimum standards of care for children living with HIV (CLHIV) need to be explicitly defined, prioritized, communicated and implemented at scale in all health facilities and in their local communities, and monitored across facility, district and provincial levels.

As a first step in this process, the National Department of Health convened a consultative process with various stakeholders including provincial Departments of Health, Clinical Technical Advisors, implementing partners and donors, during which a package of interventions (both community-based and facility-based) across the 95-95-95 cascade were discussed, refined, and finalised.

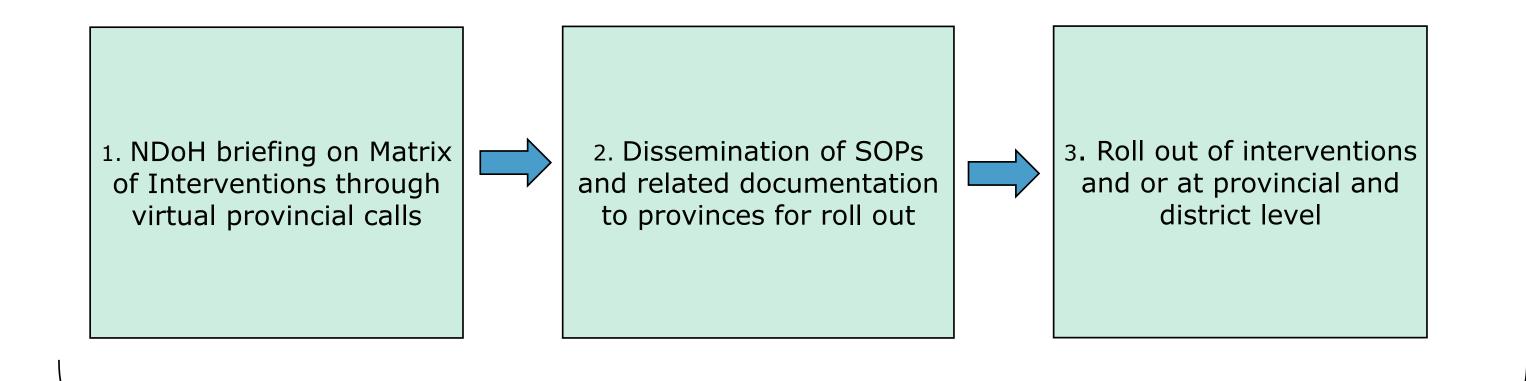


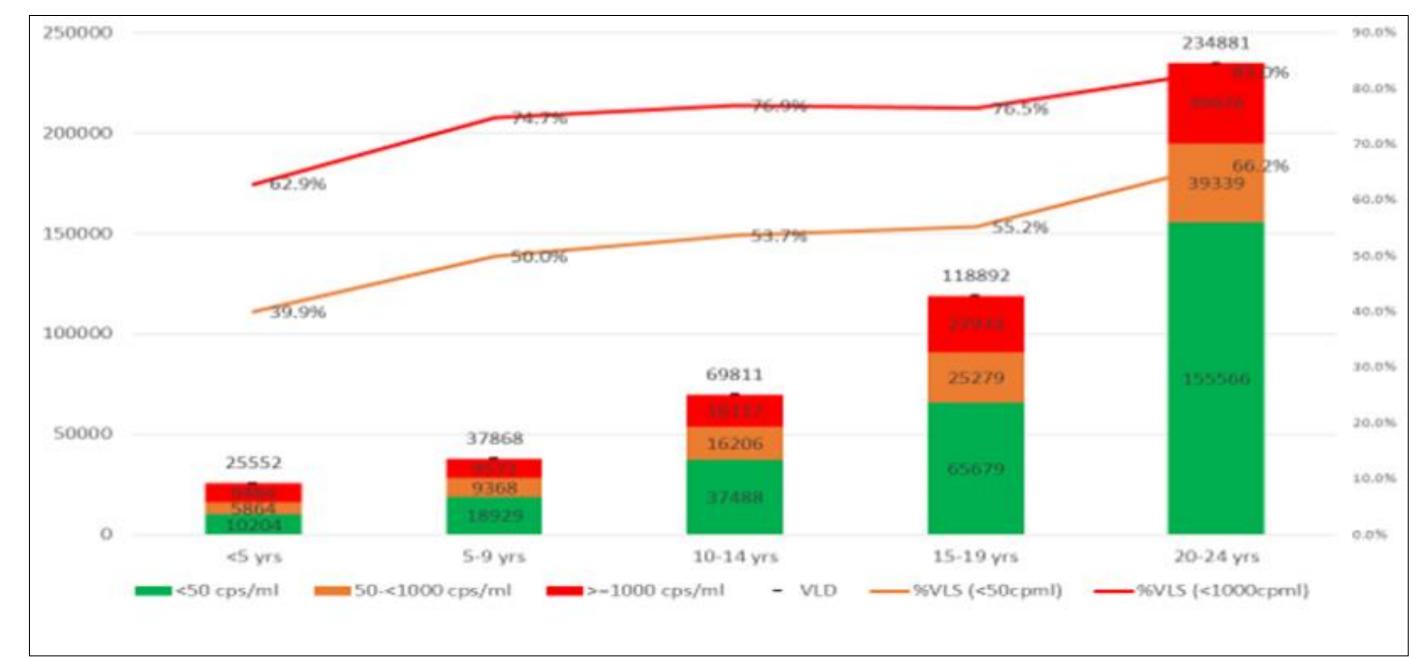


Figure 1: 95-95-95 cascade – children under 15 years in South Africa as of March 2023. Source: District Health Information Systems (DHIS)

ARV coverage and viral suppression rates are lowest in young children as shown in Table 1and Figure 2 with fewer than half of children living with HIV under 5 years of age being on treatment. However, as a result of declines in vertical transmission and ongoing acquisition of HIV infection by adolescent girls, the highest number of children and adolescents not on treatment occur in the 10 - 14 year and 15 - 19year age cohorts. Viral suppression rates are also lowest amongst young children and increase across age cohorts (see Figure 2).

		Fe	males		Males				
Age group	Living with HIV	On ART	ART Coverage	Gap	Living with HIV	On ART	ART Coverage	Gap	
0-4yrs	19,270	9,061	47%	10,210	19,576	7,827	40%	11,748	
5-9yrs	37,175	18,757	50%	18,418	37,725	17,655	47%	20,070	
10-14yrs	60,040	32,577	54%	27,463	60,205	29,956	50%	30,249	
15-19yrs	132,257	76,442	58%	55,815	71,423	46,368	65%	25,055	
0-19yrs	248,742	136,837	55%	111,905	188,928	101,806	54%	87,122	

Table 1: ART coverage in children and adolescents living with HIV in South Africa (PLHIV data - Sept 2021; DHIS data - March 2023; CMS data - Dec 2021)



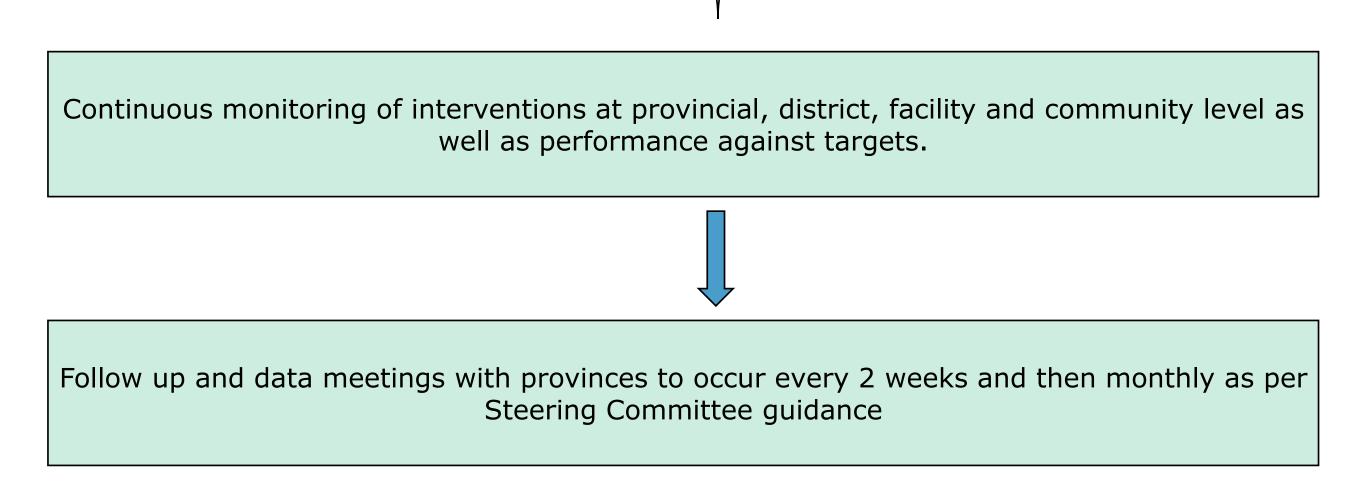


Figure 3: Matrix of Intervention (MOI) roll out process

These interventions formed the Matrix of Interventions which is shown in Table 2. Detailed standard operating procedures (SOPs) for each intervention in the MOI have been developed in order to provide facilities with detailed guidance on how to implemented and monitor interventions. Each of the nine provinces developed a plan for implementing the MOI interventions, and a Steering Committee was formed to monitor performance against targets.

Cascade		Setting	High Level Intervention	Age groups			
				0-4	5-9	10-14	15-19
1 <sup>st</sup> 95	Case Finding	Facility (Or mobile clinics)	Key entry point testing	Х	Х	Х	Х
			Index Testing	х	х	х	х
		Community Community-based screening and referral for testing		х	x	х	х
2 <sup>nd</sup> 95	Linkage to Care	Facility	Linkage to care through the use of Lab Results for Action Datasheets	х	х	х	х
			Digitisation of PCR Positive results	Х	_	-	-
		Facility & Community	Community health worker Tracking and Tracing/recall for ARV initiation	х	х	х	х
3 <sup>rd</sup> 95	Retention & Viral Suppression	Facility	Child, Adolescent and Family Care Days	х	х	х	х
		Facility & Community	Community-based psychosocial support	х	х	х	х
		Facility & Community	Community Health Worker Tracking and Tracing for those with missed appointments for re- engagement in care	Х	х	Х	Х

Figure 2: Number of Viral Loads taken and Viral Load suppression amongst children and adolescents living with HIV in South Africa, January - December 2022, (National Health Laboratory Services data)

## THE GLOBAL ALLIANCE TO END IN CHILDREN

Angola, Cameroon, Côte d'Ivoire, the Democratic Republic of the Congo, Kenya, Mozambique, Nigeria, South Africa, Tanzania, Uganda, Zambia, and Zimbabwe formed the Global Alliance to End AIDS in Children at the AIDS 2022 in Montreal (QC, Canada). In February 2023, South Africa and the other 11 African nations met in Tanzania to sign the Dar es Salaam Declaration for Action to End AIDS in Children by 2030. The declaration affirms a commitment to ending paediatric HIV.

The four key pillars of the Global Alliance plan (which feature the interventions from the MOI as key strategies) are:

Table 2: Paediatric and Adolescent Matrix of Interventions

#### **LESSONS LEARNED**

The MOI has assisted in focusing, standardising and co-ordinating interventions implemented by multiple stakeholders. The tool has assisted HIV AIDS STI and TB (HAST) programme managers to improve monitoring and evaluation of the programme at the facility/district and provincial levels. Currently interventions aimed at reducing vertical transmission of HIV as well as those aimed at ensuring that children are transitioned to DTG-containing regimens are being integrated into the matrix.

# • Multimodal testing and optimized comprehensive, high quality treatment and

- care for infants, children, and adolescents living with and children exposed to HIV
- Closing the treatment gap for pregnant and breastfeeding women living with HIV and optimizing continuity of treatment towards the goal of elimination of vertical transmission
- Preventing and detecting new HIV infections among pregnant and breastfeeding adolescents and women and
- Addressing rights, gender equality and the social and structural barriers that hinder access to services.



To date improvements against the 95-95-95 targets remain modest, in part as a result of the effects of the COVID-19 pandemic. Although key interventions should be implemented across all facilities, some interventions have proved difficult to implement without additional support and resources provided by partner organizations.

# CONCLUSIONS

The MOI provides a standardised framework for implementing evidence-based, proven strategies focused on identification, strong linkage systems, and improved retention and viral suppression. It provides the basis for ensuring standardized implementation and for holding health facilities and partner support organisations accountable for ensuring improved outcomes for children living with HIV.

