BPaL-L Implementation for WHO meeting









Chief Director: Prof N Ndjeka

Deputy Director: Drug Resistant TB

Ms Y Kock



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Outline



- 1. Background and Rationale
- 2. Preparatory phase
- 3. Scale-up phase
- 4. Maintenance phase
- 5. Conclusion







1. Background and Rationale

RR/MDR-TB treatment in South Africa - Evolution



Period	RR/MDR-TB Shorter Regimen	RR/MDR-TB Longer Regimen	XDR-TB Longer Regimen
2011 – 2016	Not applicable	 24 months (at least) 5 drugs 180 injections + 7 200 pills 	 24 months (at least) 7 drugs 180 injections + 7 200 pills
2017 – 2018 (Aug)	 9 – 11 months 7 drugs Up to 180 injections + at least 2 880 pills 	 18 – 20 months 5 drugs Up to 180 injections + at least 5 400 pills 	 18 – 20 months 5 drugs All-oral: at least 3 968 pills
2018 (Aug) – 2023	 9 – 11 months 7 drugs All-oral: at least 3 038 pills 	 18 – 20 months 5 drugs All-oral: at least 5 048 pills 	 18 – 20 months 5 drugs All-oralL: at least 3 968 pills







RR/MDR-TB treatment in South Africa - BPaL-L

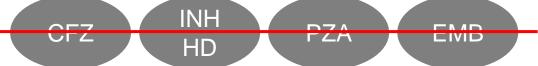


Old 9-month regimen: ~3,038 pills



















New 6-month BPaL-L regimen: ~860 pills









2. PREPAROTORY PHASE

Preparatory needs analysis – gaps (June 2022)



	Green means positive response/satisfactory/availar

National		Red means negative response/unsatisfactory/unavailable										
				Provinces already Implementing BPaL CAP				Provinces for scale-up				
•	Health and regulatory: DG's approval	Questions		KZN	GP	WC	NW	FS	NC	EC	MP	LP
•	Drug supply and procurement: Listing of pretomanid on	pretomanid on Does the Province form part of the BPaL CAP?		Y	Y	Y	Y	N	N	N	N	N
	EML	Does the Province have a supporting partner assisting/ to assist with the implementation of BPaL?		Y	Y	Y	N	N	N	Y	Y	Y
•	Case management: Guideline revision & training	Has the province started discussing		27/4	27/4	27/4	27.1	N.	Y	N	N	N.
•	M &E: Update of data system (EDRWeb)		tion of BPaL ovince have a DR-TB	N/A	N/A	N/A	NA	N	Y	N	N	N
•	Pharmacovigilance: Capacity building	budget for t BPaL?	he implementation of	Y	Y	Not Specified	Y	N	N	Y	Y	Y
		Source of th	e budget	Voted fund	Deman d Plan	Not Specified	TB/HIV Conditional Grant	TB/HIV Conditional Grant	TB/HIV Condition al Grant	TB/HIV Condition al Grant	TB/HIV Conditional Grant	TB/HIV Conditional Grant
_	Financial resources: Funding landscape reviewed	Do you hav BPaL	e sufficient staff for	Y	N	Not Specified	Y	N	Y	N	Y	Y
Provincial		Adequate tr	aining on BPaL?	N	N	N	N	N	N	N	N	N
•	Training		ovince have DR-TB ogramme supported by	Y	N	Relies on NDoH	Y	Not Specified	Y	N	Y	Y
•	Partner support in one province	Do you hav	e adequate equipment	Y	Y	Y	Y	Y	N	N	Y	Y
raither support in one province		Does the fa	cilities have access to 2nd sting	Y	Y	Y	Y	Y	N	Y	у	Y







Does the facilities have access to blood investigations?

Method of implementation









REPUBLIC OF SOUTH AFRICA

Department:

- Approval by NEMLC
- GF Donation acquired for pretomanid
- NCAC: Guidelines updated, and training materials/ manual developed
- DR-TB stationery & data systems updated
- Dashboard developed
- Constant training: webinars
- Phase-in approach
 - Training conducted across the 9 provinces

RSA Department of Health

BPaL Programme Dashboard

Aim

Monitor the implementation of the new 6-month TB treatment regimen Monitor accurate, clean, timeous data capturing

Inclusion criteria

All patients initiated on RR-TB treatment Patients above 15 years of age All patients registered with Pretomanid in their current treatment

Exclusion criteria:

Patients diagnosed with XDR-TB treatment
Patients less than 15 years of age

Pregnant women









Medicine	What do patients need	Unit(s)	Regimen length
Bedaquiline; 100mg; Tablet; 188 Tablets	1	pack	6-month course
Delamanid; 50mg; Tablet; 48 Tablets	15	packs	12-month course
Pretomanid; 200mg; Tablet; 30 Tablets	6	packs	6-month course
Levofloxacin; 500mg; Tablet; 28 Tablets	12*	packs	6-month course at 1000mg per day
	6*	packs	6-month course in a 750mg combination
Levofloxacin; 250mg; Tablet; 28 Tablets	6*	packs	6-month course in a 750mg combination
Linezolid; 600mg; Tablet; 10 Tablets	18	packs	6-month course













Visit to the pharmaceutical depot to discuss drug's availability (Left) and DR-TB Training (Right)



Certification Trained NIMDR-TB Nurses, Free State Province







DR-TB Clinical Audit Field Activities











World Health Organization (WHO) Green Light Committee (GLC) Review











3. SCALE – UP PHASE

DRUG RESISTANT TB CAN BE CURED

NEW REGIMEN for MDR-TB BPaL - L is better for you!









ONLY 6 months of treatment

3 to 4 medicines 90% cure rate

Simplified regimen













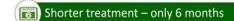






The new regimen for MDR-TB patients has many advantages, including:





Fewer facility visits, which means a lower costs for you to get treated

Speak to your healthcare worker today to find out if you are eligible!





















BPaL-L Launch













BPaL-L LAUNCH

September 1st, 2024

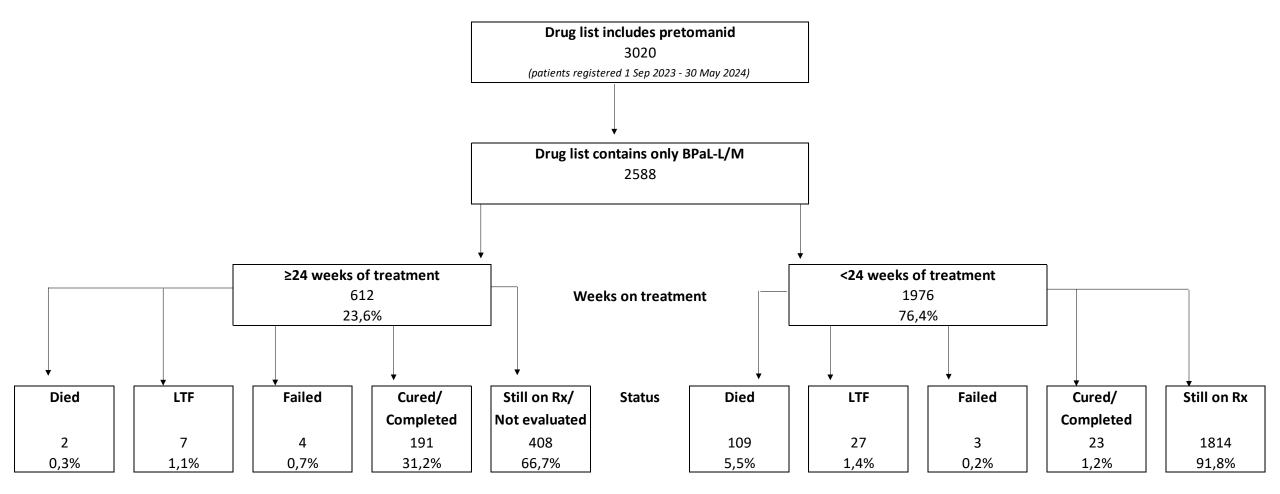






Treatment Status of BPaL-L/M Patients – 30 May 2024





Source: EDRWeb





Characteristics of BPaL-L/M Patients — as of 30 May 202

19,0 (IQR: 16,9 – 22,1) 401 (IQR: 380 – 422)

11,4 (IQR: 9,8 – 12,9)

Source: EDRWeb	N	%		
Number of patients on BPaL-L/M	2 588			
Nurse initiations	1 015	39,2		
Patient Category				
- New	1 573	60,8		
- Relapse	580	22,4		
 Retreat after Loss to Follow-up 	225	8,7		
- Retreat after Treatment Failure	182	7,0		
- Other	28	1,1		
Drugs				
- BPaL-L	2 276	87,9		
- BPaL-M	35	1,4		
- BPaL-L+M	44	1,7		
- BPaL	233	9,0		
Gender				
- Male	1 594	61,6		
HIV Status				
- Positive	1 618	62,5		
- On ART	1 501	92,8		

Baseline measures (select)

Electrocardiogram: QTcF

Body mass index

Haemoglobin

- Significant progress with NIMDR
- Majority of patients with DR-TB have never been diagnosed/treated for any kind of TB before – community transmission of different strains of resistant TB
- Majority of patients receiving BPaL with levofloxacin as per guidelines
- More than a quarter of patients are underweight

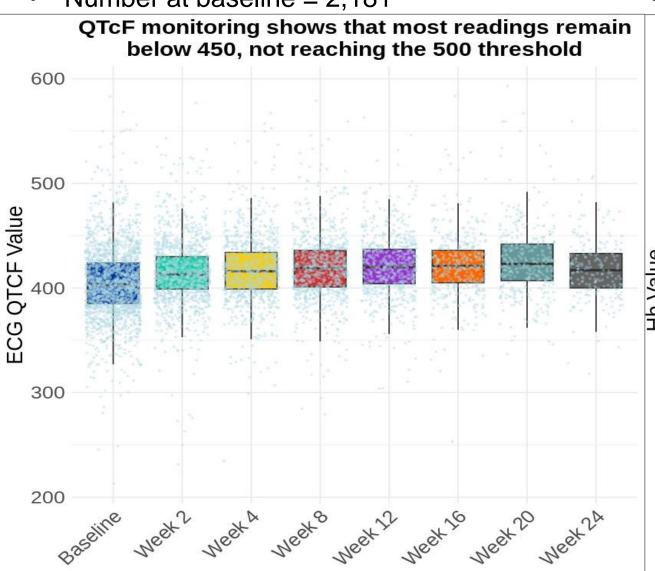




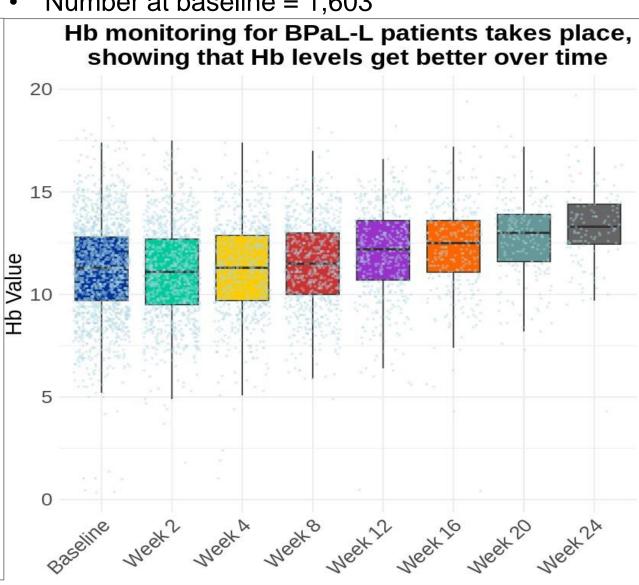
QTcF and Hb Monitoring



Number at baseline = 2,181



Number at baseline = 1,603



Successes



- Implementation across the country within
 3 months
- 23 trainings in 9 provinces with 1,188 participants
- To date 2,815 patients have been enrolled on BPaL-L
- Implementation of NIMDR-TB for BPaL-L
- BPaL-L symposiums
 - Patients advocates
- Launched #MyTBStory: https://mytbstory.co.za



Patients on BPaL-L/M as % of BPaL-L/M eligible by Province									
Province									
	Sep-2023	Sep-2023 Oct-2023 Nov-2023 Dec-202 <mark>3</mark> Jan-2024 Feb-2024 Ma				Mar-2024	Apr-2024 May-2024		
EC	46%	49%	52%	51%	64%	74%	75%	85%	85%
FS			10%	50%	47%	74%	86%	92%	82%
GP	26%	51%	73%	75%	72%	81%	80%	91%	91%
KZN	7%	27%	50%	72%	72%	80%	68%	63%	38%
LP	5%	56%	82%	92%	83%	83%	100%	91%	76%
MP		9%	62%	74%	71%	73%	83%	93%	82%
NC	12%	94%	100%	88%	95%	100%	91%	93%	96%
NW	35%	48%	44%	57%	76%	54%	70%	76%	69%
wc		1%	6%	30%	55%	67%	71%	79%	83%
Total	19%	32%	46%	60%	66%	75%	75%	81%	75%







4. MAINTENANCE PHASE

Challenges



- We are almost ready to achieve our key objective assigned during the scale-up phase which is to provide BPaL-L regimen to at least 90 % of all eligible individuals in all districts of all provinces
- Once we achieve the above objective, we have to address the following gaps during maintenance phase:
- Drug security, especially pretomanid is a challenge. Insufficient supplies at certain sites.
- DR-TB reflex / XDR-TB cartridge testing not being done routinely
- Phenotypic bedaquiline resistance tests not done routinely, yet tests are available in all provinces
- Data incompleteness particularly for:
 - XDR-TB cartridge (10 colour GeneXpert cartridge)
 - Phenotypic DST to Bedaquiline and Linezolid
 - Capturing of outcomes in the treatment register are delayed in some instances







5. CONCLUSION

Three phases of implementation



PREPARATORY PHASE

- Release of WHO guidelines, May 2022
- NCAC discussion regarding updating guidelines
- Submission to NEMLC

 Requested data from WHO
- Review indicated BPaL-L
- GF funding: drugs and training
- · Readiness assessment
- Updating of guidelines
- Development of training materials
- Updating M & E systems
- Sensitizing provinces: pharmacy managers, programme managers

SCALE-UP PHASE

- Initial training conducted in August 2023
- Drugs and updated stationery disseminated
- Launch of BPaL-L: 1st Sept 2023
- Training conducted in all 9 provinces (NDoH and NCAC members)
- Training done in phases implementation done in phase-in approach
- Active monitoring done dashboard
- aCSM plan in place
 - Patient advocates identifies
 - #MyTBStory launched

MAINTENANCE PHASE

- ≥90% eligible patients initiated on BPaL-L
- Stop active monitoring
- Trained trainers continuing training AREAS OF IMPROVEMENT
- Drug stability
- Data completeness
- Bedaquiline and linezolid monitoring











Thank you!