

WHO Target Product Profiles (TPP) Process and Implications for WHO NTDs

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Hybrid Joint Meetin









WHO Target Product Profile

- Intends to facilitate the most expeditious development of missing health products addressing the greatest and most urgent public health need
- Recognizes that access, equity and affordability are integral parts of the innovation process and need to be considered at all stages, not just after a product is developed
- Serves as a strategic reference document for comparison and transparency on alignment between WHO's preferences and that of industry or funding entity.







- 1. Determine if a WHO TPP is needed and clarify the unmet public health need
 - A. Is the public health issue a priority? What is the use case for the missing health product?
 - B. Are existing products or products in the pipeline able to meet the critical public health needs in settings where the need is greatest?







- 2. Define the scope and purpose of the TPP and obtain approval from the WHO Science Department
- 3. Determine whether there is an audience for such a TPP outside WHO through external consultations with relevant audiences







- 4. Constitute a scientific group* to develop the TPP
 - leading scientists and experts
 - public health officials
 - regulators
 - in-country end-user representatives
- 5. Develop a version zero draft of the TPP document with the TPP development group and produce a version 0.1









- 6. Post version 0.1 for public consultation for 28 days.
 - Standard feedback form
 - Disseminate news of consultation widely
 - Specifically seek comments from industry, relevant product development partnerships, funders, scientists, and end-users.





Please review the most recent Target Product Profiles (TPPs) and provide your feedback by 31 July 2019.



Access the online survey See the most recent TPPs pdf, 18 pages



- 7. Share comments received with TPP development group, together with a proposed next version of the TPP and decide:
 - a. further consultation and revision
 - b. endorsed as version 1.0, dated and posted on WHO's website









 Upload to the (WHO) Global Observatory for Health R&D and Product Profile Directory.



http://origin.who.int/research-observatory/resources/databases/processes/en/index4.html

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Implications for WHO NTD Diagnostic Development

- DTAG subgroups will support WHO to
 - clarify the unmet public health needs
 - determine whether existing TPPs, available or pipeline products address the needs
 - define the scope of new TPPs and ensure that they are aligned with the public health need
 - serve as the scientific group to develop new TPPs



So – where are we now with respect to NTD TPPs?

- More than 20 TPPs have been developed
 - BU, GW, HAT, Leishmaniasis, Leprosy, LF, Mycetoma, Oncho, Scabies, SCH, STH, and yaws (and others under development)
 - See WHO website here: <u>https://cdn.who.int/media/docs/default-source/ntds/neglected-tropical-diseases-non-disease-specific/status-target-product-profiles-for-ntds.pdf?sfvrsn=74b6c3d_7
 </u>
- Donors have invested in new diagnostic tests based on the availability of TPPs



Published TPPs

	Disease	Subject	Web link to publication
1.	Buruli ulcer	TPP for a rapid test for diagnosis of Buruli ulcer at primary health-care level	https://iris.who.int/handle/10665/353982
2.	Dracunculiasis (Guinea-worm disease)	TPP to detect prepatent Dracunculus medinensis infections in animals	https://iris.who.int/handle/10665/376398
3.	Dracunculiasis (Guinea-worm disease)	TPP to detect Dracunculus medinensis presence in environmental samples	https://iris.who.int/handle/10665/376399
4.	Human African trypanosomiasis	TPP for a gambiense HAT test to identify individuals to receive widened treatment	https://iris.who.int/handle/10665/352579
5.	Human African trypanosomiasis	TPP for a test for rhodesiense HAT diagnosis usable in peripheral health facilities	https://iris.who.int/handle/10665/344165
6.	Human African trypanosomiasis	TPP for an individual test to assess gambiense HAT infection in low prevalence settings	https://iris.who.int/handle/10665/365383
7.	Human African trypanosomiasis	TPP for a high-throughput test for verification of elimination of gambiense HAT	https://iris.who.int/handle/10665/365384
8.	Leishmaniases (dermal)	TPP for a point-of-care test for dermal leishmaniases	https://iris.who.int/handle/10665/353980
9.	Leishmaniasis (visceral)	TPP for a diagnostic test to confirm cure of VL	https://iris.who.int/handle/10665/378031
10.	Leishmaniasis (visceral)	TPP for a diagnostic test to confirm VL	https://iris.who.int/handle/10665/378703
11.	Leprosy	TPP for a diagnostic test to confirm leprosy in individuals with clinical signs and symptoms	https://iris.who.int/handle/10665/371647
12.	Leprosy	TPP for a diagnostic test to detect Mycobacteriun leprae infection among asymptomatic contacts of leprosy patients	https://iris.who.int/handle/10665/371646





Published TPPs (cont.)

13.	Lymphatic filariasis	TPP for LF to support decisions for stopping triple-therapy NDA	https://iris.who.int/handle/10665/340080
14.	Lymphatic filariasis	TPP for surveillance of LF	https://iris.who.int/handle/10665/340081
15.	Mycetoma	TPP for a rapid test for diagnosis of mycetoma at primary health-care level	https://iris.who.int/handle/10665/353979
16.	Onchocerciasis	TPP for mapping onchocerciasis	https://iris.who.int/handle/10665/341719
17.	Onchocerciasis	TPP for stopping MDA	https://iris.who.int/handle/10665/341719
18.	Scabies	TPP for starting MDA	https://iris.who.int/handle/10665/353981
19.	Scabies	TPP for stopping MDA	https://iris.who.int/handle/10665/353981
20.	Schistosomiasis	TPP for monitoring and evaluation	https://iris.who.int/handle/10665/344813
21.	Schistosomiasis	TPP for transmission interruption and subsequent surveillance	https://iris.who.int/handle/10665/344813
22.	Snakebite envenoming	TPPs for animal plasma-derived antivenoms: antivenoms for treatment of snakebite in sub- Saharan Africa	https://iris.who.int/handle/10665/369786
23.	Snakebite envenoming	TPPs for animal plasma-derived antivenoms: antivenoms for treatment of snakebite in south Asia	https://iris.who.int/handle/10665/378302
24.	Soil-transmitted helminthiases	TPP for monitoring and evaluation of soil- transmitted helminth control programmes	https://iris.who.int/handle/10665/342539
25.	Yaws	TPP for identifying a single case of yaws TPP for detecting azithromycin resistance	https://iris.who.int/handle/10665/353978
26.	Yaws		https://iris.who.int/handle/10665/353978





Key Considerations

- Effective interventions are being delivered for many NTDs and prevalence is declining
- The need for highly specific tests increases as prevalence declines
- Multiple tests may be required for a given disease to address different use cases
- Independent test evaluation helps ensure test performance and the acceptability of tests by the end user
- WHO is opening new pathways to recommend new tests for use by country programs

