SIXTY-SIXTH WORLD HEALTH ASSEMBLY Provisional agenda item 16.2

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Neglected tropical diseases

Prevention, control, elimination and eradication

Report by the Secretariat

- 1. The Executive Board at its 132nd session noted an earlier version of this report, and adopted resolution EB132.R7. The version of the report below has been updated (paragraphs 12 and 13) and the annexed list of relevant resolutions expanded.
- 2. Despite their medical diversity, neglected tropical diseases form a group characterized by their association with poverty and their proliferation in tropical environments where multiple infections in a single individual are common. The 17 neglected tropical diseases covered by WHO are caused by a variety of pathogens: viruses (dengue and rabies), bacteria (Buruli ulcer, leprosy, trachoma and yaws), protozoa (Chagas disease, human African trypanosomiasis and leishmaniasis) and helminths (cysticercosis, dracunculiasis, echinococcosis, foodborne trematodiases, lymphatic filariasis, onchocerciasis, schistosomiasis and soil-transmitted helminthiases).
- 3. The goals of national programmes for the control of neglected tropical diseases are: to reduce human suffering (morbidity, mortality and stigmatization) and, through improvement in socioeconomic status, to reduce the conditions that exacerbate poverty; and to highlight the public health importance of these diseases in affected communities. The targets should be at a level at which the cost and resources for continued control measures are affordable and sustainable. Wherever possible, permanent interruption of transmission of neglected tropical diseases will be the ultimate goal.
- 4. In 2011, WHO and its Strategic and Technical Advisory Group for Neglected Tropical Diseases drew up the roadmap to accelerate work on neglected tropical diseases,³ with targets for the eradication of dracunculiasis (2015) and yaws (2020). Furthermore, six targets are set for the elimination of five neglected tropical diseases by 2015 and a further 10 elimination targets are set for 2020 either globally or in selected geographical areas for nine neglected tropical diseases. The roadmap also sets out targets for intensified control of dengue, Buruli ulcer, cutaneous leishmaniasis, selected zoonoses and helminthiases.

¹ See document EB132/19 and the summary record of the eleventh meeting, section 1, of the Executive Board at its 132nd session.

 $^{^2}$ See document EB132/2013/REC/1 for the resolution, and for the financial and administrative implications for the Secretariat of the adoption of the resolution.

³ Accelerating work to overcome the global impact of neglected tropical diseases: a roadmap for implementation. Geneva, World Health Organization, 2012 (document WHO/HTM/NTD/2012.1).

- 5. Five public-health interventions are recommended in the roadmap to accelerate the work on prevention, control, elimination, and eradication of neglected tropical diseases: preventive chemotherapy; intensified case-management; effective vector control; the provision of safe drinking-water, basic sanitation and hygiene; and involvement of veterinary public health. Although one approach may predominate for the control of a specific disease or group of diseases, evidence suggests that more effective control results when several approaches are combined and delivered locally.
- 6. In January 2012, following the publication of WHO's roadmap, a community of partners endorsed the London Declaration on Neglected Tropical Diseases. Participants at the meeting heads of global health organizations, donors, politicians and pharmaceutical industry leaders committed themselves inter alia, to do their part: (a) to sustain, expand and extend programmes that ensure the necessary supply of medicines and other interventions; (b) to advance research and development through partnerships and provision of funding to find next-generation treatments and interventions; (c) to enhance collaboration and coordination at national and international levels; (d) to enable adequate funding with countries endemic for the neglected tropical diseases to implement programmes necessary to achieve these goals, supported by strong and committed health systems at the national level; and (e) to provide technical support, tools and resources to countries endemic for these diseases to evaluate and monitor those programmes.
- 7. As both the WHO's roadmap and the London declaration make clear, prevention and control of neglected tropical diseases form an integral part of universal health coverage, which prioritizes the public health needs of poor people and delivers interventions through appropriate technology at sustainable cost. Universal coverage for prevention and control interventions against neglected tropical diseases depends critically on the existence of stronger, more efficient health systems, access to essential medicines of assured quality at affordable prices, and a well-trained and motivated work force, as well as the involvement of other sectors including finance, education, agriculture and livestock, water supply, environment and management.
- 8. During the Sixty-fifth World Health Assembly a technical briefing on neglected tropical diseases, chaired by the Assembly's President, highlighted the relevance and priority that communities endemic for those diseases give to their prevention, control, elimination and eradication. Member States participating in this briefing called for a draft resolution on neglected tropical diseases to be submitted to the Sixty-sixth World Health Assembly for consideration.

BACKGROUND

9. In general, approaches to overcoming what are now termed neglected tropical diseases remained disease specific until 2005, when WHO and its partners analysed the evidence and best practices and recommended at a strategic and technical meeting (Berlin, 18–20 April 2005) that a common, integrated approach be used for their prevention and control.³ WHO has accumulated evidence to show

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¹ In the context of neglected tropical diseases, preventive chemotherapy is defined as a public health intervention that allows the regular and coordinated administration of quality-assured, safe, single-dose medicines on a large scale for the prevention and control of the following diseases: foodborne trematodiases, lymphatic filariasis, onchocerciasis, schistosomiasis, soil-transmitted helminthiases and trachoma.

² London Declaration on Neglected Tropical Diseases. London, 30 January 2012 (available at: http://search.who.int/search?q=london+declaration&ie=utf8&site=default_collection&client=_en&proxystylesheet=_en&output=xml_no_dtd&oe=utf8; accessed 22 October 2012).

³ Document WHO/CDS/NTD/2006.1.

that the burden caused by many of these diseases, which affect more than 1000 million people worldwide, can be effectively controlled and, in some cases, the diseases can be eliminated or eradicated.

- 10. The meeting of WHO's global partners on neglected tropical diseases two years later¹ marked a turning point, resulting in increased commitment and engagement from Member States in which these diseases were endemic and the pharmaceutical industry, and in expanded collaboration among partners. As a consequence, countries endemic for neglected tropical diseases and their partners have been enabled to increase steadily access to and coverage with treatment programmes mostly using essential medicines donated on a large scale.
- 11. WHO published its first report on neglected tropical diseases in 2010,² highlighting their adverse impacts on health and the successes of Member States through collaboration with the private sector and other partners. These initial successes have led to increased donations of essential medicines by industry, enabling countries to scale up interventions.
- 12. In January 2013, WHO issued its second report on neglected tropical diseases.³ This report, on sustaining the drive to overcome these diseases, sets milestones for reaching the goals and targets outlined in the roadmap; defines the concepts of eradication and elimination for some of the diseases and expands the concept of universal health coverage as it applies to neglected tropical diseases; and lists the resolutions concerning neglected tropical diseases adopted by the World Health Assembly from 1948 to 2012 (see Annex). It also analyses the challenges that remain at country level, identifies the elements needed to strengthen human resources, and underlines the need for cooperation with other sectors such as education, agriculture and veterinary health.
- 13. Since 2007, countries endemic for these diseases have, with assistance from their partners, increased access to and coverage with interventions. Results include, for example, the following: in 2011, 727 million people worldwide received preventive anthelminthic chemotherapy; since 2000, the implementation of dog vaccination programmes has successfully eliminated human rabies of canine origin in several countries; and the number of reported cases of human African trypanosomiasis has decreased continuously since 2000 to less than 7000 in 2011. Major progress is being made towards eradication of dracunculiasis.

CHALLENGES IN SUSTAINING THE DRIVE TO OVERCOME THE GLOBAL IMPACT OF NEGLECTED TROPICAL DISEASES

- 14. Despite achievements and successes, challenges remain as in all public health endeavours. Notwithstanding global economic constraints, provision of support from Member States and partners will need to be sustained in order to ensure the development of new products for prevention, diagnosis and control, continued expansion of services, and strengthening of the health systems needed to overcome neglected tropical diseases.
- 15. Expertise in prevention and control of individual neglected tropical diseases and management of their vectors is lacking or weak in some countries and will have to be created or strengthened if the targets set by the World Health Assembly in many resolutions over the years (Annex) are to be met.

² Document WHO/HTM/NTD/2010.1.

¹ Document WHO/CDS/NTD/2007.4.

³ Document WHO/HTM/NTD/2013.1.

National neglected tropical disease programmes must be strengthened, maintained and mandated with clearly defined responsibilities in order to coordinate essential functions such as situation analysis, strategic planning, budgeting, prevention, diagnosis, treatment, surveillance, capacity development, and supervision of operations at all levels of the national system.

- 16. The expansion of preventive chemotherapy interventions to achieve adequate coverage implies the regular treatment of hundreds of millions of people. However, the availability of adequate quantities of essential medicines is sometimes hindered or delayed by issues of transportation, customs clearance, storage and other important steps in the supply chain.
- 17. More information is required to estimate the actual cost of expanding implementation activities, with better costing of interventions for each disease in relation to the targets in WHO's roadmap. This information will help governments, donors and partners to decide how best their contributions can finance expansion of interventions.
- 18. The following actions are essential for maintaining the progress already made and further reducing the global impact of neglected tropical diseases:
 - (a) to prioritize prevention, control, elimination and eradication of neglected tropical diseases in national health, political and development agendas
 - (b) to sustain the development and updating of evidence-based norms, standards, policies, guidelines and strategies for prevention, control and elimination of neglected tropical diseases
 - (c) to collect additional information on the costing of interventions and of the socioeconomic impact of neglected tropical diseases
 - (d) to collaborate with partners in areas such as resource mobilization and programmatic management in order to implement interventions to prevent and control neglected tropical diseases
 - (e) to ensure predictable, long-term financing for sustained interventions against neglected tropical diseases
 - (f) to build national capacity to implement preventive chemotherapy interventions, expand those interventions nationwide and maintain a national coverage of at least 75% of the populations in need, for as long as necessary to reach the targets in the WHO's roadmap for work to overcome the global impact of lymphatic filariasis, onchocerciasis, schistosomiasis, soil-transmitted helminthiases, and blinding trachoma
 - (g) to review programmatic progress in the preparation of strategic and operational plans for maintaining universal access (through strengthened health systems) to and coverage with interventions against neglected tropical diseases
 - (h) to intensify national control activities, harmonize strategies and control methods, and ensure access to the safest and most efficient tools in order to maintain technical capacities at national level, including the capabilities for forecasting needs, managing supply chains, monitoring and evaluation of the impact of national programmes, and surveillance

- (i) to encourage and support initiatives for the discovery and development of new diagnostics, medicines and pesticides, and to foster innovative research on interventions against neglected tropical diseases
- (j) to improve coordination with related sectors such as veterinary public health and safe drinking-water and sanitation, which play a critical role in prevention, control, elimination and eradication of neglected tropical diseases.

ACTION BY THE HEALTH ASSEMBLY

19. The Health Assembly is invited to adopt the draft resolution recommended by the Executive Board in resolution EB132.R7.

ANNEX

RESOLUTIONS OF THE WORLD HEALTH ASSEMBLY CONCERNING NEGLECTED TROPICAL DISEASES, 1948–2012

- 1. Since 1948, WHO has focused on major global health problems, and in 1952 the Fifth World Health Assembly approved a coordinated programme of work as being of value in the economic development of underdeveloped countries. The programme focused, inter alia, on expanded technical assistance to governments in improving or setting up health services for conditions such as treponematoses and other communicable diseases including rabies, leprosy, trachoma, schistosomiasis and filariasis. ²
- 2. Over the years the Secretariat has produced evidence-based data to inform prevention and control strategies for diseases in Member States that are important causes of morbidity, mortality and stigmatization. Many of these are exemplified in the following list of resolutions.

| Subject area | Resolution | Title | Year |
|---|------------|---|------|
| Vector-borne disease | WHA1.12 | Vector biology and control | 1948 |
| Vector-borne disease | WHA2.18 | Expert Committee on Insecticides: report on the first session | 1949 |
| Endemic treponematoses | WHA2.36 | Bejel and other treponematoses | 1949 |
| Leprosy | WHA2.43 | Leprosy | 1949 |
| Rabies | WHA3.20 | Rabies | 1950 |
| Trachoma | WHA3.22 | Trachoma | 1950 |
| Hydatidosis | WHA3.23 | Hydatidosis | 1950 |
| Schistosomiasis | WHA3.26 | Bilharziasis | 1950 |
| Vector-borne disease | WHA3.43 | Labelling and distribution of insecticides | 1950 |
| Trachoma | WHA4.29 | Trachoma | 1951 |
| Vector-borne disease | WHA4.30 | Supply of insecticides | 1951 |
| Leprosy | WHA5.28 | Leprosy | 1952 |
| Vector-borne disease | WHA5.29 | Supply and requirements of insecticides: world position | 1952 |
| Leprosy | WHA6.19 | Expert Committee on Leprosy: first report | 1953 |
| Leprosy | WHA9.45 | Inter-regional Conference on Leprosy Control, 1958 | 1956 |
| Vector-borne disease | WHA13.54 | Vector-borne diseases and malaria eradication | 1960 |
| Avoidable blindness (onchocerciasis and trachoma) | WHA22.29 | Prevention of blindness | 1969 |
| Vector-borne disease | WHA22.40 | Research on methods of vector control | 1969 |

¹ Resolution WHA5.61 and Technical Assistance Programme: third and fourth periods. In: *Official Records of the World Health Assembly*. Geneva, 5–22 May 1952. Geneva, World Health Organization, 1952.

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² Work of the Fifth World Health Assembly [programme and budget: communicable-disease services]. *Chronicle of the World Health Organization*, 1952, **6:**174.

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| Subject area | Resolution | Title | Year |
|---|------------|---|------|
| Vector-borne disease | WHA23.33 | Research on alternative methods of vector control | 1970 |
| Avoidable blindness (onchocerciasis and trachoma) | WHA25.55 | Prevention of blindness | 1972 |
| Parasitic diseases | WHA27.52 | Intensification of research on tropical parasitic diseases | 1974 |
| Leprosy | WHA27.58 | Coordination and strengthening of leprosy control | 1974 |
| Schistosomiasis | WHA28.53 | Schistosomiasis | 1975 |
| Avoidable blindness (onchocerciasis and trachoma) | WHA28.54 | Prevention of blindness | 1975 |
| Leprosy | WHA28.56 | Leprosy control | 1975 |
| Tropical diseases | WHA28.71 | WHO's role in the development and coordination of research in tropical diseases | 1975 |
| Schistosomiasis | WHA29.58 | Schistosomiasis | 1976 |
| Leprosy | WHA29.70 | Leprosy control | 1976 |
| Leprosy | WHA30.36 | Leprosy control | 1977 |
| Research | WHA30.42 | Special Programme for Research and Training in Tropical Diseases | 1977 |
| Zoonoses | WHA31.48 | Prevention and control of zoonoses and foodborne diseases due to animal products | 1978 |
| Endemic treponematoses | WHA31.58 | Control of endemic treponematoses | 1978 |
| Leprosy | WHA32.39 | Leprosy | 1979 |
| Dracunculiasis | WHA34.25 | International Drinking Water Supply and Sanitation Decade | 1981 |
| Human African trypanosomiasis | WHA36.31 | African human trypanosomiasis | 1983 |
| Dracunculiasis | WHA39.21 | Elimination of dracunculiasis | 1986 |
| Leprosy | WHA40.35 | Towards the elimination of leprosy | 1987 |
| Dracunculiasis | WHA42.25 | International Drinking Water Supply and Sanitation Decade | 1989 |
| Dracunculiasis | WHA42.29 | Elimination of dracunculiasis | 1989 |
| Vector-borne disease | WHA42.31 | Control of disease vectors and pests | 1989 |
| Research | WHA43.18 | Tropical disease research | 1990 |
| Dracunculiasis | WHA44.5 | Eradication of dracunculiasis | 1991 |
| Leprosy | WHA44.9 | Leprosy | 1991 |
| Dengue and dengue haemorrhagic fever | WHA46.31 | Dengue prevention and control | 1993 |
| Onchocerciasis | WHA47.32 | Onchocerciasis control through ivermectin distribution | 1994 |
| Vector-borne disease | WHA50.13 | Promotion of chemical safety, with special attention to persistent organic pollutants | 1997 |
| Lymphatic filariasis | WHA50.29 | Elimination of lymphatic filariasis as a public health problem | 1997 |

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| Subject area | Resolution | Title | Year |
|--|------------|--|------|
| Dracunculiasis | WHA50.35 | Eradication of dracunculiasis | 1997 |
| Human African trypanosomiasis | WHA50.36 | African trypanosomiasis | 1997 |
| Trachoma | WHA51.11 | Global elimination of blinding trachoma | 1998 |
| Chagas disease | WHA51.14 | Elimination of transmission of Chagas disease | 1998 |
| Leprosy | WHA51.15 | Elimination of leprosy as a public health problem | 1998 |
| Schistosomiasis and soil- transmitted helminthiases | WHA54.19 | Schistosomiasis and soil-transmitted helminth infections | 2001 |
| Dengue and dengue haemorrhagic fever | WHA55.17 | Dengue fever and dengue haemorrhagic fever: prevention and control | 2002 |
| Human African trypanosomiasis | WHA56.7 | Pan African Tsetse and Trypanosomiasis Eradication Campaign | 2003 |
| Avoidable blindness (for both onchocerciasis and trachoma) | WHA56.26 | Elimination of avoidable blindness | 2003 |
| Buruli ulcer | WHA57.1 | Surveillance and control of <i>Mycobacterium ulcerans</i> disease (Buruli ulcer) | 2004 |
| Human African trypanosomiasis | WHA57.2 | Control of human African trypanosomiasis | 2004 |
| Dracunculiasis | WHA57.9 | Eradication of dracunculiasis | 2004 |
| Avoidable blindness (for both onchocerciasis and trachoma) | WHA59.25 | Prevention of avoidable blindness and visual impairment | 2006 |
| Leishmaniasis | WHA60.13 | Control of leishmaniasis | 2007 |
| Avoidable blindness (onchocerciasis and trachoma) | WHA62.1 | Prevention of avoidable blindness and visual impairment | 2009 |
| Chagas disease | WHA63.20 | Chagas disease: control and elimination | 2010 |
| Vector-borne disease | WHA63.26 | Improvement of health through sound management of obsolete pesticides and other obsolete chemicals | 2010 |
| Dracunculiasis | WHA64.16 | Eradication of dracunculiasis | 2011 |
| Schistosomiasis | WHA65.21 | Elimination of schistosomiasis | 2012 |

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