SEVENTY-SECOND WORLD HEALTH ASSEMBLY Provisional agenda item 11.7

A72/17 4 April 2019

Access to medicines and vaccines

Report by the Director-General

- 1. The Executive Board, at its 144th session in January 2019, noted an earlier version of this report. The draft road map has been revised and a new Appendix 2 has been added to indicate the linkage between the Thirteenth General Programme of Work, 2019-2023 and the activities, actions, deliverables and milestones set out in the road map. The milestones have been updated to reflect the global goods planning process, and information has been added on the Organization's mandate with regard to the actions required by the road map and on the distribution of road map activities across the programme budget. The revised draft also reflects issues raised by the Executive Board relating to providing health products for primary health care, monitoring access, optimizing the use of biosimilars, addressing the challenges faced by small island States, and supporting countries transitioning from donor funding.²
- 2. In May 2018, the Seventy-first World Health Assembly considered a report by the Director-General on addressing the global shortage of, and access to, medicines and vaccines.³ The report focused on a list of priority options for actions to be considered by Member States and presented a comprehensive report by the Director-General on access to essential medicines and vaccines.
- 3. Having considered the report, the Health Assembly adopted decision WHA71(8), in which it decided to request the Director-General to elaborate a road map report, in consultation with Member States, outlining the programming of WHO's work on access to medicines and vaccines for the period 2019–2023, including activities, actions and deliverables. The Health Assembly also requested the Director-General to submit the road map report to the Seventy-second World Health Assembly, through the Executive Board at its 144th session.
- 4. In July 2018, the Secretariat initiated a process to consult Member States and an online consultation with Member States on the zero draft road map was conducted in the period July–September 2018, during which 62 countries provided feedback. In addition, a consultation with Member States on the zero draft was conducted on 10 and 11 September 2018 in Geneva, preceded by an informal discussion with representatives of the United Nations and other international organizations and non-State actors in official relations with WHO. The draft report was updated based on the feedback obtained by these consultation processes, including broadening of the scope to include medicines, vaccines and health products.

¹ See document EB144/17 and summary record of the Executive Board at its 144th session, ninth and tenth meeting.

² See the summary records of the Executive Board at its 144th session, tenth meeting.

³ Document A71/12.

5. The revised draft road map for access to medicines, vaccines and other health products, 2019–2023, based on existing WHO mandates in key Health Assembly resolutions of the last 10 years related to access to safe, effective and quality medicines, vaccines and health products, and also reflecting the Thirteenth General Programme of Work, 2019–2023, is contained in the Annex.¹

ACTION BY THE HEALTH ASSEMBLY

6. The Health Assembly is invited to note the draft road map for access to medicines, vaccines and other health products, 2019–2023, as contained in the Annex.

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¹ In line with resolution WHA69.19 (2016) on the global strategy on human resources for health: workforce 2030, a health workforce impact assessment was carried out for the draft road map for access to medicines, vaccines and other health products, 2019–2023 (see https://www.who.int/hrh/documents/WHA72_HRHlinks_160119-EMP.pdf, accessed 21 March 2019).

ANNEX

DRAFT ROAD MAP FOR ACCESS TO MEDICINES, VACCINES AND OTHER HEALTH PRODUCTS, 2019–2023

Comprehensive support for access to medicines, vaccines and other health products

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I. Introduction and rationale

1. Equitable access to health products is a global priority, and the availability, accessibility, acceptability, and affordability of health products of assured quality need to be addressed in order to achieve the Sustainable Development Goals, in particular target 3.8. Every disease management strategy requires access to health products for prevention, diagnosis, treatment, palliative care and rehabilitation.

- 2. Access is a global concern, given the high prices of new pharmaceuticals and rapidly changing markets for health products that place increasing pressure on all health systems' ability to provide full and affordable access to quality health care. The high percentage of health spending on medicines (20–60% as demonstrated in a series of studies in selected low- and middle-income countries) impedes progress for the many countries that have committed to the attainment of universal health coverage. Furthermore, it is known that a large proportion of the population in low-income countries who spend for health do pay out-of-pocket for medicines. With the rise in noncommunicable diseases many of which are chronic conditions that require long-term treatment the financial burden on both governments and patients will become even greater.
- 3. Improving access to health products is a multidimensional challenge that requires comprehensive national policies and strategies. These should align public health needs with economic and social development objectives and promote collaboration with other sectors, partners and stakeholders; they also need to be aligned with legal and regulatory frameworks and cover the entire product life cycle, from research and development to quality assurance, supply chain management and use.
- 4. Primary health care services rely on access to health products, including medicines, vaccines, medical devices, diagnostics, protective equipment and assistive devices. These products must be of assured safety, efficacy, performance and quality, as well as being appropriate, available and affordable. Ensuring that appropriate health products are available and affordable for primary care depends on policy decisions and processes related to the selection, pricing, procurement, supply chain management, maintenance (in the case of medical devices), prescribing and dispensing (in the case of medicines) and use of health products.
- 5. WHO's comprehensive health systems approach to increasing access to health products is guided by a series of Health Assembly and Regional Committee resolutions. These resolutions, nearly 100 in number (see Annex, Appendix 1) formed the basis for the previous report by the Director-General on this topic.³ The present document responds to the Health Assembly's subsequent request for WHO to develop a road map describing its activities, actions and deliverables for improving access to medicines and vaccines, for the period 2019–2023.

¹ Achieve universal health coverage, including financial risk protection, access to quality essential health care services, and access to safe, effective, quality and affordable essential medicines and vaccines for all.

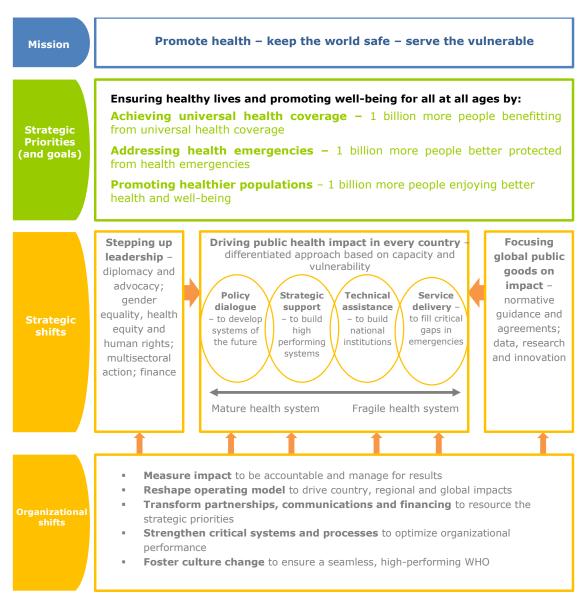
² Reich MR, Harris J, Ikegami N, Maeda A, Cashin C, Araujo EC, et al. Moving towards universal health coverage: lessons from 11 country studies. The Lancet. 2016; 387:811-16 (https://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736(15)60002-2.pdf).

³ Document A71/12.

II. Thirteenth General Programme of Work, 2019–2023

6. The Thirteenth General Programme of Work, 2019–2023¹ sets out three strategic priorities for ensuring healthy lives and well-being for all at all ages: achieving universal health coverage, addressing health emergencies and promoting healthier populations. These strategic priorities are supported by three strategic shifts: stepping up leadership; driving public health impact in every country; and focusing global public goods on impact (see Fig. 1).

Fig. 1. Overview of WHO's Thirteenth General Programme of Work, 2019–2023: strategic priorities and shifts²



¹ Document A71/4.

² Previously issued in document A71/4.

7. The planning framework for the Thirteenth General Programme of Work provides a structure for identifying priorities at the country level and for the planning and budgeting of the work of WHO. It will ensure that the programme budget reflects the needs of the countries and that work at all three levels of the Organization is geared towards delivering country impact. This road map for access to medicines, vaccines and other health products, 2019–2023, aligns with the following outputs that have been identified within this framework:

- provision of authoritative guidance and standards on the quality, safety and efficacy of health products, including through prequalification services, essential medicines and diagnostics lists;
- access to essential medicines, vaccines, diagnostics and devices for primary health care improved;
- country and regional regulatory capacity strengthened and supply of quality-assured and safe health products improved;
- research and development agenda defined and research coordinated in line with public health priorities;
- countries enabled to address antimicrobial resistance through strengthened surveillance systems, laboratory capacity, infection prevention and control, awareness-raising and evidence-based policies and practices.

III. How the road map was developed

- 8. The previous report (document A71/12) proposed priority actions based on the comparative advantage of WHO, whether the action provides value for money and if the actions lead to achievable and sustainable improvements. These prioritized actions form the basis for the activities, actions and deliverables outlined in the zero draft road map. It was developed based on input from all levels of the Organization, taking into consideration existing governing body documents, the Programme budget 2018–2019 and relevant departmental and Regional Office strategies.
- 9. The road map builds on the numerous regional and national initiatives and commitments undertaken to improve access to safe, effective and quality medicines, vaccines and health products, several of which, including the Delhi Declaration on improving access to essential medical products in the South-East Asia Region, have been cited in the report by the Director-General on addressing the global shortage of, and access to, medicines and vaccines.¹
- 10. This revised road map takes into consideration the feedback received through the drafting and consultative processes described in paragraph 4 above of the report by the Director-General. All written contributions from the survey and other written submissions are available on http://www.who.int/medicines/access_use/road-map-medicines-vaccines/en/.

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¹ Document A71/12.

IV. Structure of the road map

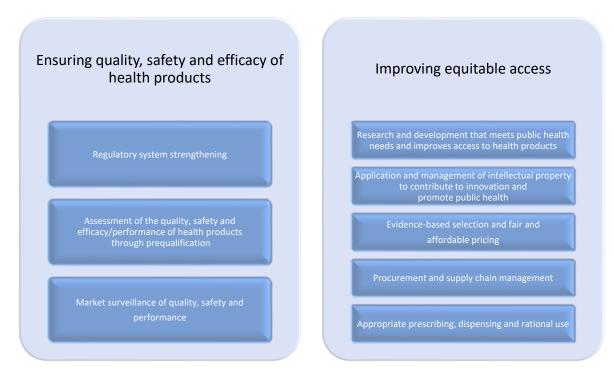
11. The road map outlines the principles of WHO's work on access to health products, including essential health system components. It is structured around two interlinked strategic areas that are necessary to support access to health products:

- ensuring the quality, safety and efficacy of health products;
- improving equitable access to health products.

Under each strategic area, the road map describes activities and puts forward the specific actions and deliverables for the period 2019–2023.

- 12. Fig. 2 shows the activities included under each strategic area; the activities are listed in sequential order of the product life cycle.
- 13. Appendix 2 indicates the linkage between the 13th General Programme of Work and the activities, actions, deliverables and short-, medium- and long-term milestones.

Fig. 2. Activities within the two strategic areas



V. A health systems approach to improving access to health products

14. The six components of a well-functioning health system outlined in the WHO document "Key components of a well-functioning health system" include: Leadership and governance, health information systems, health financing, human resources, essential medical products and technologies,

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¹ http://www.who.int/healthsystems/publications/hss_key/en/ (accessed 11 November 2018).

and service delivery. Ensuring access to health products depends on all of these, in particular governance, health information, financing and human resources. There is no one-size-fits-all approach to ensuring a functional health system and tailored strategies are required to adapt them to the local context.

15. Four key health system components of improving access to health products are detailed below; specific actions to address them are included in relevant activities under the two strategic areas of the road map provided in Sections VI and VII.

Financing of health products

- 16. Inadequate financing of health products, high prices of new health products and ineffective policy interventions and processes to manage expenditure, such as the ineffective use of policies for generic and biosimilar medicines, contribute to the challenges facing the health system in achieving universal health care. Evidence indicates that up to one fifth of health spending could be channelled towards better use by avoiding waste that occurs (a) when health products are priced higher than is necessary, (b) when less expensive but equally effective alternatives are not used and (c) when purchased products are not used at all.
- 17. Countries that are transitioning away from receipt of donor funding, such as from the GAVI Alliance and the Global Fund to Fight AIDS, Tuberculosis and Malaria, need particular support to strengthen their health systems, allocate resources more effectively and sustain financing.
- 18. Activities in this road map support countries' ability to allocate resources more effectively through evidence-based decisions to ensure that cost-effective health products are included in a country's essential medicines list, essential diagnostics lists or reimbursement lists and through more efficient procurement and supply processes and rational use of medicines. Support for fair pricing and policy implementation to reduce out-of-pocket expenditures will also be provided.

Governance of health products

- 19. The need for good governance is increasingly recognized as a major hurdle on the road to achieving universal health coverage. Weak governance complicates access to health products by fuelling inefficiencies, distorting competition and leaving the system vulnerable to undue influence, corruption, waste, fraud and abuse. Given the large role of health products in the provision of health care and the proportion of health spending they represent (as high as 60% for medicines in some countries),² improving governance will help prevent the waste of public resources needed to sustain health systems and provide quality and affordable care.
- 20. There is a pressing need to improve access to timely, robust and relevant information concerning health products. Unbiased information that is free of any conflict of interest is vital for the sound selection, incorporation, prescription and use of health products. Transparency of this information is

¹ WHO's working definition, based on input from the fair pricing initiative is that a fair price is one that is affordable for health systems and patients and at the same time provides sufficient market incentive for industry to invest in innovation and the production of medicines.

² WHO guideline on country pharmaceutical pricing policies. Geneva: World Health Organization; 2015 (http://apps.who.int/iris/bitstream/handle/10665/153920/9789241549035_eng.pdf?sequence=1, accessed 11 November 2018).

central to accountability, strengthens confidence in public institutions and improves the efficiency of the system. Activities in the road map address the transparency of clinical trials enabling support for clinical trial registries and address price transparency through the Market Information for Access to Vaccines (MI4A platform), ¹ for example.

21. The relationship between government and the private sector, such as pharmaceutical companies and medical device companies, requires particular attention. A question of growing importance is how to support governments to work effectively with the private sector and develop public policy while avoiding the risks of undue influence and maximizing benefits. WHO supports improving practices in both the public and private sectors to ensure that national policies reflect the central role of access to health products in achieving universal health coverage and in contributing to improved accountability.

A health workforce that ensures access to health products²

- 22. According to the High-Level Commission on Health Employment and Economic Growth, the global economy is projected to create about 40 million new health-sector jobs by 2030.³ Most of these jobs, however, will be in middle- and high-income countries, leaving a projected shortage of 18 million health workers in low- and lower-middle-income countries. Part of the health workforce shortage concerns pharmacists, one of the specialized workforces required to ensure access to medicines and vaccines. There is also a shortage of biomedical engineers,⁴ who play a crucial role in supporting the best and most appropriate use of medical technologies. Both pharmacists and biomedical engineers are essential to the development, production, procurement, distribution and appropriate use and maintenance of health products, as well as the supportive function of regulation.
- 23. The WHO Global Strategy on Human Resources for Health: Workforce 2030 addresses health workforce challenges. Many of the interventions needed to improve the workforce are cross-cutting, such as mainstreaming relevant competencies in the pre-service education curricula of health personnel, scaling up the training of pharmacists, pharmacy assistants and biomedical engineers, and ensuring dedicated training for personnel in administrative and management positions within the supply chain. Some of the actions needed to strengthen the health workforce responsible for health products may be similar to or implemented as part of broader health workforce policies, including improving public sector pay and incentives, establishing mechanisms for access to education and training in rural areas and reforming education strategies to reflect current and emerging health system needs.
- 24. Activities provided in the road map include support to ensure that the workforce is fit-for-purpose in key areas such as regulatory capacity, where specific competencies are required to ensure the quality, safety and efficacy of health products. Another key area is procurement and supply chain management,

MI4A: Market Information for Access to Vaccines (http://www.who.int/immunization/programmes_systems/procurement/v3p/platform/en/, accessed 11 November 2018).

² In line with resolution WHA69.19 (2016) on the global strategy on human resources for health: workforce 2030, a health workforce impact assessment was carried out for the draft road map for access to medicines, vaccines and other health products, 2019–2023 (see https://www.who.int/hrh/documents/WHA72_HRHlinks_160119-EMP.pdf, accessed 21 March 2019).

³ Working for health and growth: Investing in the health workforce. Report of the High-Level Commission on Health Employment and Economic Growth. Geneva: World Health Organization; 2016 (http://www.who.int/hrh/comheeg/reports/en/, accessed 11 November 2018).

⁴ Specialists within the category of biomedical engineering include clinical engineers, biomedical engineering technicians, rehabilitation engineers, biomechanical engineers and bioinstrumentation engineers.

for which particular skills are required to forecast needs, procurement processes, warehousing and distribution, stock management and maintenance (of medical devices), for example.

Information on health products for decision-making

- 25. Information is essential for decision-making, monitoring policy implementation and establishing accountability. To make accurate and useful decisions, timely and accurate data and information are needed in such categories as national expenditures on health products; the procurement of health products, supply chain and distribution; pharmaco-vigilance and post-marketing surveillance; health insurance coverage; prescription prices of health products; and the availability of medicines, vaccines and other health products in health facilities. Monitoring access to health products is a complex endeavour that requires gathering information from multiple sources and ensuring the interoperability of various data collection systems. Within the framework of the Health Data Collaborative, WHO is supporting countries to improve their capacity to collect, organize, analyse and use quality data for policy-making, to create standards of reference for data compatibility and to advance the harmonization and modernization of data collection tools.
- 26. WHO is working to develop agreed tracer indicators to monitor the enablers to more available and affordable medicines. To advance this, WHO convened an expert meeting in February 2019 to review existing frameworks for monitoring the pharmaceutical system and to identify indicators that reflect the performance of each of the system's components. These indicators will help countries to identify potential barriers to access and corrective measures, and will contribute to the measurement of the Sustainable Development Goal indicator on access to medicines. Activities provided in the road map include support for platforms in collecting a wide variety of data such as the Global Observatory on Health Research and Development, the Global Surveillance and Monitoring System for substandard and falsified medical products, the shortages notification system and the global programme on surveillance of antimicrobial consumption.

VI. Strategic area: Ensuring the quality, safety and efficacy of health products

- 27. National regulatory authorities in countries are responsible for the quality, safety and efficacy of health products. A weak regulatory system can have an impact on patient outcomes and has the potential to impair initiatives for improving access, for example by taking too long to approve products for use in a country. Unfortunately, the capacity of many low- and middle-income countries to assess and approve health products remains limited, with as few as 30% of national regulatory authorities globally having the capacity to perform all core regulatory functions for medicines. This lack of regulatory capacity in many countries hampers efforts to ensure the quality, efficacy and safety of health products.
- 28. Key challenges include inadequate resources, overburdened staff and incoherent policy frameworks. Differences between regulatory systems cause delays for researchers and manufacturers, who must navigate multiple regulatory systems to register the same health product in different countries. The introduction of new therapeutic classes, such as biotherapeutics and similar biotherapeutic products, will require new capacities and updating of guidelines.
- 29. A specific challenge has been highlighted by the recent public health emergencies requiring an urgent need for health products and decision-making in a context that is different from "business as usual". Many countries do not have the regulatory pathways in place to enable rapid access to novel

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¹ WHO Essential medicines and health products: Annual report 2017: Towards access 2030. Geneva: World Health Organization; 2018. Available at: http://apps.who.int/iris/handle/10665/272972.

health products. Another specific challenge is related to the growing interest in local production of health products as a strategy to improve access, strengthen national health security and enhance industrial and economic development. In most cases, low- and middle-income countries seeking to embark on local production have limited regulatory capacity to ensure the quality of products manufactured.

- 30. The underreporting of adverse drug reactions and adverse events following immunization highlights the need for improved approaches to post-marketing surveillance. In addition, the rise in substandard and falsified products in all markets is hampering efforts to ensure the quality, safety and efficacy of health products. A review showed that the observed failure rate of tested samples of substandard and falsified medicines in low- and middle-income countries is approximately 1 out of 10. Substandard and falsified medical products endanger health, promote antimicrobial resistance, undermine confidence in health professionals and health systems, create distrust about the effectiveness of vaccines and medicines, waste the limited budgets of families and health systems and provide income to criminal networks.
- 31. The activities in this strategic area support countries to deliver regulation that protects the public while enabling timely access to, and innovation of, quality products. Activities focus on regulatory system strengthening, assessment of the quality, safety and efficacy of health products through prequalification, and market surveillance of quality, safety and efficacy.
- 32. **Regulatory system strengthening.** WHO develops international norms and standards so that countries worldwide can consistently regulate health products. Through its expert committees, WHO provides detailed recommendations and guidance on the manufacturing, licensing and control of health products, including similar biotherapeutic products. It supports countries, including those with local manufacturing or those seeking to develop local manufacturing, to strengthen regulation and regulatory capacity. Its action supports expanding reliance on national regulatory authorities that meet international performance benchmarks (WHO listed authority) as assessed via the Global Benchmarking Tool for assessment of national regulatory systems. WHO facilitates work-sharing and convergence to ensure greater efficiencies and more rapid registration of health products. The further development of reliance networks will contribute to increased efficiency. Specific actions proposed in this activity include support for preparing regulatory procedures for emergency and crisis situations.
- 33. Assessment of the quality, safety and efficacy/performance of health products through prequalification. Prequalification aims to ensure that diagnostics, medicines, vaccines and immunization-related equipment, diagnostics and medical devices meet global standards of quality, safety and efficacy. Products that have been assessed and prequalified by WHO are eligible for international procurement and provide the extra assurance of quality, safety and efficacy. Drawing on the expertise of some of the best national regulatory authorities, prequalification provides a list of products that comply with unified international standards. In parallel, WHO supports countries in building national regulatory capacity through networking, training and information-sharing.
- 34. Market surveillance of quality, safety and efficacy/performance. This activity area supports countries to strengthen post-market surveillance and monitor substandard and falsified health products. It provides support for collecting safety data to detect, assess and prevent adverse drug effects. One strategic approach relies on the introduction of active surveillance of a limited number of priority health products (for example in HIV, tuberculosis and malaria treatment programmes or new vaccines). This leads to robust safety data for the specific products in the short-term and a sustainable pharmacovigilance infrastructure in the long-term. The WHO global surveillance and monitoring system for substandard and falsified medical products collects data in support of the prevention, detection and response to substandard and falsified health products.

Activity: Regulatory system strengthening

Action – Development and implementation of WHO technical guidelines, norms and standards for quality assurance and safety of health products¹

Deliverables

Guidelines, standards and biological reference materials to support decreased regulatory burden and support production and quality control of safe and effective health products.

Support for increased uptake and utilization of guidance and standards by Member States.

Action – Support improvement of regulatory systems, promoting reliance and collaboration²

Deliverables

Smart regulation in an increasing number of countries by means of collaborative approaches to registration including reliance and regulatory networks.

Support for implementation of WHO quality standards³ to decrease the regulatory burden.

Support for regulatory capacity strengthening towards WHO listed authority status, especially in countries manufacturing products for lower-middle-income countries or for local production to ensure quality of products.

Support for the use of the Global Benchmarking Tool for the formulation of country-specific institutional development plans and related provision of technical advice, training and measures.

$Action-Strengthen\ preparedness\ for\ entry\ of\ medicines,\ vaccines\ and\ other\ health\ products\ into\ countries\ experiencing\ a\ public\ health\ emergency\ or\ crisis^4$

Deliverables

Support for strengthening regulatory procedures for risk-based evaluations during public health emergencies through the revision of regulatory procedures and standards for risk-based evaluations during public health emergencies and the strengthening of processes and services.

Support for the adaptation of regulatory requirements for public health emergencies and the use of networks for expedited evaluations during such emergencies.

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¹ Corresponding mandate: WHA67.20.

² Corresponding mandates: WHA62.15, WHA67.20.

³ www.who.int/medicines/regulation/tsn/en/.

⁴ Corresponding mandate: WHA64.19.

Activity: Assessment of the quality, safety and efficacy/performance of health products through prequalification

Action – Maintain and expand the prequalification service¹

Deliverables

An efficient and effective prequalification programme maintained and optimized, in particular the prequalification of in vitro diagnostics and vector control products.

Scope of prequalification expanded to include potential conditions, such as noncommunicable diseases, based on an assessment of specific needs from the essential medicines list and the essential diagnostics list.

New routes to prequalification listing and new risk-based approaches.

Post-prequalification product quality assured.

Activity: Market surveillance of quality, safety and efficacy/performance

Action – Support strengthening national capacity to ensure the quality, safety and efficacy of health products²

Deliverables

Support for development of national capacity to ensure quality of health products in the supply chain.

Support for development of national capacity for surveillance of safety of health products on national markets.

Improved prevention, detection and response to substandard and falsified health products.

VII. Strategic area: Improving equitable access to health products

35. Many people worldwide do not have adequate and regular access to health products. Many medical devices in resource-poor settings are broken, unused or unfit for purpose. Access depends on having appropriate products available at affordable prices. This is a particular challenge in small island States and for small markets, such as children's medicines. The introduction of new medicines and other health products and the rise of noncommunicable diseases are putting increasing pressure on health care systems around the world and on individuals who pay out-of-pocket in the case of lack of government financing. Lack of access can affect patient outcomes if patients go undiagnosed or untreated or receive suboptimal treatment and can contribute to the rise in antimicrobial resistance. Challenges for improving access occur throughout the system, ranging from inadequate investment in research and development, lack of effective policies, weak procurement and supply chain management, and inappropriate prescribing and irrational use of health products.

36. Research and development investments in neglected diseases have shown an annual decline of 2–3% from 2012 (US\$ 3.3 billion). Neglected diseases and other major global health problems cannot

¹ Corresponding mandates: WHA67.20, WHA70.14.

² Corresponding mandates: WHA61.21,WHA65.19, WHA67.20.

³ R&D funding flows for neglected diseases (G-FINDER), by disease, year and funding category. World Health Organization, Global Observatory on Health Research and Development, 2018 (http://www.who.int/research-observatory/monitoring/inputs/neglected_diseases/en/, accessed 11 November 2018).

be addressed with the health products that are currently available in markets, including for emerging infectious disease pathogens, and new antibiotic therapies. Some of the key challenges facing research and development include setting priorities for research and development needs and incentivizing research and development for health products that have a potentially limited return on investment.

- 37. Poor selection of health products, inadequate financing and ineffective policy interventions and processes to manage expenditure, including out-of-pocket expenditure, contribute to a lack of access and unaffordable prices. There is an increasing need to ensure the sustainable availability of health products through careful management of affordable pricing for health systems and fair pricing for producers.
- 38. Inefficient procurement and supply chain management is another major challenge. The special skills required for the procurement of quality assured products are lacking in many countries. The supply chain requires a strong infrastructure and accurate data management systems. This can be particularly complex for vaccines and other temperature- or time-sensitive health products that require careful handling and efficient cold chain systems. Preventing, detecting and responding to shortages of health products is complex as well. In the case of infectious diseases, such shortages or stock-outs contribute to growing antimicrobial resistance and have an impact on health outcomes. Inefficient supply chain management can lead to high levels of wastage, with significant consequences in terms of access. Waste management is also an emerging public health problem, particularly for products such as antibiotics.
- 39. Local production of health products has been proposed as a strategy to improve access, strengthen national health security and enhance industrial and economic development. There are a number of barriers to developing local production, however, including policy incoherence, unreliable financing, lack of affordable, quality-assured materials and unavailable skilled workforce.
- 40. Particular challenges for medical devices include a lack of biomedical engineering capacity to advise on their suitability for use in resource-poor settings such as those with high temperature, fluctuating electricity or lack of clean water. Installation, maintenance services and user training are also often lacking, leading to unsafe handling practices with potentially harmful consequences, such as misdiagnosis due to improper use or calibration of equipment.
- 41. Estimates have shown that in low- and lower-middle income countries, less than 40% of primary-care patients in the public sector and less than 30% of primary-care patients in the private sector are treated in accordance with standard treatment guidelines. Factors that contribute to inappropriate prescribing, dispensing and use include an inadequately trained workforce, incorrect diagnoses, the prohibitive costs or simple unavailability of medicines, and activities related to product marketing and promotion. Policy approaches and interventions have been identified to improve the use of health products but have generally not been implemented over the past decade. Increasing burdens on health resources, the rise of antimicrobial resistance to dangerously high levels and the rise in noncommunicable diseases require a renewed focus on appropriate prescribing dispensing and use.
- 42. Activities under this strategic area will support countries to achieve a continuous supply of quality, safe, effective and affordable health products through research and development that meets public health needs; the application and management of intellectual property standards; evidence-based selection and fair and affordable pricing; procurement and supply chain management; and appropriate prescribing, dispensing and rational use.

¹ The World medicines situation 2011: Rational use of medicines. Geneva: World Health Organization; 2011.

43. **Research and development that meets public health needs.** In line with the Global strategy and plan of action on public health, innovation and intellectual property, which recommends prioritizing needs for and promoting research and development, WHO is playing a role in facilitating research and development for neglected areas, where there is a compelling unmet public health need for new products, including by coordinating the efforts of different actors, setting research and development priorities, identifying associated gaps, defining desired product profiles and facilitating the development of affordable, suitable health products. The Global Observatory on Health Research and Development is central to setting priorities for product development and contributing to coordinated actions on health research and development. The R&D Blueprint supports the development of a global preparedness plan for addressing future epidemics. WHO, together with the Drugs for Neglected Diseases initiative, has set up the Global Antibiotic Research & Development Partnership to develop new treatments for bacterial infections.

- 44. **Application and management of intellectual property.** Since the adoption of the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS Agreement), many Health Assembly resolutions have requested WHO to address the impact of trade agreements and intellectual property protection on public health and access to health products. The Global strategy and plan of action on public health, innovation and intellectual property, along with other relevant resolutions, constitutes the basic mandate for WHO's work in this area. As requested by the plan of action, WHO has intensified its collaboration with other relevant international organizations, in particular through trilateral collaboration with WIPO and WTO, as well as with other organizations, including UNCTAD and UNDP. Trilateral cooperation with WIPO and WTO is fostering a better understanding of the linkage between public health and intellectual property policies and enhancing a mutually supportive implementation of those policies. This activity area supports countries by fostering innovation and access to health products through appropriate intellectual property rules and management and by providing technical support and capacity-building.
- 45. **Evidence-based selection and fair and affordable pricing.** Procurement and reimbursement of health products is guided by evidence-based selection (including health technology assessment). Adoption or expansion of national essential medicines or diagnostics lists requires the capacity and competency at the national level to translate findings from evidence to local contexts and to use findings for decision-making. This activity area contributes directly to improving the availability and affordability of health products. Actions will be carried out to support countries for appropriate selection of medicines, vaccines, diagnostics and other health products, transparent and fair pricing, and implementation of policies, including on the use of generic and biosimilar medicines to reduce costs to both governments and individuals while ensuring quality, safety and efficacy and sustainable supply. This will be particularly important for countries transitioning from donor funding. Additional work on support for evaluating the benefit of future technologies as they are developing will be carried out, in addition to the advancement of strategic approaches to ensuring supply security and other pricing and purchasing policies.

46. **Procurement and supply chain management.** Good procurement practices play a key role in securing quality products at affordable prices and ensuring adequate and timely supply, while good supply chain management ensures that quality products are available at all levels of the health system. WHO will continue to support collaborative efforts to optimize the procurement and supply chain for health products and to build competencies for the required skills, such as forecasting needs, procurement processes, warehousing and distribution, stock management and maintenance (of medical devices). WHO will contribute to the global understanding of supply and demand dynamics and to platforms for collaborative approaches to procurement and facilitating the development of supporting policies and guidelines for improved capacity. In addition, the activity will contribute to support supply management in emergencies and crisis situations which may create an urgent need for health products. Being prepared with the necessary products, plans and tools is essential for manufacturers, regulators, donor agencies, supply chain managers and health workers.

47. **Appropriate prescribing, dispensing and rational use of medicines.** This activity will contribute to ensuring health impacts and the effective use of resources. This will require training of health care workers, quality improvement processes and routine monitoring of the use of medicines. WHO will support countries by consolidating interventions to ensure that prescribers have the capacity to implement clinical guidelines and other proven strategies and that policy guidance is aligned, from selection of medicines to prescribing practices. Work on responsible use will be reinforced to guarantee the appropriate prescription and use of medicines and other health products, including working with partners to improve health literacy. WHO will support countries in implementing stewardship programmes, with a focus on antimicrobials, and will support countries in developing policies and regulations to ensure access, appropriate prescribing, dispensing and use of controlled medicines for the treatment of pain and palliative care while minimizing the risk of diversion and misuse. Capacity for monitoring will be provided especially for the use of antibiotics in health facilities and in the community.

Activity: Research and development for health products that meet public health needs

Action – Continue to set priorities for health research and development in areas of compelling health $need^1$

Deliverables

Information available through the Global Observatory on Health Research and Development: review of development pipelines; research and development road maps; target product profiles for missing health products to guide research and development priority-setting for unmet public health needs in areas of market failure.

Analysis of relevant information on the health research and development needs of low- and middle-income countries through the Global Observatory.

Continued development of the global development and stewardship framework to combat antimicrobial resistance, jointly with OIE and FAO and UNEP; support for the development of the Global Antibiotic Research & Development Partnership.

¹ Corresponding mandates: WHA61.21, WHA62.16, WHA69.23, WHA70.14, WHA71.2.

Action – Coordinated actions on health research and development¹

Deliverables

Facilitated discussion on the development of unifying principles for biomedical research and development.

A harmonized WHO methodology for Target Product Profiles.

Establishment of new research and development initiatives, where needed, and existing initiatives supported, including Global Antibiotic Research & Development Partnership, to develop missing health products in areas of market failure, including rare diseases and neglected tropical diseases, based on core principles of affordability, effectiveness, efficiency and equity.

Promotion of transparency in research and development costs; development of incentive mechanisms that separate/delink the cost of investment in research and development from the price and volume of sales; and establishment of additional incentives for research and development of new products where there are market failures. Support for implementation of schemes which partially or wholly delink product prices from research and development costs, including actions recommended by the Consultative Expert Working Group on Research and Development: Financing and Coordination (see document A71/13, para. 30).

Promotion of new and existing research and development initiatives that are complementary and well-coordinated.

Action – Support improved capacity for research and development and clinical trials in countries²

Deliverables

Dissemination of and support for implementation of research and development models that promote innovation and access in line with principles of the Consultative Expert Working Group on Research and Development: Financing and Coordination.

Support for clinical trial registries and improving policy mechanisms for clinical trials, including capacity development.

Policies for prospective registration and public disclosure of the results of clinical trials and support for the monitoring of registration and results reporting.

Promotion of the transfer of technology and production of health products in low- and middle-income countries and support for improved collaboration and coordination of technology.

Support for effective and innovative global health research by strengthening the research capacity of disease-affected countries; promotion of the translation of evidence into interventions that reduce the burden of infectious diseases; and building resilience in the most vulnerable populations through the UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases.

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¹ Corresponding mandates: WHA61.21, WHA62.16, WHA69.23, WHA70.14, WHA71.3.

² Corresponding mandates: WHA62.16, WHA61.21, WHA69.23, WHA70.14.

Activity: Application and management of intellectual property to contribute to innovation and promote public health

Action – Foster innovation and access to health products by appropriate intellectual property rules and management¹

Deliverables

Promotion of public health-oriented licensing agreements and transparency regarding the patent status of existing and new health technologies.

Information provided on country experiences promoting public health approaches in the implementation of health-related provisions of the TRIPS agreements, including relevant TRIPS flexibilities and intellectual property management.

A review of mechanisms and incentives for access to affordable health technologies enabled by publicly funded research and development.

Support for the expansion of the Medicines Patent Pool to patented essential medicines and patented medicines included in WHO treatment guidelines through identification of potential products for licensing.

Action - Provide technical support and capacity building²

Deliverables

Technical support provided (as appropriate, upon request, in collaboration with other competent international organizations), including to policy processes and to countries that intend to make use of the provisions contained in TRIPS, such as the flexibilities recognized by the Doha Declaration on the TRIPS Agreement and Public Health and other WTO instruments related to TRIPS, in order to promote access to pharmaceutical products.

Support for the consideration of public health implications when negotiating bilateral or multilateral trade agreements.

Facilitation of the assessment of the patent status of essential health products at national and regional levels, in collaboration with competent partners.

Continued strengthening of the trilateral collaboration between WHO, WIPO and WTO, including to implement this road map, as well as with other relevant international organizations such as UNCTAD and UNDP.

¹ Corresponding mandates: WHA61.21, WHA62.16.

² Corresponding mandates: WHA61.21, WHA62.16, WHA70.14.

Activity: Evidence-based selection and fair and affordable pricing

Action – Support processes for evidence-based selection, including health technology assessment and their implementation¹

Deliverables

Normative guidance for the selection of essential health products and the use of these in the development of national selection processes, including model lists for essential medicines, diagnostics, medical devices and vaccines.

Capacity development for evidence-based selection and priority-setting using various tools, including health technology assessment in collaboration with relevant partners.

Information and knowledge exchange through global and regional platforms to support country decision-making processes on evidence-based selection and health technology assessment of essential health products.

Action – Encourage more transparent and better policies and actions to ensure fairer pricing and reduction of out-of-pocket payments²

Deliverables

Policy guidance for more effective pricing policies to improve the affordability of essential health products to health systems and individuals.

Global and regional collaboration to increase price transparency, support decision-making on pricing and reimbursement, facilitate dialogue between public payers, government decision-makers and industry, and improve capacity for price negotiation.

Pricing and financing policies to reduce out-of-pocket payments, including the adoption of generics and biosimilars in the selection, procurement and use of medicines; reimbursement schemes, where appropriate, and control of mark-ups in the supply chain.

Support for national capacity for the regular monitoring and use of price and availability information for decision-making.

Activity: Procurement and supply chain management for quality-assured health products

Action – Support collaborative approaches to strategic procurement of health products³

Deliverables

Compilation of best practices and normative guidance on innovative and collaborative approaches to strategic procurement.

Compilation of best practices and normative guidance on efficiencies for purchasing and quality assurance in procurement.

Support for development and strengthening of regional approaches, such as pooled procurement for purchasing, in collaboration with other partners and agencies.

¹ Corresponding mandates: WHA60.29, WHA67.22, WHA67.23, WHA69.20.

² Corresponding mandates: WHA61.21, WHA67.22, WHA68.6, WHA70.12.

³ Corresponding mandates: WHA61.21, WHA67.22, WHA68.6, WHA70.14.

Action – Support countries in efficient procurement and supply chain management of health products¹

Deliverables

Normative guidance for efficient procurement and supply chain management of health products (in collaboration with United Nations partners) for quality assurance, strategy development, planning, storage, distribution, waste management and performance assessment.

Knowledge-sharing and collaboration between countries, centres of excellence identified for training and technical support for quality assurance, forecasting of needs, procurement processes, warehousing and distribution, stock management and logistics management information systems, with an emphasis on leadership and systems management.

Collaborations with partners and United Nations agencies to improve coordination and facilitate more efficient procurement and supply chain management.

Tools and platforms for facilitating transparency regarding procurement of essential health products.

Policy guidance on strategic local production of health products.

Action – Improve capability and capacity for detecting, preventing and responding to shortages of medicines and vaccines²

Deliverables

Global tools for early detection of shortages and rapid notification systems.

Framework of mitigation actions needed to prevent and respond to shortages.

Market analysis for key strategic products and dialogue with industry on establishing supply security, including investing in Market Information for Access to Vaccines (MI4A) through collection, analysis and sharing of global medicines and vaccines demand and supply information, identification of access risks (e.g. shortages) and corrective measures.

Action – Support for adequate supply management and appropriate use of health products in emergencies and crisis situations³

Deliverables

Support for preparedness on supply chain needs and risk assessment.

Policies for donations of medicines, vaccines and other health products.

Support mechanisms (such as regional/ global virtual stockpiles and emergency health kits) for rapid mobilization and delivery of medicines, vaccines and health products in collaboration with partners.

Policies for safe disposal of health products in and after emergencies.

¹ Corresponding mandates: WHA61.21, WHA63.25, WHA66.7, WHA67.22, WHA68.6, WHA70.14.

² Corresponding mandates: WHA67.22, WHA69.25, WHA70.14.

³ Corresponding mandates: WHA60.28, WHA64.10, WHA67.22.

Activity: Appropriate prescribing, dispensing and rational use of medicines and health products

Action – Interventions that improve use of health products¹

Deliverables

Support for strengthening national structures and capacity for the regular development and revision of national treatment guidelines that are aligned with both the national essential medicines list selection process and prescribing practices.

In collaboration with partners, support for regional/national capacity development of the pharmacy and allied workforce to strengthen the medication-use process, ranging from improving adherence to regulations and guidelines to ensuring patient safety.

Support for implementing stewardship programmes, with a focus on antimicrobials; guidance on alignment of standard treatment guidance, with resistance pattern and national action plans for antimicrobial resistance; and support for using the Access, Watch and Reserve (AWARE) and the AWARE Index for quality improvement and stewardship interventions.

Support for the development of national policies and regulations to ensure access, appropriate prescribing, dispensing and use of controlled medicines, including guidance on optimizing relevant legislation and support for strengthening the capacity of prescribers and dispensers to ensure access and quality of service and minimize the risk of diversion and misuse.

Action – Support capacity for monitoring²

Deliverables

Support for improved prescribing and dispensing through better use of health product utilization data for evidenced-based decisions, analysis and policy action on health products.

Support to conduct surveys on the use of antibiotics in health facilities and the community, in order to inform and assess the impact of stewardship and interventions, as well as support to monitor and evaluate the consumption of medicines based on national imports and epidemiological trends.

Support for improved forecasting and quantification of controlled medicines to avoid stock outs and under-stock and support for strengthened capacity of prescribers and dispensers to ensure access to and quality of service and minimize the risk of diversion and misuse.

VIII. How WHO will collaborate on access to health products

48. As described in the document *Towards access* 2030,³ the key stakeholder groups with whom collaboration will be strengthened and sustained include United Nations and other international partners, research institutions and academia, donors, civil society and the private sector. Collaboration with each of these broad groups provides an opportunity for WHO to synergize action and to be a more active and effective partner. Collaboration with United Nations and other international agencies will focus on optimizing information flows, sharing information and implementing mechanisms to ensure

¹ Corresponding mandates: WHA60.16, WHA61.21, WHA67.19, WHA67.22, WHA68.7, WHA68.15.

² Corresponding mandates: WHA60.16, WHA67.19, WHA68.7.

³ WHO Essential medicines and health products: annual report 2017: towards access 2030. Geneva: World Health Organization; 2018. Available at: http://apps.who.int/iris/handle/10665/272972 (accessed 11 November 2018).

coordination in the field. Collaboration with academia will continue to leverage each entity's comparative advantages so as to achieve faster and better impact on access, while collaboration with donors will focus on enhanced advocacy to enable funding partners to contribute to the agenda described in this road map. The growing importance of civil society's role in influencing health leads WHO to engage civil society in policy and advocacy processes and help channel their expertise and experience in countries. Lastly, WHO will seek to engage with the private sector to find solutions to health challenges, such as the need for public health-driven research and development, pricing and affordability of health products, and leveraging innovative technologies and solutions for health.

IX. How WHO will measure progress on access to health products

49. WHO's impact framework for the Thirteenth General Programme of Work and its targets and indicators are aligned with the Sustainable Development Goals and Health Assembly approved resolutions and action plans. The present road map aligns with the draft Proposed programme budget 2020–2021¹ and the WHO Impact Framework² targets for outcome 1.3 (Improved access to essential medicines, vaccines, diagnostics and devices for primary health care).³ The relevant targets and corresponding indicators are listed below. The implementation of the road map will be measured using these indicators and those that may be developed to complement them.

Thirteenth General Programme of Work WHO Impact Framework programmatic targets and corresponding indicators for access to health products					
Programmatic target ^a	Indicator ^b				
4a. Increase availability of essential medicines for primary health care, including the ones free of charge to 80%	 Availability of essential medicines for primary health care, including the ones free of charge Proportion of health facilities that have a core set of relevant essential medicines available and affordable on a sustainable basis 				
4b. ACCESS group antibiotics at ≥60% of overall antibiotic consumption	Patterns of antibiotic consumption at national level				
7. Increase the availability of oral morphine in facilities caring for patients in need of this treatment for palliative care at all levels from 25% to 50%	Availability of oral morphine in facilities at all levels				
30. Increase service coverage of treatment interventions (pharmacological, psychosocial and rehabilitation and aftercare services) for severe mental health conditions to 50%	Coverage of treatment interventions (pharmacological, psychosocial and rehabilitation and aftercare services) for substance use disorders ^c				
40. Increase coverage of 2nd dose of measles- containing vaccine (MCV) to 85%	Coverage of 2nd dose of measles containing vaccine MCV				
41. Increase treatment coverage of RR-TB to 80%	Coverage of MDR/RR-TB treatment as a percent of estimated incidence				

^a Source: document EB144/7.

^b Source: WHO Thirteenth General Programme of Work (GPW 13) Impact Framework: targets and indicators (29 October 2018). Geneva: World Health Organization (http://www.who.int/about/what-wedo/GPW13_WIF_Targets_and_Indicators_English.pdf?ua=1, accessed 20 March 2019).

^c Note that indicator no. 1 for this target is not relevant to access to health products.

¹ Document EB144/5.

² Document EB144/7.

³ See document EB144/5.

X. Estimated budget for implementing the road map

50. The distribution of the Programme budget 2018–2019 across the different activities of the road map for 2018–2019 is as follows:

Budget for 2018–2019 by major office for access to medicines and other health technologies, and strengthening regulatory capacity (in US\$ million)

Output	Road map activities	Africa	The Americas	South-East Asia	Europe	Eastern Mediterranean	Western Pacific	HQ	Total	%
4.3.1	Selection, fair and affordable pricing, procurement and supply chain and appropriate prescribing dispensing and use	10.3	5.3	5.9	3.1	4.7	5.6	17.1	52	31
4.3.2	R&D, IP	2.9	0.3	1.0	0.6	1.3	0.5	12.2	18.8	11
4.3.3	Regulatory system strengthening	6.2	1.8	2.7	1.8	2.8	5.1	76.7	97.1	58
Total		19.4	7.4	9.6	5.5	8.8	11.2	106	167.9	

^{51.} The percentage distribution of the budget across the different activities of the road map for 2020–2021 and for 2022–2023 is estimated to be approximately the same as for the budget for 2018–2019.

Appendix 1

Key resolutions of the Health Assembly and regional committees, and regional committee documents from the past 10 years relevant to access to safe, effective and quality medicines, vaccines and health products¹

Resolution ² (year)	Title
Health Assembly	
WHA70.7 (2017)	Improving the prevention, diagnosis and clinical management of sepsis
WHA70.12 (2017)	Cancer prevention and control in the context of an integrated approach
WHA70.14 (2017)	Strengthening immunization to achieve the goals of the global vaccine action plan
WHA70.16 (2017)	Global vector control response: an integrated approach for the control of vector-borne diseases
WHA69.1 (2016)	Strengthening essential public health functions in support of the achievement of universal health coverage
WHA69.11 (2016)	Health in the 2030 Agenda for Sustainable Development
WHA69.20 (2016)	Promoting innovation and access to quality, safe, efficacious and affordable medicines for children
WHA69.21 (2016)	Addressing the burden of mycetoma
WHA69.23 (2016)	Follow-up of the report of the Consultative Expert Working Group on Research and Development: Financing and Coordination
WHA69.25 (2016)	Addressing the global shortage of medicines and vaccines, and the safety and accessibility of children's medication
WHA68.2 (2015)	Global technical strategy and targets for malaria 2016–2030
WHA68.6 (2015)	Global vaccine action plan
WHA68.7 (2015)	Global action plan on antimicrobial resistance
WHA68.15 (2015)	Strengthening emergency and essential surgical care and anaesthesia as a component of universal health coverage
WHA68.18 (2015)	Global strategy and plan of action on public health, innovation and intellectual property
WHA68.20 (2015)	Global burden of epilepsy and the need for coordinated action at the country level to address its health, social and public knowledge implications
WHA67.1 (2014)	Global strategy and targets for tuberculosis prevention, care and control after 2015
WHA67.6 (2014)	Viral hepatitis
WHA67.14 (2014)	Health in the post-2015 development agenda
WHA67.19 (2014)	Strengthening of palliative care as a component of comprehensive care throughout the life course

¹ Previously issued in WHO document A71/12, Annex, Appendix 1.

² Unless otherwise indicated.

Resolution ¹ (year)	Title
WHA67.20 (2014)	Regulatory system strengthening for medical products
WHA67.21 (2014)	Access to biotherapeutic products, including similar biotherapeutic products, and ensuring their quality, safety and efficacy
WHA67.22 (2014)	Access to essential medicines
WHA67.23 (2014)	Health intervention and technology assessment in support of universal health coverage
WHA67.25 (2014)	Antimicrobial resistance
WHA66.7 (2013)	Implementation of the recommendations of the United Nations Commission on Life-Saving Commodities for Women and Children
WHA66.12 (2013)	Neglected tropical diseases
WHA66.22 (2013)	Follow up of the report of the Consultative Expert Working Group on Research and Development: Financing and Coordination
WHA65.3 (2012)	Strengthening noncommunicable disease policies to promote active ageing
WHA65.4 (2012)	The global burden of mental disorders and the need for a comprehensive, coordinated response from health and social sectors at the country level
WHA65.5 (2012)	Poliomyelitis: Intensification of the global eradication initiative
WHA65.17 (2012)	Global vaccine action plan
WHA65.19 (2012)	Substandard/spurious/falsely-labelled/falsified/counterfeit medical products
WHA65.21 (2012)	Elimination of schistosomiasis
WHA65.22 (2012)	Follow-up of the report of the Consultative Expert Working Group on Research and Development: Financing and Coordination
WHA64.5 (2011)	Pandemic influenza preparedness: sharing of influenza viruses and access to vaccines and other benefits
WHA63.1 (2010)	Pandemic influenza preparedness: sharing of influenza viruses and access to vaccines and other benefits
WHA63.12 (2010)	Availability, safety and quality of blood products
WHA62.10 (2009)	Pandemic influenza preparedness: sharing of influenza viruses and access to vaccines and other benefits
WHA62.16 (2009)	Global strategy and plan of action on public health, innovation and intellectual property
WHA61.1 (2008)	Poliomyelitis: mechanism for management of potential risks to eradication
WHA61.15 (2008)	Global immunization strategy
WHA61.21 (2008)	Global strategy and plan of action on public health, innovation and intellectual property
WHA60.1 (2007)	Smallpox eradication: destruction of variola virus stocks
WHA60.13 (2007)	Control of leishmaniasis
WHA60.16 (2007)	Progress in the rational use of medicines
WHA60.20 (2007)	Better medicines for children

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¹ Unless otherwise indicated.

Resolution ¹ (year)	Title						
WHA60.28 (2007)	Pandemic influenza preparedness: sharing of influenza viruses and access to vaccines and other benefits						
WHA60.29 (2007)	Health technologies						
WHA60.30 (2007)	Public health, innovation and intellectual property						
Regional Committee f	Regional Committee for South-East Asia						
Document SEA/RC70/7	Hepatitis						
Document SEA/RC70/8	Tuberculosis: 'Bending the curve'						
Document SEA/RC70/9	Access to medicines						
Document SEA/RC69/9	Antimicrobial resistance						
SEA/RC68/R3 (2015)	Antimicrobial resistance						
SEA/RC68/R5 (2015)	Cancer prevention and control – The way forward						
SEA/RC66/R7 (2013)	Effective management of medicines						
SEA/RC65/R3 (2012)	Consultative Expert Working Group on Research and Development: Financing and Coordination						
SEA/RC65/R6 (2012)	Regional strategy for universal health coverage						
SEA/RC64/R3 (2011)	2012: Year of Intensification of Routine Immunization in the South-East Asia Region: Framework for increasing and sustaining coverage						
SEA/RC64/R5 (2011)	National essential drug policy including the rational use of medicines						
SEA/RC63/R4 (2010)	Prevention and containment of antimicrobial resistance						
SEA/RC62/R6 (2009)	Measures to ensure access to safe, efficacious, quality and affordable medical products						
SEA/RC61/R5 (2008)	Dengue prevention and control						
SEA/RC60/R5 (2007)	The new Stop TB Strategy and its implementation						
SEA/RC60/R8 (2007)	Challenges in polio eradication						
Regional Committee f	or Africa						
AFR/RC66/R2 (2016)	Regional strategy on regulation of medical products in the African Region, 2016–2025						
AFR/RC64/R4 (2014)	Regional Strategic Plan for Immunization 2014–2020						
AFR/RC63/R4 (2013)	Addressing the challenge of women's health in Africa: Report of the Commission on Women's Health in the African Region						
AFR/RC63/R6 (2013)	Regional strategy on neglected tropical diseases in the WHO African Region						
AFR/RC63/R7 (2013)	The WHO consolidated guidelines on the use of antiretroviral drugs for treating and preventing HIV infection; recommendations for a public health approach – implications for the African Region						

¹ Unless otherwise indicated.

AFR.RC62/R2 (2012) HIV/AIDS: Strategy for the African Region AFR.RC62/R7 (2012) Consideration and endorsement of the Brazzaville Declaration on noncommunicable diseases Regional Committee for the Eastern Mediterranean Region EM/RC63/R.3 (2016) Improving access to assistive technology EM/RC63/R.5 (2016) Strategic framework for blood safety and availability 2016–2025 EM/RC63/R.3 (2012) Health systems strengthening in countries of the Eastern Mediterranean Region: challenges, priorities and options for future action Regional Committee for the Western Pacific WPR/RC66.R1 (2015) Viral hepatitis WPR/RC65.R5 (2014) Expanded programme on immunization WPR/RC64.R5 (2013) Hepatitis B control through vaccination: setting the target WPR/RC63.R4 (2012) Regional action plan for neglected tropical diseases in the Western Pacific (2012–2016) Regional Committee for Europe EUR/RC66/R5 (2016) Strengthening people-centred health systems in the WHO European Region: framework for action on integrated health services delivery EUR/RC66/R9 (2016) Action plan for the health sector response to HIV in the WHO European Region EUR/RC66/R5 (2015) Priorities for health systems strengthening in the WHO European Region EUR/RC65/R5 (2015) Priorities for health systems strengthening in the WHO European Region 2015–2020: walking the talk on people centredness EUR/RC66/R6 (2015) Tuberculosis action plan for the WHO European Region 2016–2020 EUR/RC64/R5 (2014) European Vaccine Action Plan 2015–2020 Directing Council of the Pan American Health Organization CD55.R5 (2016) Plan of action for the prevention and control of HIV and sexually transmitted infections 2016–2021 CD55.R9 (2016) Plan of action for the prevention and control of viral hepatitis CD55.R9 (2016) Plan of action for the elimination of neglected infectious diseases and post-elimination actions 2016–2022 CD55.R12 (2016) Plan of action for the prevention and control of viral hepatitis CD54.R7 (2015) Plan of action on antimicrobial resistance CD54.R9 (2015) Strategy o	Desclution! (week)	Title		
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CD52.R10 (2013) Chronic kidney disease in agricultural communities in Central America	CD54.R15 (2015)			
	CD52.R10 (2013)	Chronic kidney disease in agricultural communities in Central America		

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 $^{^{1}}$ Unless otherwise indicated.

WHO ACTIVITIES, ACTIONS, DELIVERABLES AND KEY MILESTONES

The following tables show key short-, medium- and long-term milestones, linked to corresponding deliverables. Milestones for 2019 are covered in the Programme budget 2018–2019. Milestones for 2020–2021 will be covered in the Programme budget 2020–2021 and milestones for 2022–2023 are indicative. General Programme of Work outputs are listed at the activity level to show alignment with the different areas of work across the Organization.

Activity: Regulatory system strengthening

Action – Development and implementation of WHO technical guidelines, norms and standards for quality assurance and safety of health products

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Guidelines, standards and biological reference materials to support decreased regulatory burden and support production	•Expert Committee on Specifications for Pharmaceutical Preparations meeting and report.	•Expert Committee on Specifications for Pharmaceutical Preparations meeting and report.	•Expert Committee on Specifications for Pharmaceutical Preparations meeting and report.
and quality control of safe and effective health products; support for increased	•Expert Committee on Biological Standardization meeting and report.	•Expert Committee on Biological Standardization meeting and report.	•Expert Committee on Biological Standardization meeting and report.
uptake and utilization of guidance and standards by Member States.	•International Nonproprietary Names maintained.	•International Nonproprietary Names maintained.	•International Nonproprietary Names maintained.
	•International reference standards for vaccines, biologicals and in vitro dignosticss continued.	•International reference standards for vaccines, biologicals and in vitro diagnostics continued.	•International reference standards for vaccines, biologicals and in vitro diagnostics continued.
	•Advisory committee on safety of medicinal products recommendations issued.	•Advisory committee on safety of medicinal products recommendations issued.	•Advisory committee on safety of medicinal products recommendations issued.
	•Anatomical Therapeutic Chemical Classification of Medicinal products and their Defined Daily Doses issued.	•Anatomical therapeutic chemical classification of medicinal products and their defined daily doses issued.	•Anatomical therapeutic chemical classification of medicinal products and their defined daily doses issued.
	•United Nations consolidated list of pharmaceutical products consumption of which has been banned/withdrawn/ severely restricted published.	•United Nations consolidated list of pharmaceutical products consumption of which has been banned/withdrawn/ severely restricted published.	•United Nations consolidated list of pharmaceutical products consumption of which has been banned/withdrawn/ severely restricted published.

•Good regulatory practices guidelines, principles and "how to" tools on good reliance practices, and a guide for NRAs on value-added quality management published. •Guideline on patient engagement in product development and safe use published. •Guideline on drug induced liver injury published. •Guidance on safety specifications in the use of technology for adverse events reporting published. •Plan for increased uptake and utilization of WHO guidance and standards developed. •Plan for increased uptake and utilization of WHO guidance and standards developed. •International listings serving interchangeability of generic medicines published. •Model regulatory framework for medical devices developed. •International Pharmacopoeia maintained. •International products integrated or medicinal products integrated. •Second version of International classification and nomenclature of medical devices released. •Development and availability of standards for medical devices reviewed. •Third version of International classification and nomenclature of medical devices released. •Development of standards for medical devices.
•First working version of International classification and nomenclature of medical devices developed.

Action – Support improvement of regulatory systems, promoting reliance and collaboration

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Smart regulation in an increasing number of countries by means of collaborative approaches to registration including reliance and regulatory networks; support for implementation of WHO quality standards to decrease the regulatory burden; support for regulatory capacity strengthening towards WHO listed authority status, especially in countries manufacturing products for lower-middle-income countries or for local production to ensure quality of products; support for the use of the Global benchmarking tool for the formulation of country-specific institutional development plans and related provision of technical advice, training and measures.	 Performance data on all collaborative procedures published. Process for defining, evaluating and designating WHO listed authorities finalized and implemented. Databases on national regulatory authority status published. WHO listed authorities that have reached maturity level 3 or 4 published. Model strategy and plan of action for Member States and regions interested in quality local production developed in collaboration with partners. Local production feasibility tool and risk assessment tool piloted. Capacity-building to strengthen local production of quality-assured products provided. Global benchmarking tool indicators for levels 1, 2, 3 and 4 finalized for those activities required for all regulatory functions (medicines and vaccines). Global benchmarking tool extended for medical devices. 	 International Conference of Drug Regulatory Authorities held and recommendations issued. Global regulatory networks established and maintained. Development of a regulatory framework and harmonized guidelines expanded through the African Medicines Regulatory Harmonization Initiative for all health products. Facilitated pathways for product registration: collaborative registration procedure strengthened. Technical assistance to manufacturers of medical devices and/or other stakeholders to ensure product development, testing and production facilities are in line with WHO norms and standards. WHO certification and proficiency schemes developed. Competencies framework and self-assessment tools finalized. Training modules, training centres, mentorship platforms, global competencies framework and curriculum, roster of international experts, rotations within WHO and other agencies, and workshops on WHO regulatory guidelines established. 	International Conference of Drug Regulatory Authorities held and recommendations issued. Global regulatory networks established and maintained.

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
		•Technical assistance on training course design and delivery provided.	
		•Distribution of poisonous snakes mapped and regulatory capacity building delivered for selection, importation and appropriate use of selected antivenoms.	

Action – Strengthen preparedness for entry of medicines, vaccines and other health products into countries experiencing a public health emergency or crisis

Thirteenth General Programme of Work outputs: 1.3.1, 1.3.3 and 2.1.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Support for strengthening regulatory procedures for risk-based evaluations during public health emergencies through the revision of regulatory procedures and standards for risk-based evaluations during public health emergencies and the strengthening of processes and services; support for the adaptation of regulatory requirements for public health emergencies and the use of networks for expedited evaluations during such emergencies.	regulatory procedures in low/ and	•Training on use of health products in an emergency delivered, including for use of products under emergency use assessment and listing procedures.	•Emergency use assessment and listing procedures updated as needed.

Activity: Assessment of the quality, safety and efficacy/performance of health products through prequalification

Action – Maintain and expand the prequalification service

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
An efficient and effective prequalification programme maintained and optimized, in particular the prequalification of in vitro diagnostics and vector control products; scope of prequalification expanded to include potential conditions, such as noncommunicable diseases, based on an assessment of specific needs from the essential medicines list and the essential diagnostics list; new routes to prequalification listing and new risk-based approaches; post-prequalification product quality assured.	prequalification published. •Criteria for prioritization for short-, medium- and long-term expansion of prequalification eligible health products developed. •Post-prequalification risk-based product quality surveillance strategy for each product stream developed and published.	*Key performance indicators for prequalification published. *Prequalification prioritization list maintained and updated. *Post-prequalification risk-based product quality surveillance strategy for each product stream published.	*Key performance indicators for prequalification published. *Prequalification prioritization list maintained and updated. *Post-prequalification risk-based product quality surveillance strategy for each product stream published.

Activity: Market surveillance of quality, safety and efficacy/performance

Action – Support strengthening national capacity to ensure the quality, safety and efficacy of health products

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Support for development of national capacity to ensure quality of health products in the supply chain; support for development of national capacity for surveillance of safety of health products on national markets; improved prevention, detection and response to substandard and falsified health products.	 Drug safety alerts issued. WHO Pharmaceuticals Newsletter published. Global individual case safety reports database (Vigibase) established. National pharmacovigilance centres meeting and recommendations. 	 Drug safety alerts issued. WHO Pharmaceuticals Newsletter published. Global individual case safety reports database (Vigibase) updated. National pharmacovigilance centres meeting and recommendations. 	Drug safety alerts issued. WHO Pharmaceuticals Newsletter published. Global individual case safety reports database (Vigibase) updated. National pharmacovigilance centres meeting and recommendations.

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
	•Global pharmacovigilance toolkit developed.	•Global pharmacovigilance toolkit published.	•Global Advisory Committee on Vaccine Safety recommendations issued.
	developed. •Training Manual on PV inspections developed. •Global Advisory Committee on Vaccine Safety recommendations issued. •Global network of vaccine safety websites established. •Minimum package of online vaccine safety-related information made available. •Vaccine safety communications elibrary made available. •Vaccines safety net portal promoted and widely used. •Report of the Global Vaccine Safety Initiative published. •Vaccine safety training materials developed and disseminated. •Vaccine safety roster of experts established. •Immunization stress related reaction guidance document published. •Surveillance of adverse events following immunization strengthened. •Vaccine reaction rates information sheets developed updated. •Adverse events following immunization investigation software developed.	published. Guidance for implementation of the smart safety surveillance strategy developed. Global Advisory Committee on Vaccine Safety recommendations issued. Global network of vaccine safety websites expanded. Vaccine safety digital information and communication strategies relayed. Vaccine safety communications elibrary updated. Vaccine safety net portal maintained. Global vaccine safety blueprint 2.0 developed. Global vaccine safety observatory established. Best practices for health care workers' training on vaccine safety developed. Case definitions for safety of immunisation during pregnancy piloted. Report of the Global Vaccine Safety	
	Vaccine safety crisis standard operating procedure tested.	Vaccine reaction rates information sheets developed and updated.	

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
		•Trainings on adverse events following immunization piloted.	
		•Vaccine safety crisis standard operating procedure modified.	
	•WHO Global Surveillance and Monitoring System for substandard and falsified medical products maintained.	•WHO Global Surveillance and Monitoring System for substandard/ falsified products maintained.	•WHO Global Surveillance and Monitoring System for substandard and falsified medical products maintained.
	•Substandard and falsified medical product alerts issued.	•Substandard and falsified medical product alerts issued.	•Substandard and falsified medical product alerts issued.
	•Smartphone reporting application for health care professionals piloted.	•WHO Global Point Network for substandard and falsified medical	•WHO Global Point Network for substandard and falsified medical
	•Medicine quality surveys of antibiotics and antimalarials conducted.	Products established. Additional countries supported to monitor, report and manage incidents of substandard and falsified medical products.	 Products maintained. Additional countries supported to monitor, report and manage incidents of substandard and falsified medical products.
		•Substandard and falsified medical products toolkits for regulators developed.	
	Proposal developed for post-market surveillance for medical devices	•Field safety notices for diagnostics issued.	• Field safety notices for diagnostics issued.
	(especially for implants).	•In vitro diagnostics complaints database established.	•In vitro diagnostics complaints database updated.
		•Network for post-market surveillance of in vitro diagnostics established.	•Network for post-market surveillance of in vitro diagnostics established.
		•Proposal for post-market surveillance of other medical devices expanded.	

Activity: Research and development for health products that meet public health needs

Action – Continue to set priorities for health research and development in areas of compelling health need

Thirteenth General Programme of Work outputs: 1.3.4, 1.3.5 and 4.1.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Information available through the Global Observatory on Health Research and Development: review of development pipelines; research and development road maps; target product profiles for missing health products to guide research and development priority-setting for unmet public health needs in areas of market failure; analysis of relevant information on the health research and development needs of low- and middle-income countries through the Global Observatory; continued development of the global development and stewardship framework to combat antimicrobial resistance, jointly with OIE and FAO and UNEP; support for the development of the Global Antibiotic Research and Development Partnership.	 Target product profiles in the area of antimicrobial resistance, diagnostics, and assistive products developed. Report on the antibiotic development pipeline developed. Technical and political support for the Global Antibiotic Research and Development Partnership provided. 	 Target product profiles developed for missing antibiotics and in vitro diagnostics for priority pathogens, missing diagnostics for sepsis, medical devices (including personal protective equipment), and priority assistive products. Annual pipeline report expanded to antifungals. Research and development priority list developed for in vitro diagnostics for antimicrobial resistance. Report on possible market incentives for antibiotic development and manufacturing developed. 	 TPPs developed for missing antibiotics and in vitro diagnostics for priority pathogens, missing diagnostics for sepsis, medical devices (including personal protective equipment), and priority assistive products. Budget of Global Antibiotic Research and Development Partnership increased to US\$ 200 million and first product developed.

Action – Coordinated actions on health research and development

Thirteenth General Programme of Work outputs: 1.3.4, 1.3.5 and 4.1.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Facilitated discussion on the development of unifying principles for biomedical research and development; a harmonized WHO methodology for Target Product Profiles; establishment of new research and development initiatives, where needed, and existing initiatives supported, including Global Antibiotic Research & Development Partnership, to develop missing health products in areas of market failure, including rare diseases and neglected tropical diseases, based on core principles of affordability, effectiveness, efficiency and equity; promotion of transparency in research and development costs; development of incentive mechanisms that separate/delink the cost of investment in research and development from the price and volume of sales; and establishment of additional incentives for research and development of new products where there are market failures; support for implementation of schemes which partially or wholly delink product prices from research and development costs, including actions recommended by the Consultative Expert Working Group on Research and Development: Financing and Coordination (see document A71/13, para. 30); promotion of new and existing research and development initiatives that are complementary and well-coordinated.		 Analysis of the research and development pipeline for new antibiotics prepared and updated. WHO Priority Pathogens List updated. Report on the cost of research and development for health products developed. Economic models to determine the value for investment developed: (1) value for investment models; and (2) Vaccine Safety Net. 2020 edition of the WHO compendium of innovative health technologies for low-resource settings published. 	•Global Antibiotic Research and Development Partnership budget increased to US\$ 200 million and first product developed.

Action – Support improved capacity for research and development and clinical trials in countries

Thirteenth General Programme of Work outputs: 1.3.4 and 4.1.3

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Dissemination of and support for implementation of research and development models that promote innovation and access in line with principles of the Consultative Expert Working Group on Research and Development: Financing and Coordination; support for clinical trial registries and improving policy mechanisms for clinical trials, including capacity development; policies for prospective registration and public disclosure of the results of clinical trials and support for the monitoring of registration and results reporting; promotion of the transfer of technology and production of health products in lowand middle-income countries and support for improved collaboration and coordination of technology; support for effective and innovative global health research by strengthening the research capacity of disease-affected countries; promotion of the translation of evidence into interventions that reduce the burden of infectious diseases; and building resilience in the most vulnerable populations through the UNICEF/UNDP/World Bank/WHO Special Programme for Research and	•International Clinical Trials Registry Platform maintained. •Global Observatory on Health Research and Development maintained.	 •International Clinical Trials Registry Platform maintained. •Global Observatory on Health Research and Development maintained. •Tools and standards for national research capacity strengthening developed. •Medical and health products needs assessment, with harmonized methodology and quality oversight for WHO target product profiles established. 	•International Clinical Trials Registry Platform maintained. •Global Observatory on Health Research and Development maintained. •Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property (elements 1, 2 and 4) implemented.

Activity: Application and management of intellectual property to contribute to innovation and promote public health

Action – Foster innovation and access to health products by appropriate intellectual property rules and management

Thirteenth General Programme of Work output: 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Promotion of public health-oriented licensing agreements and transparency regarding the patent status of existing and new health technologies; information provided on country experiences promoting public health approaches in the implementation of health-related provisions of the TRIPS agreements, including relevant TRIPS flexibilities and intellectual property management; a review of mechanisms and incentives for access to affordable health technologies enabled by publicly funded research and development; support for the expansion of the Medicines Patent Pool to patented essential medicines and patented medicines included in WHO treatment guidelines through identification of potential products for licensing.	 Trilateral study on promoting access to medical technologies and innovation updated. Report on access to pre-exposure prophylaxis developed. Progress report on access to Hepatitis C treatment updated. Patent transparency for all medicines on the WHO Model List of Essential Medicines (EML) and new drugs in WHO treatment guidelines promoted to support efforts to strengthen national capacities to analyse the information contained in those databases, and improve the quality of patents. 	Patent information and updated patent status database developed for all patented drugs on the WHO EML. Technical reports on access and intellectual property issued, including barriers to generic entry in different countries or regions and in particular patented medicines from the WHO EML or treatments included in WHO treatment guidelines. Implementation plan for Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property. Transfer of technology and local production of health products promoted.	 Updated patent status information promoted for all medicines on the WHO EML and new drugs in WHO treatment guidelines and efforts to strengthen national capacities supported for analysis of the information contained in those databases, and improvement in the quality of patents. Technical reports on access and intellectual property issued, including barriers to generic entry in different countries or regions and in particular patented medicines from the WHO EML or treatments included in WHO treatment guidelines. Implementation of the Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property (in particular elements 4 and 5). Information sharing supported and capacity building delivered for the application and management of intellectual property with respect to health-related innovation and promotion of public health in developing countries. Promoting transfer of technology and local production of health products.

Action – Provide technical support and capacity building

Thirteenth General Programme of Work output: 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Technical support provided (as appropriate, upon request, in collaboration with other competent international organizations), including to policy processes and to countries that intend to make use of the provisions contained in TRIPS, such as the flexibilities recognized by the Doha Declaration on the TRIPS Agreement and Public Health and other WTO instruments related to TRIPS, in order to promote access to pharmaceutical products; support for the consideration of public health implications when negotiating bilateral or multilateral trade agreements; facilitation of the assessment of the patent status of essential health products at national and regional levels, in collaboration with competent partners; continued strengthening of the trilateral collaboration between WHO, WIPO and WTO, including to implement this road map, as well as with other relevant international organizations such as UNCTAD and UNDP.	 Annual WTO, WIPO, WHO Trade and health workshop and other trilateral national and regional trainings held. Technical support provided to countries or regions (as appropriate, upon request, in collaboration with other competent international organizations) in a manner that maximizes health-related innovation and promotes access to health products Trilateral Symposium WHO-WIPO-WTO held. United Nations inter-agency collaboration maintained in relation to promotion of access to health products (e.g. UNAIDS, UNCTAD, UNDP, Unitaid). 	*Technical support provided to countries or regions (as appropriate, upon request, in collaboration with other competent international organizations) in a manner that maximizes health-related innovation and promotes access to health products. *Trilateral (WHO-WIPO-WTO) and United Nations inter-agency collaboration in relation to promotion of access to health products (e.g. UNAIDS, UNCTAD, UNDP, Unitaid) maintained. *Efforts to effectively coordinate work relating to intellectual property and public health strengthened among regional and international organizations in order to facilitate dialogue and dissemination of information to countries.	 Technical support provided, as appropriate, upon request, in collaboration with other competent international organizations, including, where appropriate, to policy processes, to countries that intend to make use of the provisions contained in the TRIPS Agreement, including the flexibilities recognized by the Doha Declaration on the TRIPS Agreement and Public Health and other trade agreements in order to promote access to pharmaceutical products. National and regional institutions promoted and supported including through international cooperation, in their efforts to build and strengthen capacity to manage and apply intellectual property in a manner oriented to public health needs and priorities of developing countries.

Activity: Evidence-based selection and fair and affordable pricing

Action – Support processes for evidence-based selection, including health technology assessment and their implementation

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Normative guidance for the selection of essential health products and the use of these in the development of national selection processes, including model lists for essential medicines, diagnostics, medical devices and vaccines; capacity development for evidence-based selection and priority-setting using various tools, including health technology assessment in collaboration with relevant partners; information and knowledge exchange through global and regional platforms to support country decision-making processes on evidence-based selection and health technology assessment of essential health products.	 Technical Report of Expert Committee on Selection and Use of Essential Medicines published. WHO Model List of Essential Medicines (EML) and Model List of Essential Medicines for Children (EMLc) published. Model list of essential in vitro diagnostics established. Guide for implementation of access, watch and reserve antibiotic categorization developed. Landscape for diagnostic needs for antimicrobial resistance developed. Implementation guide for updating national lists of essential medicines finalized. Total system effectiveness approach for efficient and effective selection of appropriate vaccines products pilot tested. First edition of publication on health products for primary health care (including medicines, vaccines, vector control, assistive and medical devices) issued. Essential and priority lists are used to complement the universal health coverage menu. 	 Technical Report of Expert Committee on Selection and Use of Essential Medicines published. WHO EML and EMLc published. Model list of essential in vitro diagnostics published. Tools and processes published to guide selection of vaccine products, inform research pipeline and support demand forecasting (total system effectiveness and vaccine innovation prioritization strategy). List of priority medical devices established for diabetes, stroke and cardiovascular diseases. Lists of medical devices for Primary health care developed. First edition of nomenclature, codification, classification and glossary of medical devices available. Meeting of the Expert Advisory Group to finalize and publish the second Priority Assistive products List. Good practices on evidence-based methodology for selection and health technology assessment for health products developed. Package of innovative solutions, policy options, procurement mechanisms and 	Technical Report of Expert Committee on Selection and Use of Essential Medicines published. WHO EML and EMLc published. Model list of essential in vitro diagnostics published. Electronic version of the WHO EML updated. List of priority medical devices for chronic respiratory diseases developed. Strategic Advisory Group of Experts for Medical Devices confirms priority medical devices selection and methodology. Measure the access to assistive products in countries and publish a progress report on access to assistive technology.

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
	•Global consultation for measuring access to assistive products.	advocacy material for assistive devices developed.	
		•Global Report on Assistive Technology published.	
		•Strategic Advisory Group of Experts for Medical Devices established.	
		•Electronic versions of WHO essential and priority lists developed.	

Action – Encourage more transparent and better policies and actions to ensure fairer pricing and reduction of out-of-pocket payments

Thirteenth General programme of Work outputs: 1.3.1 and 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Policy guidance for more effective pricing policies to improve the affordability of essential health products to health systems and individuals; global and regional collaboration to increase price transparency, support decision-making on pricing and reimbursement, facilitate dialogue between public payers, government decision-makers and industry, and improve capacity for price negotiation; pricing and financing policies to reduce out-of-pocket payments, including the adoption of generics and biosimilars in the selection, procurement and use of medicines; reimbursement schemes, where appropriate, and control of mark-ups in the supply chain; support for national capacity for the regular monitoring and use of price and availability information for decision-making.	Fair pricing forum held. Global vaccine market dynamics understood through the Market Information for Access to Vaccines project. Tools to monitor availability of health products and Sustainable Development Goal indicators developed.	 •Manuals on how to develop, implement and monitor national medicines and health products policy revised. •Pharmaceutical pricing policy guidelines published. •Guidance on promoting and monitoring transparency in medicines and health product prices developed. •Guidance on how to develop benefit package design developed. •Tools for monitoring the availability and predictors of access to medicines, vaccines, and health products including country profiles, house hold surveys and health facility assessments developed. •Sustainable Development Goal indicator on access monitored and annual report published. 	 •WHO guideline on country pharmaceutical pricing policies updated. •Access to vaccines expanded in middle-income countries through immunization partners market shaping efforts. •Data collected for indicators and monitoring access and availability of health products. •Tools to measure pricing of medical devices developed.

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
		•New processes and tools developed to assist countries in developing comprehensive multi-year plans for immunization including ensuring adequate financial resources.	

Activity: Procurement and supply chain management for quality-assured health products

Action – Support collaborative approaches to strategic procurement of health products

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Compilation of best practices and normative guidance on innovative and collaborative approaches to strategic procurement; compilation of best practices and normative guidance on efficiencies for purchasing and quality assurance in procurement; support for development and strengthening of regional approaches, such as pooled procurement for purchasing, in collaboration with other partners and agencies.	Concepts for pooled procurement of health products including medical devices developed. Publication on decommissioning medical devices finalized. Strengthening of the WHO Model List of Essential Medicines (EML) therapeutic equivalence (square box) evaluations for facilitating competitive procurement practices.	Guidelines on joint procurement of health products developed. Model quality assurance system for procurement of health products updated. E-training for effective vaccine procurement made available to countries. South Eastern European Health Network strategic procurement options developed for improved access to vaccines within network countries with WHO support.	

Action – Support countries in efficient procurement and supply chain management of health products

Thirteenth General Programme of Work outputs: 1.3.1 and 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Normative guidance for efficient procurement and supply chain management of health products (in collaboration with United Nations partners) for quality assurance, strategy development, planning, storage, distribution, waste management and performance assessment; knowledgesharing and collaboration between countries, centres of excellence identified for training and technical support for quality assurance, forecasting of needs, procurement processes, warehousing and distribution, stock management and logistics management information systems, with an emphasis on leadership and systems management; collaborations with partners and United Nations agencies to improve coordination and facilitate more efficient procurement and supply chain management; tools and platforms for facilitating transparency regarding procurement of essential health products; policy guidance on strategic local production of health products.	 Rapid assistive technology population need survey. Assistive technology system capacity survey. WHO-UNICEF procurement manual of priority assistive products piloted in three countries. Roll out of Effective Vaccine Management Initiative 2.0 for improved supply chains for vaccine products. Develop a model strategy and a prioritized plan of action for Member States and regions interested in quality local production, in collaboration with development partners. Technical specifications developed to support procurement. 	 Services to support the sustainable local production of safe, efficacious and quality medical products, including a model strategy and plan of action, guidance, tools and training packages, a global knowledge repository, and direct and coordinated assistance to Member States. Roll out of new wastage rate calculator to decrease vaccine wastage towards more efficiency. Guidelines on good pharmaceutical procurement developed. Guidance on procurement of medical devices (including in vitro diagnostics) updated. Rapid assistive technology population need survey and system capacity survey conducted. 	Guideline on operational principles for procurement of medicines and vaccines updated. Good distribution practice updated. Rapid assistive technology population need survey and system capacity survey conducted.

Action – Improve capability and capacity for detecting, preventing and responding to shortages of medicines and vaccines

Thirteenth General Programme of Work output: 1.3.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Global tools for early detection of shortages and rapid notification systems; framework of mitigation actions needed to prevent and respond to shortages; market analysis for key strategic products and dialogue with industry on establishing supply security, including investing in Market Information for Access to Vaccines through collection, analysis and sharing of global medicines and vaccines demand and supply information, identification of access risks (e.g. shortages) and corrective measures.	Risks and adequate corrective action identified through the Market Information for Access to Vaccines. Product-specific technical and policy briefs developed.	Shortages database established. Market shaping of priority assistive products developed.	Shortages database updated. Mitigation actions identified and addressed.

Action – Support for adequate supply management and appropriate use of health products in emergencies and crisis situations

Thirteenth General Programme of work outputs: 1.3.2 and 2.1.2

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Support for preparedness on supply chain needs and risk assessment; policies for donations of medicines, vaccines and other health products; support mechanisms (such as regional/ global virtual stockpiles and emergency health kits) for rapid mobilization and delivery of medicines, vaccines and health products in collaboration with partners; policies for safe disposal of health products in and after emergencies.	Survey on priority assisted technology needs in emergencies and crisis situations conducted. Development of the disease commodity packages for emergencies and outbreaks supported. Landscape analysis of priority assistive products needed for emergency health response conducted.	Critically needed medical products candidates for emergency use assessed. Guidelines for donations of medicines updated. Considerations for solicitation and provision of donations of medical devices updated. Interagency emergency health kit updated. List of medical devices for emergencies updated.	Solutions are put in place for timely and affordable access to Diptheria Anti Toxin. Country training on use of assistive products in an emergency.

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
		•Guidance on the safe disposal of unused medicines (including antimicrobials) updated. •Manual of priority assistive products	
		needed for emergency health response published.	

Activity: Appropriate prescribing, dispensing and rational use of medicines and health products

Action – Interventions that improve use of health products

Thirteenth General Programme of Work outputs: 1.3.1, 1.3.2 and 1.3.5

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Support for strengthening national structures and capacity for the regular development and revision of national treatment guidelines that are aligned with both the national essential medicines list selection process and prescribing practices; in collaboration with partners, support for regional/national capacity development of the pharmacy and allied workforce to strengthen the medication-use process, ranging from improving adherence to regulations and guidelines to ensuring patient safety; support for implementing stewardship programmes, with a focus on antimicrobials; guidance on alignment of standard treatment guidance, with resistance pattern and national action plans for antimicrobial resistance; and support for using the access, watch and reserve categorization and index for quality improvement and stewardship interventions; support for the development of national policies and	 Access, watch and reserve category indicators for optimal use of antibiotics developed. Access, watch and reserve antibiotic categorization implemented. Concept note developed for voluntary antimicrobial surveillance hospital accreditation. Training package on provision of assistive products piloted in two countries. 	 Manuals on how to develop, implement and monitor a national medicines and health products policy revised. Guidance on sales, labelling and promotion of antimicrobial medicines developed. Access, watch and reserve categorization of antibacterials updated. Guidance documents and implementation tools on how and why to adopt the access, watch and reserve categorization developed. Hospital stewardship certification initiative to certify hospitals adherence to certain antimicrobial resistance stewardship standards. Guidance document on safe use of medical devices. 	 Manuals piloted and countries supported for implementation of guidance and tools. Hospital stewardship certification scheme monitored. Drugs and Therapeutic Committee guide revised.

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Action – Support capacity for monitoring

Thirteenth General Programme of Work outputs: 1.3.1, 1.3.3 and 1.3.5

Deliverables	Milestones 2019	Milestones 2020–2021	Milestones 2022–2023
Support for improved prescribing and dispensing through better use of health product utilization data for evidenced-based decisions, analysis and policy action on health products; support to conduct surveys on the use of antibiotics in health facilities and the community, in order to inform and assess the impact of stewardship and interventions, as well as support to monitor and evaluate the consumption of medicines based on national imports and epidemiological trends; support for improved forecasting and quantification of controlled medicines to avoid stock outs and understock and support for strengthened capacity of prescribers and dispensers to ensure access and the quality of service and minimize the risk of diversion and misuse.	 Antimicrobial consumption training materials developed. Protocols finalized for antimicrobial use in hospitals. Global Antimicrobial Resistance Surveillance System antimicrobial consumption module developed. Guidance on how to use antimicrobial consumption and use data finalized. Tool for capturing antimicrobial use data for survey finalized. Tool for capturing Global Antimicrobial Resistance Surveillance System antimicrobial consumption data finalized. Antimicrobial consumption protocol for hospitals developed. 	 Data collected in hospitals. Protocols developed for antimicrobial use in the community. Measurement of antimicrobial use expanded. Surveillance of antimicrobial consumption expanded. Pilot of surveillance of consumption of other medicines. Tripartite surveillance on antimicrobial consumption and use expanded. WHO surveillance and alert system for new psychoactive substances presenting substantial risks for public health. Toolkit for antimicrobial surveillance in hospitals. 	Data collected in hospitals. Surveillance of antimicrobial consumption continued. Surveillance of consumption of other medicines expanded.