

Environmental health: a snapshot of the global picture

Dr Natasha Murray, Principal Advisor Public Health, New Zealand Ministry of Health 15th IFEH World Congress on Environmental Health



Today's perspective is from.....



New Zealand's role on the WHO Executive Board, 2015 - 2018



Media centre

Live webcast for 142nd WHO Executive Board

the player below. Session take place at WHO headquarter in Geneva, Switzerland from 22 to 27 January 2018



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Agenda and documents

- Provisional agenda
- Main documents







EXECUTIVE BOARD EXECUTIV 142nd session 142nd ses Provisional agenda item 3.3 Geneva, 2

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Public health preparedness and response

Implementation of the International Health Regulations (2005)

Report by the Director-General

This document responds to the Health Assembly's request in decision WHA70(11) (2017) to the 1 Director-General "to develop, in full consultation with Member States, including through the regional committees, a draft five-year global strategic plan to improve public health preparedness and response, based on the guiding principles contained in Annex 2 to document A70/16, to be submitted for trat consideration and adoption by the Seventy-first World Health Assembly, through the Executive Board at its 142nd session". Its purpose is to provide Member States with the proposed principles, strategic orientations, global deliverables and timelines of a strategic plan to improve public health preparedness and response, in line with the requirements of the International Health Regulations (2005).

The Secretariat issued an information document on the development of a draft five-year global 2 strategic plan to improve public health preparedness and response¹ for discussion by all six regional

http://apps.who.int/gb/







1. Vector-borne diseases & Vector Control





VBDs

Vector-borne Diseases: Facts and Figures

Make up **more than 17%** of all infectious diseases Cause **more than 700 000 deaths** annually

Dengue >3.9 billion people in >128 countries at risk 96 million cases estimated per year

Malaria

>400 000 deaths every year most are children under 5 yo

Others

Impact hundreds of millions of people



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About us

WHA70.16

Agenda item 14.2

31 May 2017

Global vector control response: an integrated approach for the control of vector-borne diseases

The Seventieth World Health Assembly,

Having considered the report on global vector control response;1

Appreciating the work of the Secretariat in developing, through broad consultation with Member States and members of the global health community, a comprehensive global vector control response 2017–2030,² which served as the basis for the report;¹

Acutely aware of the burden and threat of vector-borne diseases to individuals, families and societies throughout the world, and the influence of social, demographic and environmental factors, including climate change and other climate- and weather-related factors, and increasing vector resistance to insecticides and the spread of mosquitoes and other vectors to unaffected areas;

Recognizing the need for cooperation to prevent, detect, report on and respond to outbreaks of vector-borne diseases so as to avoid a public health emergency of international concern under the International Health Regulations (2005);

Noting the recent gains that have been made against malaria, onchocerciasis, lymphatic filariasis, Chagas disease and others, as well as previous failures and existing challenges, and that lessons learned could be used for other vector-borne diseases;

Recognizing the need for an integrated, comprehensive approach to vector control that will enable the setting and achievement of disease-specific national and global goals, and that will

Available at: http://www.who.int/m alaria/global-vectorcontrol-response/en/



GLOBAL VECTOR CONTROL RESPONSE 2017–2030





Available at: http://www.who.int/vect orcontrol/publications/glo bal-control-response/en/



WESTERN PACIFIC REGIONAL ACTION PLAN for

Dengue Prevention and Control (2016)

And a Western Pacific regional perspective.....



Available at: http://www.wpro.who.int /mvp/documents/rap_de n_2016/en/



What does this all mean for countries?

Fight the bite day and night

Going to the Pacific? Keep safe from dengue by avoiding mosquito bites.



Available at: https://www.health.govt.nz/news-media/media-releases/ministry-health-launches-new-campaign-fight-mosquito-borne-diseases



2. Public Health Emergency Preparedness

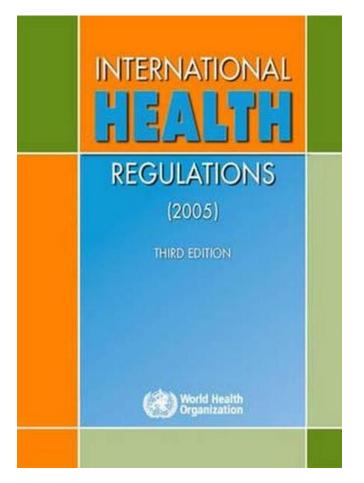




International Health Regulations (IHR) 2005

Requires WHO member states to:

- **plan for and respond** to hazards (including disease outbreaks)
- have a National Focal Point (NFP)
- respond to WHO requests for information about public health risks
- develop and maintain 'core' capacities
- take **measures to avoid exporting** public health risks





Public Health Emergency of International Concern

A **PHEIC** is defined in the International Health Regulations 2005 as:

...an **extraordinary** public health event that **requires an international response**

Decision tool - 'SUIT':

- **S S**erious and significant
- U Unusual, unexpected
- I International spread
- T Significant risk of internationalTravel or Trade restrictions





EB142: Public Health Preparedness and response



EXECUTIVE BOARD 142nd session Provisional agenda item 3.3 EB142/10 11 December 2017

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Available at http://apps.who.int/gb/e bwha/pdf_files/EB142/B1 42_10-en.pdf

TECHNICAL FRAMEWORK IN SUPPORT TO IHR (2005) MONITORING AND EVALUATION

IHR (2005) MONITORING AND EVALUATION FRAMEWORK

JOINT EXTERNAL EVALUATION TOOL

SECOND EDITION - January 2018

INTERNATIONAL HEALTH REGULATIONS (2005)



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JOINT EXTERNAL EVALUATION TOOL

INTERNATIONAL HEALTH REGULATIONS (2005)

Available at http://apps.who.int/iris/h andle/10665/204368

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	TECHNICAL AREA
PREVENT	1. National legislation, Policy and Financing
	2. IHR Coordination, Communication and Advocacy
	3. Antimicrobial Resistance (AMR)
	4. Zoonotic Disease
	5. Food Safety
	6. Biosafety and Biosecurity
	7. Immunization
DETECT	8. National Laboratory System
	9. Real Time Surveillance
	10. Reporting
	11. Workforce Development
RESPOND	12. Preparedness
	13. Emergency Response Operations
	14. Linking Public Health and Security Authorities
	15. Medical Countermeasures and Personnel Deployment
	16. Risk Communication
Other IHR related	17. Points of Entry (PoE)
hazards & Points	18. Chemical Events
of Entry	19. Radiation Emergencies



APSED III

- 1. Public health emergency preparedness
- 2. Surveillance, risk assessment & response
- 3. Laboratories
- 4. Zoonoses
- 5. Prevention through health care
- 6. Risk communication
- 7. Regional preparedness, alert & response
- 8. Monitoring & evaluation





Asia Pacific Strategy for Emerging Diseases and Public Health Emergencies

Advancing implementation of the International Health Regulations (2005)





What does this all mean for

countries?



JEE Support: -Australia -Mongolia -Singapore

New Zealand's JEE 2018

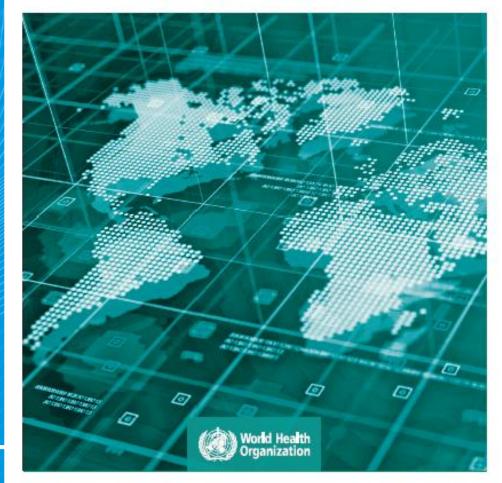
TECHNICAL FRAMEWORK IN SUPPORT TO IHR (2005) MONITORING AND EVALUATION

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INTERNATIONAL HEALTH REGULATIONS (2005)







3. Climate Change, air quality and health





Climate Change: Facts and Figures

From 2030 – 2050 an additional 250 000 deaths per year from malnutrition, malaria, diarrhoea & heat stress

Direct damage costs to health = US\$ 2-4 billion/year by 2030

Number of reported weather-related natural disasters has more than tripled since the 1960s

Annually these disasters

result in over 60 000 deaths, mainly in developing countries

+ variable rainfall + floods + rising temperatures + variable precipitation.....



EB142: Health, environment and climate change

Two main outcomes:

- 1. Development of a **draft comprehensive global strategy** on health, environment and climate change
- Development of a draft action plan to address health effects of climate change <u>initially</u> in small island developing States

(1) to develop, as a priority and in consultation with Member States and other stakeholders as appropriate, and in coordination with the regional offices, a draft action plan for the platform to address the health effects of climate change initially in small island developing States, and to submit the draft action plan for consideration by the Seventy-second World Health Assembly in

Available at: http://apps.who.int/gb/ ebwha/pdf_files/EB142 /B142(5)-en.pdf



Air Pollution: Facts and Figures

92% of people worldwide breathe unhealthy air

Causes 6.5 million deaths annually

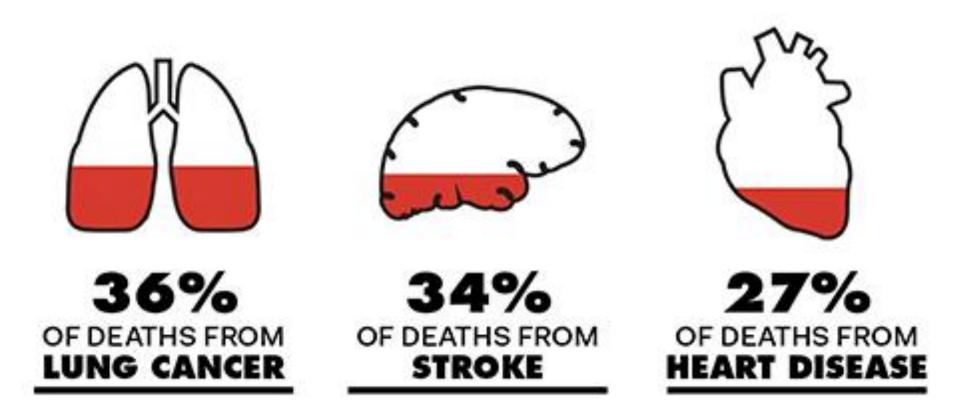
Ambient air quality in **most cities** exceeds recommended WHO levels

Global health and welfare losses in 2013 valued at US\$ 5110 billion, or almost 7% of GDP

Up to 1/3 of deaths from the leading NCDs are due to air pollution

THE INVISIBLE KILLER

Air pollution may not always be visible, but it can be deadly.



FIRST WHO GLOBAL CONFERENCE ON AIR POLLUTION AND HEALTH

IMPROVING AIR QUALITY, COMBATTING CLIMATE CHANGE - SAVING LIVES

30 October – 1 November 2018 WHO Headquarters, Geneva, Switzerland Save the date





Clean Air Healthy Future Healthy Climate

LET'S ACT TOGETHER

BECAUSE THE COST IS FAR TOO HIGH

Air pollution claims 6.5 million lives a year Air pollution is a major driver of the non-communicable disease epidemic Air pollution accelerates climate change

AND WE HAVE SOLUTIONS

Affordable and clean urban, transport, waste & household energy strategies Health, environment & development sectors can lead the way to change

Organized in collaboration with













What does this all mean for countries?



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TimeOut Entertainment	
Lifestyle	
Travel	
Rural	
Driven Motoring	
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Photos	
Puzzles & Quizzes	
Classifieds	
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NEW ZEALAND

Ministry of Health p extreme heat effects warming

30 Jan, 2018 6:08pm



Extremely hot weather is likely to become more common in future, pu community services. Photo / Doug Sherring

By: Dubby Henry Dubby Henry is a reporter for the New Zealand Herald

Dubby.Henry@nzherald.co.nz

Subtropical diseases, heatstroke, fires and flooding are all

climate change - and the Ministry of Health wants to make sure New Zealand is ready.

The ministry has announced it is working on a nationwide Heat Health Plan to help distr health boards and community service providers prepare for hotter summers and the

Human Health Impacts of Climate Change for **New Zealand**

Jacind

Evidence Summary

EXPLORE DISCOVER SHARE



Available at: https://royalsociety.org.nz/assets/documents/Report-Human-Health-Impacts-of-Climate-Change-for-New-Zealand-Oct-2017.pdf



4. Rheumatic Fever (RF) & Rheumatic Heart Disease (RHD)





RF and RHD: Facts and Figures

>300,000 people die annually from RHD:

- most are premature deaths
- in under 40 yo

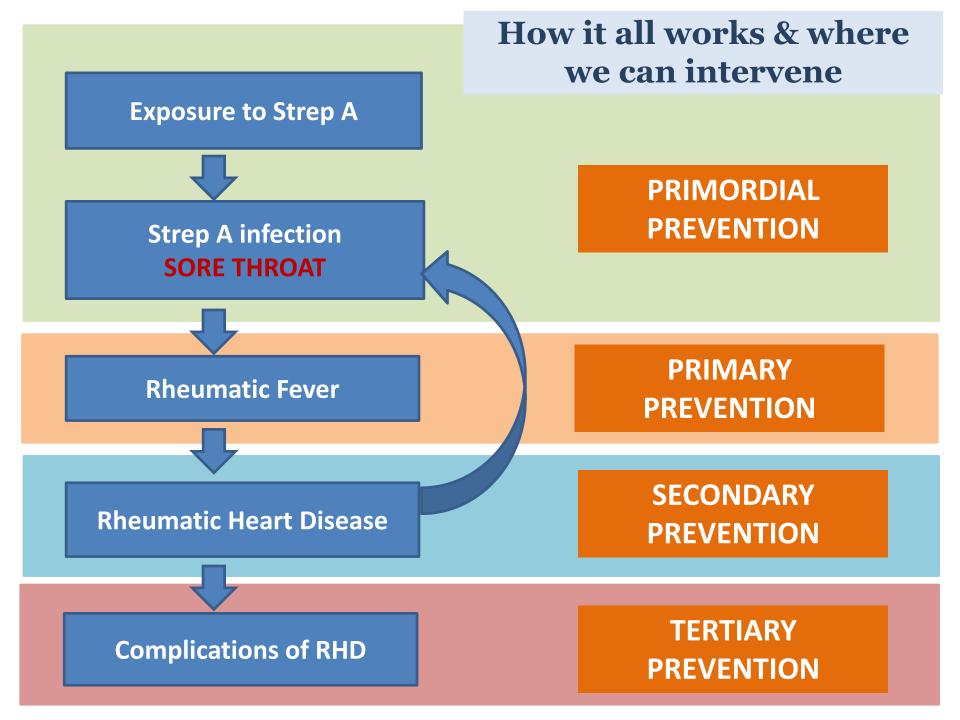
At least 33 million people live with RHD

- vast majority in developing countries
- others in high resource countries, particularly in
 - Indigenous communities
 - other vulnerable populations

Sources:

Watkins D, Johnson C, SM C, et al. Global, region and national burden of rheumatic heart disease 1990 - 2015. NEJM. 2017;377(8):713 - 722.

Zühlke L, Karthikeyan G, Engel ME, et al. Clinical Outcomes in 3343 Children and Adults With Rheumatic Heart Disease From 14 Lowand Middle-Income Countries: Two-Year Follow-Up of the Global Rheumatic Heart Disease Registry (the REMEDY Study). Circulation. 2016;134(19):1456-1466







RHD Resolution Process

- 1. Request from WHF & Pacific & African Member States
- 2. Informal meeting at 69th WHA (May 2016)
- 3. Inter-sessional work:
 - Proposal for inclusion as agenda item
 - Draft resolution
- 4. 70th World Health Assembly (May 2017)
 - Informal Consultation on Draft Resolution
- 5. 141st Executive Board (June 2017)
 - Resolution agreed to go forward to 71st WHA (May 2018)



141st session

Agenda item 6.2

EB141.R1 1 June 2017

Rheumatic fever and rheumatic heart disease

"I want to highlight the importance of intersectoral work. I look at RHD - it is a communicable disease, a non-communicable disease, it affects health systems and primary health care and prevention is done at maternal and child healthcare service. We can get most of the cases prevented... I just want to illustrate RHD as an item. It looks as if it is a standalone disease, but it actually requires so many departments and clusters in order to contribute to reducing the high disease burden affecting all regions. Thirty three million – it is a lot!"

Dr Margaret Chan, speaking to the Executive Board of the World Health Organization on Agenda item 6.2 'Rheumatic Heart Disease' at EB141/4 June 1 2017.

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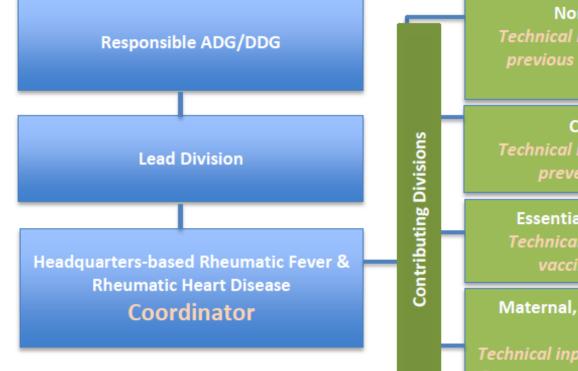
acute rheumatic fever, can substantially reduce morbidity and mortality in a cost-effective way;

Concerned with a lack of reliable access to essential medicines for the prevention and treatment of group A beta baemolytic strentococcal pharmagitic acute theumatic fever and

Available at: http://apps.who.int/gb/ebw ha/pdf_files/EB141/B141_R1 -en.pdf



Proposal for implementing the Resolution



Noncommunicable Diseases Technical input, including experience from previous WHO Rheumatic Heart Disease programme.

Communicable Diseases Technical input, including experience from prevention and control of NTDs.

Essential Medicines and Technologies Technical input, including on medicines, vaccine development, AMR, etc.

Maternal, Newborn, Child and Adolescent Health

Technical input, including linkages to Quality of Care programme and strengthened community engagement work.

Social Determinants of Health/Health in All Policies Technical input, including on housing.

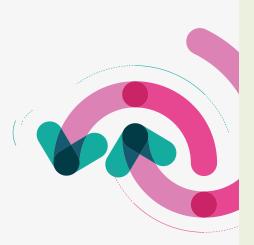


What does this all mean for countries?



5 Antimicrobial Resistance (AMR)





GLOBAL ACTION PLAN

ON ANTIMICROBIAL RESISTANCE



Available at: http://www.who.int/antimicrob ial-resistance/global-actionplan/en/



What does this all mean for

countries?







Ministry for Primary Industries Manatū Ahu Matua



Released August 2017

New Zealand Antimicrobial Resistance Action Plan

Available at:

https://www.health.govt.nz/system/ files/documents/publications/newzealand-antimicrobial-resistanceaction-plan.pdf

New Zealand Government

Released 2017



Contact: Email natasha_murray@moh.govt.nz Phone +64 21 503 497