

# **Zoonotic Diseases Survey**



Given the relevance of zoonoses in the world and to the Americas region, the zoonoses unit within the Pan-American Center for Foot-and-Mouth Disease (PANAFTOSA) of the Pan-American Health Organization (PAHO) is conducting a survey of national zoonotic disease organizations within the Americas region. This survey will help to determine the zoonotic diseases of importance to the region (both EMERGING and ENDEMIC), learn more about active zoonoses programs, and determine the current needs of member states. This information will also be used to prepare a regional assessment regarding the regional needs to emerging zoonotic disease threats, further characterize the regional situation and identify benchmark practices. We hope to strategically prioritize the technical cooperation of PANAFTOSA. Your participation in this survey will greatly assist these efforts.

#### **Survey instructions**

- 1. The survey is made of 36 questions. You can complete the survey online or download it as a PDF file. If you complete the survey as PDF, you can save any progress and continue at a later time. Once you complete the survey online or the PDF file, please click "submit" at the end of the form (after the Glossary).
- 2. The survey targets endemic and emerging zoonoses in your country.
- 3. Please remember to consider the vast variety of zoonoses including those transmitted by food, wildlife, etc. This is critical so your responses clearly reflect the priorities of your country.
- 4. A glossary of terms is located at the end of the form.
- 5. The survey comprises different sections that may require the input of more than one person. However, we advise that one person coordinate the form's completion and submission.
- 6. The time estimated for completing the survey is around one hour
- 7. We kindly ask you to return the form by February 13, 2015
- 8. No countries will be identified; all results will be presented in an aggregated format and the data will be kept confidential.

The survey presents an ideal situation and aims to identify the regional position against the highest standards for zoonoses surveillance and control. This is very difficult to attain in practice. As a result, you may not be able to respond to some of the questions. This is intentional. We thank you for your understanding.

If you have any doubts or questions about the survey or its completion, please contact us at the following email addresses: Victor Del Rio (vdelrio@paho.org) and Melody Maxwell (mmaxwell@paho.org).

Thank you for your time.

PANAFTOSA Zoonoses Unit

### Section I Demographics

- 1. Country
- 2. Organization/Affiliation (e.g. Ministry of Health; Ministry of Agriculture)
- 3. Department within Organization
- 4. Name of the Person Coordinating the Completion of the Whole Form
- 5. Position within the Organization
- 6. Email of the Person Coordinating the Completion of the Whole Form
- 7. Telephone Number (including the country code and city code) of the Person Coordinating the Completion of the Whole Form

#### **Section II Resources**

8. Does your Ministry have a specific zoonoses group/department/division?

Yes, we have one specific unit for zoonotic diseases

Yes, but we are separated further (e.g. vector-borne diseases, or food-borne zoonoses, etc)

No

N/A, please specify why:

- 9. Please provide the budget available for zoonotic diseases (even if you don't have a specific zoonoses unit) in 2014 (in thousands of US \$). We recognize that in many countries health-related funds are decentralized. We are NOT asking for these. We only ask for those directly administered at the national level within the country's Ministry. Please provide details in thousands of US \$ for:
- 9.1. Personnel (e.g. \$700,000):
- 9.2. Program Activities (e.g. surveillance, control, etc) (e.g. \$120,000):
- 9.3. Others (e.g. \$16,000):
- 9.4. N/A, please describe why:
- 10. How many full time equivalent personnel work on zoonotic diseases for the following categories in your ministry? For example, if there are three full time technical staff and one half time technical staff, enter 3.5.

10.1. Senior management (e.g. zoonoses coordination)

10.2. Technical staff (non-managerial role)

10.3 Administrative staff

#### **Section III Priorities**

# Questions 11 to 19 refer specifically to ENDEMIC zoonoses (that is, those already present in your country)

We understand that there are different levels at which disease prioritization can be performed (for all diseases, for communicable diseases only, for zoonoses only). We only want to know if zoonoses are prioritized, either as part of a larger prioritization exercise or not, and which zoonoses are most important to your country. We also understand that ideally the criteria for prioritization should be the same for all diseases, however, we provide options for each zoonosis in case different approaches were followed.

11. Does your Ministry conduct a **formal**, i.e .planned, collaborative and representative, prioritization exercise leading to the identification and ranking of the endemic zoonoses most important to your country?

Yes

No

Other (please describe):

- 12. Based on the formal prioritization, as in question 11, please list your top three <a href="endemic">endemic</a> zoonoses (please consider foodborne, vector-borne, wildlife, etc) from most important to least important reflecting the <a href="eurrent">current</a> priorities for your <a href="eorganization">organization</a>. If you answered "No" to question 11, please provide the three <a href="endemic">endemic</a> zoonoses that you consider priority based on your experience. Please be as specific as possible and list genus, species, and subspecies if possible (e.g. \*Escherichia coli\*\* O157:H7).

  12.1. Top priority endemic zoonosis

  12.2. Second priority endemic zoonosis
- 12.3. Third priority endemic zoonosis
- 13.1. Either based on your experience, or from the formal prioritization exercise conducted by your Ministry, as per your answer to question 11, please describe what criteria you used to rank the **first** priority endemic zoonosis in your country (as in question 12.1). Please tick all the criteria that apply

Human prevalenceHuman incidenceSeverity in humansHuman mortalityDALYsSociety impactAnimal/Herd prevalenceAnimal/Herd IncidenceAnimal mortalityAnimal welfarePublic opinionEconomic impact

Other (please describe)

13.2. Either based on your experience, or from the formal prioritization exercise conducted by your Ministry, as per your answer to question 11, please describe what criteria you used to rank the **second** priority endemic zoonosis in your country (as in question 12.2). Please tick all the criteria that apply

Human prevalenceHuman incidenceSeverity in humansHuman mortalityDALYsSociety impactAnimal/Herd prevalenceAnimal/Herd IncidenceAnimal mortalityAnimal welfarePublic opinionEconomic impact

Other (please describe)

13.3. Either based on your experience, or from the formal prioritization exercise conducted by your Ministry, as per your answer to question 11, please describe what criteria you used to rank the **third** priority endemic zoonosis in your country (as in question 12.3). Please tick all the criteria that apply

Human prevalenceHuman incidenceSeverity in humansHuman mortalityDALYsSociety impactAnimal/Herd prevalenceAnimal/Herd IncidenceAnimal mortalityAnimal welfarePublic opinionEconomic impact

Other (please describe)

- 14. If your Ministry used more than one criteria to prioritize the endemic zoonoses, please describe how (i.e. what method) your Ministry combined the multiple criteria (e.g. subject matter expert consensus, multi-criteria-decision-analysis techniques). Otherwise, write "NA"
- 15. How often does your organization prioritize endemic zoonoses?. If your organization does not formally prioritize endemic zoonoses, please select "N/A".

Every year

Every 2 years

Every 3 years

N/A

Other please describe:

	the Ministry of Health, animal for the Ministry of Ag	
16.1. For the most important endemic zoonosis	16.2. For the second most important endemic zoonosis	16.3. For the third most important endemic zoonosis
Yes	Yes	Yes
No	No	No
Other (describe)	Other (describe)	Other (describe)
	(e.g. disease surveillance, laboratory diagnostic fa in your country for your priority <b>endemic</b> zoonoses	
17.1 For your top endemic zoonosis (	just the most important capacity)	
17.2 For your second most important	endemic zoonosis (just the most important capacit	у)
17.3. For the third most important end	demic zoonosis (just the most important capacity)	
	cross-cutting capacity (i.e. <u>not disease specific</u> ) to es (e.g. better integration with other stakeholders, e	
	lum of Understanding or other form of formal agree lealth) for the coordinated prediction, prevention, do se tick all that apply.	
For the top priority endemic zoond	osis	
For the second priority endemic zo	oonosis	
For the third priority endemic zoon	nosis	
Other (please describe)		
Questions 20 to 26 refer to EM	ERGING/EXOTIC zoonoses (that is, those	not currently present in your country)
	ioritized jointly endemic and emerging zoonoses. High properties are as a sing zoonoses, and their prioritization criteria are as	
	mal, i.e .planned, collaborative and representative, ging zoonoses most important to your country?	prioritization exercise leading to the
Yes		
No		

Other (please describe)

20.1 Does the prioritization of emerging/exotic zoonoses consider the following criteria? Tick all that apply. If you answered "No" to question 20, please select "NA".
probability of introduction to your country impact
Risk pathways for the introduction of the disease to your country  NA
other criteria (please describe)
21. Based on the latest prioritization, as answered in question 20, please list your top three <b>emerging</b> zoonoses from most important to least important for your <b>organization</b> . If you answered "NO" to question 20, please provide the three emerging zoonoses that you consider priority based on your experience. Please be as specific as possible and list genus, species, and subspecies if possible.
21.1 <b>Most</b> important <b>emerging</b> zoonosis
21.2 <b>Second</b> most important <b>emerging</b> zoonosis
21.3 <b>Third</b> most important <b>emerging</b> zoonosis
22. Either based on your experience, or from the latest formal prioritization conducted by your Ministry, please describe the probability of introduction to your country for the three top <b>emerging</b> zoonoses. If your Ministry did not elicit the probability of introduction, and you do not want to provide this information in your personal capacity, please select option "NA" below.
22.1 For the <b>most</b> important emerging zoonosis (as answered in question 21.1)
22.2 Please describe the time frame in which the probability in 22.1. applies.
22.3 For the <b>second</b> most important emerging zoonoses (as answered in question 21.2)
22.4 Please describe the time frame in which the probability in 22.3. applies.
22.5 For the <b>third</b> most important emerging zoonoses (as answered in question 21.3)
22.6 Please describe the time frame in which the probability in 22.5 applies.
23. Either based on your experience, or from the latest formal prioritization conducted by your Ministry please describe what impact/s were considered to rank the three top <b>emerging</b> zoonoses. If your Ministry did not elicit the impact, and you do not want to provide this information in your personal capacity, please select option "NA" below. Please select all options that apply.
23.1 For the <b>most</b> important emerging zoonosis (as in question 21.1)
Impact on public health
Impact on society
Impact on economy
Impact on environment
Impact on public opinion  NA
Others (Please specify)

Impact on public health
Impact on society
Impact on economy
Impact on environment
Impact on public opinion
NA NA
Others (Please specify)
23.3 For the <b>third</b> most important emerging zoonosis (as in question 21.3)
Impact on public health
Impact on society
Impact on economy
Impact on environment
Impact on public opinion
NA
Others (please specify)
24. Either based on your experience, or from the latest formal prioritization conducted by your Ministry please describe the <u>most</u> <u>important</u> risk pathway for the introduction to your country for the three top <b>emerging</b> zoonoses. If your Ministry did not elicit the rispathways, and you do not want to provide this information in your personal capacity, please write "N/A".
24.1 For the <b>most</b> important emerging zoonosis (as in question 21.1), please describe the most important risk pathway
24.2 For the <b>second</b> most important emerging zoonosis (as in question 21.2), please describe the most important risk pathway
24.3 For the <b>third</b> most important emerging zoonosis (as in question 21.3), please describe the most important risk pathway
25. Which disease energing connects (e.g. disease curveillance laborators diagnostic facilities, coordination of stakeholders) are year
25. Which <u>disease-specific</u> capacity (e.g. disease surveillance, laboratory diagnostic facilities, coordination of stakeholders) are you most interested in developing further in your country for your priority <b>emerging</b> zoonoses.
25.1 Top priority capacity to develop further for the <b>most</b> important emerging zoonoses (as in 21.1):
23.1 Top phonty capacity to develop future for the <b>most</b> important enlerging 20010ses (as in 21.1).
25.2 Top priority capacity to develop further for the <b>second</b> most important emerging zoonoses (as in 21.2):
20.2 Top phoney departed to develop further for the <b>3600 ha</b> most important emerging 200 hoses (as in 21.2).
25.3 Top priority capacity to develop further for the <b>third</b> most important emerging zoonoses (as in 21.3):

23.2 For the **second** most important emerging zoonosis (as in question 21.2)

26. Do you have a current Memorandum of Understanding or other form of formal agreement with other government ministries (ie Ministry of Agriculture or Ministry of Health) for the coordinated prediction, prevention, detection and intervention of the three most important <b>emerging</b> zoonoses? (Select all that apply)
For the top priority emerging zoonosis
For the second priority emerging zoonosis
For the third priority emerging zoonosis
Other (please describe)
27. Do you have up-to-date contingency/emergency preparedness plans for the introduction of emerging zoonoses? Tick all that apply
Yes, for the top priority emerging zoonosis
Yes, for the second priority emerging zoonosis
Yes, for the third priority emerging zoonosis
28. Have you conducted a simulation exercise of the introduction of emerging zoonoses in your country in the last five years? Tick all that apply.
Yes, for the top priority emerging zoonoses
Yes, for the second priority emerging zoonoses
Yes, for the third priority emerging zoonoses
Section IV: General Section
Section IV: General Section  29. Do you consider equity issues in your definition of priorities and allocation of resources against emerging and/or endemic zoonoses? That is, do you adjust the ranking of diseases for the fact that most zoonoses affects under-developed populations?  Yes  No  N/A  If yes, please describe below.
29. Do you consider equity issues in your definition of priorities and allocation of resources against <b>emerging and/or endemic</b> zoonoses? That is, do you adjust the ranking of diseases for the fact that most zoonoses affects under-developed populations?  Yes  No  N/A
<ul> <li>29. Do you consider equity issues in your definition of priorities and allocation of resources against emerging and/or endemic zoonoses? That is, do you adjust the ranking of diseases for the fact that most zoonoses affects under-developed populations?  Yes  No  N/A  If yes, please describe below.</li> <li>30. Are you currently conducting syndromic surveillance targeted at earlier or more sensitive detection of any of the zoonoses above, either endemic or emerging? If yes, please indicate for which zoonoses below.  Yes</li> </ul>

33. Specifically for the prediction, detection, prevention, and intervention of endemic and/or emerging zoonotic diseases, with who does your Ministry have a current formal agreement (e.g. a contract, Memorandum of Understanding, a written plan with clear roles and responsibilities)? Please select all that apply.	
<ul> <li>i) Universities (e.g. to support technical advice)</li> <li>ii) NGOs (e.g. to support community-based interventions)</li> <li>iii) private sector</li> <li>iv) others (please describe)</li> </ul>	
34. What value would you allocate to a regular report (e.g. annually) about the occurrence of zoonoses in the Americas region, the status of capacities, etc. reflecting the information collected in this questionnaire? Please select one option.  Of great value  Of high value  Of some value  Of little value  Of no value	
35. What other type of information would you like included in this report?	
36. We are currently witnessing the transnational occurrence of a number of zoonotic conditions in the world, e.g. Chikungunya, MERS-CoV, Ebola and others. In your opinion, from a zoonoses programme perspective, what is <b>the most critical development</b> that the <b>American region</b> requires to prevent the occurrence and spread of conditions like these? (e.g. better communication and collaboration between countries, formal network between countries, integrated surveillance between countries, etc)	

32. How would you improve your coordination and collaboration with the Ministry of Health/Agriculture?

## **Section V: Glossary**

Administrative Staff: staff which assist in completing the organization's primary goals but have not completed education specific to these tasks; examples include secretaries, human resources, etc.

DALYs: disability-adjusted life year; the loss of one healthy year of life due to illness, disability, or premature mortality

Emerging: these are diseases which are not present in your country, also can be described as exotic

Endemic: these are diseases which are already present in your country

Equity: fairness or justice in the way people are treated

**Memorandum of Understanding**: formal, written agreement between organizations regarding coordination of activities; used here synonymously with national strategy, framework, action plan, mandate, agreement, etc.

Prioritize: to organize so that the most important thing is done or dealt with first

Risk Pathway: how a disease can or will enter the country or region

Technical Staff: staff trained in the technical aspects specific to the goals of the program; an example would be epidemiologists

Transnational: ability to affect multiple nations or move from nation to nation