

## APPENDIX 1:

# Survey on child environmental health awareness of health care professionals

### Instructions to the organizers

This questionnaire is designed to examine and evaluate the level of information possessed by health professionals in regard to environmental threats affecting children's health.

It is recommended that the organizers read the questions and tailor them to the local context, and characteristics and professional backgrounds of the workshop participants.

The questionnaire should take around 15 minutes to complete. As an alternative, you can opt to select a few questions from the set provided herein that, in your opinion, will best evaluate the trainees' awareness of children's environmental health issues.

An example of the questionnaire follows, containing:

- i. Introduction
- ii. Characteristics of the survey
- iii. A set of 20 questions to assess the level of information and perception of trainees
- iv. A set of 12 questions on the professional background of trainees

To maximize the information provided by this questionnaire, it is recommended that you:

- Undertake the assessment on the day of the scheduled training/workshop, just before you begin the module presentations. During the workshop, a team should be available to assess the responses and provide feedback to presenters so they may emphasize or address the knowledge gaps highlighted through the responses.

OR

- Send out the questionnaire to participants and collect and collate responses prior to the training. Inform presenters of the existing knowledge gaps so that the modules address these effectively.

The original version of this survey was jointly developed by the Argentinean Society of Doctors for the Environment (AAMMA-ISDE), the Canadian Institute of Child Health (CICH), the Argentinean Society of Paediatrics (SAP) and the Ministry of Health and Environment of Argentina in 2004.

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## Assessing child environmental health issues as perceived by health care professionals

### Example of letter addressed to event participants

Dear Colleagues,

A number of diseases in children from both rural and urban areas are linked to unsafe and degrading environments. However, many health care providers may be unable to recognize, assess and manage environment-related diseases in children. In other instances, health care providers may recognize environment-related diseases, but feel that they are not in a position to induce change.

How do we address these problems? We can raise awareness about the importance of links between environment and health and enable those on the front line, the health professionals dealing with child and adolescent health, to recognize, assess and mitigate or prevent diseases linked to or triggered by environmental factors. Paediatricians, family doctors, nurses, primary care workers and other health care workers, as well as medical and nursing students, can now be trained on the relationship between children's health and the environment through the use of harmonized, internationally peer-reviewed training materials prepared by WHO in partnership with the International Pediatric Association, selected NGOs and experts from over 15 countries. Such materials and the topics addressed are adaptable to the specific needs of countries and professional groups and serve as the basis for interaction and dialogue among participants.

A **[insert length]** training seminar is being held in **[insert place]**, organized by ....., under the auspices of **[Minister of Health and/or Environment, or other]** and in collaboration with ..... During this workshop, **[paediatricians, nurses, primary health care workers, environmental officers, etc.]** will learn about **[insert topics relevant to chosen modules]**. Moreover, discussions will take place on how health care providers, as well as policy-makers, can work together to help improve the environment for tomorrow's children.

Thank you for your collaboration.

## SURVEY: Example questions

### Section I: Knowledge on children's health and environment

1. What information do you have on children's environmental health issues?
  - A lot of information
  - Some information
  - No information (go to question 4)
  
2. If you selected, a lot or some information, how did you receive it?  
(please check all that apply)
  - Courses/workshops
  - Conferences
  - Distance learning
  - Articles
  - Magazines
  - Internet
  - Other (please specify): \_\_\_\_\_
  
3. If you selected a lot or some information, on what issues did you receive information?  
(please check all that apply)
  - Household air pollution (indoor)
  - Ambient air pollution (outdoor)
  - Childhood injuries
  - Waste disposal
  - Water pollution
  - Industrial pollutants
  - Lead
  - Mercury
  - Use of pesticides
  - Electromagnetic fields
  - Noise
  - Food contamination
  - Mobility and transport

- Endocrine disruptors
- Other chemicals (please specify): \_\_\_\_\_
- Other (please specify): \_\_\_\_\_

4. Are you aware of the association between child exposure to environmental risk factors and illness? Examples of environments of exposure include household, school, street and play areas.

- Yes, please specify how you have become aware: \_\_\_\_\_
- No, please specify why: \_\_\_\_\_

## Section II: Professional experience

5. When conducting a clinical history, do you gather information about the environment where the child lives, grows, plays and studies?

- Frequently
- Occasionally
- Never
- Not applicable

6. How often do you receive questions from parents regarding the following children's health and environmental issues?

(please indicate: **1** - often; **2** - sometimes; **3** - never; **0** - I don't know)

- Household air pollution (burning of wood and other solid fuels, tobacco smoke, allergens in the household)
- Ambient air pollution (air pollution from traffic, waste burning/ incineration, dust and others)
- Childhood injuries
- Waste disposal
- Water pollution (biologic and chemical)
- Industrial pollutants
- Lead
- Mercury
- Use of pesticides
- Electromagnetic fields
- Noise
- Food contamination
- Mobility and transport
- Endocrine disruptors

Other chemicals (please specify): \_\_\_\_\_

Other (please specify): \_\_\_\_\_

7. Based on your experience, which of the following health problems affecting children could be associated with negative environmental factors?

Please indicate:

**1** – Often

**2** – Sometimes

**3** – Never

**0** – Unsure

Boys	Girls	
		Respiratory illnesses
		Preterm birth
		Learning disabilities and neurological problems
		Developmental problems
		Skin problems
		Cancer, lymphoma, leukaemia
		Poisonings
		Endocrine disruptions
		Genetic malformations
		Nutritional problems
		Unintentional injuries
		Others (please specify): _____

### Section III: Specific environmental risk factors

8. Based on your experience, where are children most likely to be exposed to chemical environmental hazards?

- Please indicate:
- 1** – Often
  - 2** – Sometimes
  - 3** – Never
  - 0** – Unsure

Boys	Girls	
		Home
		Streets
		Recreational areas
		School
		Rural areas/farms
		Parent's workplace
		Child's workplace
		Others (please specify): _____

9. Based on your experience, which of the following indoor air pollutants affect children's health?

- Please indicate:
- 1** – Often
  - 2** – Sometimes
  - 3** – Never
  - 0** – Unsure

- Combustion products, (gas, wood and others)
- Volatile compounds from household products and solvents
- Construction materials (asbestos, dust and others)
- Pesticides (insecticides, fungicides, herbicides and rodenticides)
- Tobacco smoke

Moulds, animal hair, dust mites, humidity

Others, specify: \_\_\_\_\_

10. Based on your experience, which of the following outdoor air pollutants affect children's health?

Please indicate:           **1** – Often  
                                      **2** – Sometimes  
                                      **3** – Never  
                                      **0** – Unsure

Combustion products from traffic (particle matter and exhaust)

Pollutants from industrial activities (heavy metals, volatile chemicals, etc.)

Particles and dust (silos, building material, demolitions and others)

Open burning of garbage

Pesticides (insecticides, fungicides, herbicides and rat poison)

Others (please specify): \_\_\_\_\_

11. Based on your experience, which of the following drinking water pollutants affect children's health?

Please indicate:           **1** – Often  
                                      **2** – Sometimes  
                                      **3** – Never  
                                      **0** – Unsure

Biologic contaminants (parasites, bacteria, viruses)

Natural chemical pollution (arsenic and others)

Industrial chemical pollution (mining, chemical waste and others)

Agrochemicals (pesticides and fertilizers)

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预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_25171](https://www.yunbaogao.cn/report/index/report?reportId=5_25171)

