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**Economic and Social Commission for Western Asia (ESCWA)**

United Nations Development Account Project on Developing the Capacities of the Arab Countries for Climate Change Adaptation by Applying Integrated Water Resources Management Tools

Expert Workshop on Developing the Capacities of the Health Sector for Climate Change Adaptation to Protect Health from the Climate Change Effects on Freshwater Resources  
Amman, 19-21 April 2016

**AGENDA**

*Day 1: Tuesday, 19 April 2016*

8:45 – 9:00 **Registration**

*Please bring your passport, visa stamp and airline ticket stub with you to the meeting.*

9:00 – 10:00 **Opening and Introduction**

Moderator: *Mr. Tarek Sadek, First Economic Affairs Officer, Water Resources Section, Sustainable Development Policies Division, United Nations Economic and Social Commission for Western Asia*

- Ms. Roula Majdalani, Director, Sustainable Development Policies Division, United Nations Economic and Social Commission for Western Asia (ESCWA)
- Mr. Basel Al-Yousfi, Director, Eastern Mediterranean Regional Office/Centre for Environmental Health Action (CEHA), World Health Organization (WHO)

**Tour de Table**

- Overview on the UNDA Project and the Training Modules – *Mr. Tarek Sadek, ESCWA*
- Objectives of the Workshop and Review of the Agenda – *Mr. Munjed Al Sharif, Dean, School of Natural Resources Engineering, Department of Water and Environmental Engineering, German Jordanian University, WHO Consultant*

Discussion

10:00 – 11:00 **Session 1: Using RICCAR Outputs to inform Climate Change Adaptation related to Health in the Arab Region**

Moderator: *Mr. Tarek Sadek, ESCWA*

- Overview of the Regional Initiative for the Assessment of the Impact of Climate Change on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR) and the Integrated Assessment Methodology – *Ms. Carol Chouchani Cherfane, Chief, Water Resources Section, Sustainable Development Policies Division, ESCWA*
- Projected Impacts of Changes in Temperature, Precipitation, Wind, Dry Conditions and Extreme Events on Health – *Mr. Munjed Al Sharif, WHO Consultant*

Tuesday, 19 April 2016, continued

Discussion

11:00 – 11:30 Coffee break

11:30 – 12:00 **Session 2: WHO's Interventions in Adaptation to Protect Health from Climate Change Effects on Water Resources**

Presenter: *Mr. Hamid Bakir, Coordinator, Environmental Health Interventions Unit and Regional Advisor for WSH, Climate and Health, Centre for Environmental Health Action, Eastern Mediterranean Regional Office, WHO*

- WHO's Framework for Adaptation to Protect Health from Climate Change Effects on Water Resources
- Overview of WHO's Regional Projects on Adaptation to Protect Health from Climate Change Effects on Water Resources

12:00 – 13:00 **Session 3: Framing Climate Change Impacts on Water Resources and Health**

Moderator: *Mr. Yousef Al Gauod, Dean, Faculty of Applied Medical Sciences, Department of Community Medicine, Public Health and Family Medicine, Faculty of Medicine, Jordan*

Presenter: *Mr. Munjed Al Sharif, WHO Consultant*

- Impacts of Climate Change on Water Resources
- Impacts of Climate Change on Health

13:00 – 14:30 Lunch Break

14:30 – 15:30 **Session 4: Framing Climate Change Impacts on Water and Health**

Moderator: *Mr. Hamed Bakir, WHO*

Presenter: *Mr. Yousef Al Gauod, Health Expert*

- Linkages between the Impact of Climate Change on Water Resources and Health

Discussion

15:30 – 16:00 Coffee Break

16:0 – 17:00 **Session 5: Framing Climate Change Impacts on Water and Health**

Moderator: *Mr. Yousef Al-Gauod, Health Expert*

- Exercise and Overview

17:00 End of Day 1

**Day 2: Wednesday, 20 April 2016**

- 9:00 – 10:15      **Session 6: Impact and Vulnerability Assessment of the Health Sector**  
Moderator: *Mr. Munjed Al Sharif, WHO Consultant*  
Presenter: *Mr. Yousef Al Gauod, Health Expert*
- RICCAR Indicators and Outputs that Feed into the Identification of Adaptation Measures
  - Vulnerability Assessment tools of the Health Sector to Climate Change Impacts
- Presenter: *Mr. Habib Ben Boubaker, Professor, Department of Geography, University of Manouba, Tunisia*
- Climate Change and Health Impacts in Arab Region: Case of Tunisia
- Discussion
- 10:15 – 10:30      **Session 7: Impact and Vulnerability Assessment of the Health Sector (continued)**
- Exercise
- Discussion
- 10:30 – 11:00      Coffee Break
- 11:00 – 12:00      **Session 8: Identification of Adaptation Measures and IWRM Tools and Options for the Health Sector**  
Moderator: *Mr. Munjed Al Sharif, WHO Consultant*  
Presenter: *Mr. Yousef Al Gauod, Health Expert*
- Stocktaking for Available Adaptation Measure for National and Regional Needs
  - Evaluation and Prioritizing the Proposed Adaptation Measures and the Selection Criteria
- 12:00 – 13:00      **Session 9: Identification of Adaptation Measures and Options (IWRM tools) for the Health Sector (continued)**
- Exercise
- Discussion
- 13:00 – 14:30      Lunch Break
- 14:30 – 15:30      **Session 10: Adaptation Measures Implementation Matrix**  
Moderator: *Mr. Yousef Al Gauod, Health Expert*  
Presenter: *Mr. Munjed Al Sharif, WHO Consultant*
- Institutional and Legislative Setup Analysis and Assessment for Adaptation Implementation Plan

Wednesday, 20 April 2016, continued

15:30 – 16:00 Coffee Break

16:00 – 17:00 **Session 11: Adaptation Measures Implementation Matrix (continued)**

Moderator: *Mr. Munjed Al Sharif, WHO Consultant*

Presenter: *Mr. Yousef Al Gauod, Health Expert*

- Overview and Exercise

Discussion

17:00 End of Day 2

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**Day 3: Thursday, 21 April 2016**

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9:00 – 10:30 **Session 12: Identification of Barriers to Adaptation to Climate Change**

Moderator: *Mr. Yousef Al Gauod, Health Expert*

Presenter: *Mr. Munjed Al Sharif, WHO Consultant*

- Overview and Exercise

Discussion

10:30 – 11:30 **Session 13: Country Presentations of Case Studies on Adaptation Programs with Emphasis on Health from the North Africa Region**

Moderator: *Mr. Yousef Al Gauod, Health Expert*

- Health Sector Adaptation on Climate Change: National strategy of Morocco – *Mr. Rachid Wahabi, Head of Environmental Health Department, Directorate of Epidemiology and Diseases Control, Ministry of Health, Morocco*
- Climate Change and Health in Egypt: A Case Study and Recent Trends for Adaptation – *Ms. Salwa Hafez Fahmy, Associate Professor, Occupational and Environmental Medicine Department, National Research Centre, AWARENET Member, Egypt*
- An Overview of Climate Change Impacts on Water Resources in Tunisia: The Role of Research for Sustainable Strategies – *Ms. Soulwene Kouki, Assistant Professor and Mr. Mohamed Kefi, Assistant Professor, Water Research and Technologies Centre (CERTE), Ministry of Higher Education and Scientific Research, AWARENET Members, Tunisia*
- Impacts of Climate Change on Health in Egypt – *prepared by Mr. Tarek Abd El-Aziz, Deputy Director, Nile Research Institute, National Water Research Centre, AWARENET Member, Egypt; presented by Ms. Salwa Hafez Fahmy, AWARENET Member, Egypt*
- *Interventions by other countries representatives and participants*

11:30 – 12:00 Coffee Break

Thursday, 21 April 2016, continued

12:00 – 13:00 **Session 14: Country Presentations of Case Studies on Adaptation Programs with Emphasis on Health from the Gulf and the Mashreq Regions**

Moderator: *Mr. Munjed Al Sharif, WHO Consultant*

- Health Impacts of Irrigation with Treated Waste Water as an Adaptive Measure to Climate Change – *Mr. Sami Sheikh Ali, Head of Data Management Department, Communicable Diseases Directorate, Ministry of Health, Jordan*
- Adaptation Plans and Climate Change Impacts on the Health Sector in Iraq: A Case Study on Post Mosul Dam collapse – *Mr. Ramadhan Hamza Mohammed, Section Chief, Health and Safety of Environment Directorate, Faculty Member, University of Duhok, AWARENET Member, Iraq*
- Climatic Parameters Variability and Climate Change in Lebanon – *Mr. Jalal Halwani, Professor, Public Health Faculty, Health and Environment Department, Lebanese University, AWARENET Member, Lebanon*
- *Interventions by other country representatives and participants*

13:00 – 14:30 Lunch Break

14:30 – 15:45 **Session 15: Areas for Action: Suggestions for Follow-up**

Moderator: *Mr. Munjed Al Sharif, WHO Consultant*

Presenter: *Mr. Yousef Al Gauod, Health Expert*

- Following up on Adaptation Programs Development at the Global Policy Level
- Following up on Adaptation Programs Development at the National Policy Level
- Exercise

15:45 – 16:15 Coffee Break

16:15 – 16:45 **Session 16: Areas for Action: Suggestions for Follow-up (continued)**

- General Discussion and Conclusions

16:45 – 17:00 Closing Session

- WHO Closing Statement
- ESCWA Closing Statement

17:00 End of Workshop