

**Chittagong Declaration on
“One World One Health”-Bangladesh
Initiative**

**From the Experience of
The Sixth Annual Scientific Conference of
CVASU on “Changing World and Emerging
Challenges: One World, One Health Approach”**

**Date: 4-6 March 2008
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**Chittagong Veterinary and
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“One World One Health”-Bangladesh Initiative**

Preface

We are entering through a crucial time; biodegradation, destruction of natural ecosystems and industrialization are fostering the reemergence and emergence of many new diseases with pandemic threats. Interestingly, greater than 75% of these diseases have a proven chain of transmission between humans and animals. These diseases have huge impact on public health, food security, environmental pollution and global economy. The global community is trying to address the ongoing challenges of these health problems. Complexity of the epidemiologic patterns of the emerging diseases is a major obstacle in tackling them and therefore requires different schools of thought and disciplines to work together. Paradigms of the narrow disciplinary approaches need to be changed for the greater interest of humans, animals and Mother Nature.

Chittagong Veterinary and Animal Sciences University (CVASU) is a new name in the academic domain of Bangladesh. Nevertheless, its pragmatic activities are being well-praised. Since the inception of CVASU it has a particular mission to ameliorate public threats being posed by the emergence of deadly zoonotic diseases in Bangladesh. From this realization, CVASU have taken initiative to march, along side the on-going global concern of the “One health”.

CVASU took an initiative to open a discussion on the “One Health” concept with experts from partner organizations such as Institute of Epidemiology, Disease Control and Research (IEDCR), International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR’B), Bangladesh Agricultural University (BAU), Department of Agricultural Extension, Department of Livestock Services (DLS), Bangladesh Poribesh Andolon (BAPA), Bangabandhu Sheikh Mujib Medical University (BSMMU), Department of Forestry, IUCN, Bangladesh, Institute of Food and Radiation Biology (IFRB, BAEC). That discussion led to a formal meeting on 22 November 2007 at IEDCR in which a consensus was developed among the members present from the above mentioned organizations to form a forum called “One World, One Health - Bangladesh Initiative”. It was also decided that the main objective of this forum would be to promote the concept of “One World, One Health” in Bangladesh and remain connected with the global movement. The first meeting and the meetings held in December 2007 decided to hold a conference jointly by the CVASU and One World, One Health - Bangladesh Initiative. The consequence of these meetings is the conference on “Changing World and Emerging Challenges: A One World, One Health Approach” held on 4-6 March in Chittagong at Hotel Agrabad.

The “Chittagong Declaration” described below represents CVASU and One World, One Health - Bangladesh Initiative’s intention to publicize its

Aims & Objectives. The Declaration delineates a clearer view and guidelines for adoption of the “One health” concept in Bangladesh to harmonize with the global movement. One world, one health-Bangladesh initiative (OWOH-BI) would welcome any constructive criticism for redefining its scopes. Initially, it hopes to form an alliance at the national level, and later would broaden the horizon of the movement to harmonize and actively participate at both regional and international levels.

Chittagong Declaration Preamble

- Noting that health is a fundamental issue for human communities, livestock productivity, wild life biodiversity and plant crops.
- Observing that the recent zoonotic disease outbreaks of Avian Influenza ,Nipah Virus infections in Bangladesh and those in other countries like West Nile Virus, Ebola Hemorrhagic Fever, SARS, Monkey pox, Mad Cow Disease remind us that human and animal health are intimately connected.
- Realizing that human and animals have a evolutionary social bondage, “Recognizing that human and animal health and mental health (via the human-animal bond phenomenon) are inextricably linked;
- Recognizing changes in the host range of the diseases;
- Recognizing that, Avian Influenza is presently posing a serious pandemic threat;
- Recognizing the flora and fauna, host, environment and disease agents interact and have intimate dependence within ecosystems;
- Realizing that, industrialization, change in living pattern, biodegradation, environmental

pollution, changes in host adoptability are making the epidemiological pattern of a disease more and more complex;

- Recognizing that decisions regarding land and water uses have real implications for health.
- Realizing that alterations in the resilience of ecosystems and shifts in patterns of disease emergence and spread manifest themselves when we fail to recognize this relationship.
- Observing the limitation of the narrow single disciplinary approach and the success of holistic cross-sectional approach;
- Noting that large-scale investment in the livestock and food industries inspired by industrialization lead to centralized decision making;
- Observing that commercial approach has led to structural intervention and that these interventions require some regulatory mechanism;
- Realizing that collaboration between the Government, higher educational institutions, research organizations, non governmental organizations and local people is essential to face all emerging environmental and health issues.

- Observing the success of the developed countries in mitigating the environmental and health issues through holistic approach;
- Observing the enthusiasm for holistic approach among man, animals and plants as well as allied health and environmental professionals;
- Realizing that adequate support and resources are required for establishment of identification, reporting system, emergence preparedness and surveillance;
- Recognizing that investment is requiring in educating and raising awareness among the people about the ongoing threat and saving them from unnecessary social havoc;
- Taking an example of success of integrated approach, in the spring of 1979, an unusual epidemic of anthrax occurred in the city of Sverdlovsk, 1400 miles east of Moscow. From the beginning, the investigation team took a “One Health” approach with human medicine and veterinary medicine professionals working side by side to investigate both human and animal cases of anthrax that had occurred. The success of the “One Health” approach used in this investigation underscores the urgent need for human and veterinary medical health professionals to work cooperatively on “shared risk” issues emanating from bioterrorism agents, most of which are zoonotic in origin.

Physicians, a veterinarian and allied health scientists worked synergistically in tandem!

- Understanding that no individual discipline has enough resources and manpower to prevent this emergence and resurgence of the diseases and no one organization and nation will be able to change the habitat and restore the damages made so far;
- Noting that the recently concluded International conference on **“Changing world and emerging challenges: one world, one health approach”**, held on March 4-6, 2008 in Chittagong, Bangladesh, brought together medical, veterinary, fisheries, crop science and environment experts and activists from home and abroad and the majority of the delegates who attended delineated their opinions and the products of their views expressed above.

Recommendations

Chittagong Veterinary and Animal Sciences University and OWOH-BI recommends:

- That all professions related to the health, livestock, social and environment sciences should understand the importance of the “One health” approach and work together.
- To this end, that the OWOH-BI understands a “Foresight exercise” to define the future disease risks for Bangladesh and the science and technology that is needed to protect the country from present and future threats.
- Those leaders in Government, Academia and Industry are engaged in the OWOH-BI Programme from the very start and are committed to its outputs and delivery.
- That multi-disciplinary approaches should be taken for surveillance and undertake research on the highly pathogenic avian influenza, Nipah virus and other pathogens posing threats to the poultry and the public health.
- That professional bodies have progressed along with the “One health” approach will enhance their effort to disseminate the benefits of this approach;

- That all health professionals, Government and local people be made aware about the holistic approach and regulatory matters.
- Formation of a regulatory body to address and foster the mitigation on health and related environmental issues.
- That Bangladesh makes the best use of the resources and manpower available in the health and environmental sectors and maximizes its importance in the trans- boundary diseases and environmental issues.
- That organizing training and developing communication pathway between and among the professionals is essential;
- That develops strong bridge with the “One health” global initiatives.
- That initiatives should be taken for developing training, education and research programmes on the “One Health” concept.
- That awareness generation and dissemination of knowledge about the impact of globalization on agriculture, livestock, fisheries, environment and public health is necessary.

- That development of suitable health services to the most neglected population in the remote rural areas of the country.
- That the enhancement of interdisciplinary communications on cross-cutting issues is essential.
- That the reduction of institutional and mental barriers for undertaking need-based multi-disciplinary research, training and extension programmes is necessary.
- That seminar, symposia and open discussions should be staged on regular basis to take the “One world, one health” movement further forward.

Organizational Tasks

- Building an alliance within Bangladesh in favour of the world’s “One health” approach;
- Developing institutional memorandum of understandings;
- Building alliances with the international organizations to promote the local initiatives.

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273	Mozahar Hossain	RFBO	AIS,ctg
274	Md.Abdul Mannan	DLO	ctg
275	Major Harun- Al- Hoshid	Officer Commanding	Military Farm,ctg cantonment
276	Md.Shabuddin	DDAE	Dept. of Agri. Extension
277	Dr.Amir Hossain Ch.	Ex-DD	
278	Md.Nurul Islam	Assit.Director,	

279	DR.Liton Kumar Nath	TO	MM Agha ltd
280	Dr.Mouerayain Dhar	SSO,BARI	Phartali,ctg
281	Md.Abdul Jabber	Deputy Co-ordinator	TTC,halishar,ctg
282	Aparna Deb	Co-ordinator	TTC,halishar,ctg
283	Dr.Arifuzzaman	Asso.Professor	USTC
284	Dr.Farrukl Ahmed	Rtd.AD	ZPE
285	Md.Mahbub Morshed	Lecturer	CU
286	Dr.Md.Reajul Hoque	ULO	Boalkhali, CTG
287	Dr.Mashuk Rahman	Area Manager	SKF
288	DR.Aungshuman Das Gopta	SO	CVASU
289	Dr.Shahidul Islam	Professor	CU
290	Dr.AKM Matiar Rhaman	CSO	RARS, Hathazari
291	Mr.Habibur Rhaman	SO	CVASU
292	DR. Ashutosh Das	SO	CVASU
293	Md.Manik Miah	Microbiologist	CU
294	Dr.Md. Monjurul Hoque	CSO	AFTAB FARM
295	Dr.Biswajit	VS	ULO,Bsahkhali
296	DR.Md.Jasim Uddin	Student	CVASU
297	DR.Sanjoy Debnath	Student	CVASU
298	Rawshan Aktar	Lecturer	CU
299	Dr.Partha Pratim Dhar	Asst.prof, Dept. of Botany, Patiya Govt. College	PATIA, CTG
300	Dr. Abul Kalam	CEO, Pals Agrovat	Chittagong
301	Muhammad Mustafizur Rahman	VS, Safari Park	Cox's bazar
302	Md. Abdul Jabbar	Deputy Coordinator, OITC,	CTG
303	Dr.md.nurul anwer	Professor. Dept. of Microbiology	CU
304	Dr. Mohammad Harun OR Rashid	VS, Sitakundu	Chittagong

The 6th Annual Scientific Conference
Chittagong Veterinary and Animal Sciences University (CVASU)
Khulsi, Chittagong-4202, Bangladesh
04 - 06 March 2008

Theme: Changing World and Emerging Challenges: A One World, One Health Approach

Programme Schedule

Day 1: Tuesday, 04 March 2008	
Inaugural Session	
Time	Programme
4.00 - 4.05	Telwat-e- Quran
4.05 - 4.25	An Introduction to One World, One Health - Bangladesh Initiative - by the Chairman of the Session: Dr. N. C. Debnath, Vice – Chancellor, Chittagong Veterinary and Animal Sciences University
4.25 - 4.35	Address by the Co-ordinator, Chittagong Support Group, One World, One Health - Bangladesh Initiative Professor Safique Haider Chowdhury, Chittagong University
4.35 - 4.45	Address by Special Guest Mr. Karsten Nellemann Kryger, University of Copenhagen
4.45 - 4.55	Address by Special Guest Dr. June Rollinson, Director, The British Council
4.55 – 5.05	Address by Special Guest Dr. S Abdul Rahman, Secretary, Commonwealth Veterinary Association
5.05 – 5.15	Address by Special Guest Professor Dr. M.A. Fiaz, Director General of Health Services
5.15 - 5.35	Address by Chief Guest Professor Nazrul Islam, Chairman, University Grants Commission of Bangladesh
5.35 – 5.45	Concluding Remarks by the Chairman
5.45 – 5.55	Vote of Thanks Professor Mahmudur Rahman, Member, One World, One Health - Bangladesh Initiative and Director, IEDCR
6.15 – 7.15	Cultural Programme
7.30 – 9.00	Dinner
Day 2: Wednesday, 05 March 2008	
8.00 – 9.00	Registration
	Session – 1 Chairman: Dr. Nazir Ahmed, Ex – Director General, Department of Livestock Services Co – Chairman: Professor Dr. Muzahed Uddin Ahmed, Bangladesh Agricultural University
9.00 – 9.45	Keynote Paper: Identification, Detection and Monitoring of Joe Brownlie, Royal Veterinary College, UK

	Infectious Disease Agents	
9.45 – 10.35	Highly Pathogenic Avian Influenza in Asia : Trend and Response	Dewan Sribartie, Food and Agricultural Organization
10.35–10.40	Discussion and Chairman's Remarks	
10.40–11.00	Tea Break	
	Session – 2 Chairman: Professor Dr. Md. Atawar Rahman, Bangladesh Agricultural University Co – Chairman: Professor Shishir Kumar Majumdar, National Medical College	
11.00–11.15	Study of the Origin and Spread of Highly Pathogenic Avian Influenza Outbreaks in Bangladesh: 1 st Interim Report	Paritosh Kumar Biswas, Chittagong Veterinary and Animal Sciences University
11.15 –11.40	Effects of Passage of H5N1 Avian Influenza Virus in Common Mallard Ducks and Chickens and Possible Epidemiological Consequences	Jens Peter Christensen, University of Copenhagen
11.40–11.55	On Going Avian Influenza Detection, Prevention and Control Programmes in Bangladesh and in the Region	Md. Alimul Islam, Bangladesh Agricultural University
11.55–12.10	Economic and Social Impact of Avian Influenza/Bird Flu in Bangladesh	Md. Mansurul Amin, Bangladesh Agricultural University
12.10–12.25	Steps to Reduce the Risk of Human Infection with Avian Influenza in Bangladesh	Mahmudur Rahman, Institute of Epidemiology, Diseases Control and Research
12.25–12.55	High Prevalence of Influenza in Hospital Surveillance in Bangladesh	A S M Alamgir, Institute of Epidemiology, Diseases Control and Research

12.55 – 1.10	Press Coverage of Bird Flu Issue in Bangladesh: A Content Analysis of 12 Newspapers	Mohammad Sahid Ullah, University of Chittagong
1.10 – 1.15	Discussion and Chairman's Remarks	
1.15 – 2.15	Lunch	
	Session – 3 Chairman: Rashid-E-Mahbub, Ex-Pro-Vice-Chancellor, Bangabandhu Sheik Mojib Medical University Co – Chairman: S. K. Roy, International Centre for Diarrhoeal Disease and Research	
2.15 – 2.55	Regional Rabies Control Programme	S Abdul Rahman, Secretary, Commonwealth Veterinary Association
2.55 – 3.10	Nipah: Emergence of a Viral Zoonotic Disease	Be-Nazir Ahmed, Institute of Epidemiology, Diseases Control and Research
3.10 – 3.25	Food Borne Disease, their Epidemiology, Prevention and Control	Md. Atawar Rahman, Bangladesh Agricultural University
3.25 – 3.30	Discussion and Chairman's Remarks	
3.30 – 3.50	Tea Break	
	Session – 4 Chairman: Professor Dr. Mansurul Amin, Bangladesh Agricultural University Co – Chairman: Professor Dr. M. Abul Quasem, Bangladesh Agricultural University	
3.50 – 4.35	Effect of Spirulina in Arsenic Induced Toxicities in Chickens	Md. Siddiqui Islam, Sylhet Agricultural University
4.35 – 5.05	Development and Operation of a Planned Dairy Health and Production Management Program in Commercial Dairying in Chittagong for better Economic Decision making and Profitability.	M. Ashiqur Rahman, Chittagong Veterinary and Animal Sciences University
5.05 – 5.10	Discussion and Chairman's Remarks	
5.10 – 6.00	Plenary Session	
7.00 – 8.30	Dinner	
Day 3: Thursday, 06 March 2008		
	Session – 5 Chairman: Dr. Kazi Abdul Fattah, Ex – Director General, Department of Livestock Services Co - Chairman: Professor Dr. A. K. M. Saifuddin, Chittagong Veterinary and Animal Sciences University	

9.00 – 9.25	Status of the Food Security in the Region	Z. Karim, Chairman, Centre for Aggroresearch and Sustainable Environment and Entrepreneurship Development
9.25 – 9.40	GM Crops: Understanding the Nexus Between Food Security and Biosafety	Aparna Islam, BRAC University
9.40 – 9.55	Feasibility for Development of Small-Scale Dairy Farming to Ensure Food Security for Better Health – A Case Study of DANIDA Project	G. C. Chanda, Chittagong Veterinary and Animal Sciences University
9.55 – 10.25	Tobacco Usage and Nutritional Status in Rural and Urban Bangladesh	M. Sabrina Flora, Bangladesh Paribesh Andolon
10.25–10.30	Discussion and Chairman's Remarks	
10.30–10.50	Tea Break	
	Session – 6 Chairman: Dr. Z. Karim, Chairman, Centre for Aggroresearch and Sustainable Environment and Entrepreneurship Development Co - Chairman: Professor Dr. Nemat Ullah, University of Arid Agriculture, Pakistan	
10.50–11.15	Globalization, Food Safety and Agricultural Health Standards: Implications for Trade and Public Health	Mohammad A. Jabbar, International Livestock Research Institute
11.15–11.40	Chemical Feed and Food Safety in a Globalized World; the Example of Industrialized Cassava Products	Leon Brimer, University of Copenhagen
11.40–11.55	Chemical, Nutritional and Microbial Quality of Fluid Milk Available in Chittagong Metropolitan Area	Goutam Kumar Debnath, Chittagong Veterinary and Animal Sciences University
11.55–12.10	Environment-Friendly Aquatic Chicken Production for Health Management of Rural	M. Shahadat Hossain University of Chittagong

	Communities in Bangladesh	
12.10–12.25	Coastal Ecosystem and Human Health: An Integrated Approach for Livelihood Sustainability of Local Community	Nani Gopal Das, University of Chittagong
12.25–12.40	Microbial Contamination in Herbal Raw Materials Causing Health Hazard	P. P. Dhar, Patiya Govt. College, Chittagong
12.40–12.45	Discussion and Chairman's Remarks	
12.45 – 2.00	Lunch	
	Session - 7 Chairman: :Mr. Md. Abdur Razzaque, Ex – Director General, Department of Livestock Services Co – Dr. Md. Shahidul Islam, Director of Extension Services	
2.00 - 2.40	Zoonotic Tuberculosis Cycle - from Humans to Elephants and from Elephants to Humans	Ayona Silva-Fletcher, Royal Veterinary College, UK
2.40 – 3.05	Some Recent Concerns about Environment and Animal Welfare in the Slaughter and Processing Industries	Neville Gregory, Royal Veterinary college, UK
3.05 – 3.20	Welfare of Cattle and Water Buffalo at Livestock Market in Bangladesh	Mohammad Rashedul Alam, Chittagong Veterinary and Animal Sciences University
3.20 – 3.35	Environmental Health and Human Well-being	Shayer M. I. Alam, International Union for the Conservation of Nature, The World Conservation Union
3.35 – 3.50	Nutritional Status of Adolescent Girls of Bangladesh	Laila Anjuman Banu, Bangladesh Mahila Parishad (BMP), and Bangabandhu Sheikh Mujib Medical University
3.50 – 3.55	Discussion and Chairman's Remarks	
3.55 – 4.15	Tea Break	
	Session - 8 Chairman: Professor Safique Haider Chowdhury, University of Chittagong Co - Chairman: Professor Dr. Md. Farid Ahasan, University of Chittagong	

4.15 – 4.30	Topography of Retinal Neurons and Distribution of Oil droplets in the Retina of Jungle Crow (<i>Corvus macrorhynchos</i>)	Mohammad Lutfur Rahman, Chittagong Veterinary and Animal Sciences University
4.30 – 4.45	Crocodile Farming in Bangladesh – Sustainable Use of Natural Resources	Mushtaq Ahmed, Reptiles Farm Ltd
4.45 – 5.00	Strategies for Wildlife Conservation in SIDR Affected Sundarbans	M. M. Monir, Barisal Government Veterinary College
5.00 – 5.15	Mangrove Restoration and Biodiversity at Chakoria Sundarbans in Bangladesh: A Geo-Environmental Assessment	M. Shahidul Islam, University of Chittagong
5.15 – 5.30	A Systems Approach to Sustainable Development of Animal Husbandry for Poor Farmers in the Noakhali Chars: The Example of the Regional Fisheries and Livestock Development Project	Harvey Demaine, Regional Fisheries and Livestock Development Component
5.30 – 5.35	Discussion and Chairman's Remarks	
5.35 – 6.25	Tea Break	
	Session – 9	
	Chairman: Dr. N. C. Debnath, Vice – Chancellor, Chittagong Veterinary and Animal Sciences University	
	Concluding Session	
6.25 – 6.45	Address by Special Guest Md. Nurul Islam, Director (Production), Directorate of Livestock Services	
6.45 – 7.05	Address by Chief Guest Professor Muzaffer Ahmad, President, Bangladesh Poribesh Andolon	
7.05 – 7.15	Chairman's Remarks	
7.30 – 8.30	Dinner	