

# Zoonoses and Food Hygiene News

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***Special Issue Dedicated to the Memory of Late Durga Datt Joshi (1940-2013)***

## **Late Dr. Durga Datt Joshi, Founder of NZFHRC**

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*Zoonoses and Food Hygiene News, published four times a year, provides a medium for disseminating technical information on matters related to zoonoses and food hygiene generated in the world, particularly in Nepal. The editors welcome submissions on these topics with appropriate illustrations and references. The views and opinions expressed in the News are those of the authors.*

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## **Heartfelt Condolence**



**10 May 1940**



**25 Nov., 2013**

**Late Dr. Durga Datt Joshi, 1940-2013**

We are deeply saddened that our Founder and Executive Chairman of National Zoonoses and Food Hygiene Research Centre (NZFHRC), Kaushila Devi Memorial Allergy (KMDA) Trust and Durga Datt Joshi (DDJ) Research Foundation. Late Dr. Durga Datt Joshi passed away unexpectedly on 25 November 2013. It is irreparable loss for country and globe due to his untimely demise. His contribution on zoonotic diseases and research field will be memorable forever. We are praying to the almighty for the peace of the departed soul and express our sincere heartfelt condolence to the bereaved family. May we share this pain due to the demise of Dr. Joshi with our very special dignitary like you and all other well-wishers. We would like to express our sincere gratitude and thanks for your kind cooperation provided to our organization and Dr. Joshi in the past and would also further request for the continuation of the same. Your invaluable kind cooperation and support, we believe, would boost up us to move ahead on the foot-steps of late Dr. Joshi.

## **NZFHRC Family**

## Late Dr. Durga Datt Joshi at a Glance

Dr. Durga Datt Joshi was born on 10 May 1940 at Magarau VDC of Baitadi district, Far Western Development Region of Nepal. He completed high school education in 1956, Intermediate Science with Mathematics in 1958, Intermediate Science with Biology in 1961, BVSC&AH in 1965 and MPVM in 1971 from DAVIS, USA (under the Fulbright scholarship). He was research scholar at the National Animal Research Laboratory Ames, Iowa, USA in 1971 and received training on Microbiology at Clinical Microbiology Laboratory Veterinary Medical Teaching Hospital, University of California, Davis, USA, 1971. Similarly, he received UNEP/USSR Zoonoses Management Course from September-November 1980, Moscow, USSR and Training Course on Veterinary Public Health from 4-24 October 1981, organized by Institute of Veterinary Medicine FAO/WHO Collaboration Centre Research and Training in Food Hygiene and Zoonoses, Berlin (West) Germany.

He was decorated with prestigious award from Government of Nepal, Mahendra Vidya Bhusan in 1971 and Prabal Gorkha Daxin Bahu Medal in 1983. He has received Gold Medal awarded by Nepal Pediatric Society for best paper on Japanese Encephalitis in Children in 1983. Narendra Memorial Trust Award from Nepal Veterinary Association for outstanding contribution at National and International Level in the field of Veterinary Public Health for more than Thirty Years February 1999. Recently he was awarded prestigious Science and Technology Award for contribution on diagnosis, treatment and control of zoonotic disease and viral encephalitis for the year 2009/2010 by Nepal Academy of Science and Technology (NAST). He was the fellow of Indian Society for malaria and other communicable Disease in 1979.

Dr. Joshi was the founder of National Zoonoses and Food Hygiene Research Centre (NZFHRC) and worked as Executive Chairman from 1995 to 2013. He was working as principal investigator on "Identification and Assessment of Socio-Environmental Risk Settings for Japanese Encephalitis (JE) Transmission and Re-emergence in Nepal" supported by IDRC after successful completion of Urban Ecosystem Health Project I, II and III which was run for last 10 years. The association with IDRC began from the urban transmission of echinococcosis project. Moreover, he initiated one health/ecohealth concept in Nepal and nominated as national coordinator for "One Health Alliance for Nepal" and Member for One Health Alliance for South Asia.

Dr. Joshi had begun his career as a teaching assistance in Agricultural science at school of agriculture from 1959 to 1961 then he joined veterinary services of His Majesty's Government of Nepal in 1965. During 1965 to 1969 he served as an incharge officer of zonal hospital of Doti. During that time he was an incharge officer of Rinderpest Eradication Campaign in Kanchanpur, Nawalpur, Kathmandu, Doti, Achham and Bajhang districts of Nepal. In 1968 he took the leadership of Yak, Chauri, Sheep and Goat development programme in alpine region and high mountain foothill areas of Nepal. Similarly, he was member, coordination committee, rabies control programme in street and pet dogs of Kathmandu during the year 1970. At the same time he was incharge officer of Veterinary hospital, Mahendranagar, Kanchanpur. After returning from USA, worked as a counterpart of parasitology control project aided by SATA/HMG. In 1972, he was member of syllabus and study course committee in IAAS, TU, Kathmandu. Similarly, he has worked as an active member of formulation of short term and long term planning and policy for the development and improvement of livestock, dairy and veterinary services in Nepal from 1972 onward. During that time he was worked as a senior Veterinary Officer and Epidemiology, on parasitic diseases and communicable diseases like tuberculosis, paratuberculosis and brucellosis at central veterinary laboratory, Tripureshwor, Kathmandu from 1971 to 1974. Likewise, he was worked as a livestock specialist, at Hill Agriculture Development

Project, UNDP/FAO/HMG Ministry of Food, Agriculture and Irrigation Kathmandu from July 1974 to Nov. 1975. Dr. Joshi worked as a "Livestock Specialist" in the agricultural project services centre (APROSC) Kathmandu Nepal from November 1975 to December 1978. Similarly, he had worked in the projects as a co-coordinator or as a specialist which were prepared and published by APROSC; Dhading Dairy Development Project, Kabhre Palanchok Development Project, Sindhu Palchauk Integrated Rural Development Project, Pokhara Milk Supply Scheme Integrated Rural Development Project, Buffalo Dairy Development Project Nuwakot, Goat Development Model Project, Tanahu, Buffalo Breeding Project for Eastern Central and Western Development Region, Mahakali Integrated Rural Development Project, Rapti Integrated Rural Development Project, Surkhet Integrated Rural Development Project, Karnali-Bheri Integrated Rural Development Project, Crop Livestock Integrated Rural Development Project Dhading and Dadeldhura Integrated Rural Development Project.

He worked as a "Senior Veterinary Officer in veterinary hospital Dhangadi, Kailali, Far Western Development Region of Nepal from January 1979 to March 1979. He worked as a Chief, Zoonotic Diseases Control Section, Epidemiology and Statistics Division, Department of Health, HMG, Nepal from 1979 to 1986. Similarly, he worked as an Acting Chief, Epidemiologist, Epidemiology and Statistics Division, Ministry of Health, from November 1981 to 1986. Dr. Joshi worked as a Member - Secretary, Nepal Medical Research Committee, Ministry of Health, HMG, Nepal in 1982-1987. He worked as General Manager, Dairy Development Corporation Nepal From 1987 to 1990. He worked as Director, National Agriculture Research Council, Ministry of Agriculture from 1990 July to February 1991. He worked as a Executive Director and Member Secretary, National Dairy Development Board, Ministry of Agriculture from November 1991 to September 1994. He served the nation holding different posts for 35 years from 2014 to 2049. Even after his retirement from government sector he didn't take retirement from his duties. In 1995, Dr. Joshi has established initially the National Zoonoses and Food Hygiene Consulting Centre and converted into National Zoonoses and Food Hygiene Research Centre, as a founder Executive Chairman. A pioneer NGO, which has been working in various aspect of zoonotic diseases research in Nepal. The impact of his research enforced in the formulation of important national legislations. He worked as a Visiting Professor on Epidemiology of Zoonotic and Food Borne Diseases, Institute of Medicine, Tribhuvan University, Kathmandu and worked as a WHO Expert Committee Member on Zoonoses from 1980 July till date WHO, Geneva. Similarly, he worked as Project Coordinator on Project Urban Echinococcosis in Health Transition (Nepal) supported by IDRC Canada from Dec. 1992 to Dec. 1995 in Kathmandu and Pokhara Valleys. He worked as Technical Adviser on the Project Study on Marketing Status of Milk and Milk Products in Kathmandu, Lalitpur and Bhaktapur supported by DANIDA and NDDB, 1993. Likewise Dr. Joshi worked as Technical Adviser on the Project Study on Slaughter/Abattoir Facilities in Nepal in collaboration with The Danish Meat Trade College and DANIDA, 1993. He worked as Technical Adviser on the Project Study on Cost of Milk Production Analysis in five Development Regions of Nepal, 1993. Similarly, he worked as a Project Coordinator in Impact Study on Livestock Insurance supported by Credit Guarantee Corporation, 1992. He worked as a Project Coordinator in Feasibility Study for Pilot Project on Livestock Management supported by trade Promotion Centre, 1992/93. He worked as a Project Coordinator in Current practices of Livestock Slaughtering in Kathmandu, Lalitpur and Bhaktapur supported by FAO, 1991. In 1990, he worked as a Project Coordinator in Impact Evaluation of Dairy Development Corporation Milk collection activities on the income of rural milk producers of Mid Western Milk Supply Scheme Areas supported by FAO. He worked as a project Coordinator for the Translation of FAO/WHO English Publications into Nepali Language from 1990 to 2013. He

worked as a Chairman Nepal Veterinary Council, Ministry of Agriculture His Majesty's Government of Nepal from 2000 to 2005.

### Membership of the Learned Societies:

During his life time he has been member of more than 30 learned societies of national as well as international repute. The selected one includes;

- WHO Expert Advisory Panel on Zoonoses, Geneva, from 1980 to date.
- WHO Member of the International Health Regulation (IHR) Roster of Experts as an expert in Veterinary Issues/Zoonoses from 07 May 2012 to 6 May, 2017. Geneva.
- Expert Member of Child Health and Nutrition Knowledge Network (CHNKN), New Delhi, India from 21 October 2010 to date.
- Nepal Medical Research Committee, Ministry of Health, HMG, Nepal, from 1982-1987.
- The evaluation committee of National Council of Science and Technology, HMG, Nepal, 1984.
- Life member of the Indian Society for Malaria and other Communicable Diseases, New Delhi, India from 1979.
- Life Member of Nepal Veterinary Association from 1971.
- Life Member and Adviser of Nepal Pharmaceutical Association from 1980.
- Life Member, Indian Association for the Advancement of Veterinary Research, 1995.
- Life Member, Society for the Prevention of Cruelty to Animals, Nepal, 1992.
- Life Member, Nepal Public Health Association.
- Life Member of the Nepal Dairy Science Association, 1993.
- Life Member of the Nepal Dairy Professionals Society, 1993.
- National Task Force on Severe Acute Respiratory Syndrome (SARS) Control and Investigation HMG/Nepal 2004/2005.
- National Task Force for Bird Flu Pandemic Preparedness Plan from 2004 till to date.
- World Society for Protection of Animal (WSPA) UK, London.

### Participation and paper presentation in International/National Conferences:

Dr. Joshi has participated in more than 150 national and international conferences. In most of the conferences he had contributed scientific paper on zoonotic diseases, animal slaughtering and meat hygiene, ecosystem health, one health status of Nepal etc. In most of the international conferences he has represented the Government of Nepal. The selected international conferences includes:

- XIX World Veterinary Congress Conference at Mexico City, Mexico, 1971.
- Inter-country seminar for Planning of National and Regional Programme for Surveillance, Prevention and Control of Zoonoses and Related Food Borne Diseases, organized by WHO/SEARO, New Delhi, 12-17 Nov., 1979.
- WHO inter-regional seminar on the Organization of Veterinary Public Health Services, New Delhi, 1974.
- First Yak Congress in China 1994.
- International Conference on Veterinary Epidemiology and Economics in Kenya 1994.
- Asia and Africa Regional Conference on Dairy Production and Marketing in Zimbabwe 1993.
- First International Conference on Supply and Demand of Animal Products in Urban Areas particularly in developing countries 1994 Seoul, Korea.
- International Conference on Environment of Snakebite, Their Treatment and Prophylaxis in Asian Area (ICSA), August 30-Sept 2, 1997, Tokyo, Japan.

- Second International Conference on Emerging Zoonoses, Strasbourg, France, November 5-9, 1998.
- WHO meeting on Future Trends on Veterinary Public Health, Giulianova (Teramo), Italy. March 1-5, 1999.
- Second International Conference on Methane Mitigation, June 18-23, 2000, Novosibirsk, Russia.
- International Congress on Yak 4-9 September 2000 Lhasa, Tibet, P.R. China.
- IXth Symposium of International Symposium on Veterinary Epidemiology and Economics August 6-11, 2000, Breckenridge, Colorado, USA.
- World Society for Protection of Animal (WSPA) Asia Workshop (WAW), date Monday, 2nd April to Friday 6th April 2001. WSPA London Office, 89 Albert Embankment, UK.
- The 10<sup>th</sup> International Conference of "Livestock Community and Environment" 20-23 August 2001 Copenhagen, Denmark
- 3rd International Conference on Emerging Zoonoses, Holland, October 10-14, 2001.
- WSPA /Asia Link Workshop in May 6 - 10, 2002 in Bangkok, Thailand.
- International Action Planning Workshop on *Taenia solium* Cysticercosis/Taeniosis with Special Focus on Eastern and Southern Africa: Arusha, Tanzania from 19-22 August, 2002.
- "International Conference on Dairy Outbreak and Meat Production and Marketing" organized by FAO, Rome, Italy from August 26-31, 2002.
- International Conference on "2002 ICLAS Regional Scientific Meeting Quality in Animal Experimentation and Animal Welfare-Current Condition in Southeast Asia" November 20-22, 2002 Bangkok, Thailand.
- "Fundraising for Development Research in Asia: An IDRC Pilot Training Workshop" Bangkok 12-16 January 2003
- "3rd International Symposium on Non Co2 Greenhouse Gases" Maastricht The Netherlands from January 21-23, 2002.
- "International Forum on Ecosystem Approaches to Human Health Montreal, Canada May 18-23, 2003".
- "Asia for Animals Conference Hong Kong, September 3-6, 2003".
- "WSPA Asia-Link Workshop Kaulalumpur, Malaysia, September 7-14, 2003".
- "4<sup>th</sup> Seminar on Food and Water-borne Parasitic Zoonoses 2<sup>nd</sup> International Meeting on Gnathostomiasis Joint International Tropical Medicine Meeting 2003", 2-4 December 2003, Thailand.
- "Third International Conference on Environment and Health & Post-Conference Workshop GIS and IT Tools for Information Sharing", December 15-18, 2003. Department of Geography University of Madras Chennai: 600 005, India.
- "WHO/FAO/OIE Joint Consultation on Emerging Zoonotic Disease Meeting". Organized by WHO, Geneva, Switzerland. 3-5 May 2004.
- "The Association Liaison Office for University Cooperation in Development Synergy in Development" Washington, DC August 11-13, 2004.
- "XIth International Conference on Trichinellosis (ICT-11)". Organized by International Conference on Trichinellosis (ICT). San Diego, California. August 8-12, 2004.
- "World Conference on Magic Bullets to Celebrate Paul Ehrlich's 150th Birthday. Nurn berg Germany. Organized by International Society of Chemotherapy (ISC) September 9-11, 2004.
- "2nd International Seminar on Technology Transfer for Immunodiagnosis of Cysticercosis and Echinococcosis". Organized by Asahikawa Medical College, Hokkaido, Asahikawa, Japan. 14 September to 1 October 2004.
- "The 3<sup>rd</sup> Asia Pacific Conference on Evidence-Based Medicine". Organized by The Chinese University of Hong Kong 26-28 November 2004 Hong Kong.

- "Asia for Animals Conference 2005 (AFAC)". Organized by Asia for Animals 22-24 June 2005 Singapore.
- "1<sup>st</sup> International Parasitic Disease Update 2005". Organized by Faculty of Medicine University of Indonesia. April 16-17, 2005 Jakarta.
- "Preparing for Pandemic Influenza; The Avian Dimensions and Other Emerging Threats". Organized by Asia Medical Forum The Lancet 2006 3-4 May 2006, Sintec Singapore.
- "WSPA Member Society by Annual Meeting and WSAP 25 Years Symposium". Organized by WSPA, UK, London. 7-9 June 2006.
- 11th World Congress on Public Health Rio de Janeiro, Brazil. August 21st - 25th 2006.
- International Conference on "Implementing Global Campaign for Combating Cysticercosis" Rockefeller Foundation Conference Centre Italy". 19-21 September 2006.
- 22<sup>nd</sup> International Congress of Hydatidology and International Symposium of Zoonoses May 15-19, 2007 Athens, Greece.
- 21<sup>st</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology WAAVP 2007 Gent, Belgium 19<sup>th</sup> - 23<sup>rd</sup> August.
- 44<sup>th</sup> Annual Scientific Seminar of MSPTM 4-5 March 2008, Grand Seasons Hotel, Kuala Lumpur Malaysia.
- "Training Workshop on Tools in Analysing EcoHealth Issues" October 11-15, November 2008, Chengdu, China.
- The International Eco-Health Forum on Healthy Environments, Healthy People, held in Merida, Yucatan, Mexico from December 1-5, 2008.
- 8<sup>th</sup> International Conference on Urban Health (ICUH) October 18-23, 2009, Nairobi Kenya.
- The Ecohealth 2010 conference in London from August 18 to 20, 2010., London.
- The "Discontools Expert Group on anthrax". IFAH-Europe offices located on the 5<sup>th</sup> floor in Rue Defacqz, 1 in B-1000 Brussels Belgium on 27 July, 2011 to 29 July, 2011.
- "Ecohealth Emerging Infectious Disease (Eco-EID) Inception workshop" which was held in Vientiane, Lao PDR between 12th and 16<sup>th</sup> March 2012 at Vansana Riverside Hotel. Laos.
- "ECOHEALTH 2012: Sustaining Ecosystems and Supporting Health" in Kunming, China October 15-18, 2012.
- "Ecohealth Emerging Infectious Diseases Initiative (EcoEID) Research Policy and Forum" on September 15-20, 2013 held in Manila, Philippines.
- Epidemiology of *Taenia solium* in Nepal: is it influenced by the social characteristics of the population and the presence of *Taenia asiatica*? Trop Med Int Health. 2012; **17**(8):1019-22.
- Neurocysticercosis: assessing where the infection was acquired from. J Travel Med. 2010;**17**(3):206-8.
- Visceral leishmaniasis in Nepal during 1980-2006. J Commun Dis. 2006;**38**(2):139-148.
- Prevalence of Salmonella species in various raw meat samples of a local market in Kathmandu. Ann N Y Acad Sci. 2006;**1081**:249-256.
- Serological evidence of Trichinellosis in local pigs of Nepal. Vet Parasitol. 2005;**132**(1-2):155-157.
- Health promotion approach for control of *Taenia solium* infection in Nepal. Lancet. 2003;**362**(9393):1420.
- Improving meat inspection and control in resource-poor communities: the Nepal example. Acta Trop. 2003; **87**(1):119-127.
- *Taenia solium* taeniosis/cysticercosis in Asia: epidemiology, impact and issues. Acta Trop. 2003;**87**(1):53-60.
- Controlling *Taenia solium* in Nepal using the PRECEDE-PROCEED model. Southeast Asian J Trop Med Public Health. 2001;**32** Suppl 2:94-97.
- Health promotion approach for the control of food-borne parasitic zoonoses in Nepal: emphasis on an environmental assessment. Southeast Asian J Trop Med Public Health. 2001;**32** Suppl 2:229-235.
- Three genotypes of *Echinococcus granulosus* identified in Nepal using mitochondrial DNA markers. Trans R Soc Trop Med Hyg. 2000 May-Jun; **94**(3):258-260.
- Veterinary public health in the Nepal Himalaya. Can Vet J. 2000;**41**(11):879-881.
- Differential serodiagnosis for cystic and alveolar echinococcosis using fractions of *Echinococcus granulosus* cyst fluid (antigen B) and *E. multilocularis* protoscolex (EM18). Am J Trop Med Hyg. 1999;**60**(2):188-192.
- Human rabies in Kathmandu, Nepal. J Commun Dis. 1998;**13**(3):160-4.
- Epidemiology of echinococcosis in Nepal. Southeast Asian J Trop Med Public Health. 1997;**28** Suppl 1:26-31.
- *Echinococcus granulosus* infections in the Dogs of Kathmandu, Nepal. Ann Trop Med & Parasitology. 1994; **88**(5): 485-492.
- Control of epidemic group A meningococcal meningitis in Nepal. Int J Epidemiol. 1987;**16**(1):91-97.
- A seroepidemiological study of kala-azar in Nepal. A preliminary report. J Commun Dis. 1985;**17**(3):248.

## Publications

Dr. Joshi has published more than 100 articles in national and international peer reviewed journals. The selected research articles includes:

### International Journal articles

- The Burden of Parasitic Zoonoses in Nepal: A Systematic Review. PLoS Negl Trop Dis. 2014 **8** (1):1-13
- Seroprevalence of zoonotic parasites in pigs slaughtered in the Kathmandu Valley of Nepal. Vector Borne Zoonotic Dis. 2013;**13**(12):872-6.
- Regional Variation in Pig Farmer Awareness and Actions Regarding Japanese Encephalitis in Nepal: Implications for Public Health Education. PLoS ONE 2013; **9**(1): 1-7.
- Comparative Spatial Dynamics of Japanese Encephalitis and Acute Encephalitis Syndrome in Nepal. PLoS ONE 2013; **8**(7): 1 -10
- Complexities in using sentinel pigs to study *Taenia solium* transmission dynamics under field conditions. Vet Parasitol. 2013; **193**(1-3):172-8.
- Knowledge and Practices of Pig Farmers Regarding Japanese Encephalitis in Kathmandu, Nepal. *Zoonoses and Public Health* 2012; **59**; 568-574.

### National Journal articles

- An evaluation of patients care in Radio Diagnosis Department of Tribhuvan University Teaching Hospital, Kathmandu, Nepal. Nepal Med Coll J. 2012;**14**(2):133-135.
- Dengue in western Terai region of Nepal. J Nepal Health Res Coun. 2012;**10**(21):152-155.
- Comparison of carcass and lingual examination for the diagnosis of porcine cysticercosis in Nepal. *Journal of institute of Medicine*; 2008;**30**: 11-17.
- Validation of Lingual and Carcass Cyst with Enzyme linked Immuno-electrotransfer Blot (EITB) for the diagnosis of porcine cysticercosis. *Journal of Nepal Health Research Council*; 2008;**6** : 53-57.
- Present situation of porcine taeniosis and human cysticercosis in Nepal. Southeast Asian J Trop Med Public Health. 2007; **38** (11): 144-150
- A new tapeworm *Taenia solium* Asian genotype recorded first time in Nepal through DNA multiplex PCR method. *Journal of Nepal health research council* 2007; **4**(1):29-33.

- Prevalence of pulmonary tuberculosis in far Western Nepal. JNMA J Nepal Med Assoc. 2005;44(158):47-50.
- Epidemiological status of Taenia/cysticercosis in pigs and humans in Nepal. J. Inst. Med 2001; 23:1-12
- The Status of Human Plague in Asia and the World. J. Nep. Med. Assoc. 1995; 33:153-163.
- Japanese encephalitis outbreak during 2046-2049 B.S. (1989/1990-1992/1993) in Nepal. J. Ins. Med., 1995; 17: 1-11.
- Kala-azar in Morang District. Epidemiological situation. J. Ins. Med., 1990; 12: 205-209.
- Prevalence of Salmonellae in street dairy products in Kathmandu. J. Nep. Med. Assoc. 1990; 28: 148-151.
- Hydrophobia -a clinical case study. J. Nep. Med. Assoc. 1987; 25(3): 11-16.
- Epidemiological situation of tuberculosis in Nepal. J Inst Med 1986; 8(2):115-128.
- Status of leishmaniasis in Nepal. J. Inst. Med. 1986; 8(1): 7-12.
- Health aspect of water supply and sanitation. J. Nep. Med. Assoc., 1986; 24(4): 45-48.
- Incidence of snakebite cases in Terai districts of Nepal. J Inst Med, 1985; 7(2): 131-138.
- Epidemiological survey of human echinococcosis/hydatidosis in Kathmandu. J. Nep. Med. Assoc., 1985; 23(1):1.27-1.35.
- Incidence of human Brucellosis in Kathmandu. J. Nep. M. Assoc. 1984; 22(2):1-7.
- Epidemic non-A, no-B hepatitis in Nepal. Recovery of the possible etiological agent and transmission studies in marmosets. J Nep Med Assoc 1984; 252(22): 3140-3145.
- Evidence of leishmaniasis in Nepal. J. Nep. Med. Assoc. 1984; 22(3): 23-7.
- Incidence of Japanese encephalitis in children. Nep. Paed. Soc. 1983; 2(1): 18-25.
- Relation between site of bite, type of bite, type of animal bite and incubation period of hydrophobia cases. J Inst Med, 1983; 5(2): 135-146.
- Suspected rabid animal bite in children of Kathmandu. Nep Paed Soc J 1983; 2(2): 159-166.
- An epidemiological survey of snake-bite case in Dhanusha district. J. Nep. Med. Assoc. 1983; 21(3) : 1-11.
- Dengue in Nepal 1980 and 1981. J. Nep. Med. Assoc. 1982; 20(4): 22-30.
- Epidemiological study of Viral Encephalitis in Nepal, J.Inst. Med. 1982; 4(2): 133-144.
- Development of health services research in Nepal. J Nep Med Assoc 1982; 20(3): 29-47.
- Incidence and prevalence of Rabies in animal and human populations of Kathmandu valley, J. Nep. Med. Assoc. 1981; 19 (1): 134-141.
- Incidence of fascioliasis in sheep and goats of Jumla and Tibrikot Districts. Nep. J. Agri. 1971; 76: 107-113.

#### Books

- Present Situation on the Control of Human and Canine Rabies In Nepal. ISBN No. 99933 -29-35-7
- Make Milk Not Methane Gas In Nepal. ISBN No. 99933-29-33-9
- Food Safety in Nepal. ISBN No. 99933-29-32-0
- Yak and Chauri Husbandry in Nepal. ISBN No. 99933-29-09-6

- Urban Echinococcosis in Health Transition in Nepal. ISBN No. 99933-29-08-8
- Yak (Bos Grunniens) in Central Asia. ISBN No. 99933-29-03-7
- Animal Slaughtering and Meat Marketing Practices in Nepal. ISBN No. 99933-29-02-9
- Animal Health, Livestock and Dairy Development Statistics of Nepal. ISBN No. 99933-546-1-2
- Veterinary Public Health Hazards in Nepal. ISBN No. 99933-546-0-0
- Drinking Water Issues on Monitoring Assessment and Management in Kathmandu. ISBN No. 99933-49-53-4
- Status of Animal Health in Nepal. ISBN No. 99933-29-36-3
- Humane Slaughtering Management and Meat Hygiene in Nepal. ISBN No. 99933-49-56-9
- Long Range Solutions for Animals Slaughtering and Meat Inspection in Nepal. ISBN No. 99933-29-39-8
- Wildlife in Captive and Status of Wild Life Conservation in Nepal. ISBN No. 99933-49-60-7
- Japanese Encephalitis a Zoonotic Public Health Problem in Nepal. ISBN No.: 99933-49-71-2
- Present Situation Challenges in Treatment of Taeniasis/Cysticercosis in Nepal. ISBN No. 99946-871-0-7
- Socio Economic Impact on Poultry Industry due to BirdFlu Scare (Rumours) in Nepal. ISBN No. 99946-871-3-1
- Basic Training Manual for Microbiology. ISBN No. 978-9937-508-00-1
- Yak, Chauri and Cheese Production Status in Nepal. ISBN No. 978-9937-508-05-6
- Pig Husbandry, Porcine Zoonoses and Pork Marketing in Nepal. ISBN No. 978-9937-508-07-0
- Animal slaughtering and meat marketing practice in Nepal. ISBN No. 978-9937-508-73-5
- Status of Draught Animals in Nepal: A Challenging Issues. ISBN No. 978-9937-508-79-7
- Japanese Encephalitis a Zoonotic Public Health Problem in Nepal. ISBN No.: 99933-49-71-2
- Book on Participatory Action Research on Urban Ecosystem Health in Kathmandu Inner City neighborhoods.
- Book on Wildlife in Captive and Status of Wildlife Conservation in Nepal.

#### Completed Projects

*Urban Echinococcosis in Health Transition in Nepal (1995-1997).* Supported by International Development Research Centre (IDRC), Ottawa, Canada.

*Urban Ecosystem Approach to Human Health Project (1999-2001).* Supported by International Development Research Centre (IDRC), Ottawa, Canada.

*Rabies Control Project for Kathmandu Valley Municipalities and Pokhara Sub-Metropolitan City (2000-2003).* Supported by Donative Unit for Rabies Vaccine to Nepal, Japan.

*Epidemiological Studies on Porcine Cysticercosis among Magar Communities of Syangja (2000-2001).* Supported by International Foundation for Science (IFS). Sweden.

*Validation of Diagnostic Techniques for Porcine Cysticercosis in Nepal (2004-2005).* Supported by International Foundation for Science (IFS). Sweden.

**Welfare Assessment of Zoo Animals at Central Zoo of Nepal** (2001-2002). Supported by World Society for Protection of Animal (WSPA), London.

**Community Based Drinking Water Quality Monitoring and Management, Pilot Project in Ward 19 and 20 of Kathmandu Metropolitan City** (2000-2001). Supported IDRC/Winrock International and Ford Foundation.

**Humane Animal Slaughtering and Meat Inspection Management Project** (2001-2003). Supported by Humane Society International (HSI), Washington DC, USA.

**Urban Ecosystem Health Project Phase-II** (2003-2006). Supported by International Development Research Centre (IDRC), Ottawa, Canada.

**Free Dog Rabies Vaccination in Different Municipalities of Nepal** (2002). Supported by Donative Unit for Rabies Vaccine to Nepal (DURVN) Tokyo, Japan.

**Water Quality and Management in School Health Programme of Kathmandu Valley** (2004-2005) Supported by World Vision International Nepal.

**Impact Assessment and Control of Cysticercosis in the Indian Subcontinent** (2006-2010). Supported by VLIR, UOR, Belgium.

**Urban Ecosystem Health Project Phase-III** (2007-2010). Supported by International Development Research Centre (IDRC), Ottawa, Canada.

**Ongoing Project**

**"Identification and Assessment of Socio-Environmental Risk Settings for Japanese Encephalitis (JE) Transmission and Re-emergence in Nepal"** for the period 2011 to 2014. This project is supported by International Development Research Centre (IDRC), Ottawa, Canada.

**Present Core Staff of NZFHRC**

- Dr. Padam Raj Bista – Executive Chairman (MD)
- Ms. Minu Sharma – Programme Co-ordinator
- Dr. Mahendra Maharjan – Research Co-ordinator
- Dr. Dhan Raj Ratala – Senior Veterinarian
- Dr. Padam Bahadur Chand – Public Health Epidemiologist
- Mr. Shishir Pant – Entomologist
- Mr. Dhan Kumar Pant – Microbiologist

- Ms. Meena Dahal – Sociologist
- Dr. Yana Mai Nepal – Veterinary Officer
- Dr. Shristi Ghimire - Veterinary Officer
- Ms. Kabita Shahi – Senior Lab Technician
- Ms. Purna Joshi – Community Researcher
- Mr. Dhruva Bakhathi – Driver

**Consultants:**

- Prof. Craig Stephen DVM PhD (Centre for Coastal Health and University of Calgary) CCH
- Dr. Kent Hecker MSc PhD (University of Calgary) – program and educational evaluation
- Dr. Colin Robertson MSc PhD (Wilfred Laurier University)–collaborator in geographic analysis
- Prof. Dr. Manish Kakkar – Public Health Foundation, India
- Dr. Basudev Pandey – Virologist
- Prof. Dr. C. K. Gurung – Statistician

**News:**

Dr. Padam Raj Bista has been appointed as a Executive Chairman of NZFHRC, who has been working earlier as a Vice-chairman of this centre.

Associate Professor Dr. Mahendra Maharjan has rejoined the centre as a Research Co-ordinator of the centre, who has been associated with this centre for last a decade.

Dr. Dhan Raj Ratala has been appointed as a senior veterinarian of this centre, who is a chairman of Nepal Veterinary Council.

**K.D.M.A. Research Award:**

*Please kindly submit your research work paper on allergy award for the year 2014 for the consideration by the end of July 2014 to KDMART office Chagal, G.P.O. Box 1885, Kathmandu, Nepal, Phone: 4270667, 4274928 and Fax 4272694. This award was established by Late Dr. Durga Datt Joshi in 2049 B.S. (1992) on the memory of his wife, the late Mrs. Kaushilya Devi Joshi. The award includes a grant of NCRs. 10,001 with certificate.*

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P.O. Box 1885, Chagal, Kathmandu, Nepal.**

**TO:**  
**Dr/Mr/Ms .....**

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