

Curriculum Vitae

ElZein Bashir Mohammed Ali

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Personal Data:

Name : ElZein Bashir Mohammed Ali
Date of birth : 12th August 1969
Gender : Male
Nationality : Sudanese
Marital status : single
Languages : Arabic, English and German

HIGHLIGHTS OF SKILLS AND QUALIFICATIONS

- More than 4 years of successful experience in community development program management in senior positions nationally and internationally, proposal writing and budget management.
- Master on Veterinary Epidemiology under a joint programme between Freie Universitat Berlin, Germany and the University of Addis Ababa.
- Bachelor of Science (honor) in veterinary - University of Khartoum Sudan.
- Training course in participatory monitoring and evaluation-International Institute for sustainable development-Colorado State University.
- Proven track record of experience and knowledge in planning, Stakeholder analysis and development of outreach strategies.
- Demonstrated knowledge in community mobilization and community engagement nationally and internationally.
- Proven knowledge of the project cycle management, proposal and report writing and log frames design.
- Research and evaluation programs using multiple and wide range of techniques.

- Ability to represent, coordinate and liaise with a wide range of senior government and other stakeholders.
- Demonstrated sensitivity and ability to develop an open exchange of ideas and concerns.
- High knowledge of computer and internet application.
- Excellent team player, culturally sensitive with extensive knowledge and experience in and capability of work under pressure to meet the deadlines.
- Study design, data analysis and interpretation.

EDUCATION

- **Bachelor of Veterinary Science [1995]**: University of Khartoum – SUDAN
- **Master of Science [2001]**: in Veterinary Epidemiology under a joint programme between Freie Universitat Berlin and the University of Addis Ababa.

LANGUAGES

- Arabic (very good)
- English (very good)
- German (fair)
- French (started learning in Botswana)

WORK EXPERIENCE

January 2010 on: Monitoring and Evaluation officer-World Vision Organization-Blue Nile State, main responsibilities:

- Prepare monthly and quarterly project monitoring reports that provide information on the pace of project implementation and the quality/impact of project activities.
- Prepare M&E plans in collaboration with project coordinators.

- Assist in the development of TORs and data collection tools as needed for project baseline, midterm and final evaluations.
- Collection and analyzing raw data.
- Promote the integration of all WVI universal standards into project implementation including LEAP, HAP and SPERE.

January 2009 up to December 2009: Doctors company-technical manager main responsibility:

- Market survey and formulation of marketing strategy.
- Preparation of equipment and reagents specification and preparation of tender document.
- Study design and proposal write.

In the meantime work as a partime lecturer of Research Methodology in Ahliya University, collaborating with Edge Consultancy, collaborating advisor with the Ministry of Livestock.

February 2008 – 31st of December 2008: Project-Regional Coordinator for Southern Africa- Support Program to the Integrated National Action Plan (SPINAP) to HPAI project. Based at the Regional Animal Health Centre (OIE, FAO & AU/IBAR) in Gaborone-Botswana and responsible from project implementation in 12 countries. My main responsibilities were:

- Establish AU/IBAR office in Botswana (host agreement, recruitment of the staff, procurement of office furniture, drafting agreement with partner in regional animal health centre).
 - Assist countries with the preparation of the integrated national action plans.
 - Liaise with the relevant authorities in the regional block (SADC) and represent AU/IBAR in all international forum in the region.
 - Assess countries proposals and guide them in the preparation of the country document.
 - Monitor and evaluate country program implementation.
 - Gather and share regional data on HPAI situation.
 - Inform interested countries about potential support from SPINAP project and its conditions.
 - Provide technical to the countries in the region.
 - Collaboration and coordination with international partners.
- **January 2007-Up to : February 2008:** National Epidemiologist and project lead officer-FAO/Avian Influenza Project; main responsibility:
- Coordinate between the different stakeholders and organize the weekly meeting of AI task force.

- Establish a link between FAO and the government and monitor the implementation of FAO projects by the ministry staff.
- Prepare the first draft of the letter of agreement (contract) between FAO and the government of Sudan.
- Formulation and design of proposals and activities.
- Participate in the preparation of tender documents and equipment specification.
- Establishment of an early warning system.
- Formulation of emergency preparedness and response plan.
- Conduct different study to identify the source of the previous outbreak and the risk factor associated with it.
- Contribute in preparation and preparation of awareness package.
- Establishment of surveillance system in commercial farms, wild birds (Participate in survey with Wetland international) and backyard chickens.
- Other activities while working as National Epidemiologist-/FAO/Avian Influenza project included:
 - ❖ Attended Consultant Pre-deployment training for HPAI and HPAI essentials organized by DAI and USAID.
 - ❖ Provided support as national epidemiologist to world bank need assessment mission launched to formulate a five integrated national action programme against HPAI; I was fully involved in all the activities of the team in Northern Sudan.
- **September 2006-December**: Haj Sulieman Poultry farm manager- Development Technology and Services International Company, my main responsibility were:
 - Responsible from design and implementation of all operation (debeaking, vaccination,..) in a farm of commercial layers (more than 60000 in a semi-intensive system).
 - Disease diagnosis and control.
 - Vaccination and bio-security measure against epidemic diseases in the area including vaccination against influenza.
 - Administration and management of the farm.
- **June 2005-June 2006**: Technical advisor for emergency and Preparedness and Zonal coordinator for Somaliland-Somali Animal Health Project-EC funded project- implemented by NGOs Terra Nuova, COOPI, UNA-contracted by COOPI. My responsibilities were:
 - Overall responsibilities of administrative and financial activities in the zonal office of SAHSP.

- Follow up and monitoring of the implementation of the project activities in Somaliland.
 - Coordination with local stakeholders and international partner in the course of the implementation of project activities and formulation.
 - Setting out the organizational arrangement in the different phases of disease emergency (investigative phase, alert phase and operational phase).
 - Provision of technical support to emerging government in Somaliland and Puntland.
 - Establishment of the legal frame that support emergency activities (veterinary code in Somaliland)
 - Development of early warning indicators and a surveillance system for disease prioritized by the stakeholders
 - Establishment of a mechanism for disease outbreak investigation.
 - Formulation of contingency plans for diseases of priority.
 - Technical support of the existing laboratory staff and establishment of a new laboratory.
 - Developing a passive disease reporting system.
 - Policy formulation in the Ministry of Livestock.
 - Capacity building of the ministry staff and the veterinary professional association.
 - Sero-surveillance activities for Rift valley and Rinderpest.

- **2002-June 2005:** Researcher in the department of virology with main responsibility of outbreak coverage, surveillance and research work and viral disease diagnosis (small ruminants and large animals): During this period other specific activities were:
 - Collaborating lecturer at the Academy of medical science and technology. Taught the subject of epidemiology to the first, second and third batch of the master of public health.
 - Visiting researcher at institute of animal population health - Colorado State University in February- March.
 - Technical advisor to the students of first batch of master in tropical public health (help with study design, sample size calculation, data analysis and interpretation).
 - Assistant to the postgraduate coordinator at the academy of science and technology Responsible from organizing the evening courses for batch 3 and all administrative work. Assigned all the authorities and duties of the coordinator for evening batch.

- Collaboration with the hospital of nuclear medicine to establish a cancer registry in Sudan.
- 1998 – 2000: Researcher assistant in the department of diagnosis and pathology in the central veterinary laboratory. Responsibilities were outbreak coverage, specimens collections, surveillance work and diseases diagnosis.
- 1997 – 1998: Veterinary officer in the department of field investigation in the directorate of animal health and epizootic disease control (PARC-Sudan). Main duties were outbreak coverage, collection of epidemiological data and sero-monitoring campaign for rinderpest.
- 1996 – 1997: Veterinary officer in Blue Nile state, responsible for organizing vaccination campaign, outbreak coverage, clinic work and administrative work in the province.

Meeting and Workshop

- 5 weeks training in Participatory monitoring and evaluation-International institute of sustainable development-Colorado State University.
- Participate in tens of national regional and continental workshops and meetings as a presenter, moderator, trainer and participant.
- Training course on financial and administrative procedure-Lilingue Malawi 2nd to 5th of December 2008.
- One day training on Development and use of Logical Frame as a monitoring tool-Nairobi 10th of May 2008.
- Introduction to monitoring and evaluation-two days workshop-Nairobi.

COMPUTER SKILLS

- General: Word, Excel, Power Point, Adobe Acrobat & Internet Explorer
- Statistical software: Stata, SPSS, SAS & Statgraph.
- Epidemiology software: Survey Toolbox, Epi-Info, WinEpiScope,
- Decision and risk analysis software: Treedata, @Risk.
- ROC analysis: Rockit, TGROC
- Disease Mapping: ArcView
- Bayesian Analysis: WinBug
- MS-office project management software.

SPECIFIC SKILLS IN QUANTITATIVE EPIDEMIOLOGY

- Determination of risk factors using logistic regression including assessment of the goodness of fit.
- Application of correspondence analysis when multicollinearity is suspected.
- Determination of antibiotic sensitive pattern and use of odds ratio in drug resistance.
- Determination of intracluster correlation and inflation of the confidence interval with a factor deduced by categorical ANOVA.
- Use of decision tree technique and sensitivity analysis to assess the economic efficiency of vaccination against PPR in Wollo and East Shewa of Ethiopia (Master degree). Implemented in treeage software.
- Use of both standard survival analysis and the modified survival analysis implemented in survey toolbox software (based on retrospective data) to quantify the risk.
- Use of repeated measure ANOVA.
- Determination of cut off for a recently developed ELISA for sero-diagnosis of *Theileria annulata* using Receiver Operating Characteristic Curve (conventional, two graphs).
- Use of Bayesian approach to determine the sensitivity, specificity and prevalence in the absence of a gold standard using Winbugs.
- Use of mathematical models to predict the future of sheep associated Malignant Catarrhal Fever under nomadic conditions of western Sudan and to identify the possible interventions. Markov chain model was used to simulate the transmission of the disease within sheep flocks and compartmental dynamic model to simulate the transmission of the disease between sheep flocks (carrier) and cattle herd. Initial results were obtained from the stochastic models when run in @risk software.
- Disease mapping using the software ArcView (mapping of cancer cases admitted to the center of radioisotope and nuclear medicine in Sudan).
- Study design, sample size calculation, data analysis for more than 20 veterinary and medical postgraduate students.

SPECIFIC SKILLS IN LABORATORY WORK

- Use of competitive ELISA (H and N protein) for sero-diagnosis of Rinderpest (RP) and Peste des Petits Ruminants (PPR), ELISA for Malignant Catarrhal Fever, liquid phase ELISA for sero-diagnosis of Foot and Mouth Disease (FMD).
- Capture ELISA for detection of FMD, RP and PPR antigen.

- Agar gel for antigen detection of PPR, Caprine Arthritis Encephalitis, etc.
- Tissue culture for virus isolation and neutralization test (vero cell, MA, bovine kidney, lamb testicles)
- HI for FMD and IFAT for Rabies.

PUBLICATIONS

- Decision tree analysis and sensitivity analysis of the economic feasibility of peste des petits ruminants disease control in East Shewa and Wollo of Ethiopia
E.B.M. Ali, M. Greiner, A.Gopillo, M. Kyule (ready for submission)
- Survival analysis and Restrospective study of PPR disease in Wool and Shewa of Ethiopia
E.B.M. Ali, M. Greiner, A.Gopillo, M. Kyule (ready for submission)
- Sero-prevalence of peste des petits ruminants in East Shewa and Wollo of Ethiopia I.
E.B.M. Ali, M. Greiner, A.Gopillo, M. Kyule (ready for submission)
- Sero-prevalence of peste des petits ruminants in East Shewa and Wollo of Ethiopia II.
E.B.M. Ali, M. Greiner, A.Gopillo, M. Kyule (ready for submission)
- Validation and cut off determination of spELISA for the diagnosis of *Theileria annulata* in Cattle. Parasitology Research (2005) 97:302-308.
Salih, D. A.; Ahmed, J.; Backiet,,M.; Ali, E. B. M.; El Hussein, A. M.; Hassan, S. H.; Fadl,M. and Jongejan,F.
- Epidemiologic feature of Rabies disease in Sudan (2006)
Journal of Animal and Veterinary Advances, Volume: 5 Issue: 3 Page No: 266-270
Ali, Y., K.S. Intisar, H.A. Wegdan and Ali, E.B.M.
- Determination of the cut off for recently developed ELISA for sero-diagnosis of *Theileria annulata* ISVEE XI –Australia Karin August 2006
Ali, E.B.M., Salih, D.E.A., Salman, M.D.
- Acceptability of Opt-out versus Opt-in HIV Voluntary Testing Strategy among Pregnant Women in A Khartoum State Hospital , Sudan.
XVIII International AIDS Conference, Vienna, 18-23 July 2010
Amel Salih, Olla Mahmoud, Amira Salih, Elzein B. M. Ali,Ilham A. Bashir, Enas Gaafar and Ishag Adam
- Prevalence of Brucellosis in Khartoum State

EIAmin ElRoufaie Mohammed, Shaza Abdel Basit, **ElZein B. M. Ali**, Hawa Rahmat alla Ahmed,
Mohamed Ahmed Mohamed Abakr, Mohammed Rajab Bakheit
Arab Conference for Infectious Disease-Tripoli-Libya, May 2009.

RESEARCH WORK TO BE FINALIZED

- The epidemiology of malignant catarrhal fever in Western Kordofan state in Sudan.
- A simulation mathematical model for sheep associated Malignant Catarrhal Fever under nomadic husbandry system of Western Sudan.
In collaboration with Professor M. D. Salman and Dr. Ashley Hill from Colorado State University.
- Estimation of Sensitivity and Specificity of Theileria annulata indirect sp ELISA in the absence of a gold standard using Bayesian approach.
In collaboration with Professor M. D. Salman and Dr. Ashley Hill from Colorado state university

MEMBERSHIP

- Member of Sudan Veterinary Association
- Member of Sudan Wildlife Conservation society
- Flu prediction Market-Iowa State University

REFERENCES

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