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Improving veterinary services in Bangladesh

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In the poverty-reduction strategy paper, livestock has been recognised as one of the tools for reducing poverty, particles of rural poor women and vulnerable farmers in the country. Sustainable animal production can be expected when it and contagious diseases are eliminated with scientific herd health management. These are highly dependent on the of the livestock production system and the market for its products. Until 1947, the civil veterinary department in British Bengal shouldered the responsibility of controlling epidemic of animal diseases. Subsequently, this dependent of Animal Husbandry in 1948. The dairy and poultry farms of the then Agriculture Department merged with the newly-created directorate. In 1962, it became the Directorate of Livestock Services, which was transformed into the Department of Livestock Services (DLS). At present, veterinary services provided by the mostly (a) clinical services, (b) preventive services, (c) input deliveries, and (d) veterinary public health and food A defined official veterinary service in line with the World Animal Health Organisation is absent.

Comprehensive reports on livestock services are available, where an integrated approach to disease survepidemiology of infectious diseases together with strong veterinary public health services for controlling 'zoonotic' and safe food production are highlighted. The implementation of laws relating to disease control, animal slaugiment inspection has been suggested.

The private sector's involvement in production of vaccines, medicines, animal feeds, and breeding of food-animals I recommended. Besides, an institutional reform defining the mandate and function of the DLS to strengthen its cal provide public services such as monitoring, control and prevention of diseases, including trans-boundary transmission, veterinary public health, quality assurance of private sector services, and provision of info particularly to the poor on new technologies, management practices and farming systems are suggested.

The yearly operational fund available for the DLS from the revenue budget is only 5 per cent. The DLS purchases of distribution among the farmers free of charge, but the quantity is grossly insufficient. Private investments in vaccidrugs amount to Tk 2,100 million (\$35 million), of which feed additives, vaccines and drugs constitute 15 per cent cent and 63 per cent respectively. Sales of local products constitute 55 per cent of the market and imported product 45 per cent of the market. There are over 50 pharmaceutical companies that are either national enterprises or subton full inational companies. These companies manufacture or import veterinary drugs, vaccines, premixes and vital

The main constraints facing the veterinary services are (a) limited veterinary services provided by the DLS (sub-district) Veterinary Hospital, (b) no quality control for vaccines, drugs, feeds and breeding tools and mate non-strategic disease control programme, (d) poor disease investigation facilities, (e) weak linkage between disporatories and surveillance system, (f) no epidemiological unit in the DLS for disease surveillance, (g) absendant training services, (h) lack of regulations pertaining to veterinary public health and food health and hygiene, (i) of continuing veterinary education and training, (j) absence of continuing professional development (CPD), (k) training facilities for an auxiliary staff, (l) absence of quarantine service and veterinary policing and (m) inadequate for veterinary and biomedical research.

The major issues for modernisation of veterinary services to cope with the changing need of the new century institutional reform of the DLS in line with the World Animal Health Organisation, (ii) quality assurance of product and services, (iii) human resource development, (iv) strengthening of veterinary education, research and train establishment of disease surveillance, emergency planning and quarantine services (vi) framing and refor

legislation for legal coverage, (vii) capacity building of Bangladesh Veterinary Council for framing and imple regulatory affairs, (viii) capacity building of veterinary public health and food safety, (ix) establishing or strengthe veterinary drugs control authority.

Institutional reform: The DLS provides veterinary services of a private nature and it is limited mainly to headquarters and the adjacent areas. It pays little attention to public tasks like disease surveillance, enforce veterinary regulations, quality assurance and certification of services and products, control of alien diseases and quof animals and animal products, food safety, 'zoonotic' disease surveillance and control.

The structure and modus operandi of the DLS are neither suitable for rendering public services nor sufficient for deprivate services. The DLS acutely needs institutional reform with clear mandate and function in order to entrapability in rendering public services and to ensure gradual withdrawal from private services.

Reform is needed for development of a national veterinary service that meets the conditions set by the International des Epizooties (OIE), that is, World Animal Health Organisation. It is imperative that a national veauthority should consistently be led by a veterinary surgeon and also supervised by competent veterinary surgeolevels. The entire process needs a thorough overhauling for achieving targets. The process should take into acc existing farming systems and financial capacity of the farmers.

Quality assurances: The quality assurance system for drugs, vaccines, semen, embryo feeds, services, etc. is non-existent, except the registration of veterinary drugs by the Directorate of Drug Administration. The quality of produced by the DLS is internally assessed. There is no authority in the country to oversee the quality of services by veterinary professionals and para-professionals. The Bangladesh Veterinary Council (BVA), although respon licensing veterinary professionals, does not have the capacity to ensure quality veterinary education, reseaservices. Many NGOs and government offices offer different types of short courses and training without quality as by a competent authority.

Human resource development: There is a serious dearth of continuing veterinary education for practising veterinar auxiliary staff. Training institutes of the DLS are neither equipped nor functional in terms of offering need-based traits officials, staff and clients.

The Departments of Youth, Child and Women Affairs, the Bangladesh Rural Development Board (BRDB), the Ar Village Defence Directorate and Bangladesh Academy for Rural Development (BARD) offer short training program livestock farmers. However, training offered is not effective because of the weakness of the training modules and of the trainees. Some non-government organisations (NGOs) also provide short training for their field work beneficiaries. These training programmes are generally inadequate and facilitated by people without relevant background.

Veterinary research: The Bangladesh Livestock Research Institute (BLRI) is neither adequately staffed nor funded out research on veterinary sciences including biomedical research. Very little has been done in identification of pa epidemiology of important diseases, identification and characterisation of 'zoonotic' and food-borne diseases, of cheap and effective techniques for quick identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (with the exception of developing slide ELISA (Inked immuno sorbent assay, a test that uses antibodies and color change to identify a substance) for identification of pathogens (inked immuno sorbent assay, a test that

Veterinary public health: The issues considered such as food safety, control of 'zoonotic' diseases, meat inspec abattoir management are very poorly addressed. It has implications for trade issues, human health and envir Classically, veterinary and human health authorities address these areas jointly. However, coordination between the

services is virtually non-existent. In the DLS, there is a small section with the mandate of 'zoonotic' disease through surveillance, but it suffers seriously from shortage of human capital, funding and laboratory facilities. It the veterinary public health (VPH) section has no support through a legal framework to implement the mandates.

Municipalities and city corporations are entrusted with carrying out meat inspection under their jurisdiction. Howeveterinary surgeons are generally inadequately trained in VPH and food hygiene. There is no proper regulatory fra which should address sanitary and safety issues. For other foods of animal origin such as milk, meat, eggs, a value-added products, the sanitary inspectors of the health department have the authority of inspection and examinate such products. But they are neither properly trained nor supervised by competent veterinary surgeons. This marketing of products that pose the threat of spreading diseases in humans and these are not also friendly environment.

Export of animal products needs to follow the World Organisation for Animal Health (OIE) or importing c standards. In the near future, the role of international organisations is likely to intensify in monitoring regional diswhich Bangladesh should be prepared to participate. To this end, strengthening of VPH services is essential for part in the process of regionalised disease control aimed at increasing international market access, ensuring safety o health and protect the environment.

Disease surveillance, monitoring and a strong reporting system are the keys to any disease control initiative. The surveillance and reporting system was instituted with donors' help, but after completion of the project, the system facing the lack of funding and manpower. Different institutes have done sporadic disease monitoring, but till date to been no national disease surveillance using sero-prevalence techniques.

There was no animal quarantine system in Bangladesh before promulgation of the Animal and Animal Product Qu Act, 2005. Absence of an animal quarantine system leads to entry of trans-boundary animal diseases and impede to trade.

Natural calamities and disease epidemics are frequent phenomena that particularly affect the poor people. It Bangladesh does not have any emergency preparedness plan to combat such adverse situations.

Legislations and regulations: Laws and regulations are essential for high-quality service delivery and assurance c products and also for trade access. Bangladesh has laws and regulations to cover some areas, but the reframeworks and implementation are still weak. Furthermore, the institutions responsible for drafting and imple laws and regulations have inherent weaknesses in terms of requisite knowledge and expertise.

The BVC should come forward to shoulder the responsibilities with the concerned ministries in formulat implementing the legal aspects for better protection of human health and environment. On the other hand, profe skills should be enhanced.

In order to update the present veterinary services with specific emphasis on the reduction of poverty and its susta a comprehensive review and assessment are done to address these issues as related to the national need framework of the Animal Health Code (OIE, 2003).

Privatisation of veterinary services:

Veterinary services are the areas where economic classification of various components differs with different interpretable. The livestock development programme is exacerbated by deficient veterinary infrastructure and inadequate disease programmes, veterinary legislation and information services, as well as a lack of quality drugs and biologics. It disease control and prevention are the major tasks for the public sector, while some other veterinary tasks treatment of individual sick and injured animals could be done in response to the needs of the owners.

The DLS has been devising and implementing strategies for progressive control through preparedness plar diseases.

Empowerment of veterinary public health section: Veterinary public health, food hygiene and zoonoses control are to improve the health status of the people. Poverty is thought to be one of the risk factors for zoonoses and for diseases in both rural and urban consumers. Consumers should be provided with safe food but, unfortunately, the of the DLS does not have the required funds, facilities and manpower to determine the presence of harmful agents Attention should be given to the risks at the level of both production and consumption of food of animal origin. It the risks of transmitting 'zoonotic' diseases, risk of occupation health hazards and the risk to environmental health may affect the health status of domestic and companion animals.

Bangladesh has been facing serious threat of 'zoonotic' diseases such as rabies, anthrax, brucellosis tube cysticercosis, echinococcosis and toxocariosis while Nipah, campylobacter, salmonellosis, E. coli and fungal infect the more recent problems. There is also a serious risk with the avian influenza.

The present VPH section of DLS needs to be revitalised with clearly defined function, duties and responsibilities. building is required to perform surveillance, diagnosis and epidemiological analyses. Also sanitary measures neintroduced in the meat industry. They should participate in international fora (FAO/Codex. WHO, OIE, WTO) to intefunctions in future.

Development of para-vet/community animal health workers: The DLS is providing veterinary services through its of 464 Upazila Veterinary Hospitals (UVH). This constitutes the administrative units of 64 districts under six c Around 20-25 sick and injured animals are attended to as outpatients daily. In addition, it extends outdoor service least 5-10 sick and sub-fertile animals at small and commercial farms. It is very hard for one veterinary surgeon with all the work.

The DLS has four training institutes for imparting training to auxiliary staff, and one officers training institute (continuing the veterinary education to update their knowledge. After getting appointment as veterinary field a (VFA) and veterinary 'compounders', these auxiliary staff are trained at those institutes.

Capacity building for regulatory affairs: Every veterinary surgeon has of course a duty as a citizen to keep at current developments in the laws of the country and to take care of observing those.

The BVC should establish a sound legal framework in line with Sanitary and Phyto-sanitary (SPS) Agreement u World Trade Organisation (WTO), which is required for trade purpose; livestock production and processing se should be organised and harmonised as per internationally acceptable standards, so that the internal regulation s implemented and monitored in all aspects of livestock health and production. The BVC should take the respons frame regulations and get them approved by the parliament.

Bangladesh has inherited legislation pertaining to animal welfare, health and production from the British India. these regulations and Acts have been modified or changed but not implemented. Regulations pertaining to slaughter, meat inspection, drug residue, zoonoses and animal welfare and quality assurance/control of all aspects to livestock production and health are regulated and controlled by different ministries and organisations, but these in practice due to lack of coordination and responsibility.

This is an abridged version of an article titled 'Veterinary services: Present status and future plans' by Professor I Shahi Alam, Dean, Faculty of Veterinary Science, Bangladesh Agricultural University, Mymensingh.

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