



Inaccurate dose and improper waste management could pose AMR-Expert says

Antibiotic Awareness Week 2019 observed

The World Health Organization celebrates antibiotic awareness week for the first time in 2015 to make people aware of the use of antibiotics. In line with this, November 18 to 24 of this year was declared as Antibiotic Awareness Week. In line with the World Health Organization's initiative, the Department of Physiology, Biochemistry and Pharmacology of CVASU organized a seminar on 4th to raise awareness among people about the use of antibiotics. The seminar has declared the winners of the Antibiotic Awareness essay Composition and poster drawing competition which was held from November 18 to 24. In addition, participants were invited to contribute in the seminar through a questionnaire on antibiotic resistance and how to mitigate the problem. Later, Prof. Dr. Mohammad Mahmudul Hasan has sum up the feedback of the participants through a PowerPoint presentation. Participants provided comments on inaccurate dosage and use of antibiotics, use of antibiotics in food, improper waste management at veterinary and medical hospitals as a reason for the decline in antibiotic performance at the seminar. Participants also emphasized the role of the university in raising awareness of antibiotic supplements. Dean, Faculty of Veterinary Medicine, faculties, awardee, Faculty of Veterinary Medicine Student Association and members of the core Committee of IVSA, Bangladesh and One Health Young Voice, Bangladesh were present in the seminar.

Editor in Chief

Mohammad Mahmudul Hassan
Head of the Department

Editor Panel

A. K. M. Saifuddin
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Mohammad Belayet Hossain
S. K. M. Azizul Islam
Shahneaz Ali Khan

Amir Hossan Shaikat
Md. Shohel Al Faruk
Mohammad Ashif Intiaz Shawn
Jabin Sultana
Md. Ridoan Pasha

Publications

1. PK Das, **MA Imtiaz**, **MR Alam**, **AH Shaikat** (2019). Correspondence between hormone levels in blood and feces or urine in pregnant cattle. *Bangladesh Journal of Veterinary and Animal Sciences* 7, 64-68
2. **MR Alam**, MJ Islam, A Amin, **AH Shaikat**, **MR Pasha**, RE Doyle (2019). Animal-Based Welfare Assessment of Cattle and Water Buffalo in Bangladeshi Slaughterhouses. *Journal of Applied Animal Welfare Science* 1-12
3. **MM Hassan**, S Begum, AA Faruq, M Alam, T Mahmud, A Islam (2019). Multidrug Resistant Salmonella Isolated from Street Foods in Chittagong. Bangladesh. *Microbiology Research Journal International*, 1-8
4. MM Hossain, FMY Hasib, M Bayzid, **MM Hassan**, MA Hossain, MA Alim (2019). Prevalence of gastro-intestinal parasitic infections in Sheep of costal belt under Noakhali district, Bangladesh. *Bangladesh Journal of Veterinary and Animal Sciences*, 7 (2), 32-37
5. A Islam, S Islam, J Ferdous, MK Rahman, MH Uddin, S Akter, MH Rahman, **MM Hassan** (2019). Diversity and prevalence of parasitic infestation with zoonotic potential in dromedary camel (*Camelus dromedarius*) and fat-tailed sheep (dhumba) in Bangladesh. *Journal of Advanced Veterinary and Animal Research*, 6(1), 142-147
6. H Akter, **AH Shaikat**, **MA Imtiaz**, A Islam, **SA Khan**, **MM Hassan** (2019). Prevalence and multidrug resistance pattern of *E. coli* isolated from street food. *Bangladesh Journal of Veterinary and Animal Sciences*, 7 (2), 69-74
7. S Islam, SR Barua, A Islam, SP Moni, H Uddin, J Ferdous, MK Rahman, **MM Hassan**, AKMA Rahman and S Chawdhury (2019). Epidemiology of Sub-Clinical Mastitis in Dairy Cows in Urban Areas of Chittagong, Bangladesh. *Turkish Journal of Agriculture-Food Science and Technology*, 7(6), 845-850
8. AAM Sabuj, M Rahman, N Barua, ZF Haque, A Pondit, K Islam, **MM Hassan** (2019). Seroprevalence of Salmonella Infection in Commercial Layer Chickens in Cox's Bazar District, Bangladesh. *American Journal of Microbiological Research*, 7(1), 19-23
9. S Islam, J Ferdous, MK Rahman, S Akter, **MM Hassan**, A Islam (2019). Reference values for hematological and serum biochemical parameters of dromedary camel (*Camelus dromedarius*) in sub-tropical climate of Bangladesh. *Advance in Animal and Veterinary Sciences*, 7(4), 232-237
10. MK Rahman, S Islam, M Rahman, J Ferdous, S Akter, MM Rahaman, MA Hossain, **MM Hassan**, A Islam (2019). Hematological and biochemical reference values of Asian house shrews (*Suncus murinus*) in Bangladesh. *Veterinary World*, 12(9), 1514-1518
11. B Mallick, S Sultana, **MR Pasha**, **SKMA Islam** (2019). Nitroxylin efficacy and some antimicrobials sensitivity against organisms isolated from Asiatic elephant, Bangabandhu safari park, Dulahazra, Bangladesh. *Bangladesh Journal of Veterinary and Animal Sciences* 6, 39-44
12. HM Espiritu, **MSA Faruk**, GJ Lee, BIM Lopez, SS Lee, YI Cho (2019). Assessment of bovine blood sample stability for complete blood count and blood gases and electrolytes analysis during storage. *Korean Journal of Veterinary Service*. 42(4), 265-274.
13. **MB Hossain**, MM Khan, MA Rumi, M Ahammed, MS Bari (2018). Comparison of hemato-biochemical parameters between apparently healthy and bovine tuberculosis affected cattle in Chittagong, Bangladesh. *Bangladesh Journal of Veterinary Medicine*. 16(1), 53-57
14. MA Rumi, MS Bari, MH Abid, G Rabbani, **MB Hossain** (2018). Comparative study on dog bite and rabies in livestock and pet animal with their management in Faridpur sadar upazila veterinary hospital. *Research in Agriculture Livestock and Fisheries*. 5(2), 215-224

Conference presentation

1. **MSA Faruk**, H Lee, B Park, S Jin, S Lee, S Kwon, E Kim, Y Cho (2019). Prevalence of subclinical ketosis and its effects on milk production and blood chemistry in high yielding dairy cattle. American Dairy Science Association Annual Meeting, 23-26 June, 2019, Cincinnati, Ohio, USA
2. **MSA Faruk**, H Lee, S Jin, S Lee, E Kim, Y Cho (2019). Subclinical hypocalcaemia: its prevalence and effects on blood and milk production in high yielding dairy cows in Korea. Conference of research workers in animal diseases, 2-5 November, 2019, Chicago, Illinois, USA.
3. LL Mamuad, SC DaeJeong, H Kim, H Lee, S Ramos, M Miguel, A Son, M Islam, S Lee, **MSA Faruk**, H Espiritu, SS Lee. (2019). Ornamental fish, *Cyprinus carpio*, fed with fishmeal replacement *Tenebrio molitor* and *Hermetia illucens*. 60th Anniversary 2019 International Meeting of the Microbiological Society of Korea, 17-19 April, 2019 in Jeju, Korea.
4. H Espiritu, **MSA Faruk**, S Jin, J Han, Y Cho (2019). Characteristics of *Theileria orientalis* infection Korean dairy farm. The 12th Meeting of Asian Society of Conservation Medicine, 25-27 October, 2019, Phnom Penh, Cambodia.
5. H Espiritu, **MSA Faruk**, G Lee, B Irvine, M Lopez, S Lee, Y Cho (2019). Assessment of Bovine blood sample stability for complete blood count and blood gas analysis during storage. The 72th Congress of Korean Society of Veterinary Clinics, 14 December 2019, Seoul, Korea.
6. T Dey, S Biswas, A Hossain, SD Roni, SZT Bristi, F Ahmmed, **MR Alam** (2019). Introduction of neutering and vaccination program to control free-roaming dog population in CVASU. Proceedings of the 16th International Scientific Conference of the Chattogram Veterinary and Animal Sciences University, 19-20 October, 2019, Chattogram, Bangladesh.

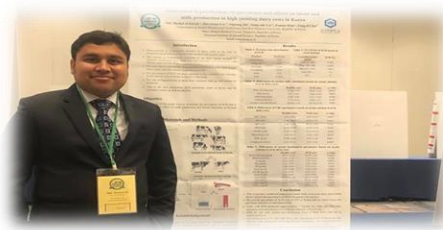
7. **MR Pasha, MA Imtiaz, J Sultana, MM Hassan, MB Hossain, MR Alam** (2019). Assessing the welfare and change of physiological indices at different temperature in broiler farming systems. Proceedings of the 16th International Scientific Conference of the Chattogram Veterinary and Animal Sciences University, 19-20 October, 2019, Chattogram, Bangladesh .

8. **MR Pasha, MM Hassan, MR Alam** (2019). Assessing the food safety condition of the broiler shops and broiler meats at the live bird markets in Chattogram city. 10th One Health Bangladesh Conference, 26-28 November, 2019, Dhaka, Bangladesh.

9. **MR Pasha, MB Hossain, MM Hassan, MR Alam** (2019). Assessing the welfare and hygienic practices of broiler birds at the kitchen markets. 25th Annual Scientific Conference of Bangladesh Society for Veterinary Education and Research, 23-24 February, 2019, Mymensingh, Bangladesh.

10. **MK Rahman, MA Samad, S Islam, MH Uddin, MA Rumi, MK Ostal, E Hagan, JH Epstein, MS Flora, MM Hassan, A Islam** (2019). Eco-epidemiological assessment of antimicrobial resistance of Salmonella, Staphylococcus and Enterococcus from Rhesus Macaque at human- animal interfaces in Bangladesh. 10th One Health Bangladesh Conference, 26-28 November, 2019, Dhaka, Bangladesh

11. **MA Rumi, A Islam, MK Rahman, S Islam, MH Uddin, MS Flora, JH Epstein, MM Hassan** (2019). Epidemiology of antimicrobial resistance patterns of staphylococcus spp, E coli and salmonella spp isolated from rodents and shrews in Chattogram, Bangladesh. 10th One Health Bangladesh Conference, 26-28 November, 2019, Dhaka, Bangladesh.



Dr. Hassan presented paper at “10th One Health Conference Bangladesh” at Dhaka, Bangladesh in November 2019

Dr. Alam is presenting a paper on stray dog control at 16th International Scientific Conference (ISCON-XVI) in CVASU, October 2019

Dr. Faruk presented poster at “CRWAD (Conference of research workers in animal diseases) Conferences” held at Chicago, Illinois, USA in November, 2019



Dr. Pasha is taking the ‘Best Oral Presenter’ award of 16th ISCon-CVASU from Hon’ble Vice-chancellor of CVASU



Dr Alam is the Co-Chair at 7th Pan Commonwealth Veterinary Conference of the Commonwealth Veterinary Association (PCVC7) in Bangalore, India, March 2019

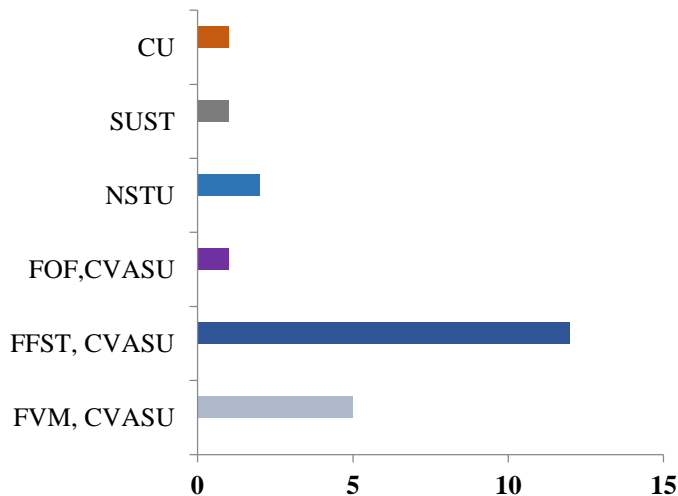
Postgraduate Alumni

Alumni	Thesis title	Supervisory team
Dr. Md. Ridoan Pasha	Assessing and addressing the welfare and food safety issues of broiler chickens	Prof. Dr. Mohammad Rashedul Alam, Prof. Dr. Mohammad Belayet Hossain
Major Dr. Razibul Hasan	Effects of german and maize grasses on milk and blood of dairy cows	Prof. Dr. Mohammad Rashedul Alam, Asso. Prof. Dr. Shahneaz Ali Khan

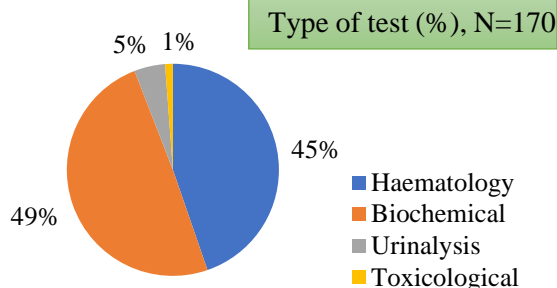
Ongoing Projects

Project Name	Investigatory team	Funding
Food Safety issue: antimicrobial uses and their residues in foods of animal origin	Prof. Mohammad Mahmudul Hasan Asso. Prof. Dr. Shahneaz Ali Khan	BANBEIS
Effective control of dog population in Chattogram Veterinary and Animal Sciences University Campus	Prof. Mohammad Rashedul Alam Assist. Prof. Tuli Dey	UGC
Understanding the effect of endocrine disrupting chemicals (EDCs) on ovarian function in rabbit	Asso. Prof. Amir Hossan Shaikat Assist. Prof. Mohammed Ashif Imtiaz	UGC
Understanding the relationship of serum biochemical profile and hormonal level in repeat breeder cow	Assist. Prof. Jabin Sultana Asso. Prof. Amir Hossan Shaikat	UGC

Postgraduate Student Support



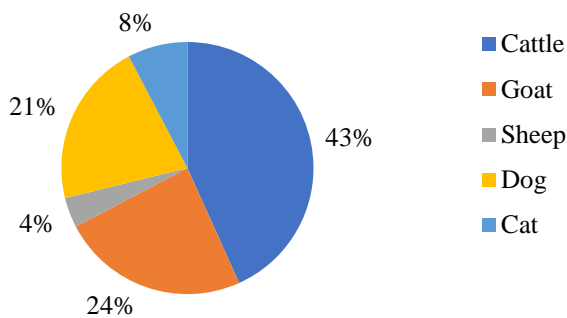
Public Services Statistics



Citizen Charter

- ❖ Haematology
- ❖ Biochemical analysis
- ❖ Urinalysis
- ❖ Hormonal assay
- ❖ Toxicological testing
- ❖ Water quality testing
- ❖ Vitamin assay
- ❖ Mineral assay

Clinical samples tested according to species (%) N=102



Popular Articles



Dr Amir is sharing his research activity to the school kids in Biotechnology summer schooling camp 1.0

1st Departmental Newsletter

Department of Physiology, Biochemistry and Pharmacology

NEWSLETTER

2019, Issue-1

A LETTER FROM THE HEAD

Editor in Chief
Muhammad Mahmud Hassan
Head of the Department

Editor Panel
A. K. M. Saifuddin
Muhammad Rashadul Alam
Mohammad Rezaul Hossain
S. K. M. Azad Islam
Shahmazz Ali Khan
Amir Hassan Shaikat
Md. Shohaf Ali Faruk
Muhammad Ashf Inzaq Shaan
Jabin Sultana

In this issue
Publications
Conference presentation
Support Services
Activities

It is a matter of pride and satisfaction for Department of Physiology, Biochemistry and Pharmacology of Chattogram Veterinary and Animal Sciences University (CVASU) to bring out the 1st Departmental Newsletter. This Newsletter is like a mirror which will update the clear picture of all sorts of activities such as articles, conference presentation, public services by this department and faculty members as well. In the very first issue it has compiled the overall activities of the department in 2018.

As this department has made great progress in academic and public services we want to share it to all.

I congratulate the Editorial Panel of this Newsletter who have played wonderful role in accomplishing the task.

We will keep trying to publish it annually.

Prof. Dr. Muhammad Mahmud Hassan, PhD
Head

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Trial Results
Adjusted FCR and Weight Gain, 60-120

Results
MICROBIOLOGICAL ANALYSIS
Analysis of salmella/bacteria/Coliform in duckweed. Prevalence: 3 days post-infection and 7 week post-infection.

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