**AN ANTIMICROBIAL RESISTANCE: A CASE REPORT ON 10 DOGS IN SAQTVH, CVASU**

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**A CLINICAL REPORT SUBMITTED**

**BY**

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**Intern ID: 13**

**Roll No: 13/13**

**Registration No: 923**

**Report Submitted in Partial Satisfaction for the Requirements for the Degree of**

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**Chittagong Veterinary and Animal Sciences University**

**Khulshi, Chittagong-4225**

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**LIST OF ABBREVIATION AND SYMBOLS USED**

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| **ABBREVIATION AND SYMBOL** | **ELABORATION** |
| % | Percent |
| AX | Amoxycillin |
| AM | Ampicillin |
| CTX | Cefotaxime |
| CIP | Ciprofloxacine |
| DO | Doxycycline |
| CN | Gentamycine |
| CFM | Cefixime |
| P | Penicillin G |
| SXT | Sulphamethaxazole |

**Abstract**

The aim of this study was to investigate antimicrobial resistance in dogs bought to the Shahedul Alam Quedery Teaching Veterinary Hospital (SAQTVH), Chittagong Veterinary and Animal Sciences University (CVASU). During the period of March 2018 to May 2018, 10 rectal and 10 nasal swabs from 10 dogs were isolated and submitted to the laboratory of Poultry Research and Training Centre (PRTC) for further investigations. The Bauer-Kirbey method of disc-diffusion was used to know the resistance against 9 commonly used antimicrobials in pet animal practice. High rate of resistance were found against cefixime (100%), penicillin G (100%), sulphamethaxazole (100%) followed by ampicillin (95%) and amoxycillin (85%). Ciprofloxacine and gentamycine were found to be sensitive compare to the other tested antibiotics. The results of this study showed the preliminary status of antibiotic resistance in dogs coming to SAQTVH, CVASU. Further detail study is recommended to know the real situation of antibiotic using this hospital. The high resistance rates against antibiotic are of public health significance as dogs are supposed to be the main source of infection in human beings.

**Key words:** Antimicrobial, Resistance, Dog, SAQTVH, CVASU.