



# Hospital based survey on occurrence and management of diseases of dogs and cats at Veterinary Teaching Hospital, Bangladesh Agricultural University, Mymensingh

Sayra Tasnin Sharmy<sup>1</sup>, Md. Mamunur Rahman<sup>1</sup>, Adnan Ahmed<sup>1</sup>, Rafsun Jani<sup>2</sup>, Md Hasibul Haque Hasib<sup>2</sup>, Abdul Wahab<sup>3</sup>, Redwanul Islam<sup>4</sup>, Sonia Parvin<sup>1</sup>, Md. Taohidul Islam<sup>1\*</sup>

<sup>1</sup>Department of Medicine, Bangladesh Agricultural University, Mymensingh-2202, <sup>2</sup>Faculty of Veterinary Science, Bangladesh Agricultural University, Mymensingh-2202, <sup>3</sup>Shahjalal University of Science and Technology, Sylhet, <sup>4</sup>Dept. of Surgery and

obstetrics, Bangladesh Agricultural University, Mymensingh-2202

\*Corresponding author: Prof. Dr. Md. Taohidul Islam; e-mail: taohid@bau.edu.bd

## Introduction

- Dogs and cats are popular worldwide, including Bangladesh, contributing to social, mental, and physical well-being (Robertson et al., 2000).
- Despite benefits, pets can transmit various diseases, posing socio-economic and environmental threats (Moodie, 1995).
- Pet patients have increased significantly at VTH in recent years, and the limited data on pet diseases highlights the need to study disease patterns and develop management protocols for improved treatment and control (Samad, 2019).

## Objectives

- To estimate clinical frequency of diseases in dogs and cats at the Veterinary Teaching Hospital, Bangladesh Agricultural University, Mymensingh
- To evaluate the treatment given against those diseases and disorders of dogs and cats

## Methodology

### Study area

VTH, BAU

### Data collection

Demographics information

Clinical conditions

Disease Management & Follow-up

### Clinical examination

General examination

Temperature

Pulse rate

Respiratory rate

Diagnostic tests

Blood test

X-ray

Ultrasound

### Statistical and Spatial Analysis



Data entry

Visualization of data



Descriptive analysis

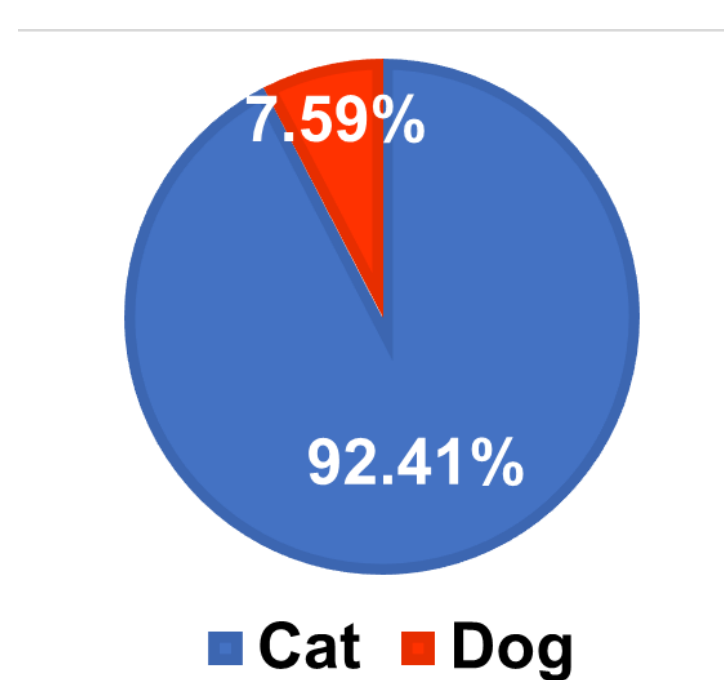
Chi square test



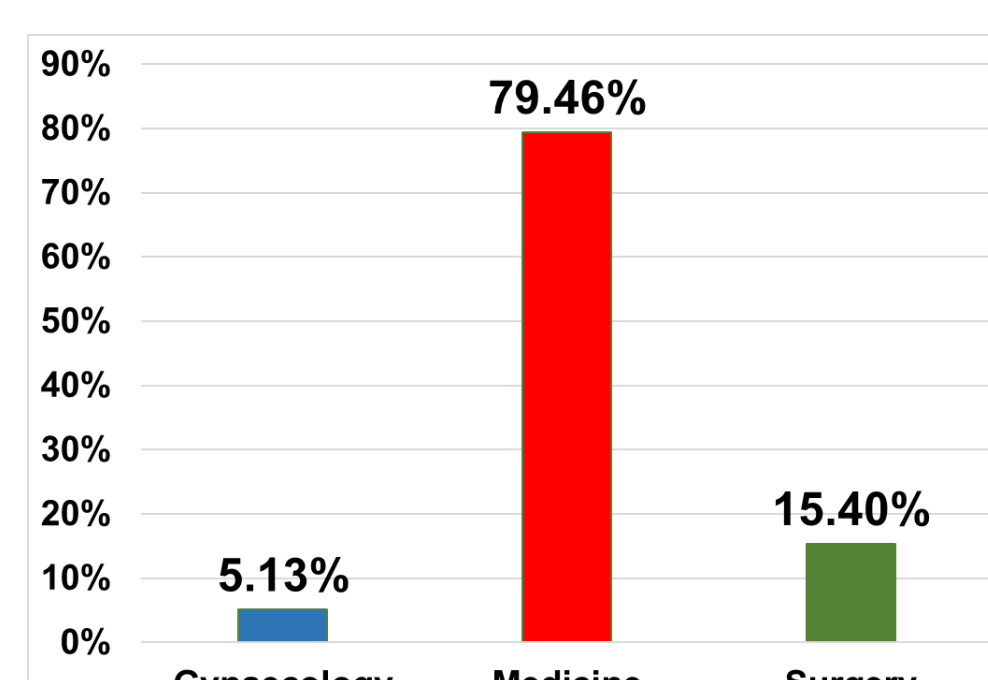
Study area map

## Results

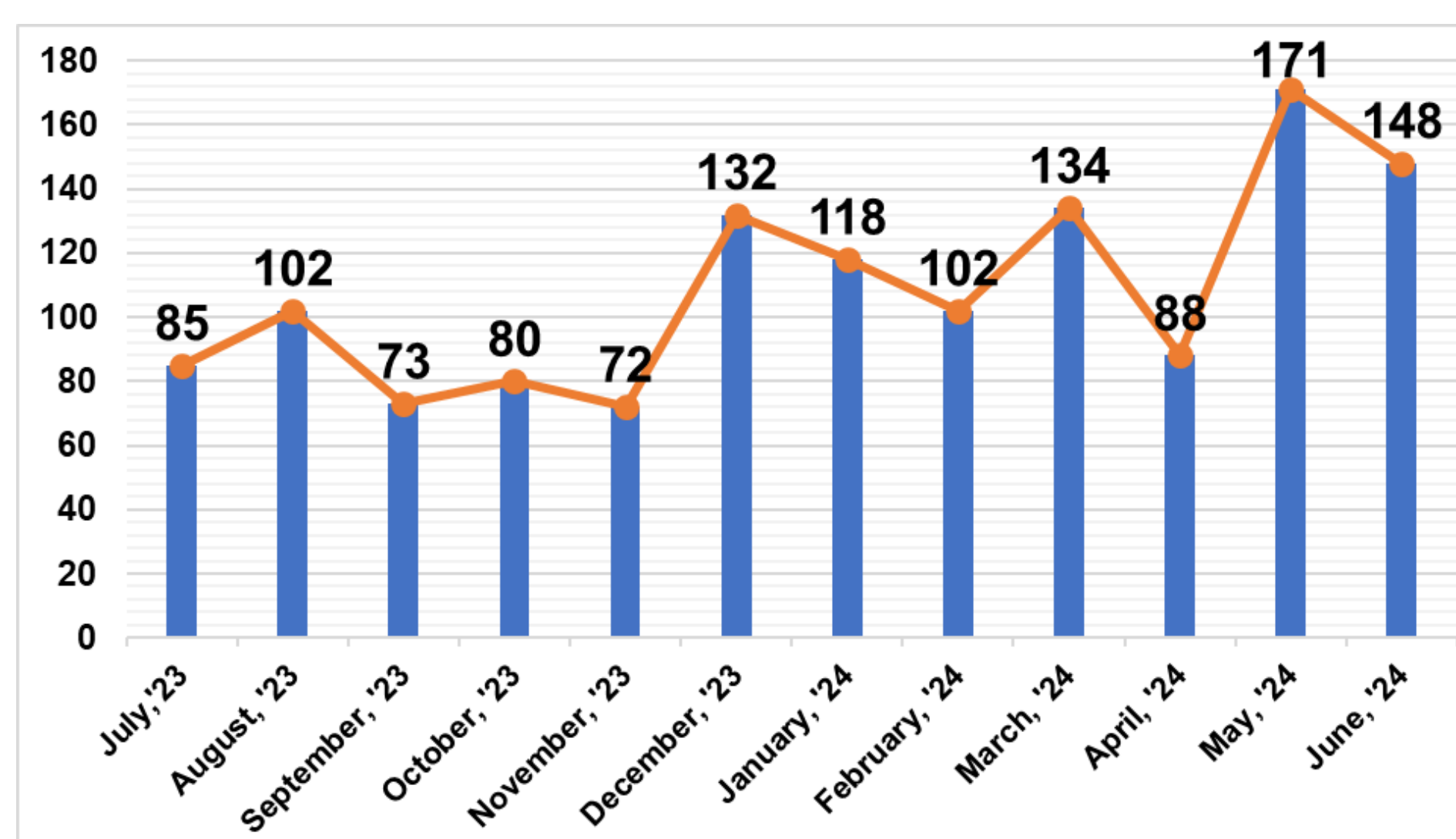
### Demographic characteristics



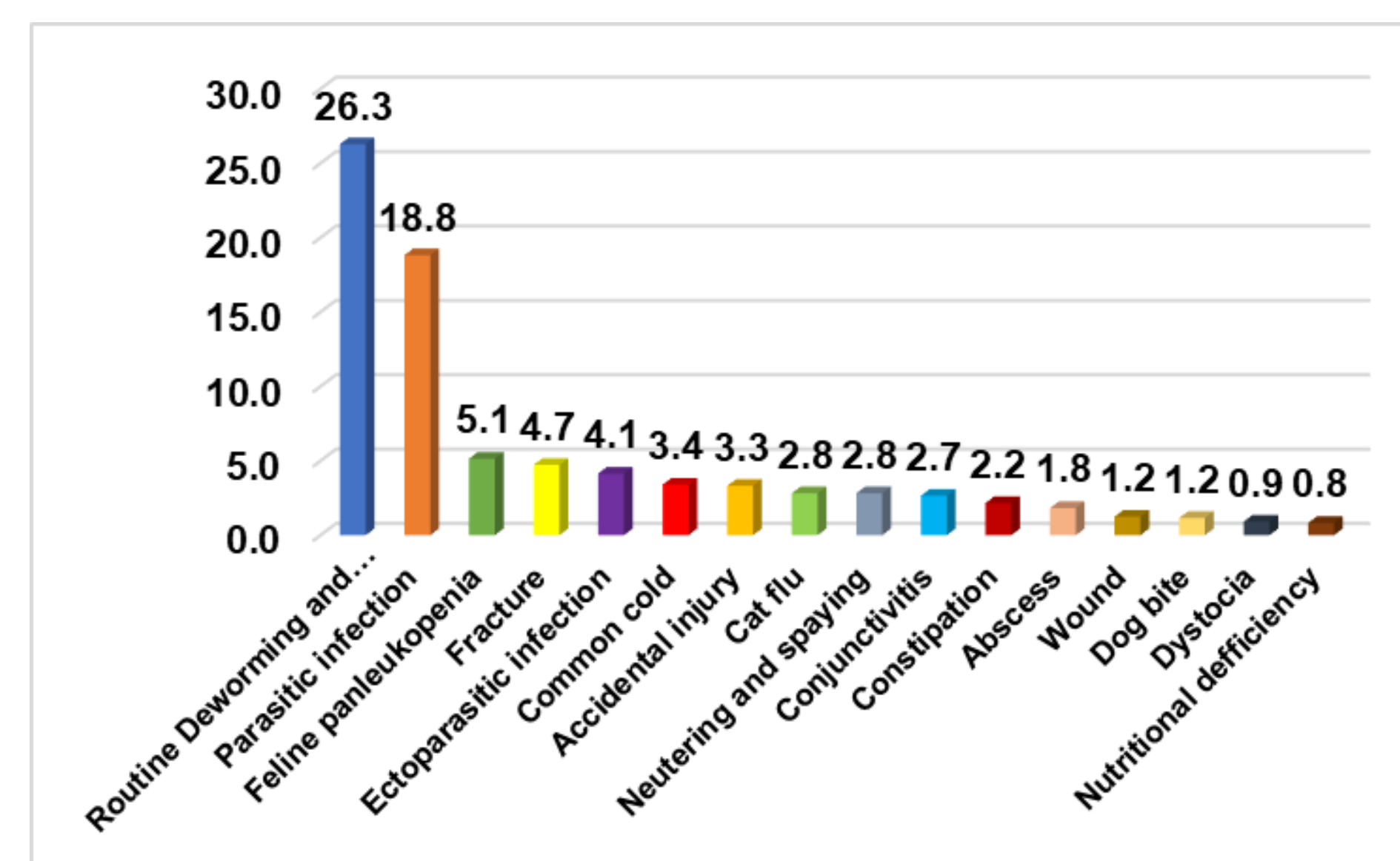
### Distribution of diseases



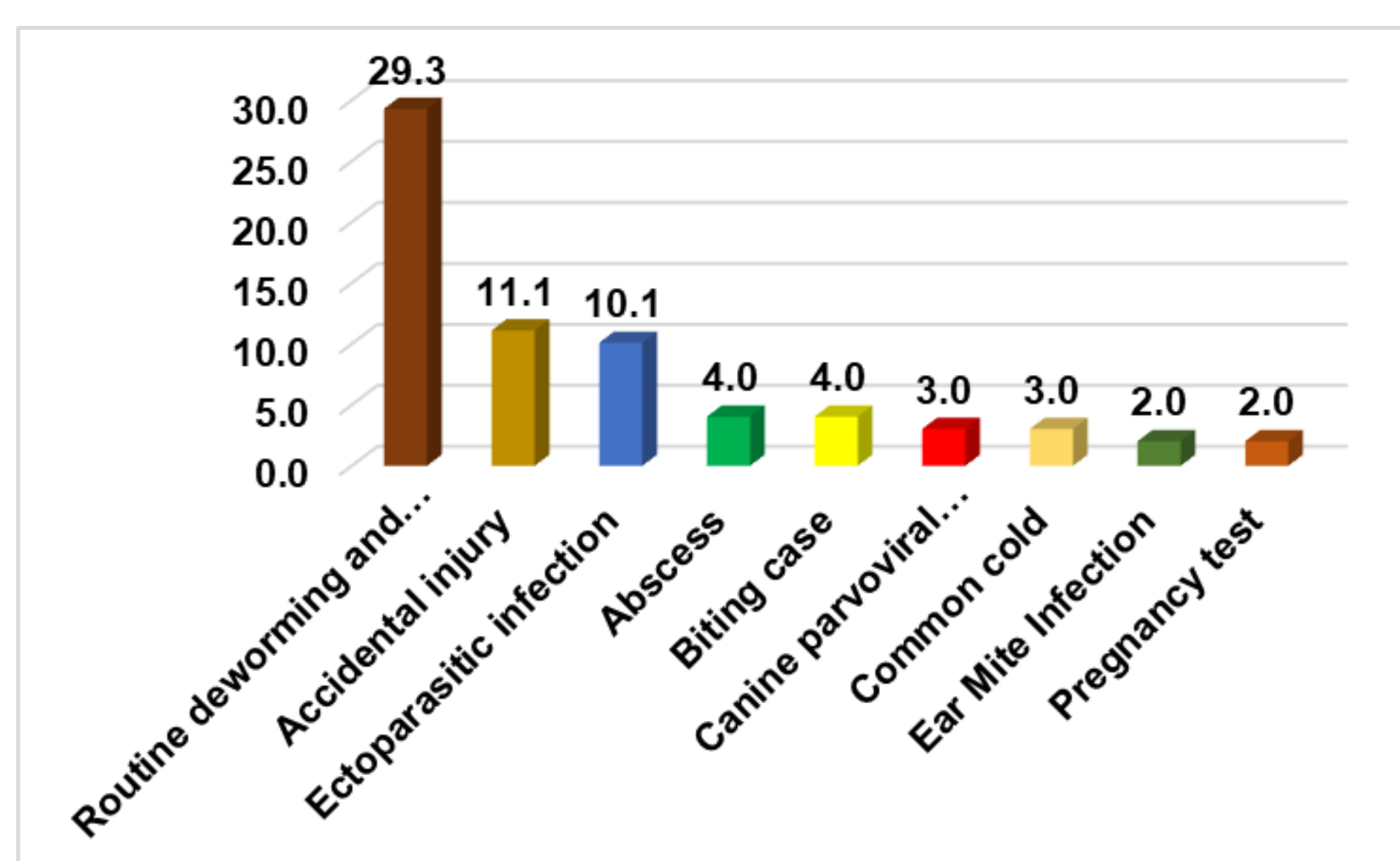
### Month wise disease distribution



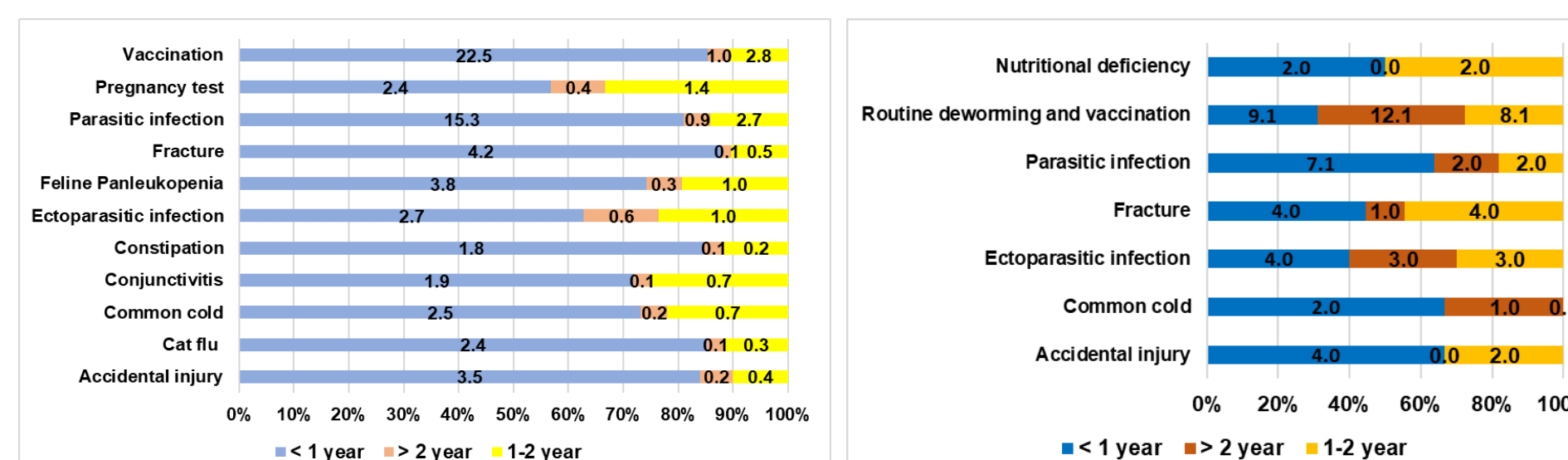
### Distribution of most frequent diseases in cat



### Distribution of most frequent diseases in dog



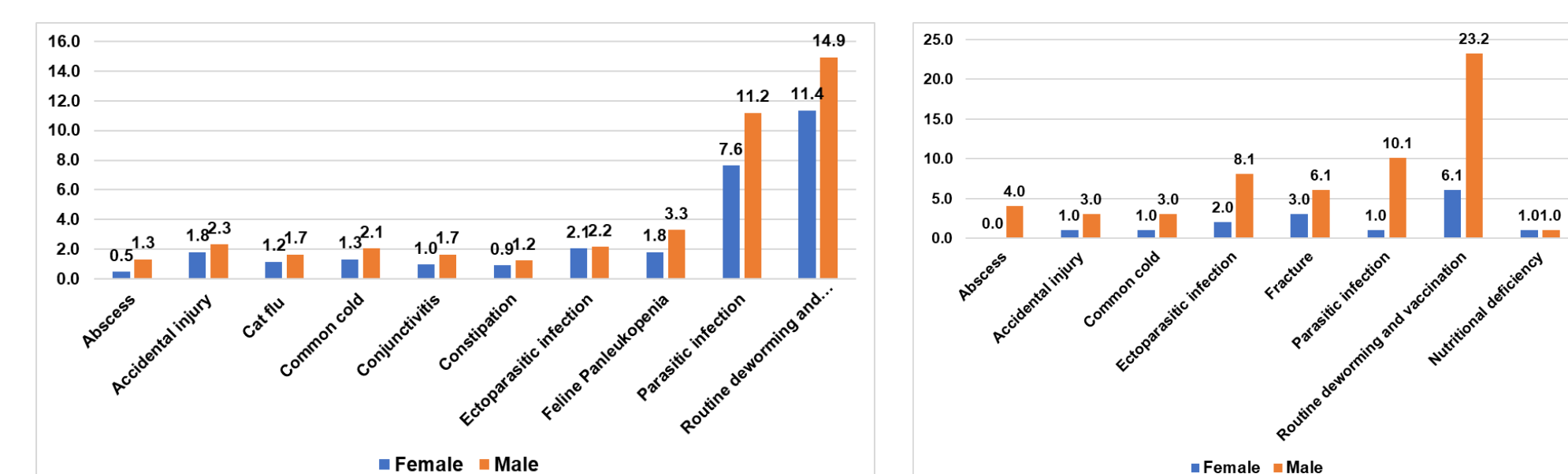
### Age wise disease distribution



Cat

Dog

### Sex wise disease distribution



Cat

Dog

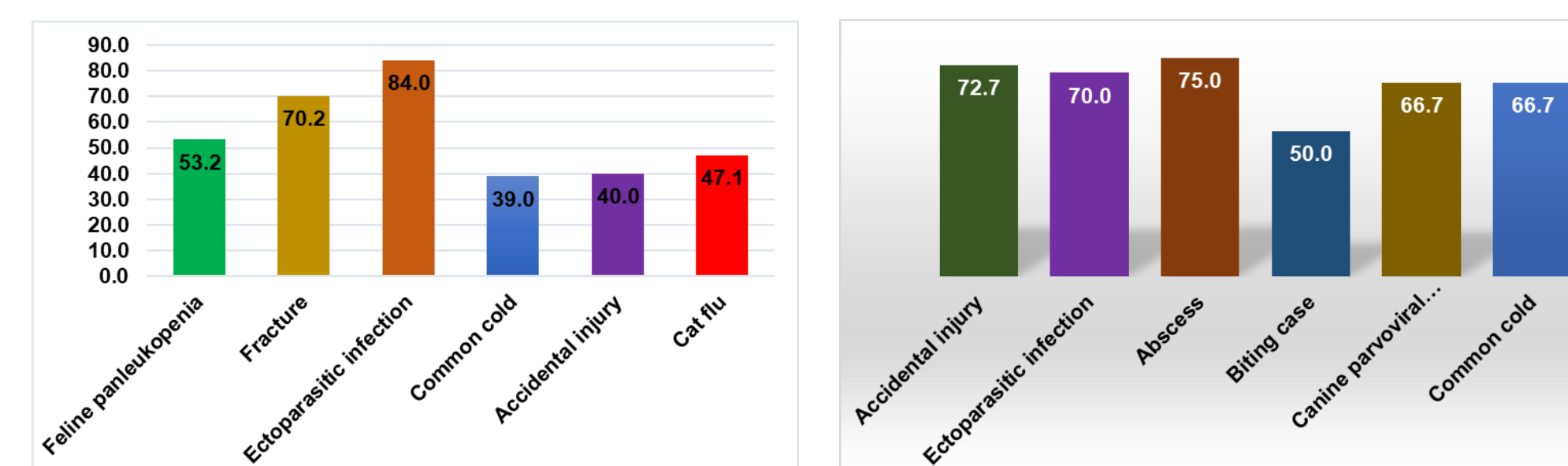
### Ectoparasitic Infections in Cats: Seasonal Variations and Statistical Significance

- Ectoparasitic infection is significantly higher in cat (P value-.01) and significantly higher in rainy season (P<.001) and that result is similar with (Hasib et al., 2020).
- Routine deworming and vaccination, parasitic disease, Fracture is domineering in all season.

### Pet diseases treatment and outcomes

Condition	Treatment	Outcome
Deworming & Vaccination	Broad-spectrum anthelmintics & vaccines	86.7% success
Endoparasites Infection	Broad spectrum or specific drugs	75.6% success
Ectoparasitic Infection	Ivermectin (oral & topical), Permethrin	82.0% recovery
Cardiac Insufficiency	Human-medicine protocol	Positive response
Other Diseases	Standard treatment protocols	Managed effectively

### Cure rate of some diseases



Cat

Dog

## Conclusions

- Parasitic diseases occur throughout the year and are more frequent, with a higher prevalence in the rainy season. Deworming and vaccination are used as control measures.
- Public awareness campaigns were conducted to educate pet owners on disease prevention and responsible pet care.
- The findings will assist field veterinarians in selecting appropriate treatment guidelines for common pet diseases.

## References

- Moodie E. The potential for biological control of feral cats in Australia. Australian Nature Conservation Agency, Canberra. 1995.
- Robertson ID, Irwin PJ, Lymbery AJ, Thompson RCA. The role of companion animals in the emergence of parasitic disease. International Journal Parasitology. 2000; 30: 1369-1377.
- Samad, MA. A 50-year review on the prevalence of clinical diseases and disorders of cattle in Bangladesh. Journal of Veterinary Medical and One Health Research. 2019; 1:1-16.
- Yasir Hasib, F. M., Kabir, M. H., Barua, S., Akter, S., Chowdhury, S. Frequency and prevalence of clinical conditions and therapeutic drugs used in dog and cat at Teaching Veterinary Hospital, Chattogram Veterinary and Animal Sciences. 2020; 7(1): 156-160.