RETROSPECTIVE STUDY OF CAPTIVE AVIAN NECROPSY CASES FROM A ZOO

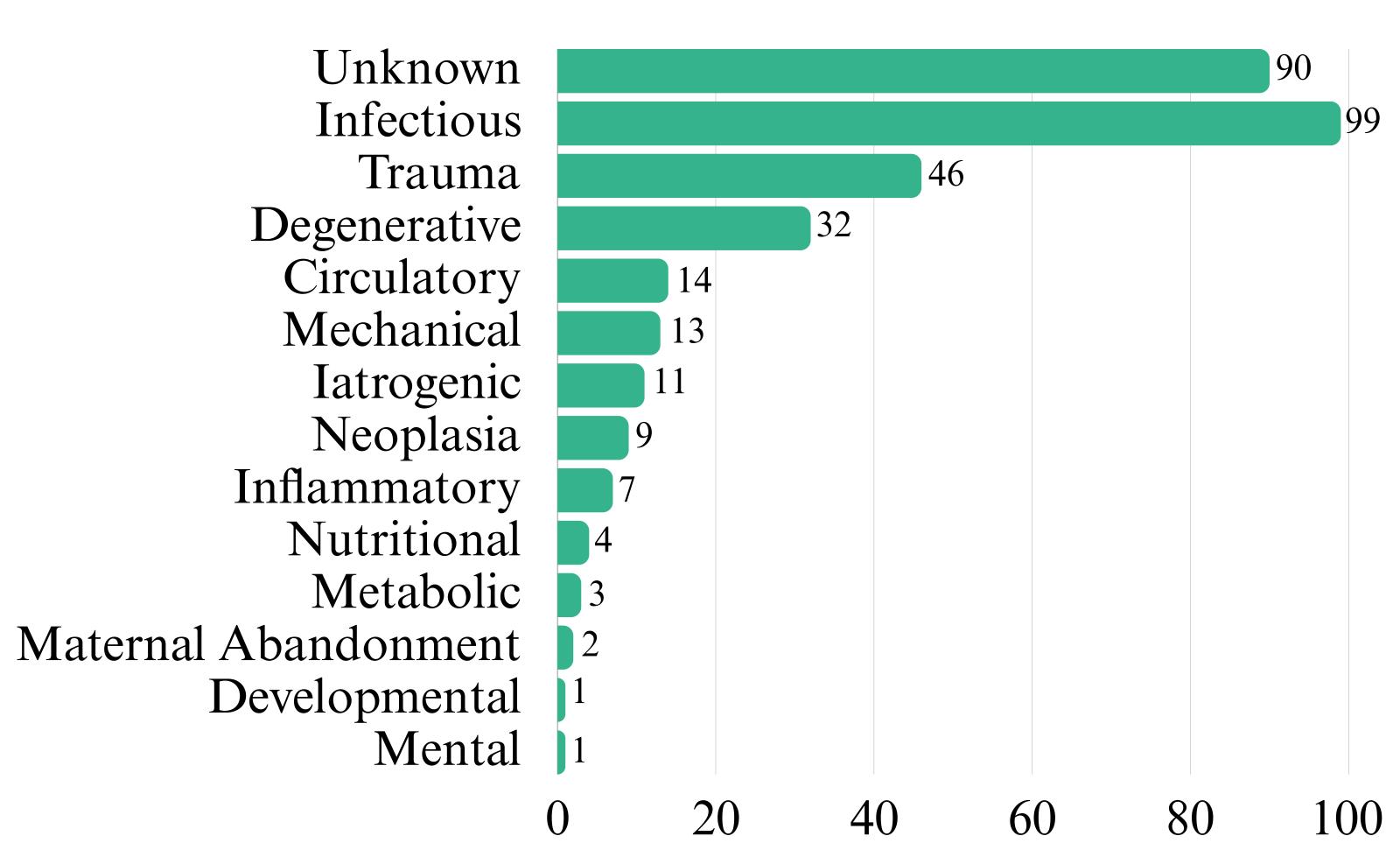
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OBJECTIVES

- Analyze the post-mortem reports of birds that died in the Barcelona Zoo between January 2011 to June 2023 so to make a list of the most frequent causes of mortality of these animals.
- Understand what pathologies affect these animals both individually and as a whole.

RESULTS





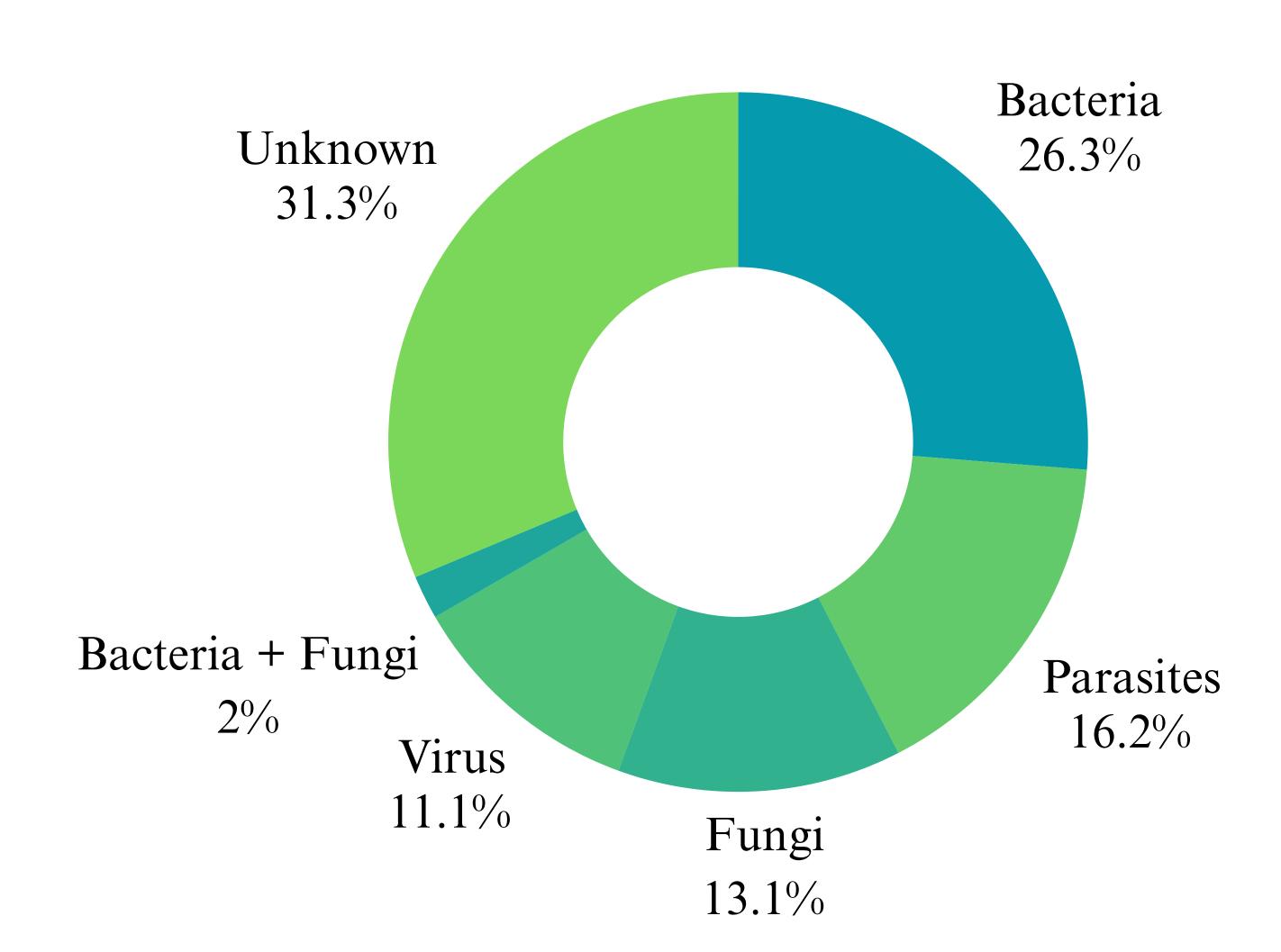


Figure 2. Aetiologies of deaths caused by infections.

DISCUSSION

- Infections, degenerative conditions, traumas, toxicoses, and nutritional problems are the most common pathologies in zoo animals (Hosey et al. 2009). This study found a low prevalence of nutrition-related deaths and zero cases of toxicoses. Nevertheless, the three most frequent causes of death were infectious diseases, traumas and degenerative conditions.
- The high prevalence of **infection** cases is likely attributed to the limited amount of drugs and vaccines developed for zoo animals and due to the multiple transmission routes.
- Most trauma cases did not have any concomitant lesion that could have predisposed the animal to injury.
- The most frequent lesions related to degeneration were gout and amyloidosis.
- Low prevalence of **neoplasia** was observed. Lymphosarcoma is usually described as the most common neoplasia in zoo birds, but it was not observed in this study.
- Undiagnosed cases: decrease in unknown cause of death from 2014 on, since improvement in standardization of sample collection and shipment, and the increase of microbiological testing.
- Notifiable diseases: 1 chlamydiosis, 1 avian influenza, 1 avian pox, and 5 avian tuberculosis.

CONCLUSIONS

- Health problems in zoo birds are not always apparent.
- The data collected in this type of retrospective analyses may help present and future zoo veterinarians to improve the healthcare and prevention of illnesses and diseases of captive avian species.

BIBLIOGRAPHY

Hosey GR, Melfi V, Pankhurst S. Chapter 11: Health. In: Zoo animals: behaviour, management and welfare. 2009. Oxford: Oxford University Press. 168-218.