LESIONS IN RABBIT SKULLS BY COMPUTERIZED TOMOGRAPHY

Laura Burguillos Prados

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Universitat Autònoma de Barcelona

FACULTAT DE VETERINÀRIA

Introduction

Computed tomography (CT) is an imaging technique widely used as a diagnostic tool in rabbits (*Oryctolagus cuniculus*) because it is a very accurate and safe. The lesions in the skull region are very important given their relevance in the clinic of this species.

Material & methods

→ 58 Rabbits subjected to CT of skull → Separated by:
24 ♀ 34 ♂ & 42 adults and 12 geriatric.
→ Period between 2014 – 2018.
→ Hospital Clínic Veterinari UAB.

Objectives

☑ Describe the most frequent lesions observed in the skulls of domestic rabbits using the CT technique and separate them by sex and age.

☑ Determine the relationships among lesions, their pathology and the presence of lymphadenopathy.

Results

Figure 1. The most frequent lesion was in the **oral region**, followed by lesions in the **ear region** and in **lymph nodes.**

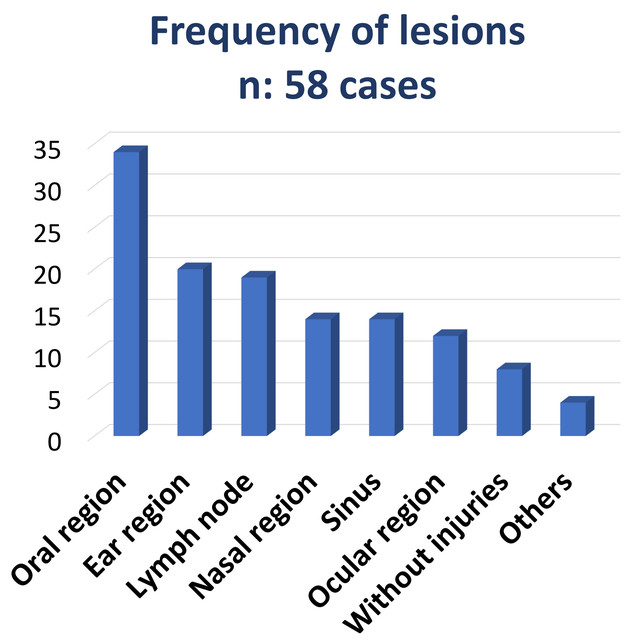

FIGURE 1. *Most common lesions according to the number of cases. n: 58*

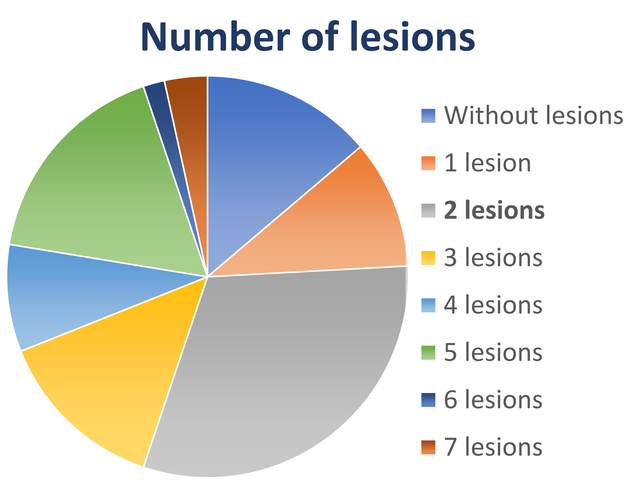

Figure 2. The presence of **2 simultaneous lesions** was the most common result.

FIGURE 2. *Relation in the number of lesions*

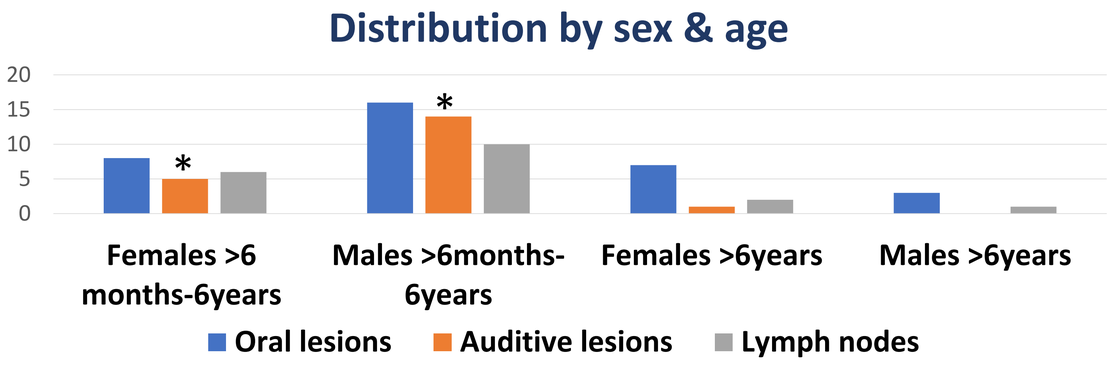

FIGURE 3. *Distribution of case lesions by sex & age*

Figure 3. Males within the range of **> 6 months to 6 years** were those that presented more lesions .
*In auditive region range by age **p< 0,05**

❖Detail of the most common lesions & lymphadenopathy:

•Oral lesions:

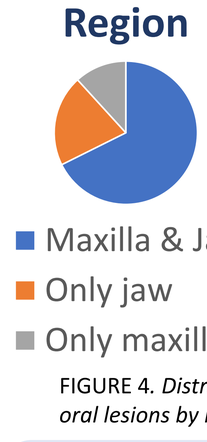

FIGURE 4. *Distribution of oral lesions by region*

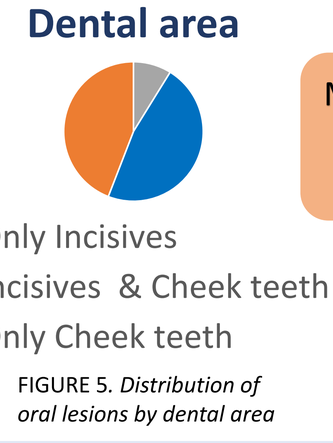

FIGURE 5. *Distribution of oral lesions by dental area*

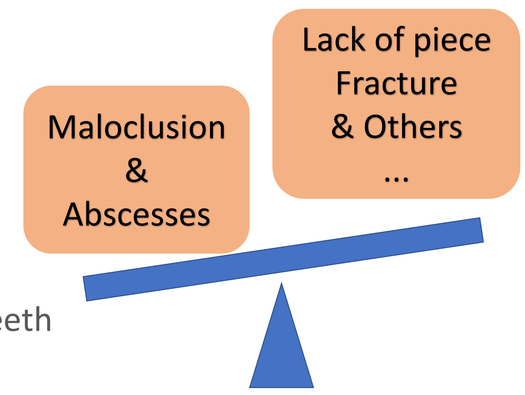

FIGURE 6. *Comparative of most common lesions in oral cavity.*

Figure 4-5-6. The lesions presented in **maxilla & jaw**, in the region of **incisive & cheek teeth** and most frequent was dental **malocclusion** and **abscesses**

•Auditive lesions:

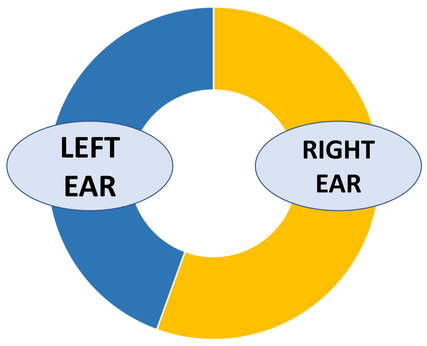

FIGURE 7. *Distribution of auditive lesions.*

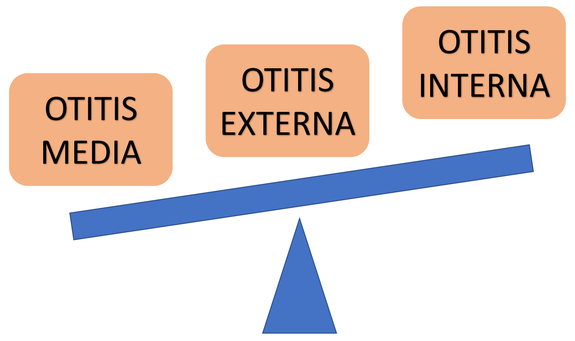

FIGURE 8. *Comparative of most common lesions in oral cavity.*

Figure 7-8. It was observed a higher number of injuries in the **right** ear. The most frequent pathological lesions were otitis in the **middle ear**.

Figure 9.
"**Abscesses** were responsible for causing lymphadenopathy in greater numbers"

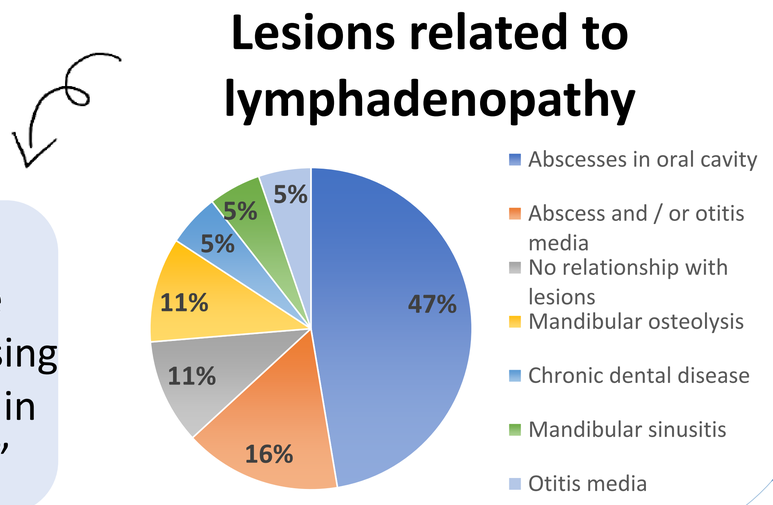

FIGURE 9. *Relationship between lesions and lymphadenopathy*

Conclusions

- The most frequent lesion in rabbit skulls occured in the **oral region**, specifically in **maxilla and jaw** and it happened simultaneously.
  - ↪ Malocclusion & abscesses were the most important lesion in incisive & cheek teeth region.
- The problems in the **ear region** were the second most common lesion and **otitis media** was the most common pathology.
- The relationship between **oral abscess** and **lymphadenopathy** showed greater prevalence.