

# Importance of Periodontal Disease in Dogs: Systemic Consequences and Prevention Strategies

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References

## Introduction

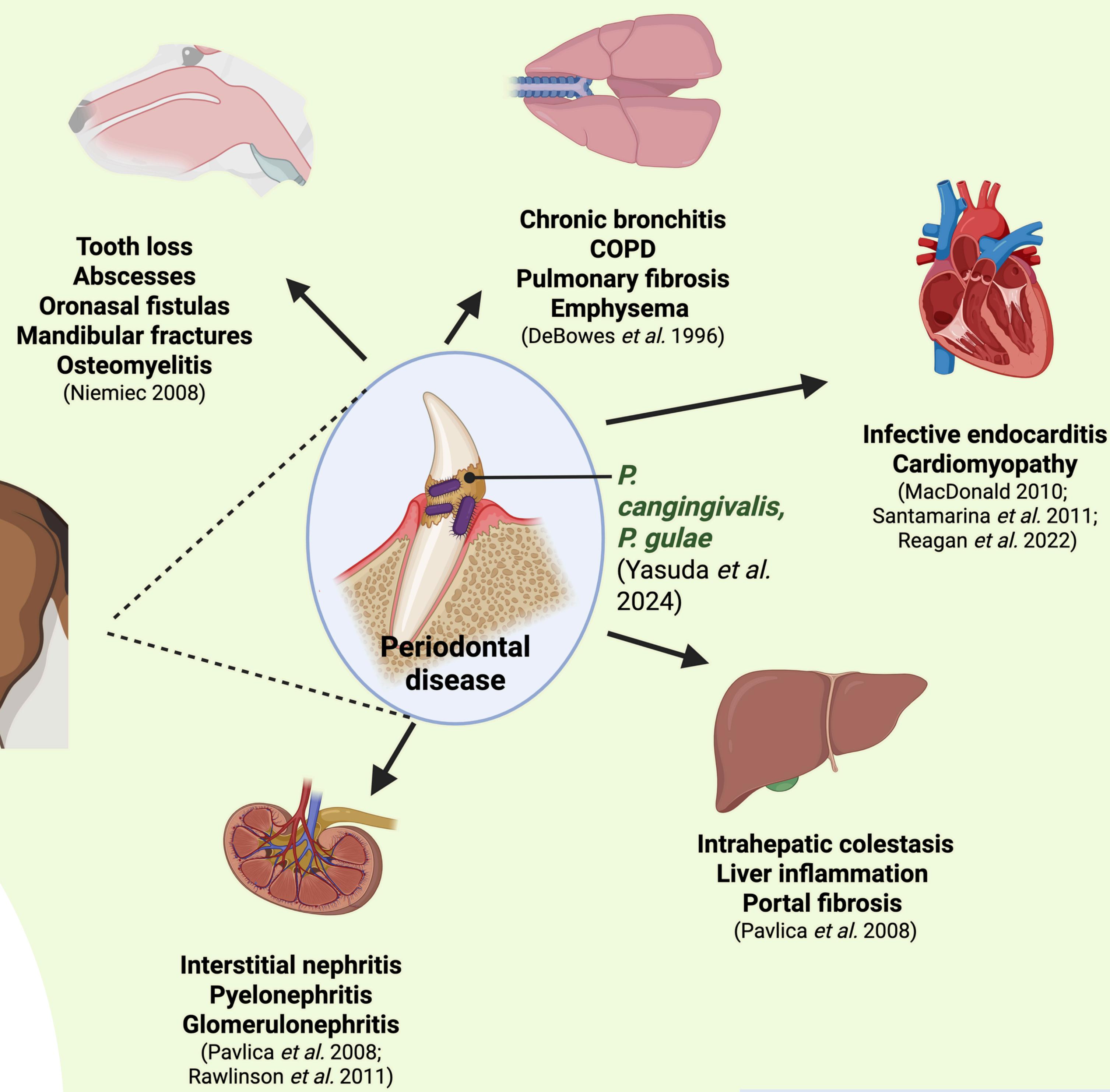
Veterinary dentistry has advanced significantly in small animal practice, but yet, not enough. Oral health remains underestimated and frequently underdiagnosed until the disease reaches severe consequences. Periodontal disease affects over 80% of dogs. This work through a scientific literature review, aims to help understand its impact and promote effective prevention, essential for improving animal welfare and clinical outcomes.

## Objectives

- General objective:
  - Analyse and highlight its prevalence and clinical relevance in veterinary medicine
- Specific objectives:
  - Which are the key risk factors?
  - Which systemic consequences and organs are linked to it?
  - Which prevention methods are most effective?

## Results

### Consequences



### Prevention methods and treatment

## Conclusions

Periodontal disease is highly prevalent in dogs and can cause serious local and systemic effects. Risk factors include poor oral hygiene, age, small breed, and soft diets. Daily **tooth brushing remains the most effective** prevention strategy. This research highlights the importance of **integrating dental care into routine veterinary practice** and encourages both professional training and **active owner participation**.

### Risk factors

**Poor dental hygiene**  
(Harvey 1994)

**Biological factors: small breed and older dogs**  
(O'Neill et al. 2021)

**Nutrition: soft diet**  
(Wallis y Holcombe 2020)

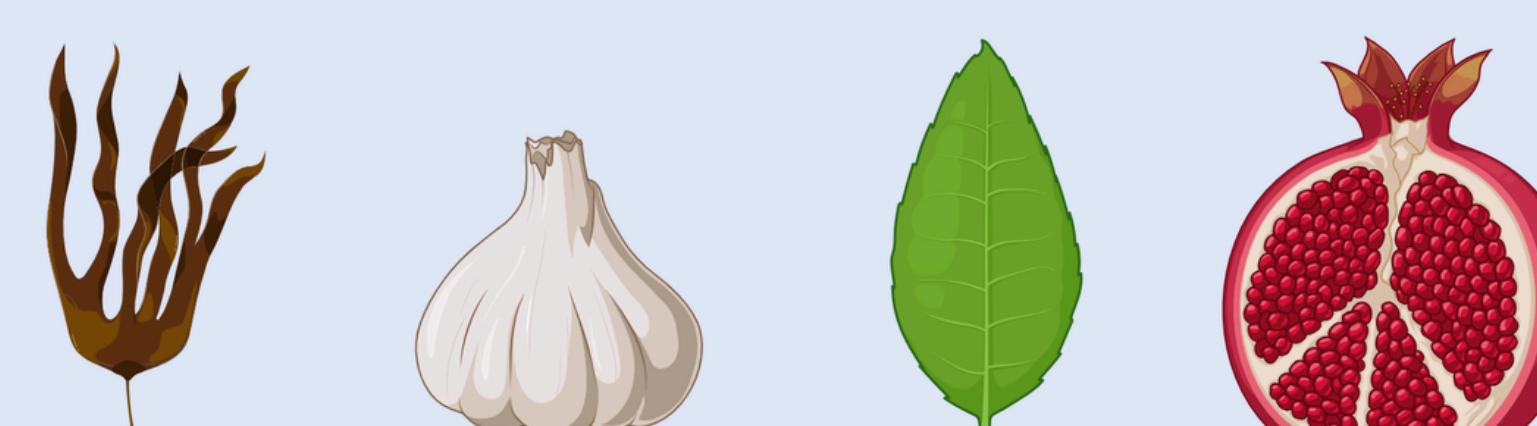
**Medical factors**  
(Carreira et al. 2015)

- Removal of supragingival and subgingival plaque (biofilm)
- Control of halitosis

(Barbosa et al. 2023; Zdravković et al. 2024)

### Tooth brushing with Toothpaste and Professional dental cleaning

### Food and supplements



- Reduction in plaque accumulation
- Improving gingival index and halitosis
- Suppression of oral bacterial replication

(Gawor et al. 2023; Takahashi et al. 2023, Lindinger 2016)

### Dental chews

- Improvement in periodontal pockets
  - 11-39% Gingivitis
  - 38% Plaque
  - 49-70% Calculus

(Brown y McGenity 2005; Clarke et al. 2011)