

WHEN THE GINGIVA SPEAKS BUT REMAINS UNHEARD

An update on the **prevention** and **treatment** of **periodontal disease** in dogs

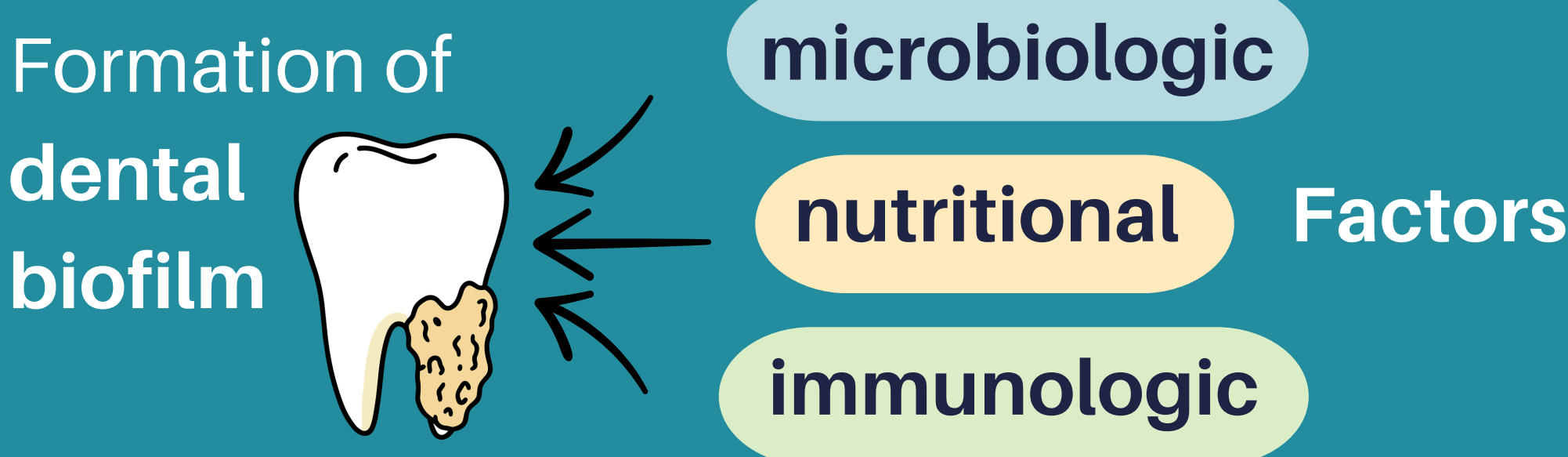
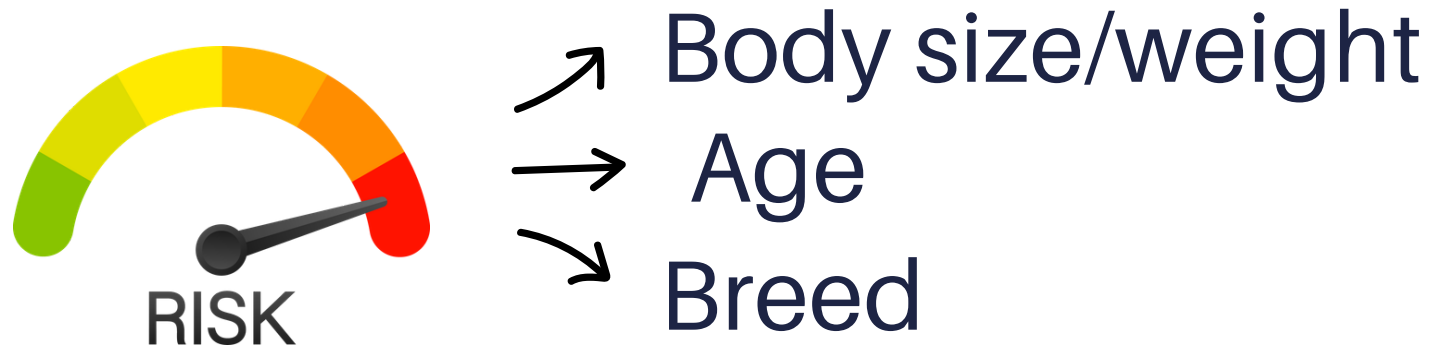
PERIODONTAL DISEASE (PD)

Infectious and inflammatory condition affecting the tooth-supporting tissues, progressing from reversible gingivitis to irreversible periodontal tissue destruction

Epidemiology

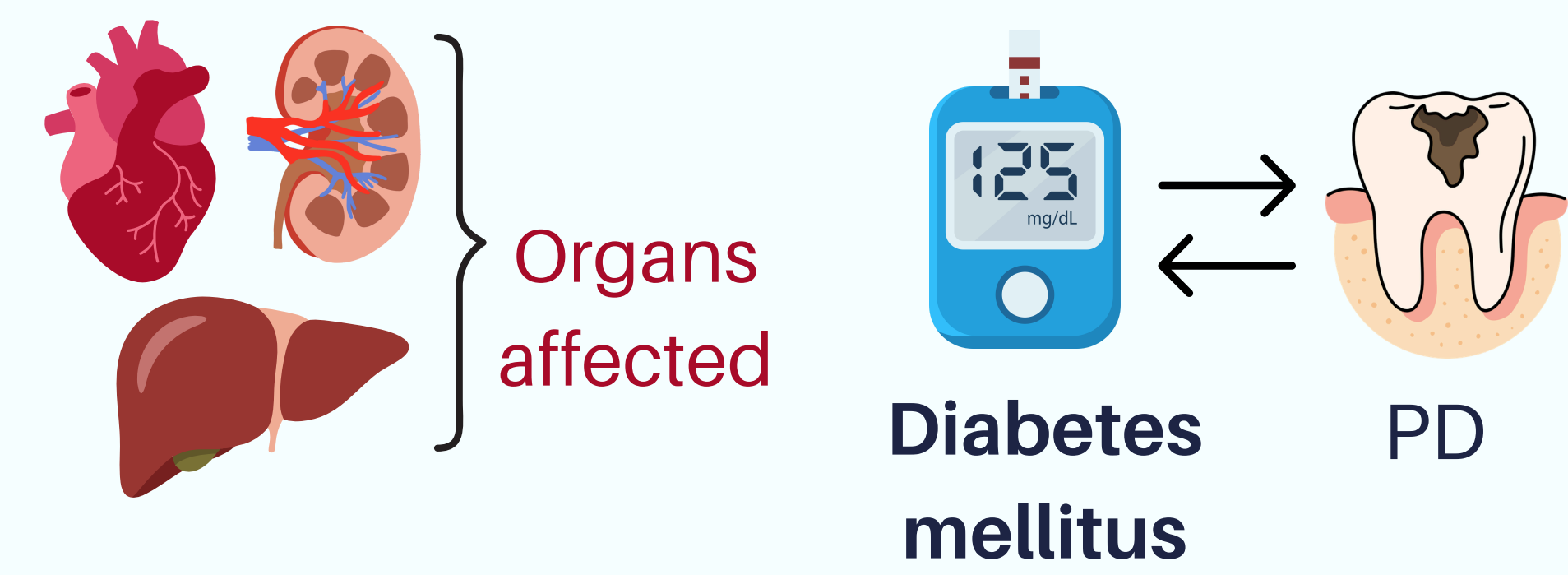
- PD is **highly prevalent** in **dogs** (prevalence 44–63.6%)
- Often **underdiagnosed** in routine exams

Risk factors



THE IMPORTANCE OF ORAL HEALTH

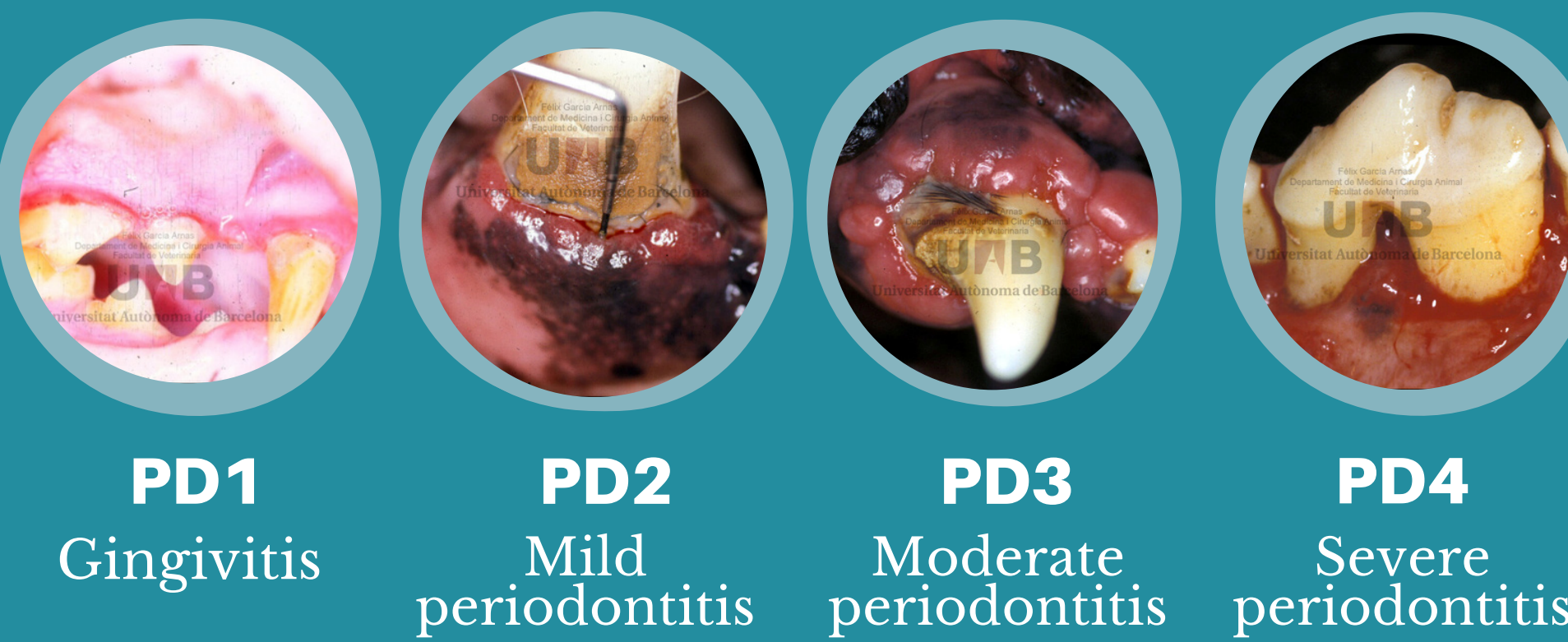
PD is associated with **systemic inflammation** and **chronic bacteremia**



Diagnosis of PD

1. **Clinical Examination**
⚠ **Subgingival lesions not visible**
2. **Periodontal probing**
★ **Gold standard**
Sulcus depth **1–3mm**
3. **Intraoral radiography**
📷 **Essential for staging**

Staging of PD according to WSAVA



Objectives

- Review and summarize current literature on canine periodontal disease
- Provide an updated overview of preventive and therapeutic treatment options



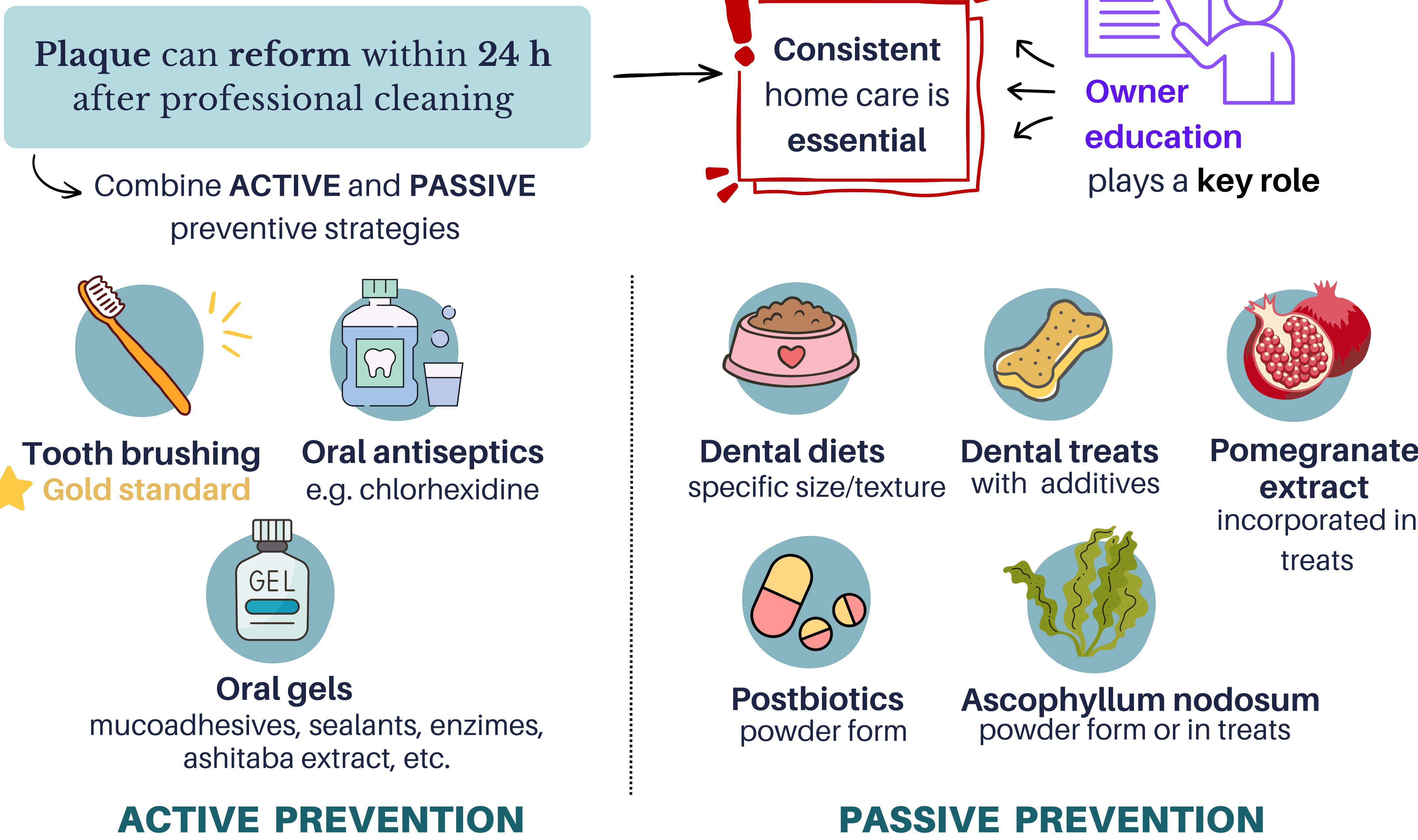
Bibliography

TREATMENT

Conventional therapies		Innovative therapies	
Treatment	Main effect	Main effect	Treatment
Professional dental cleaning	Biofilm removal and inflammation control	Regenerative	PRF/PRP and biomaterials
Tooth extraction	Management of advanced PD	Immunomodulatory	Interferon-α
Systemic antibiotics	Severe or systemic cases	Antimicrobial	Nisin biogels, S-PRG nanoparticles and laser therapy
		Microbiota balance	Microbiota transplant, tea catechins and persimmon tannins



HOME-BASED ORAL CARE



CONCLUSIONS

- PD is **highly prevalent** and frequently **underdiagnosed** in dogs, and untreated it may lead to systemic complications.
- **Professional dental cleaning** remains the gold-standard treatment for subgingival biofilm removal.
- Daily home-based oral care, especially **tooth brushing**, is fundamental to prevent plaque reformation, and **dental diets** and **treats** are useful complementary preventive strategies.
- **Owner education** and regular veterinary check-ups are crucial for early detection and prevention of PD.