### Brachycephalic Dentistry Dr. Angelica (Angie) Bebel, DVM, DAVDC West Coast Veterinary Dental Services, Vancouver, B.C Email: tembo4444@gmail.com Office Telephone: 604-473-3605

### Brachycephalic Dentistry

Face a unique set of dental challenges that can impact their oral health which stem primarily from the structure of their mouths

- 1. Malocclusions
- 2.Teeth overcrowding
- 3.Under erupted teeth
- 4. Missing and/or impacted teeth
- 5.Brachycephalic obstructive airway disease (BOAS) > breathing difficulties

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### Brachycephalic Dentistry 1. Malocclusions: Brachycephalic breeds are more prone to malocclusions due to their facial anatomy chewing difficulties Maxillary incisor contact on rostral mandibular mucosa and/or lingual surfaces of mandibular incisors Periodontal disease

### Brachycephalic Dentistry

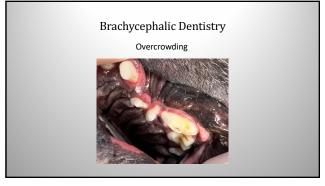
### 2. Teeth Overcrowding

- shorter jaws -> insufficient space for their teeth leading to overcrowding and misalignment
- · rotated teeth
  - challenging to effectively chew their food and clean their teeth naturally
  - also facilitates plaque and tartar buildup
- Some teeth lack protective collar of gingiva
   increase the risk of periodontal disease

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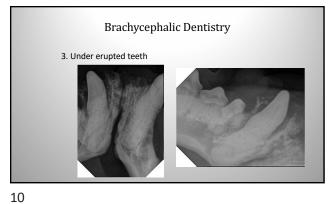


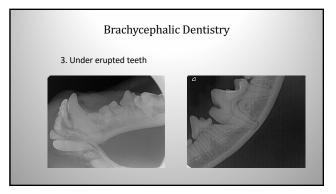


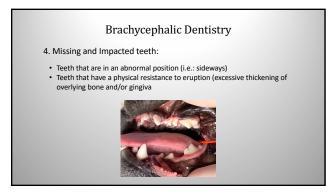


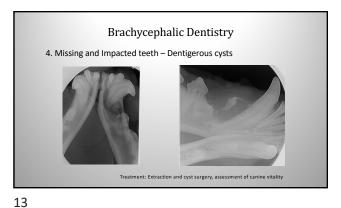


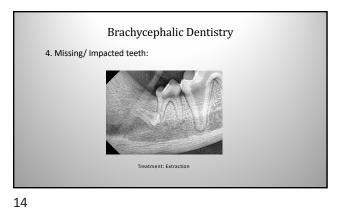






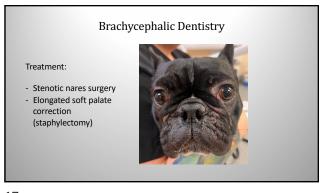


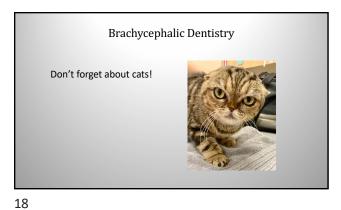


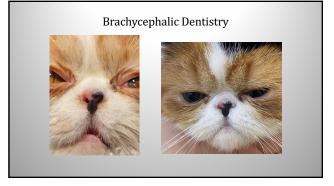








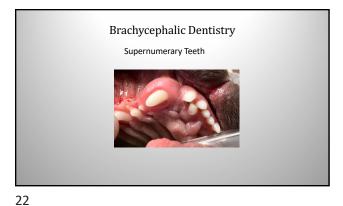






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# Brachycephalic Dentistry Anesthesia Important factors to consider during management: \* BOAS - stenotic nares, hypoplastic trachea, elongated soft palate, laryngeal saccules, small epiglottis, airway inflammation and edema secondary to negative airway pressure and subsequent turbulent airflow \* Gastrointestinal disease - esophagitis, gastroesophageal reflux, gastritis, and hiatal hernia, are prevalent in brachycephalic dops with upper respiratory dysfunction \* If there is a history, how it into being managed? Best to be done before surgery Gastroprotectants, antacids, prokinetics \* Jould help to reduce risk of aspiration pneumonia \* Perioperative management Cardiovascular - high vagal tone, awareness about upper airway/oral manipulation (surgery, intubation/extubation) can lead to increase episodes of bradycardia \* Ocular considerations - injuries

## Brachycephalic Dentistry Anesthesia GOALS: Maintain a stress-free induction and recovery Support tissue oxygen delivery throughout the entire anesthetic procedure Secure and maintain a patent airway Control vomiting/aspiration to prevent aspiration pneumonia Provide a pain-free recovery Appropriate dental-surgery time MONITOR!

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