

#### Assis. Lect. Mohammed Resen



R The tongue is the most versatile organ in the oral cavity. It is responsible for food prehension, water lapping, sucking, mastication, tasting, swallowing, grooming, thermoregulation, and vocalization



- A body, which extends rostral to the root and is attached to the floor of the oral cavity via the frenulum,

## Anatomy

The root of the tongue consists of a set of three paired extrinsic muscles: the styloglossus, hyoglossus, and genioglossus muscles
 Intrinsic muscle (Superficial longitudinal, Deep longitudinal, Transverse, and Perpendicular).

# Blood Supply

- The lingual vein starts at the apex of the tongue, courses alongside the lingual artery, and eventually empties into the facial vein.
- A secondary blood supply by tonsillar
   branch of the Fascial artery.

## Innervation

- A Hypoglossal nerve Fascial nerve
- 础 Glossopharyngeal nerve
- Race Trigeminal nerve
- All of the muscles of the tongue, intrinsic and extrinsic, are innervated by the hypoglossal nerve .
- Sensory information is provided by the glossopharyngeal nerve, trigeminal nerve and the facial nerve

Glossectomy

Remostasis must be considered before any type of surgery on the tongue.

### Indication

Traumatic injuries of tongue such as lacerations; ulcerations and burns from ingestion of caustic substances or electrical injuries

Neoplasia and Hyperplastic Lesions (Oral papillomatosis, Malignant melanoma and squamous cell carcinoma).





# Preoperative Preparation

- → Preoperative instructions which will include fasting your dog from food prior to surgery. Because surgery takes place in the oral cavity.
- Reversion of the mouth is remarkably resistant to a supply and the antibacterial properties of saliva.
- Povidone- iodine solution or a 0.2% chlorhexidine solution is used for preparation of the oral mucosa.
- A mouth gag may be placed before or after surgical site preparation to facilitate exposure of the inside cheeks and lips.

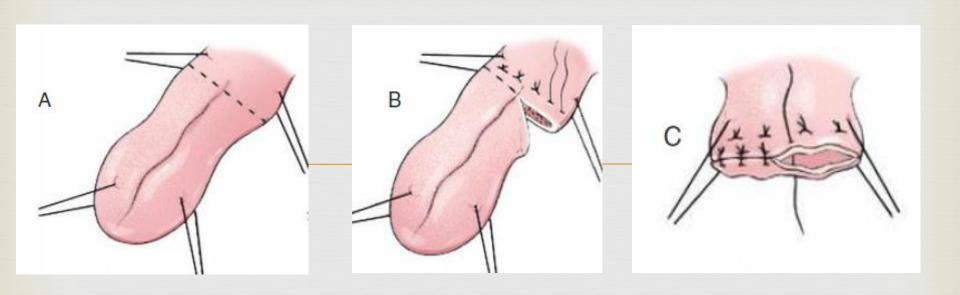
# Procedure of partial Glossectomy

- Releading is prevented by means of clamps placed transversely across the tongue or by the use of a tourniquet.
- Stay Suture is a place on tongue to exposure site of operation

### Cont.

A Preplacement of mattress sutures outside surgical margins before incision will compress the tissue, reducing blood loss during surgery on the tongue.

- Making an incision anterior to the damaged tissue or tumor, between the tumor and the back of the mouth cavity. Incisions used may be longitudinal, cuneiform or transverse depending on the location of disease or damage.
- After resection, the mucosal edges are separately reapposed with fine, monofilament, rapidly absorbable suture in a simple continuous or interrupted pattern.



Glossectomy. **A**, Stay sutures are placed in the tongue to facilitate retraction and exposure. **B**, Interrupted mattress sutures are preplaced across the tongue for hemostasis before transection. **C**, Mucosal edges are apposed with an interrupted or continuous pattern.

# Post Op. Care

- R Dogs undergoing larger glossectomies often have the desire to eat but may need assistance.
- Nutritional supplementation by esophageal tube depended on nutritional status of the animal

Complication

Bleeding
Aspiration pneumonia
Tongue necrosis
Prehension difficulties
Ptyalism



#### **R** Veterinary Small Animal Surgery

When you do not succeed in taking giant steps on the road to your goal, be satisfied with little steps, and wait patiently till the time that you are able to run, or better still, to fly. Be satisfied to be a little bee in the hive who will soon become a big bee capable of making honey...



Thank you ...

Any Question????