

MJFCVAS

TOPIC – RUMENOTOMY

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➤ INTRODUCTION

- Rumenotomy is one of the most widely used surgical techniques for the diagnosis and treatment of different rumen conditions in ruminants.
- It is commonly used in large ruminants such as cattle.
- This technique is also applied to small ruminants but there is lack of standard.

INDICATIONS

- Traumatic reticulo-peritonitis.
- Repair of Diaphragmatic hernia.
- Rumen impaction.
- Bloat
- Hair balls and other foreign bodies in the rumen and reticulum.

SURGICAL METHOD

- Pre operative management:
 - In large animals feeding avoid – 24 to 48 hours and water avoid 24 hours.
 - Provide couple hours of rest.
 - In febrile state of animal should not be operate.
 - Avoid in advanced pregnancy.
 - On operative site clipped the hair of animals.
 - Washed with antiseptic solution at least 4 times through centrifugal technique.



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➤ Anaesthesia during rumenotomy:

❑ Local anaesthesia

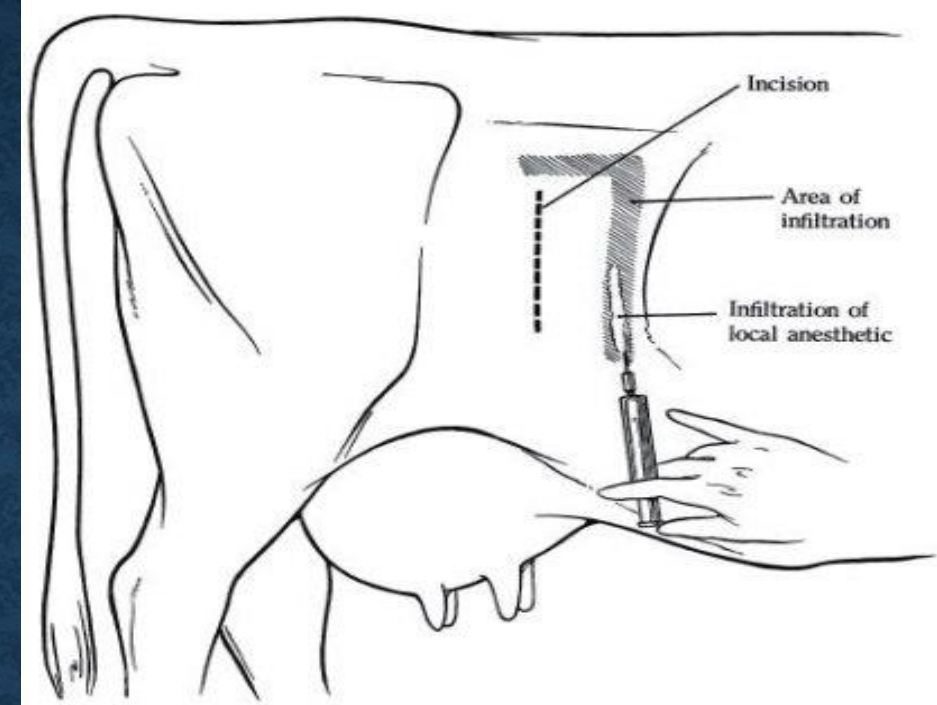
A. Infiltration anaesthesia.

a. Line block.

b. Inverted L block.

B. Proximal paravertebral anaesthesia.

C. Distal paravertebral anaesthesia.



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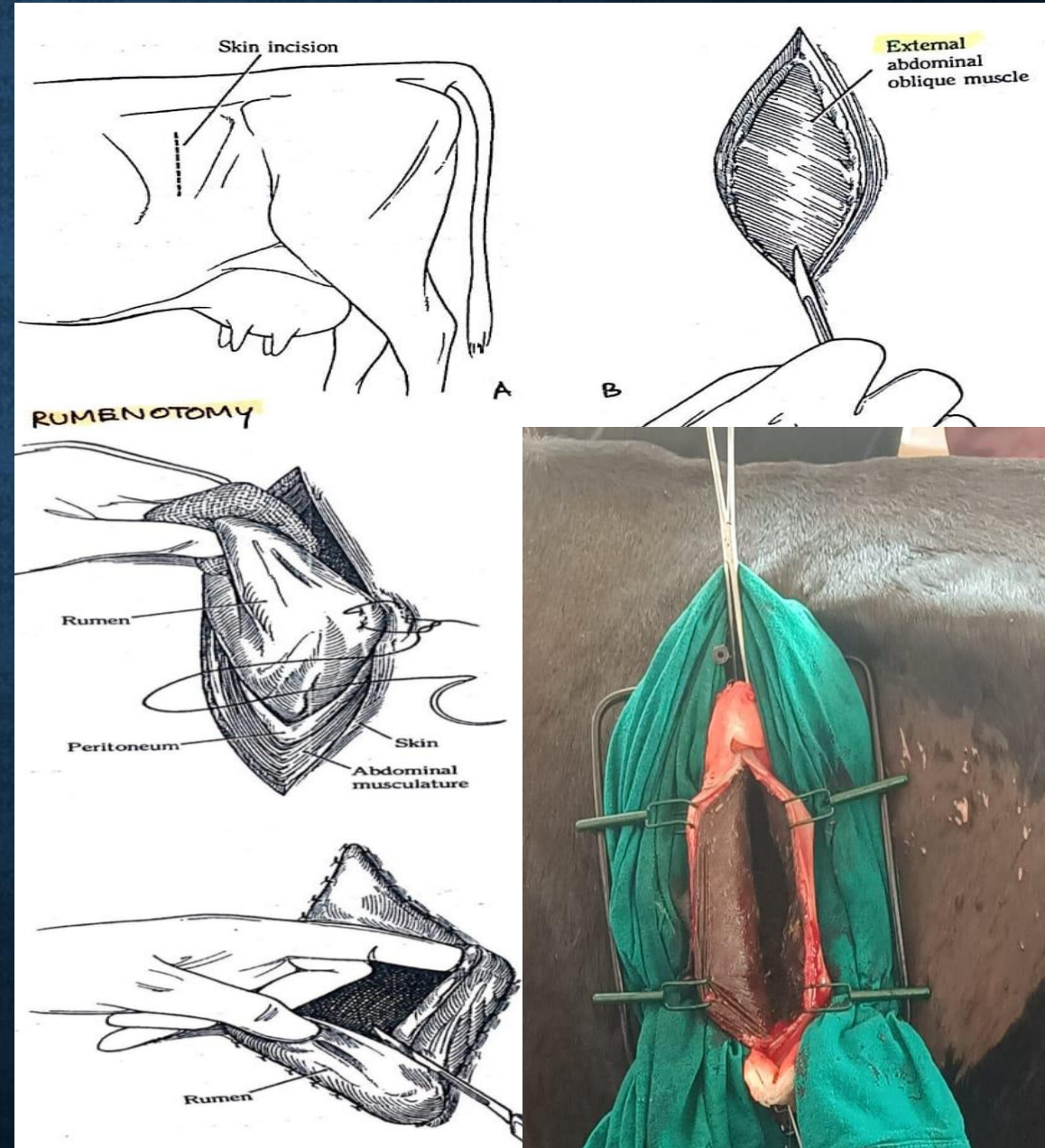


PROCEDURE OF RUMENOTOMY

- ❖ Rumenotomy is done left flank incision.
- **Surgical site:**
 - Incision 3 to 5 cm caudal and parallel to the last rib.
 - Incision length should be 20 to 25 cm.
 - Skin - Subcutaneous tissues – External and Internal oblique muscles – transverse muscle – Peritoneum are incised in the same plane and incised the rumen.
 - Rumenotomy site is in the dorsal sac of the rumen using Weingarth set apply.

Source :<https://images.app.goo.gl/CPNoTtdN4cEJUpUj8>

<https://images.app.goo.gl/YfGThgCSPbdLeMMr5>



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Source :<https://images.app.goo.gl/tabobGZ6richsyC39>



➤ **Remove the foreign bodies and ruminal contents from rumen.**

➤ PRECAUTIONS :

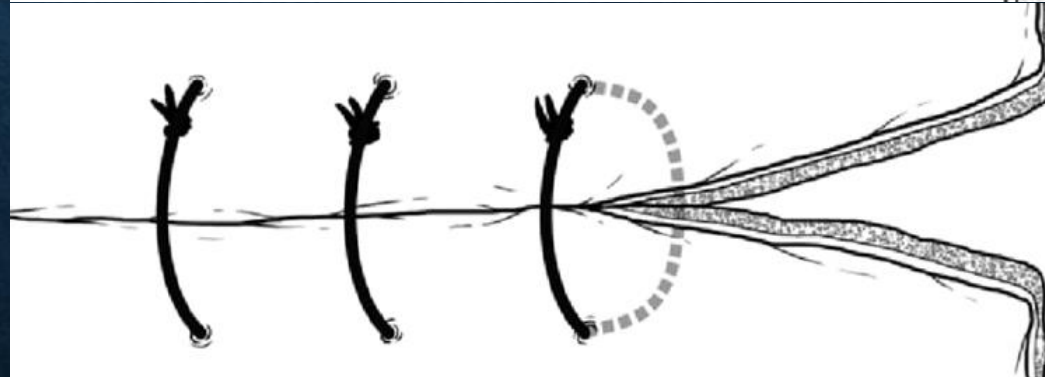
- To avoid contamination of the abdominal cavity by ruminal contents, the ruminal lumen is either exteriorized (Weingarth frame), or abdominal cavity is sealed off from the rumen by temporary insertion of a continuous suture.



Source : <https://images.app.goo.gl/XFcLyrrSuwYWssb77>

➤ RUMENOTOMY CLOSURE

- ✓ Rumen is suture with –
 - Continuous lambert inversion suture.
 - Continuous Cushing in inversion suture.
- ✓ Usually a single layer of simple continuous suture for peritoneum and muscle edges.
- ✓ Skin simple interrupted sutures.



Source :<https://images.app.goo.gl/KWYqoTcU1ZvRaNJHA>

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➤ **POST OPERATIVE MANAGEMENT**

- Fluid therapy.
- Antibiotics.
- NSAIDs.
- Regular dressing of wound.
- Used laxatives.

➤ **COMPLICATION:**

- ❖ Peritonitis.
- ❖ Incisional infection.

THANK
YOU!