

# **METHODS OF SLAUGHTER**

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# ANIMAL SLAUGHTER

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## TOPICS

.Stunning

.Sticking

.Humane slaughter

.Ritual slaughter

.Pithing

# METHODS OF SLAUGHTER

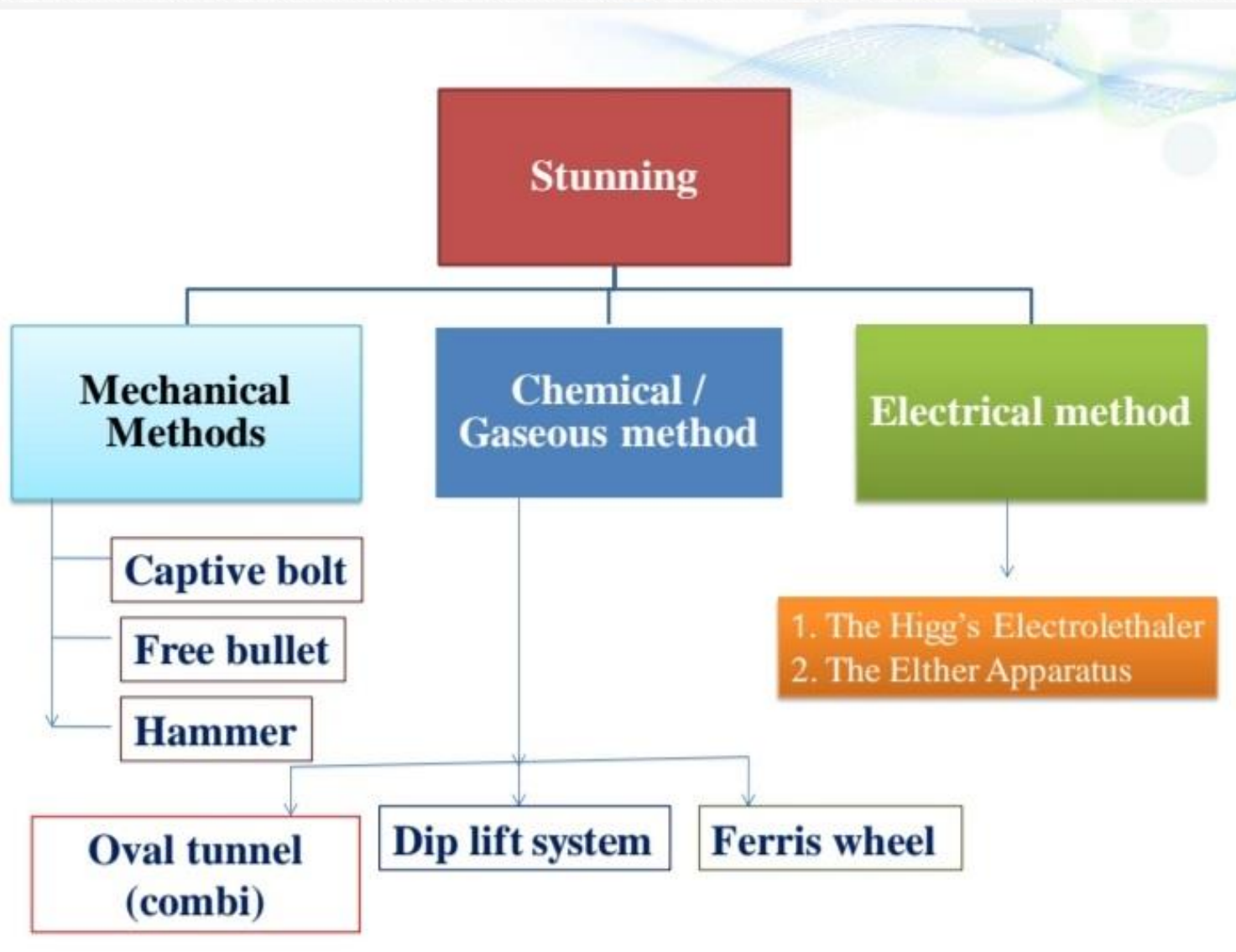
## HUMANE SLAUGHTER

**Stunning**  
Mechanical Methods  
Chemical / Gaseous method  
Electrical method

## RELIGIOUS (RITUAL) SLAUGHTER

Jewish (Kosher) slaughter  
Muslim (Halal) slaughter  
Jhatkha (Sikh) slaughter





# Animal slaughter – The act of killing animals for human purposes, mainly includes two steps ‘stunning’ and ‘sticking’.

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## Stunning

It is a process that causes an animal to lose consciousness so the animal can't feel pain.

- Sticking is followed by stunning immediately.
- Law states that with few exceptions all animals must be stunned before sticking.

## Sticking

An animal's neck is cut, using a very sharp knife, to sever the major blood vessels in its neck and chest that supply the brain, ensuring the rapid blood loss and death.

- Sticking is done immediately after stunning.
- It is done to avoid bacteria growth, since blood is the ideal medium for its growth.



# TWO METHODS OF ANIMAL SLAUGHTERING

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## Humane slaughter

**Avoids unnecessary pain and cruelty towards animal and ensures complete bleeding.**

- Mechanical, Electrical and Chemical are the three stunning techniques with specific instruments.

## Ritual slaughter

**Stunning doesn't take place as per religious rites and the animal is slaughtered in its conscious state.**

- Jewish method of slaughter, Muslim method of slaughter, Sikh method and Neck stab method are types of ritual slaughter.

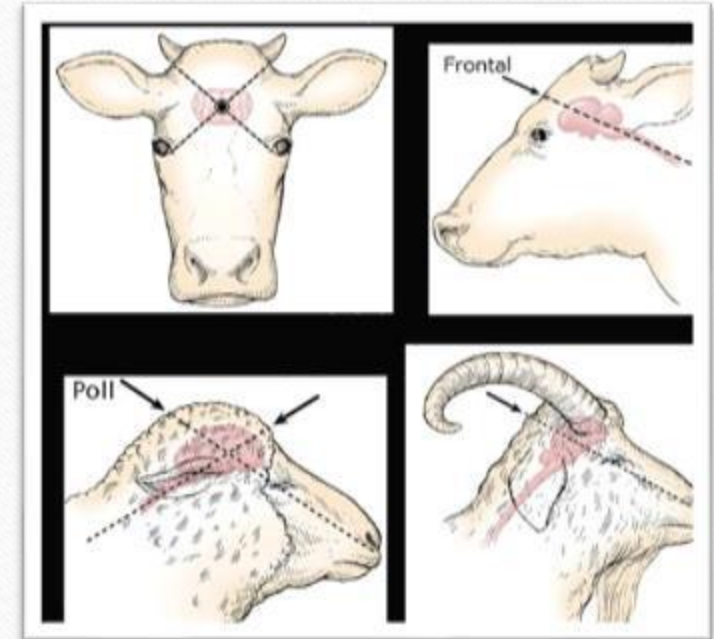
# HUMANE SLAUGHTER TECHNIQUES

## Mechanical method

Instruments such as captive bolt pistol, pneumatic stunner cause damage to the brain so the animal loses the consciousness immediately .

Captive bolt is driven in the frontal bone and destroys cortex and deeper parts that leads to its unconsciousness.

Pneumatic stunner bolt is activated under pressure without penetrating the frontal bone











**PITHING** – In adult cattle after stunning with captive bolt pistol a thin steel rod approximately 0.5m is inserted into the hole. This destroys medulla oblongata and reflex muscular action doesn't take place during sticking and initial dressing.

**Electrical method** – It is convenient in small ruminants pigs, poultry.

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The instrument Elther apparatus with a pair of tongs with electrodes by which alternating current is passed through brain.

Frequency – 250mA

Voltage – 75 volts for 10 sec

Electrodes are passed through ears and head of animal.20.that gives it a shock and it gets unconscious .





If current remains low missed shock may result in paralysis of animal although it is conscious. It also affects quality of meat.

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On the other hand too high a current may cause splash. It refers to appearance of petechial hemorrhages in tissues.

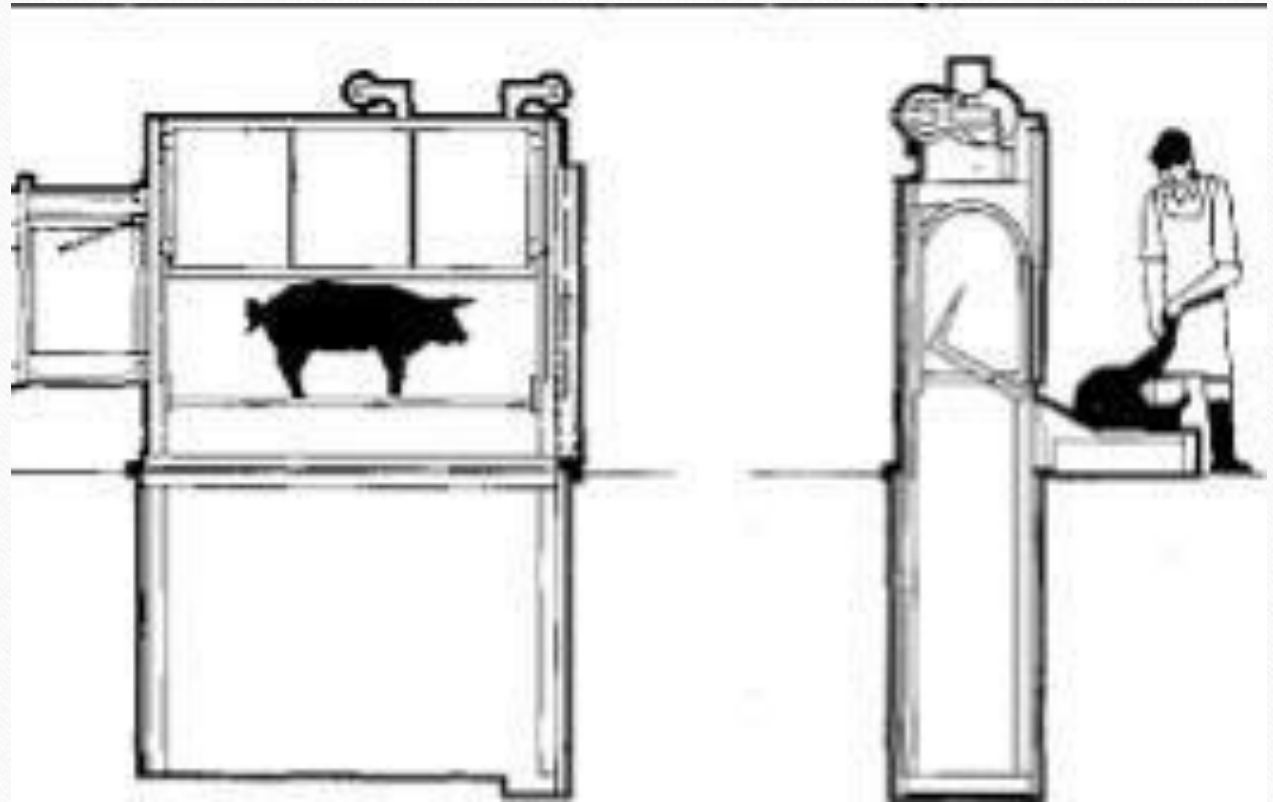
Capillaries rupture due to excessive pressure in blood pressure.



**Chemical method-** It is mostly done in pigs. Carbondiaoxide is Contained in a tunnel. Animal is exposed to 65 percent of Co2.

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On exposure to gas pigs become anesthetized and then bled. Bleeding is efficient Since Co2 stimulates respiration favouring blood circulation.





**STICKING OR BLEEDING  
OF ANIMAL – It take place  
immediately after stunning.**



Stinking can be done by any two methods.

- After stunning, meat is hoisted on overhead rail, carotid arteries and jugular veins Of both sides are severed across the throat region.

- On the floor skin is incised along jugular furrow and carotid artery and jugular vein are severed and then pass to anterior aorta and anterior venacava.

Yield of blood In buffaloes—**10-12 kg in 6m**

Sheep/goat-**1-1.5Kg in 5m**

Pig-**2-3kg in 5-6 m**

**RITUAL SLAUGHTER  
METHODS – Jewish  
method, Sikh method,  
Muslim method, Neck stab  
method**

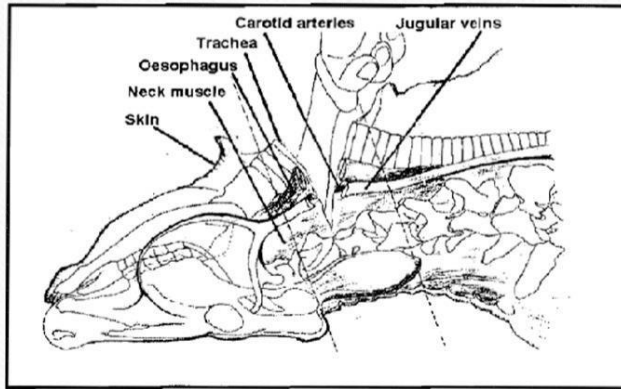
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**Jewish method Of slaughter or shechita**

- **Animals to be slaughtered should be active**
- **The incision across neck is made by a single thrust of sharp knife.**
- **The dressing of the carcass should expose the diaphragm and allow manual examination of thoracic organs.**
- **Hindquarters containing lot of blood vessels are porged by highly skilled Kosher butchers(Schochet) and are thus rarely eaten.**



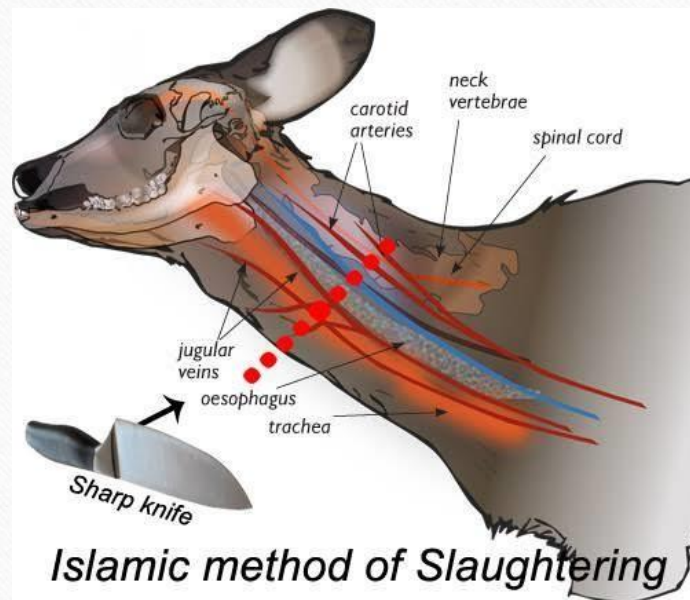


## Muslim method of slaughter or Halaal

- In this method neck of the animal is severed by cutting the four major blood vessels carotid arteries and jugular veins with a sharp knife.

- The spinal cord is left intact. So the nerve centres controlling the heart and lungs remain functional and an efficient bleeding is ensured.

- Muslim method of slaughter is overseen by local authorities (muftis). Stunning may be permitted in some cases if it permits the heart to beat is needed for sometime.





## Jhatka or Sikh method of slaughter

- In this method the head of the animal is chopped off with one big stroke of sword.
  - Skilled workers can even decapitate buffaloes in single stroke with a special sword.
  - Bleeding remains incomplete since medulla oblongata is damaged in process.
- .Due to presence of some blood in tissues, the keeping quality of meat can be affected.





# Neck stab method or evermazine

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- In this method cattle are slaughtered by plunging a short double edged knife (puntilla) into occipito-atlantal space at the nape of the neck severing the medulla oblongata.
- It is followed in Spain, Mexico, some parts of Italy and some South American countries.

***THANK YOU!***