

***MJF COLLEGE OF VETERINARY  
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The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the left and right sides of the frame, creating a modern, dynamic feel. The central area is a clean white space where the text is placed.

***MAINTENANCE OF  
GENERAL ANAESTHESIA***

# ***General Anaesthesia***

***It is the unconsciousness of a subject with analgesia and muscular relaxation caused by controlled, reversible intoxication of the central nervous system using drug or other means.***

# *Stages of general anaesthesia*

- ▶ *Preanaesthetic stage : e.g. Atropine and xylazine*
- ▶ *Induction of anaesthesia:*
- ▶ *Maintenance of anaesthesia*
- ▶ *Recovery of anaesthesia*

# ***Maintenance of general anaesthesia***

***It refers to prolongation can be achieved by administration of either inhalation agent ( ether, isoflurone, halothene) or injectable drug(thiopentone, pentobarbitone, ketamine)***

# *Inhalation Anaesthesia*

- ▶ ***Advantages:*** 1) *safe anaesthesia for longer surgical operation*
- ▶ 2) *recovery from anaesthesia is fast .*
- ▶ 3) *increased patient safety by enriched oxygen concentration and controlled ventilation*
- ▶ ***Disadvantages:*** 1) *the anaesthetic agents may be inflammable, explosive and irritant to the body tissue*
- ▶ 2) *the pungent smell of isoflurane or halothane may force the animal to hold their breathe during induction and as a result, slow the speed of induction.*

# ***INHALENT ANAESTHESIA***

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graph TD; A[INHALENT ANAESTHESIA] --> B[Gases]; A --> C[Volatile liquid]
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## ***Gases***

- ***Carbon monoxide***
- ***Nitrous oxide***

## ***Volatile liquid***

- ***Ether***
- ***Methoxyflurane***
- ***Halothene***
- ***Isoflurane***
- ***Chloroform***

# ***Intravenous Anaesthesia***

***Advantages:*** 1) they are simple to use ,requiring little special instruments.

2)They are not irritating

3) Good for short surgical and diagnostic procedure

***Disadvantages:*** 1)recovery period may be longer depending upon the health status of the animal and drug used.

2) Most injectable anaesthetic result in temporary hypotension or respiratory depressions.



## 2. Intravenous

### *Inducing agents*

Thiopentone sod.  
Methohexitone sod.  
Propofol  
Etomidate

### *Slower acting drugs*

#### *Benzodiazepines*

Diazepam  
Lorazepam  
Midazolam

#### *Opioid analgesia*

Fentanyl

#### *Dissociative anaesthesia*

Ketamine

Thank you.

