



Premedication of anesthesia

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Premedication :

Definition : Administration of drugs before induction of anaesthesia

Components : Psychological
Pharmacological

Premedication :

Psychological Premedication is provided by the anesthesiologist's preoperative visit and interview with the patient and family members.

Pharmacological Premedication is administration of drugs orally or intramuscularly 1 to 2 hours before the anticipated induction of anesthesia

Goals of Premedication ?

- Anxiety relief (anxiolysis)
- Amnesia
- Sedation
- Analgesia
- Antiemetic
- Antisialogogue effect
- Increased in gastric fluid PH

Goal of Premedication ?

- Decreased in gastric fluid volume
- Attenuation of sympathetic nervous system
- Reflex response
- Decrease in anesthetic requirements
- Prophylaxis against allergic reaction

Premedication :

- Anxiolysis
 - benzodiazepines
 - B-blockers
- Amnesia
 - lorazepam
 - anterograde amnesia

Premedication :

- Anti-emetic
 - Dopamine antagonists
 - Antihistamines
 - Anticholinergics
 - 5-hydroxytryptamine antagonists
 - A2- agonists: clonidine, Dexmetomidine

Premedication :

- Antacid
 - Patients who have received opiates
 - present as emergencies
 - If in pain
 - delayed gastric emptying
 - hiatus hernia
- Oral sodium citrate
- Ranitidine , Proton pump inhibitors
- Metoclopramide
- naso- or orogastric tube

Premedication :

- Anti-autonomic
 - Parasympathetic reflexes
 - Excessive vagal activity causing profound bradycardia
 - Halothane
 - Suxamethonium
 - Surgery
 - Traction on the extraocular muscles
 - Handling of the viscera
 - During elevation of a fractured zygoma

Premedication :

Classification	Drugs	Typical Adult Dose (mg)	Route
Opioids	Morphine	5-15	IM
	Meperidine	50-100	IM
Benzodiazepine	Midazolam	2.5-5	IM
	Diazepam	5-10	PO,IM
	Lorazepam	2-4	PO,IM

Antihistamines	Diphenhydramine	25-75	PO,IM
Alpha-2 agonists	Clonidine	0.3-0.4	PO
	Dexmedetomidine	0.4-0.5	IV
Anticholinergics	Atropine	0.3-0.6	IM
	Scopolamine	0.3-0.6	IM
	Glycopyrrolate	0.2-0.3	IM
H2 antagonists	Cimetidine	300	PO,IM,IV
	Ranitidine	150	PO,IM
	Famotidine	20-40	PO
Antacids	Particulate	ml 15-30	PO
	Nonparticulate	10-20ml	PO
Stimulates of gastric motility	metoclopramide	10-20	PO,IM,IV

Premedication :

Reduce or withhold sedatives and analgesics in

- elderly
- debilitated patients (severely ill patient)
- acutely intoxication
- upper airway obstruction
- trauma
- central apnea
- neurologic deterioration
- severe pulmonary and valvular heart diseases

Thank You

End of lecture