

Preadmit Holding Area		
Talk to patient		
Check name band (identifier)		
Check consents - ALWAYS - before sedation		
Check if patient is marked		
Check with holding are RN if patient is ready to go		
Running IV?		
Give pre-op sedation		

Pre-	a a	500	2011010
	~1~A	Coltain.	[or [i] [or] [ii]

Only give once consent is confirmed to have been signed

Midazolam	Administered by TBW because of an increased central volume of distribution. Just about all books seem to agree with this. Dosing in this way will prolong the elimination half-life and its duration of effect. In practice, it may cause over sedation in the obese pts who is sensitive to respiratory depressant drugs
	TBW = total body weight (obese patients could overdose due to larger body weight and thus larger dose)

Mo	AC	GABA-A Agonist
		change frequency of channel opening - neuronal hyperpolarization
		most GABA-A agonists increase channel open time, benzos increase open frequency
Or	nset	30-60 seconds
Du	ıration	20-60 min
Cle	earance	Liver
	tive etabolite	1-hydroxymidazolam
Se	edation	IV 0.01-0.1 ma/ka

Pre-op Sedation (cont)			
Respir- atory Effects	minimal but synergistic respiratory depression when combined with other sedatives		
CV Effects	minimal		
CNS Effects	anterograde amnesia, anticonvulsant properties, anxiolysis, antispasmodic effects <i>No analgesia</i>		
	~anti spasmodic effects good for spinally mediated skeletal muscle relaxation (useful in CP patients)		

Proceed to Operating Room		
Transport patient to OR via stretcher or amulation		
Move patient to OR table and ensure safety strap is secured	usually placed across thighs 2 inches above the knees over the cover	
	arms secured on padded arm boards or tucked	
Apply Monitors	record vital signs <i>at least</i> every 5 minutes	
	-EKG	
	-BP	
	-Pulse Ox	
	-Capnography	
	-Temperature	

Preoxygenation aka Denitrogenation

o 1948: Fowler and Comroe demonstrated that inhalation of 100% oxygen (O2) resulted in a very rapid increase of arterial oxyhemoglobin saturation (Sao2) to between 98% and 99%, but that attainment of the last 1% to 2% was a much slower process o 1950s: Rapid Sequence Induction (RSI) began being utilized in patients at risk for aspiration of gastric contents, preoxygenation became a component of the technique

Preoxygenation extends periods of safe apnea



By **Ikmaceac**

dose

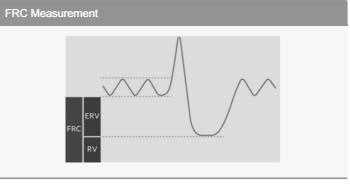
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Preoxygena	tion aka Denitrogenation (cont)
	 defined as the time until a patient reaches a saturation level of 88% - 90%, to allow for the placement of a definitive airway.
Goals of preoxy-genation	
	□ Denitrogenate the residual capacity of the lungs, maximizing oxygen storage
	$\ensuremath{\overline{\wp}}$ Denitrogenate and maximally oxygenate the bloodstream.
Preoxy- genation techniques	o Tidal volume breathing with 100% O2 for 3-5 minutes
	o 8 deep breaths of 100% O2 for 60 seconds
	o Sit up or reverse Trendelenburg to increase FRC
Nasal oxygen @ 15L during intubation	Preoxygenation and apneic oxygenation are particularly beneficial if manual ventilation after induction of anesthesia is undesirable (eg during rapid sequence induction and intubation RSI), if difficulty with airway management is anticipated and for pts who are expected to desat rapidly
	ObesePregnantPediatric



Functional Residual Capacity				
FRC	Volume of air in lungs at end of expiration			
	o FRC is the reservoir of oxygen that prevents hypoxemia during apnea			
	o Diaphragmatic tone and position also effect FRC			
	o FRC cannot be measured with spirometry because the residual volume cannot be exhaled and RV is a component of FRC			
Static equilibrium	At FRC the inward elastic recoil of the lungs is balanced by the outward elastic recoil of the chest wall			
Normal FRC	35 ml/kg			
Indirect FRC measur- ement	Nitrogen washout			
	Helium wash in			
	Body plethysmography			
How will FRC last during apnea?	o We can estimate how long a pt can remain apneic before desaturation if we know the patients FRC and oxygen consumption (VO2)			
	o Healthy adult breathing 100% O2 takes 6.9 minutes to desaturate to 90% on pulse oximetry ☐ 1 minute if the patient was breathing room air			
Desat formula	time until patient desats = FRC/VO2			



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• Hypermetabolic pts

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Functional Residual Capacity (cont)		
Conditions that decrease FRC	Obesity • Decreased chest wall compliance • Increased airway collapsibility	
	Pregnancy • Diaphragm shifts cephalad due to gravid uterus • First give O2!!! • Decreased chest wall compliance	
	Neonates • Less alveoli • Decreased lung compliance • Cartilaginous ribcage prone to collapse during inspiration	
Postions that affect FRC	Decrease • Supine • Trendelenburg • Lithotomy	
	Increase • Prone • Sitting • Lateral- unchanged or increase	

IV Induction Agents - General Anesthesia (cont)			
	Clearance	Liver	
	Dosing	/V1-2 mcg/kg induction 10 mcg/kg (watch for chest wall or glottis rigidity)	
	Resp Effects	respiratory depression	
	CV Effects	bradycardia, vasodilation	
	CNS Effects	analgesia, N/V	
Amine - Lidocaine	MOA	o Local anesthetics bind to alpha-subunit on inside of sodium channel o When critical number of sodium channels are blocked cell can't be depolarized and action potential cant be propagated	
	Adverse Effects	 Mild CNS-related symptoms Drowsiness dizziness metallic taste Headache blurred vision paresthesia dysarthria euphoria Nausea Larger doses or if given rapidly Tinnitus Tremor Agitation Cardiovascular changes are usually 	

Opioid Potency



Opioid Potency Least potent (left) Most Potent (Right)

Meperidine 100mg / 0.1 RP

Morphine 10mg / 1

Hydromorphone 1.4m / 7

Alfentanil 1000mcg / 10

Remifentanil 100mg / 100

Fentanyl 100mcg / 100

Sufentanil 10mcg / 1000

IV Induction Agents - General Anesthesia				
Opioids - Fentanyl	MOA	mu receptor agonist		
	Onset	5 min		
	Duration	20-30 min		
	Active Metabolite	CYP3A4 (P450)		



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minimal with the usual doses



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IV Induction Agents - General Anesthesia (cont)		
	Uses	o 5% of patients have pain at propofol injection and of these, 1% of them have severe or excruciating pain √ 40 mg Lidocaine prevents this √ Also can mix Lidocaine and Propofol • Propofol and lidocaine= Magic o Add 1 ml of 1 % or 2% lidocaine to a 10 ml syringe of propofol √ Place the IV in an antecubital vein (vs the hand). √ Pretreat with IV opioids. √ If the IV is in the hand, place a tourniquet proximally and pretreat with lidocaine
Propofol most common induction agent	MOA	GABA-A agonist (how long the channel stays open) GABA-A receptor stimulation hyperplarizes neurons by increasing CI- conductance. More CI- inside the cell makes the cell more negative. This reduces resting membrane potential (RMP moves further away from TP)
	Onset	30-60 seconds
	Duration	5-10 min
	Clearance	Liver and extra hepatic metabolism

IV Induction	n Agents - Gene	ral Anesthesia (cont)
	Active Metabolite	None
	Induction dose	1.5-2.5 mg/kg IV
	Mainte- nance dose	25-200 mcg/kg/min
	Resp Effects	decreased resp drive
	CV Effects	decreased BP, SVR, preload, contractility
	CNS Effects	decreased ICP and IOP, no analgesia, +/- seizure activity
Etomidate	MOA	GABA-A agonist
	Onset	30-60 seconds
	Duration	5-15 min
	Clearance	Liver & plasma esterases
	Active Metabolite	None
	Induction dose	0.2-0.4 mg/kg IV
	Resp Effects	Mild Resp Depression
	CV Effects	Minimal
	CNS Effects	Decreased ICP, no analgesia



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IV Induction	n Agents - Ge	eneral Anesthesia (cont)	IV Induc
	Side Effects	o Myoclonus (not a seizure) o Does not cause seizures if the patient does not have a history of seizures o Suppression of adrenocortical function for up to 24 hrs. It should be avoided in sepsis and acute adrenal failure o N&V (greater than any other induction agent) o Acute intermittent porphyria	Resp Effects CV Effects CNS Effects
Ketamine	MOA	NMDA antagonist (creates dissociated state)	Oversee
	MOA secondary	Many 2nd receptor targets including opioid, MAO, serotonin, NE, muscarinic, and NA channels	America Allergy, Immuno
	Onset IV	30-60 seconds	o Egg a
	Onset IM	2-4 minutes	
	Onset PO	variable	
	Duration	10-20 minutes (can last 60-90 min to return to full orientation)	
	Clearance	Liver	o Soy
	Active Metabolite	Norketamine	ОСОУ
	Induction Doses	IV 1-2 mg/kg IM 4-8 mg/kg PO 10mg/kg	
	Opioid Sparing Dose	0.1-0.5 mg/kg or 1-3 mcg/kg/min	

IV Inducti	IV Induction Agents - General Anesthesia (cont)		
Resp Effects	maintains resp drive, increased oral secretions (DROOL EVERYWHERE, GIVE GLYCO)		
CV Effects	Increased SNS tone, SVR, HR, and CO		
CNS	Increased ICP, IOP, nystagmus and analgesia		
Effects	causes emergence delirium and lowers seizure threshold,		
	can also treat severe depression		

can also treat severe depression		
Food Allergies & Propofol		
Overseen by the American Academy of Allergy, Asthma and Immunology. They state:	o Propofol can cause anaphylactic reactions, the cause of these reactions is unclear and appears not to be related to soy or egg allergy.	
o Egg allergy	Patients with soy, peanut allergy or egg allergy can receive propofol without any special precautions. – Probably safe Most people with egg allergies are allergic to the albumin egg whites. Egg lecithin found in propofol is derived from the YOLK	
o Soy	☼ Any soy proteins that are capable of producing an immune response are removed during the refining process ☼ Prop is safe to use in pts with soy allergy	



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Page 5 of 13.

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Food Allergi	ies & Propofol (cont)
o Peanut	Like soy peanuts are a type of legume. Some have speculated the potential of cross sensitivity between peanuts and soy (and thus propofol) although there is no evidence to support this Prop is safe to use in pts with a peanut allergy
o Increased Risk of Bacterial Contam- ination	Propofol syringes must be discarded within 6 hrs Infusions (and the tubing) must be discarded within 12 hrs

LBW vs TBW			
TBW	Total body weight Maintenence		
	Weight when individual steps on scale		
IBW	Describes the BMI associated with the lowest risk of body weight related comorbidities. We can estimate the ideal body weight with the following formulas:		
	o Men (kg)= height (cm) - 100 o Women (Kg)= Height (cm) - 105		
LBW	Lean body weight		
	⟨□ LBW = 1.3 X IBW		
Drug	Dose	Recommendation	
Propofol	Induction Maintenance	LBW TBW	
Succinylc- holine	Intubation	TBW	
Rocuronium Vecuronium	Intubation Maintenance	LBW LBW	
Cisatr- acurium Atracurium	Intubation Maintenance	TBW TBWvsLBW	

LBW vs TBW (cont)		
Fentanyl ((nl))Suf- entanil	Loading Maintenance	TBW LBW
Remifentanil	Loading Maintenance	LBW LBW
Midazolam	Loading (not preop) Maintenance	TBW TBW
Epidural Local		75% of normal dose

Epidural Local	75% of normal dose
Guedel's Stages of	f Anesthesia
Stage 1 -	o Can be initiated in a preoperative holding area
Analgesia or	o Patient is given medication and may begin to
Disorientation	feel its effects but has not yet become unconscious
o Induction stage	☼ Patients are sedated but conversational ☼ Breathing is slow and regular ☼ Patient progresses from analgesia free of amnesia to analgesia with concurrent amnesia ☼ This stage comes to an end with the loss of consciousness.



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Page 6 of 13.



Guedel's Stages of Anesthesia (cont)

o Loss of Consciousness Count backwards from 100, the patient typically loses consciousness between 80 to 90, i.e. stops counting – the old way

⇔ Blinking increases, and nystagmus may appear
 ⇔ Eyes eventually fix in the midline as the lids

close • GENTLE

 Patient becomes unresponsive, atonic, apneic, and the oculocephalic (or more precisely vestibular-oculocephalic) and corneal reflexes are lost

Call patients name
 Eyelash reflex

√ Tape eyes- as soon as you lose consciousness

• If you struggle to ventilate they you could hurt their eyes

· Not on sedation cases

· Don't tape in endo watch the L eye

o Eye
Protection
after Loss of
Consci-

ousness

 $\ensuremath{ \begin{tabular}{l} \ensuremath{ \begin{tabular}{l} \ensuremath{ \ens$

the air way

Guedel's Stages of Anesthesia (cont)

Stage 2 - Excitement

o There is a higher risk of laryngospasm (involuntary tonic closure of vocal cords) at this stage, which may be aggravated by any airway manipulation

o The combination of spastic movements, vomiting, and rapid, irregular respirations can compromise the patient's airway.]

o Fast-acting agents help reduce the time spent in stage 2 as much as possible and facilitate entry to stage 3.

o NEVER EXTUBATE AT THIS TIME

o If you are using gas induction no muscle relaxationyou can really see this

₽ FOR KIDS

Laryngospasm

· Don't touch them too soon

Stage 3 -Deep o Surgical Anesthesia targeted anesthetic level for procedures requiring general anesthesia

o Ceased eye movements and respiratory depression are the hallmarks of this stage.

o Airway manipulation is safe at this level

4 planes in stage



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Page 7 of 13.

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Guedel's Stages of Anesthesia (cont)

- eyelid, conjunctival, and swallow reflexes usually disappear in this plane
- Just gazing
- \Box Plane 2, there are intermittent cessations of respiration along with the loss of corneal and laryngeal reflexes. Halted ocular movements and increased lacrimation may also occur.
- ☼ Plane 3 is marked by complete relaxation of the intercostal and abdominal muscles and loss of the pupillary light reflex. This plane is referred to as "true surgical anesthesia" because it is ideal for most surgeries.

Mask Ventilation	
One hand	o C o E o If you are struggling put in oral airway
Two hands	o Get it less than 20 o Two people approach
Non- Invasive Airway Maneuvers	 Chin lift Not usually in induction Jaw Thrust

Mask Ventila	ation (cont)
Placement of LMA if unable to ventilate	LMA Difficult supraglottic airway placement Restricted mouth opening Obstruction Distorted airway Stiff lungs or C spine
Upper Airway Patency	 Pharynx Collapsible tube inside box Box is formed: Tongue Soft palate Pharyngeal tissue Cervical spine
During inspiration a negative gradient draws air into lungs	Tendency to make airway collapse In awake state Counteracted by three sets of dilator muscle
If able to ventilate give muscle Relaxant	 Upper airway consists of the cartilaginous and bony structures of the nose and mouth, followed by the soft tissue of the oropharynx and laryngopharynx, and ending in the rigid trachea Soft tissue of the pharynx is prone to collapse in the unconscious, or anesthetized, patient and may be further compromised by obesity, a large tongue, airway edema, large neck circumference, external compression, and many other factors



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Mask Ventilation (cont)

Contro versy

- · When placing an endotracheal tube after induction o Historically been instructed to refrain from administering muscle relaxation until adequate mask ventilation in the anesthetized patient was confirmed in order to both avoid Critical hypoxemic event
- ☐ Ensure an attempt at an escape wake up.
- o There is little published evidence to support this practice, and the administration of muscle relaxation before ensuring adequate BVM ventilation remains controversial
- o Neuromuscular Blockade and the Airway
- Regarding Mask Ventilate- There is evidence that paralysis of the upper airway musculature improves ability to ventilate
- rocuronium facilitated bag-mask ventilation in anesthetized patients

Oral Airways







Difficult Ventilation Mnemonic



Ventilate Patient with mask after loss of consciousness

Upper Airway Patency



Mneumonic for Difficult LMA Placement



Why Neuromuscular Blockades (NMB)?

• They allow for easy airway operative field manipulation

- o Good for specific types of surgery
- o No single agent is ideal for every situation

the Neuromuscular

Junction?

· What is

- o The neuromuscular junction is a synapse that develops between a motor neuron and a muscle fiber o Made up of several components: the presynaptic nerve terminal, the postsynaptic muscle membrane, and the intervening cleft (or gap)
- (NMJ) o End Plate
 - acetylcholinesterase in the synaptic cleft
 - Not all acetylcholine that is released reaches the endplate, some is hydrolyzed en route.



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Page 9 of 13.



Why Neuromuscular Blockades (NMB)? (cont)

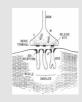
MuscleRelaxants

- o Disrupts the physiological sequence of neuromuscular transmission.
- o Provides NO ANALGESIA or AMNESIA
- o Used to optimize surgical condition and facilitate intubations.
- o Mechanism of action occurs at the neuromuscular junction (NMJ)
- o Post junction nicotinic receptors are composed of five subunits
- o Lined up circumferentially around ion conducting core
- o Two alpha subunits

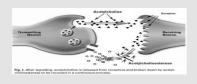
Neuromuscular junction



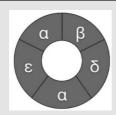
Muscle Relaxants



End Plate



Post Junction Nicotinic Receptors



- o Post junction nicotinic receptors are composed of five subunits
- o Lined up circumferentially around ion conducting core
- o Two alpha subunits

Depolarizing NMB

Succinylcholine chloride (Anectine, Quelicin)

- o Depolarizing neuromuscular blockers act as **agonists** at postsynaptic nicotinic acetylcholine receptors and cause prolonged membrane depolarization resulting in neuromuscular blockade.
- Resemble ACH bind to ACH receptors
- generating an action potentialdepolarization.
- Sodium channels are open as a result of depolarization, then close in a resting state and muscle relaxation occurs.
- Ach binds to subunit-allows channel to open -depolarization occurs
- Depolarizing neuro muscular blockers
- Bind to alpha subunits
- Cause Channel to remain open- mimics Ach
- Prolonged depolarization occurs

Chemical formula: C14H30N2O4



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Depolarizing I	NMB (cont)
MOA	agonists at postsynaptic nicotinic acetylcholine receptors and cause prolonged membrane depolarization resulting in neuromuscular blockade
Onset	IV 60-90 sec IM 2-3 min
Duration	5 min
Reversal	None
Dose	IV 0.5-1.5 mg/kg Ped IV 4-5 mg/kg Laryngospasm: 15 mg/kg/IV or 4-6mg/kg IM
Metabolism	Psuedocholinesterase
Adverse Effects	주 Hyperkalemia 주 Malignant Hyperthermia 주 Apnea

Non-Depo	larizing	NMB
----------	----------	------------

- o NDMR compete with acetylcholine for the active binding sites at the postsynaptic nicotinic acetylcholine receptor
- o Resemble ACH enough to **bind to the ACH receptor**, but **fail to activate** the receptor, thus blocking its action (paralyzing the muscle transmission)
- o "The key fits but won't open the door."
- o Competitive Antagonist compete with ACH

♦ SO THEY CAN BE REVERSED

o The bond is very tight depending upon the drug, it will last from 20 to 90 minutes.

Non-Depolarizing NMB (cont)		
o Compet- itive Antagonist	Sites oc blockers Cause of the control	ha subunits are binding sites for Ach cupied by nondepolarizing neuro muscular channel to remain closed to produce depolarization can't occur
Rocuronium		
	MOA	o Resemble ACH enough to bind to the ACH receptor, but fail to activate the receptor, thus blocking its action (paralyzing the muscle transmission) o Competitive Antagonist – compete with ACH
	Onset	1-2 min
	Duration	20-35 min
	Dose	IV 0.6 - 1.2 mg/kg Infusion 5-12 mcg/kg/min Pretreatment 5mg no reconstitution
	Reversal	Sugammadex Neostigmine (less effective)



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Non-Depolarizing NMB (cont)		
	Metabolism	some de-acetylation
Vecuronium	MOA	
	Onset	3-5 min
	Duration	20-35 min
	Metabolism	Liver
	Dose	IV: .0812 mg/kg Infusion: 1-2 mcg/kg/min
		To shorten the onset time, the priming principle involves the administration of a small dose of rocuronium usually 3 minutes prior to induction The optimal priming dose which is the largest dose that it is given that will not produce weakness in an awake patient is very small Priming dose is given prior to succinylcholine rapid sequence induction to decrease the myalgias (5 mg)

Rapid Sequence Induction		
Indicators	o Patient at risk for regurgitation and aspiration who require GA History of o Recent vomiting or recent meal o Pregnancy ☼ Over 18 weeks ሯ Full stomach Շ Loose spincter o Increased intra-abdominal pressure o Abdominal distension o Poorly controlled GE reflux o Decreased level of consciousness o Gastroparesis o Bowel Obstruction Շ GOP1	
	0 00	

Rapid Sequence I	nduction (cont)
Rapid	o Preoxygenation is critical
Sequence	o Suction and airway alternatives available
Induction	o Use adjuvant drugs to control BP, HR
Method	response: midazolam, narcotics, lidocaine,
	ketamine, etc
	o Explain and rehearse use of cricoid pressure
	with the patient.
	o Optimize position of upper airway.
	o Identify person to do cricoid pressure
	o Apply Cricoid while patient is awake
	√ Conscious 20N (2 kg)
	$\cline{igspace}$ If you cant see they are pushing too hard
	√ Tell them to keep holding pressure until you
	them to let go
	o Propofol 1.5-2.5 mg/kg
	o asleep 40N (4 kg) of pressure
	o Succinylcholine 0.5 to 1.5 mg/kg or Rocuronium
	1.2 mg/kg
	o Loss of consciousness-fasciculations
	o Eye Protection
	o Intubate
	o Hold cricoid until endotracheal tube cuff is
	inflated and placement is confirmed
Modified Rapid	o Same steps but with ventilation
Sequence	o Gentle IPPV (Paw 10-15 cm H2O) with 100%
	O2 until relaxant has peak effect.
	o If you cant see vent until glide scope



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General Anest	hesia - Inhalation Induction
Indications	♂ Difficult IV access ♂ Developmentally delayed adult ♂ Pediatrics ♂ Potential airway obstruction e.g. epiglottitis ♂ Kids or special need, ♂ Sevo dilates vein- if you cant get IV
Contraind- ications	Aspiration risk Active bleeding in airway (risk of cough, laryngospasm)
Inhalation Induction Technique	♂ Prime circuit with anesthesia agent from vaporizer at maximum setting ♂ Oxygen at 8L/min ♂ Pop off valve open and patient end of circuit occluded. ♂ Have patient exhale maximally, then apply face mask to patient and inhale maximally from primed circuit. ♂ Expect prompt onset of sleep (60 seconds) followed by transient apnea, then pattern of rapid shallow respirations. ♂ They are crying then go dominate

General Anesthesia - Inhalation Induction (cont)		
Inhalation	₽ Prime circuit with N2O 70%,	
Induction	√FGF at 8L/min	
Technique	Pop off valve open and patient end of circuit	
#2	occluded.	
	⟨□⟩ When patient is comfortable with situation, begin	
	volatile agent increasing vaporizer setting by 0.5%	
	every 3 or 4 breaths	
	Reassure patient with calm voice encouraging a	
	regular smooth breathing pattern.	
	$\ensuremath{\mbox{\sc T}}$ Use of a deep breathing pattern here may lead to	
	premature onset of apnea with prolonged phase.	
	⟨¬ Expect several minutes to fall asleep. Assist	
	ventilation	
	√Don't use N2O if you are trying to get pregnant-	
	spont miscarriage	
	√ For adults or special needs	

Induction	
	Coss of consciousness
	Eye protection
	Usually don't ventilate
	Open mouth insert LMA

secretions go right in the airway

 $\ensuremath{\sqrt[4]{3}}$ Others give small dose



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