

بناهم خدایمی که در این مرد است



بیہوشی در بیماران سرپایی و پانکچر

دکتر علیرضا چمنی

متخصص بیہوشی



عمل پانکچر

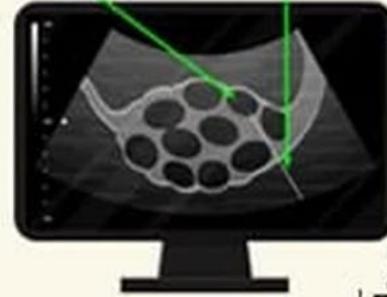
یا تخمک کشی

Ovum pick-up



فولیکول

سوزن



مکش فولیکول



تخمدان

سونوگرافی

لوله آزمایش
(37°C)



• **Table 1 Benefits of ambulatory surgery**

- Patient preference, especially children and elderly
- Lack of dependence on the availability of hospital beds
- Greater flexibility in scheduling operations
- Low morbidity and mortality
- Lower incidence of infection
- Lower incidence of respiratory complications
- Higher volume of patients (greater efficiency)
- Shorter surgical waiting lists
- Lower overall procedural costs
- Less preoperative testing and postoperative medication



Ambulatory surgery remains very popular with patients with infrequent rates of adverse events and complications.

One important component of success in ambulatory surgery and anesthesia is minimal postoperative nausea and vomiting.



Table 2 Common factors associated with nausea, vomiting, and retching during the perioperative period

Patient-Related Factors

Age, gender, preexisting diseases (e.g., diabetes), history of motion sickness or postoperative nausea and vomiting, smoking history, and level of anxiety, as well as intercurrent illness (e.g., viral infection, pancreatic disease)

Anesthesia-related factors

Premedication, opioid analgesics, induction and maintenance anesthetics, reversal (antagonist) drugs, gastric distention, inadequate hydration

Surgery-related factors

Operative procedure, length of surgery, blood in the gastrointestinal tract, forcing oral intake, opioid analgesics, premature ambulation (postural hypotension), and pain



Table 3 Operative procedures suitable for ambulatory surgery

Specialty	Types of Procedures
Dental	Extraction, restoration, facial fractures
Dermatology	Excision of skin lesions
General	Biopsy, endoscopy, excision of masses, hemorrhoidectomy, herniorrhaphy, laparoscopic procedures, varicose vein surgery
Gynecology	Cone biopsy, dilatation and curettage, Hysteroscopy, laparoscopy, polypectomy, tubal ligation, vaginal hysterectomy
Ophthalmology	Cataract extraction, chalazion excision, strabismus repair, tonometry
Orthopedic	Anterior cruciate repair, arthroscopy, carpal tunnel release, closed reduction, manipulation under anesthesia
Otolaryngology	Adenoidectomy, laryngoscopy, mastoidectomy, myringotomy, polypectomy, rhinoplasty, tonsillectomy, tympanoplasty
Pain clinic	Chemical sympathectomy, epidural injection, nerve blocks
Plastic surgery	Basal cell cancer excision, cleft lip repair, liposuction, mammoplasty, otoplasty, scar revision, septorhinoplasty, skin graft
Urology	Bladder surgery, circumcision, cystoscopy, lithotripsy, orchiectomy, prostate biopsy, vasovasostomy



Table 4 Laboratory test recommendations for outpatients scheduled to undergo ambulatory surgery procedures under general anesthesia

Age range	Men	women
<40	None	Pregnancy test*
40-49	Electrocardiogram	Hematocrit level, pregnancy test*
50-64	Electrocardiogram	Hemoglobin or hematocrit level, electrocardiogram
65-74	Hemoglobin or hematocrit level, electrocardiogram, serum urea nitrogen, glucose	Hemoglobin or hematocrit level, electrocardiogram, serum urea nitrogen, glucose
>75	Hemoglobin or hematocrit level, electrocardiogram, serum urea nitrogen, glucose, chest radiograph	Hemoglobin or hematocrit level, electrocardiogram, serum urea nitrogen, glucose, chest radiograph



Sedative techniques can facilitate a wide variety of procedures performed in the hospital, office, or remote settings. However, sedation is no safer than general anesthesia and **requires the same standards** of personnel, monitoring, and perioperative care as for patients undergoing general or regional anesthesia.



Table 5 Use of anxiolytic-sedative drugs for outpatient premedication

	Dosage range	onset (min)	key point
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Benzodiazepines

Midazolam	7.5-15 mg PO	15-30	large first-pass effect
	5-7 mg IM	15-30	water soluble, nonirritating
	1-2 mg IV	1.5-3	rapid onset, excellent amnesia
Diazepam	5-10 mg PO	45-90	Long-acting metabolites
Temazepam	15-30 mg PO	15-40	Comparable anxiolysis to midazolam
Triazolam	0.125-0.25 mg PO	15-30	Prominent sedation
Lorazepam	1-2 mg PO	45-90	Prolonged amnestic effect

α_2 -Adrenergic Agonists

Clonidine	0.1-0.3 mg PO	45-60	Prolonged sedative effect
Dexmedetomidine	50-70 μ g IM	20-60	Bradycardia and hypotension
	50 μ g IV	5-30	reduced anesthetic/analgesic requirements



Table 6 Classification of opioid compounds

Naturally occurring

- Morphine
- Codeine
- Papaverine
- Thebaine

Semisynthetic

- Heroin
- Dihydromorphone/morphinone
- Thebaine derivatives (e.g., etorphine, buprenorphine)

Synthetic

- Morphinan series (e.g., levorphanol, butorphanol)
- Diphenylpropylamine series (e.g., methadone)
- Benzomorphan series (e.g., pentazocine)
- phenylpiperidine series (e.g., meperidine, fentanyl, sufentanil, alfentanil, remifentanil)



Table 7 Factors Increasing the Magnitude or Duration of Opioid-Induced Respiratory Depression

High dose

Sleep

Old age

Central nervous system depressant

Inhaled anesthetics, alcohol, barbiturates
benzodiazepines

Renal insufficiency

Hyperventilation, hypocapnia

Respiratory acidosis

Decreased clearance

Reduction of hepatic blood flow

Secondary peaks in plasma opioid levels

Reuptake of opioids from muscle, lung, fat, and intestine



Table ^ Comparison of currently available intravenous anesthetics for use during ambulatory anesthesia

	Dose (mg/kg)	Onset of Action	Recovery Profile	Side Effects
Thiopental	3-6	Rapid	Intermediate	Drowsiness (“hangover”)
Methohexital	1.5-3	Rapid	Rapid	Pain, excitatory activity
Etomidate	0.15-0.3	Rapid	Intermediate	Pain, myoclonus, emesis
Ketamine	0.75-1.5	Immediate	Intermediate	Psychomimetic reaction, cardiovascular stimulation
Midazolam	0.1-0.2	Slow	Slow	Drowsiness, amnesia
Propofol	1.5-2.5	Rapid	Rapid	Pain on injection, cardiovascular depression



Table 9 Complications of sedation in infertility treatment procedure

Apnea

- overdose of anesthetic drugs
- old age
- lung diseases
- hypo metabolic diseases (hypothyroidism)

Treatment

- Ventilation by face mask with 100% O₂
- If no response or no ventilation with mask: Intubation

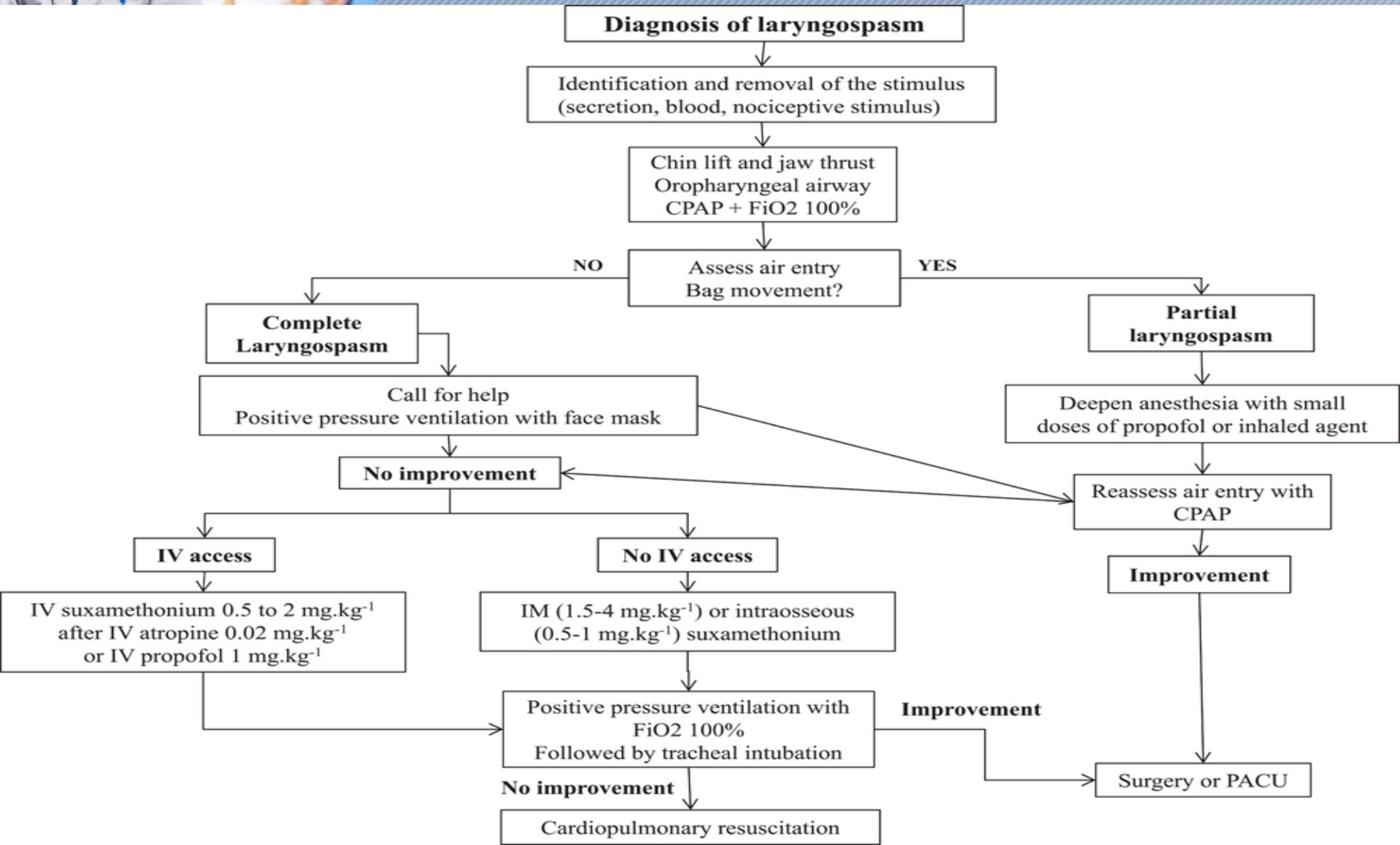
Aspiration

common in patients with:

- Achalasia
- Obstruction
- incomplete NPO

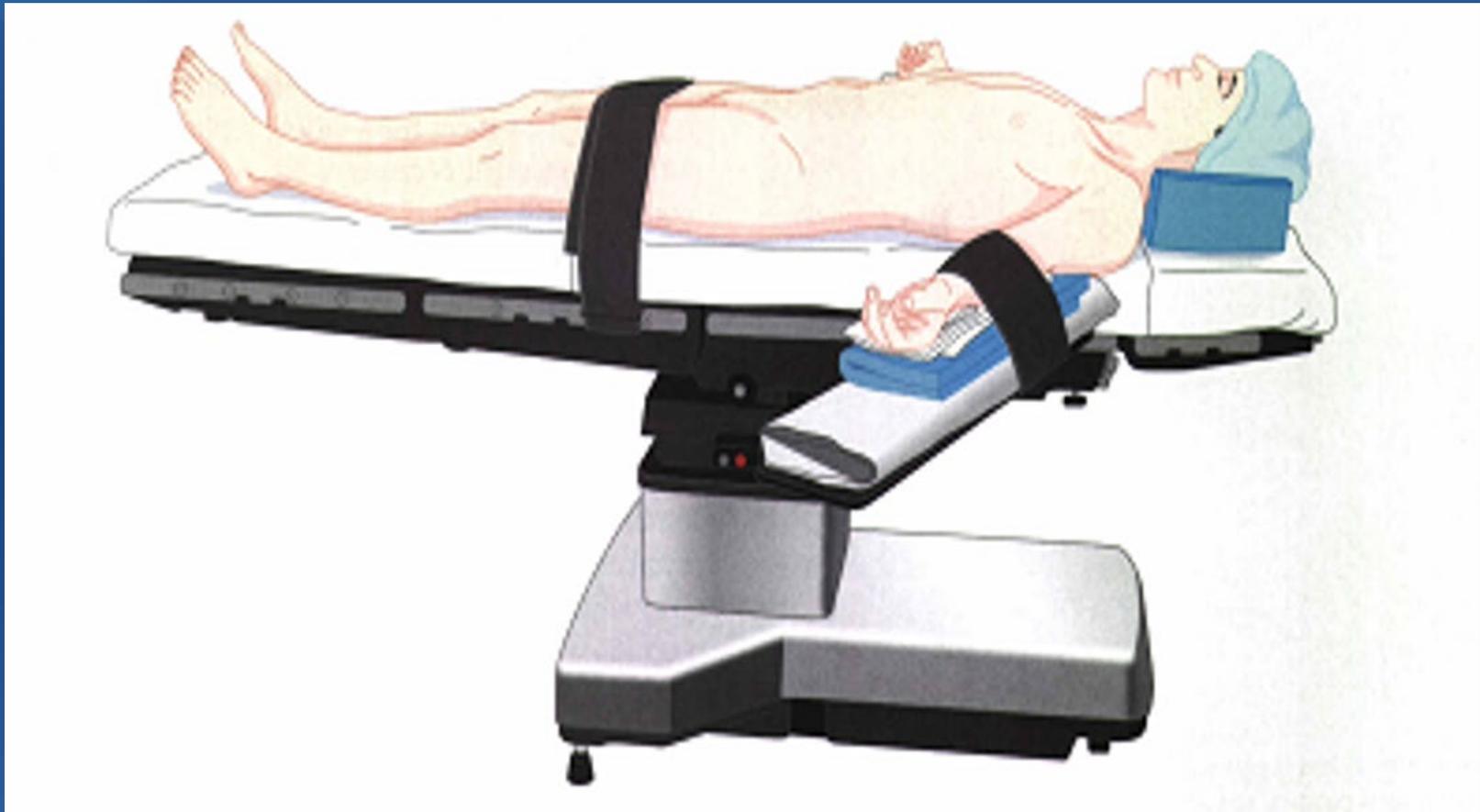
Treatment: intubation and suction the trachea

Laryngospasm





Patient positioning



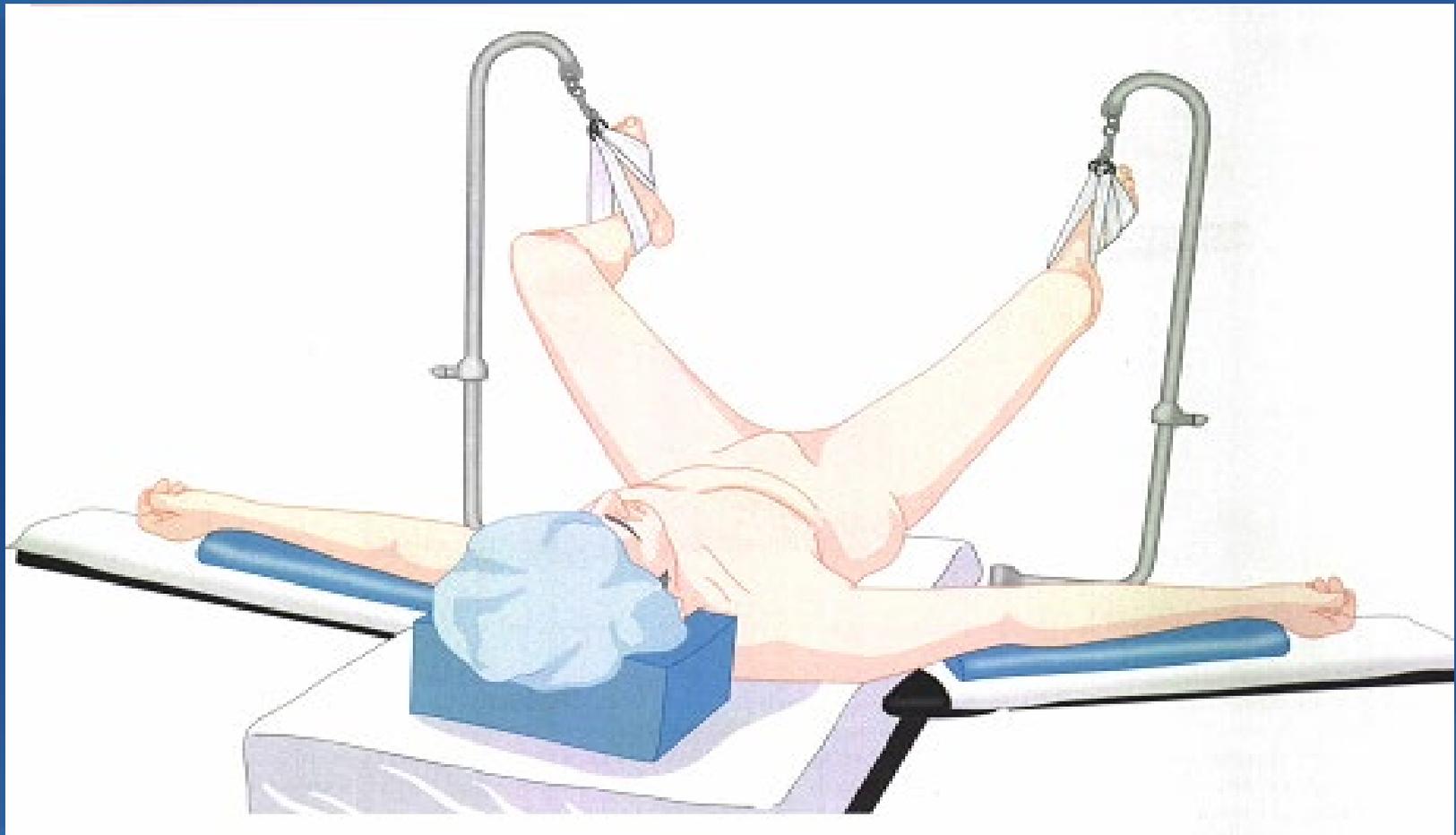


Patient positioning





Patient positioning





Patient positioning





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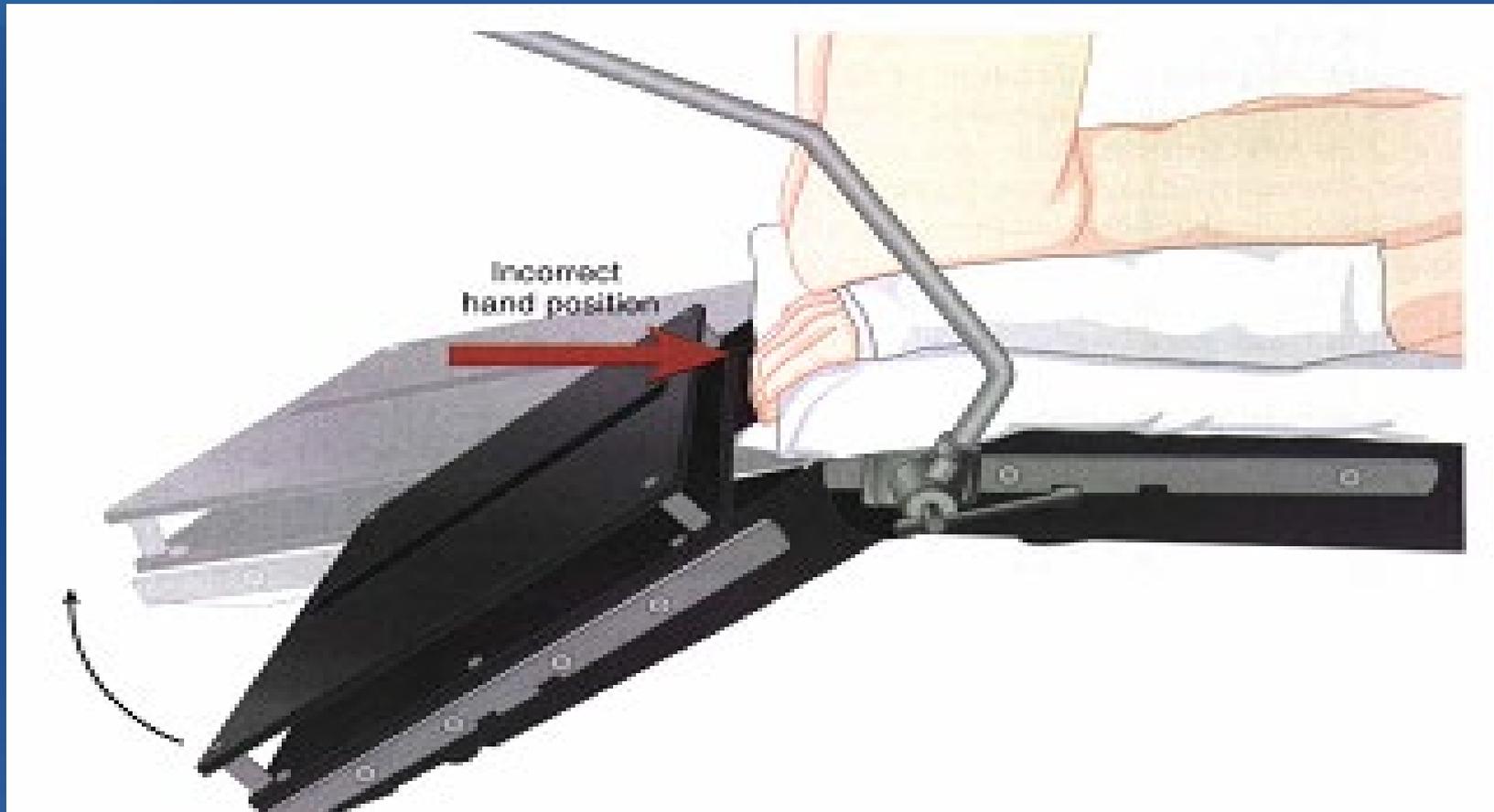
یا تخمک کشی

Ovum pick-up





Patient positioning





Patient positioning

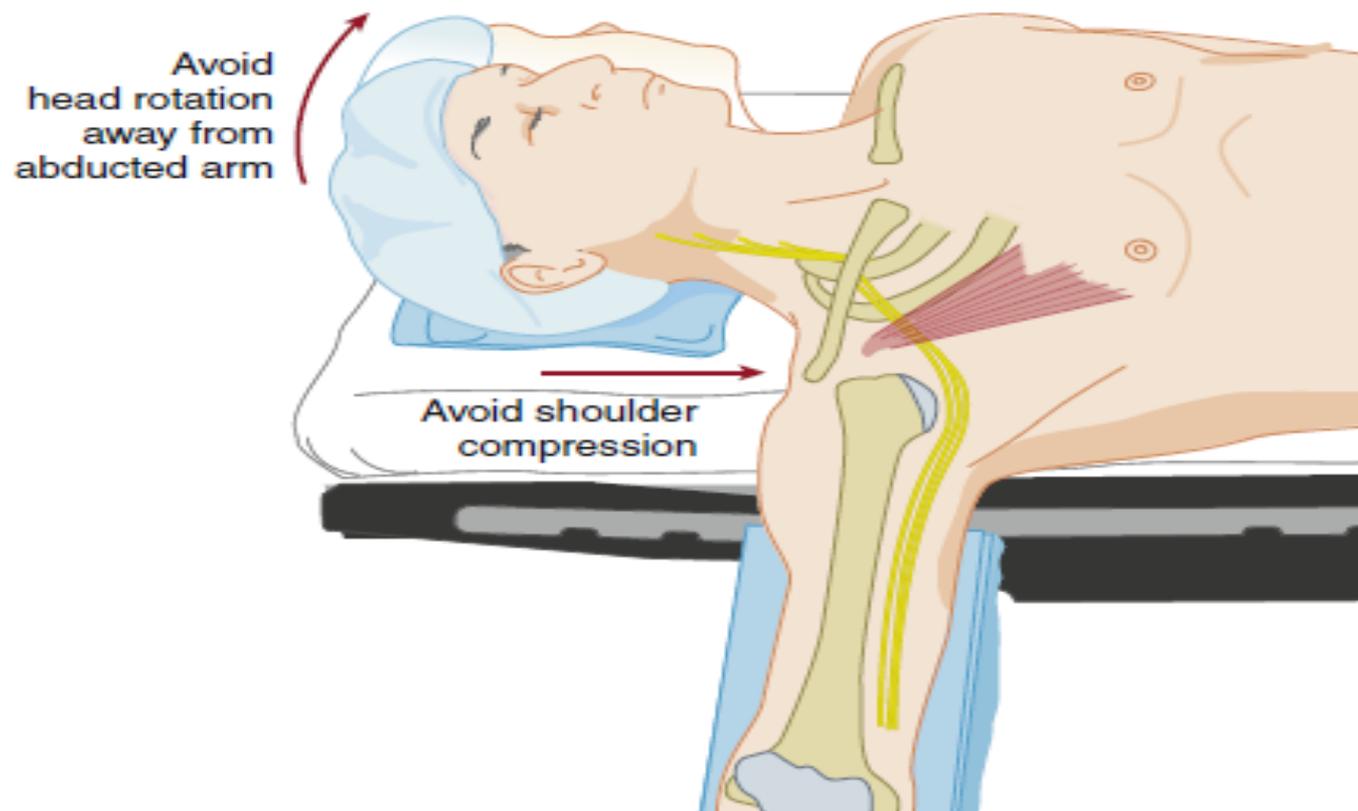






Table 1. Criteria for facility discharge at the Brigham and women's Hospital, Boston, Massachusetts

Alert and oriented to time and place

Stable vital signs

Pain controlled by oral analgesia

Nausea or emesis mild, if present

No unexpected bleeding from operative site

Able to walk without dizziness

Has been given discharge instructions and prescriptions

Accepts readiness for discharge

Adult present to accompany patient home



از حسن توجه شما سپاسگزارم

با آرزوی تندرستی
برای همگی شما
گرانقدران

