Preoperative Anaesthetic Assessment and Premedication 26/09/2021

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Overview

The preoperative visit✓ Anaesthetic history

- ✓Examination
- ✓ Special investigations
- ✓ Medical referral
- ✓ Risk assessment
- ✓ Informing the patient and consent
- ✓ Premedication

NCEPOD classification of intervention

(National Confidential Enquiry into Patient Outcome and Death

	Description	Example	
Immediate	 Life/limb/organ saving Resuscitation occurs simultaneously with surgery Surgery within minutes 	Rapid bleeding, e.g. trauma, aneurysm	
Urgent	Life/limb/organ threatening Surgery within hours 	Perforated bowel or less urgent bleeding	
Expedited	Early surgery (within a day or two)	Large bowel obstruction, closed long bone fracture	
elective	Timing to suit patient and hospital	Joint replacement, unobstructed hernia repair, cataract	

The preoperative visit

The preoperative visit of all patients by anesthetist is an essential requirement for the safe and successful conduct of anaesthesia

- Main aim is to assess the patient's fitness for anaesthesia
- The Best to be performed by an anaesthetist Preferably the one who is going to administer the anaesthetic

The Goal of Preoperative visit.

- To educate about anesthesia, perioperative care and pain management to reduce anxiety.
- To obtain patient's medical history and physical examination .
- To determine which lab test or further medical consultation are needed .
- To choose care plan guided by patient's choice and risk factors

The preoperative visit

visit allows

- Best anaesthetic technique
- Any potential interactions between concurrent diseases
- Anaesthesia anticipated
- Provides an explanation
- Reassurance for the patient

The preoperative visit

Coexisting Illness

- Improve the patients condition prior to surgery
- Seeking advice from other specialists
- Optimise treatment
- Final decision .

- Three situations where special arrangements are usually made
 - 1-Patients with complex medical or surgical problems
 - patient is often admitted several days before surgery
 - anaesthetist is actively involved in optimising their condition prior to anaesthesia and surgery

2-Surgical emergencies

only a few hours separates admission and operation in these patients urgent investigations or treatment

3-Day-case patients

- These are patients who are planned
- Generally 'fitter' ASA1 or ASA2
- Assessment in anesthesia clinic

Anesthetic history And Examination

Anaesthetic history and examination

Anaesthetist should take a full history & Examine each patient

PREVIOUS ANAESTHETICS AND OPERATIONS

- Hospitals
- Enquire about inherited or 'family' diseases
 - sickle-cell disease
 - porphyria

Difficulties with previous anaesthetics

- History of difficult intubation
- nausea
- vomiting
- dreams
- awareness
- postoperative jaundice

PREVIOUS ANAESTHETICS AND OPERATIONS

- Present & past medical history
 - all the aspects of the patient's medical history
 - relating to the cardiovascular and respiratory systems and its severity

Patient factors associated with cardiac risk

- Age
- Heart failure
- Ischaemic heart disease
- (MI / angina)
- Cerebrovascular disease (CVA / TIA)
- Insulin dependent diabetes
 mellitus
- Renal impairment or dialysis



Cardiovascular system

- Specific enquiries must be made about:
 - Angina
 - incidence
 - precipitating factors
 - duration
 - use of anti-anginal medications, e.g. glyceryl trinitrate (GTN) oral or sublingual)
 - Previous myocardial infarction and subsequent symptoms
 - Symptoms indicating heart failure

Cardiovascular system

- myocardial infarction are at a greater risk of perioperative reinfarction
- Elective surgery postponed until at least 6 months after the event
- Untreated or poorly controlled hypertension (diastolic consistently > 110 mmHg) may lead to exaggerated cardiovascular responses
- Both hypertension and hypotension can be precipitated which increase the risk of myocardial ischemia

Cardiovascular system

 Heart failure will be worsened by the depressant effects impairing the perfusion of vital organs

valvular heart disease
 * ? prosthetic valves may be on anticoagulants - need to be stopped or changed prior to surgery
 * Antibiotic prophylaxis

Active Cardiac Conditions

- Unstable coronary syndromes
 - Unstable or severe angina
 - Recent MI
- Decompensated HF
- Significant arrhythmias
- Severe valvar disease

Minor Cardiac Predictors

- Advanced age (>70)
- Abnormal ECG
 - LV hypertrophy
 - LBBB
 - ST-T abnormalities
 - Rhythm other than sinus
- Uncontrolled systemic hypertension

Active Cardiac Conditions

Unstable coronary syndromes (severe or unstable angina; recent MI)

Decompensated CHF

Significant Arrhythmia or Heart Block

Severe aortic or mitral valvular disease (AS < 1.0cm2; mean gradient 40mmHg; symptomatic mitral or aortic dz)

Surgical Risk Stratification

High Risk: Vascular Surgery Intermediate Risk: Intraperitoneal; Intrathoracic; Carotid; Head & Neck; Orthopedic; Prostate Low Risk: Endoscopy; Superficial Procedures; Cataract; Breast; Other Ambulatory Surgery

	Cardiovascu	lar MET Estimation	ns
METs	Exercise	Recreation	Work / Household Activities
1.5-2.0 METs	Slow walk 40-60 min mile	Watching TV Playing Cards	Desk work Light Housework Making Bed Brushing hain'teeth
2.0-3.0 METs	Walking 24-30 min mile Cycling level 5 mph	Golf with power cart Play musical instrument	Driving Car Cooking Washing Dishes Ironing Sweeping Showering
3.0-4.0 METs	Walking 20 min mile Cycling 5.5 mph	Bowling Billiards Golf with pull cart Shopping	Janitorial Work Vacuuming Kneeling Climbing stairs slowly Sexual intercourse
4.0-5.0 METs	Walking 15-17 min mile Cycling 8 mph	Dancing Gardening Golf carrying clubs	Painting House Carrying 20-40 lbs Raking Leaves Shoveling Snow
5.0-6.0 METs	Walking 13-15 min mile Cycling 10 mph	Canoeing Stream Fishing Baseball	Carpentry Shoveling heavier snow

Surgical factors in assessment of risk of significant cardiac event

Low risk <1%	Minor orthopaedic and urology • Gynaecology • Breast • Dental
Intermediate 1–5%	Major orthopaedic and urology • Abdominal • Head and neck
High risk >5%	Aortic, major vascular • Peripheral vascular • Intraperitoneal/intrathoracic



Respiratory system

Patients with pre-existing lung disease

- prone to postoperative chest infections if they are obese or undergoing upper abdominal or thoracic surgery
- chronic obstructive lung disease
 - Sputum production (volume and color)
 - Dyspnea
- Bronchial Asthma, including precipitating factor and last attack, previous hospital admission
- upper respiratory tract infection (anaesthesia and surgery should be postponed unless it is for a life-threatening condition)
- COVID SWAB for all suspected patient

Other conditions in the medical history

• GI

- Indigestion
- GER reflux
- Hurt burn
 - may indicate the possibility of a hiatus hernia
- Rheumatoid disease
 - chronically anaemic
 - severely limited movement of their joints
 - makes positioning for surgery and airway maintenance difficult.
 - Tendency for dislocation of ataInto-occiptal joint

Other conditions in the medical history

Diabetes

- Patients have an increased incidence of
 - ischaemic heart disease
 - renal dysfunction
 - autonomic and peripheral neuropathy
- intra- and postoperative complications
- Neuromuscular disorders
 - Care with muscle relaxants
 - Coexisting heart disease
 - restrictive pulmonary disease

Other conditions in the medical history

Chronic renal failure

- Anaemia
- Electrolyte abnormalities
- Altered drug excretion
- Restricts the choice of anaesthetic agents
- Liver disease
 - Infectious or obstructive liver disease
 - Altered drug metabolism
 - Altered Coagulation function

--Epilepsy

- well controlled or not , compliance to medication
- avoid anaesthetic agents potentially epileptogenic (e.g. enflurane, ketamine)
- Predict convulsions which induced by withdrawal effects of anesthesia drugs

DRUG HISTORY AND ALLERGIES

Identify all medications

- Prescribed
- self-administered
- Allergies to drugs
 - topical preparations (e.g. iodine)
 - adhesive dressings
 - foodstuffs

SOCIAL HISTORY

Smoking

- number of cigarettes
- amount of tobacco

nicotine stimulates the sympathetic nervous system

- causing tachycardia
- hypertension
- coronary artery narrowing
- Alcohol
 - induction of liver enzymes
 - tolerance

Addiction

- Difficulty with venous access
- Thrombosis of veins
- Withdrawal syndromes

Look for tattooing ????

Pregnancy

- increased risk of regurgitation and aspiration
- Elective surgery is best postponed until after delivery.

Obesity

- Cardiovascular
- Respiratory
- Sleep apnea
- Diabetics
- Fatty liver
- Technical problem
 - Airway, aspiration
 - Intravenous access
 - Positioning

Figure 27.2 Complications of obesity

Endocrine

- Diabetes mellitus
- Cushing syndrome
- Hypothyroldism
- Subfertility

Gastrointestinal

- Hiatus hemia
- Gallbladder disease
- Inguinal hernia

Carcinoma

- Breast
- Prostate
- Colorectal
- Endometrial

Musculoskeletal

- Ostcoarthritis
- Back pain

CVS disease

- Sudden death
- Cardiomyopathy
- High blood pressure
- Ischaemic heart disease
- Hyperlipidaemia
- Cerebrovascular accident
- · Peripheral vascular disease
- Deep venous thrombosis/ pulmonary embolism
- Cor pulmonale

Respiratory system

- Restrictive lung disease
- Obstructive sleep appoea
- Obesity hypoventilation syndrome
- Difficult Intubation

Genitourinary

- Menstrual problems
- Female Incontinence
- Renal calcult

Cardiovascular system

- dysrhythmias
- atrial fibrillation
- heart failure
- heart murmur
- valvular heart disease
- blood pressure is best measured at the end of the examination

Respiratory system

- cyanosis
- pattern of ventilation
- respiratory rate
- Dyspnoea
- Wheeziness
- signs of collapse
- consolidation and effusion

Nervous system

- Chronic disease of the peripheral and central nervous systems
- Evidence of motor or sensory impairment should be documented

Musculoskeletal

- Restriction of movement and deformities
- Reduced muscle mass
- Peripheral neuropathies
- Pulmonary involvement
- Particular attention to the patient's cervical spine and temporomandibular joints

Airway assessment

The airway

- Try and predict difficult intubation
- Assessment is often made in three stages
- 1. Observation of the patient's anatomy
 - Look for limitation of mouth opening, receding mandible position, number and health of teeth, size of tongue.
 - Examine the front of the neck for soft tissue swellings, deviated larynx or trachea.
 - Check the mobility of the cervical spine in both flexion and extension.
THE EXAMINATION

The airway

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Airway Evaluation



Airway Evaluation (cont.)

- Take very seriously history of prior difficulty
- Head and neck movement (extension)
 - Alignment of oral, pharyngeal, laryngeal axes
 - Cervical spine arthritis or trauma, burn, radiation, tumor, infection, scleroderma, short and thick neck

Airway Evaluation (cont..)

Jaw Movement

Receding mandible

Inability to sublux lower incisors beyond upper incisors

 Protruding Maxillary Incisors (buck teeth)





Airway Evaluation (cont...)

Laryngoscopy view: Cormack and Lehane



Investigations

Special Investigations Baseline investigations

 If no concurrent disease, investigations can be limited as:

Age	Sex	Investigations
<40	Male	Nil
<40	Female	Hb
41-60	Male	ECG, Blood sugar, creatinine
41-60	Female	Hb, ECG, Blood sugar, creatinine
>61	All	Hb, ECG, Blood sugar, creatinine

ADDITIONAL INVESTIGATIONS

- Urea and electrolytes
 - in patients taking digoxin
 - diuretics
 - diabetes, renal disease
 - vomiting
 - diarrhea
- Liver function tests
 - hepatic disease
 - high alcohol
 - metastatic disease
 - evidence of malnutrition

ADDITIONAL INVESTIGATIONS

- Blood sugar
 - Diabetes
 - peripheral arterial disease
 - taking long-term steroids
- Electrocardiogram (ECG)
 - hypertensive
 - with symptoms or signs of heart disease
- Chest X-ray
- Pulmonary function tests
- Coagulation screen
- Sickle-cell screen

Referral

 Optimization of coexisting medical (or surgical) problems may mean postponing surgery

CARDIOVASCULAR DISEASE

- Untreated or poorly controlled <u>hypertension or</u> <u>heart failure</u>.
- Symptomatic <u>ischaemic heart disease</u>, (unstable angina).
- <u>Dysrhythmias</u>: uncontrolled atrial fibrillation, paroxysmal supraventricular tachycardia, second and third degree heart block.
- <u>congenital heart disease</u> or symptomatic valvular heart disease

RESPIRATORY DISEASE

- Chronic obstructive airways disease, if dyspnoeic at rest.
- Bronchiectasis
- Asthmatics
 - unstable
 - taking oral steroids or
 - have a FEV₁ % 60% predicted

ENDOCRINE DISORDERS

- Insulin and non-insulin dependent diabetics
- ketonuria
- random blood sugar > 12mmol/L
- Hypo- or hyperthyroidism
- Cushing's
- Addison's disease
- Hypopituitarism

RENAL DISEASE

- Chronic renal failure
- Patients undergoing chronic dialysis

HAEMATOLOGICAL DISORDERS

- Bleeding diatheses
 - haemophilia
 - thrombocytopenia
- Therapeutic anticoagulation
- Haemoglobinopathies
- Polycythaemia
- Haemolytic anaemias
- Leukaemias

FACTORES INCREASED RISK OF MORTALITY

INCREASED RISK OF MORTALITY

- Inadequate preoperative preparation including resuscitation
- Lack of and inappropriate monitoring during surgery
- Poor postoperative care, including lack of intensive care beds
- Inadequate supervision of trainees

Mortality related to anaesthesia

- Approx 1:26,000 anaesthetics
- One third of deaths are preventable
- Causes in order of frequency
 - inadequate patient preparation
 - inadequate postoperative management
 - wrong choice of anaesthetic technique
 - inadequate crisis management

ANAESTHETIC ASSOCIATED DEATHS

- Increasing age: >60 years
- Sex: male > female
- Worsening physical status
- Increasing number of concurrent medical conditions, in particular:
 - myocardial infarction
 - diabetes mellitus

ANAESTHETIC ASSOCIATED DEATHS

- renal disease
- Increasing complexity of surgery:
 - intracranial
 - major vascular
 - intrathoracic
- Increasing length of surgery
- Emergency operations

ASA PS Classification	Definition	Examples, including, but not limited to:
ASAI	A normal healthy patient	Healthy, non-smoking, no or minimal alcohol use
ASA II	A patient with mild systemic disease	Mild diseases only without substantive functional limitations. Examples include (but not limited to): current smoker, social alcohol drinker, pregnancy, obesity (30 < BMI < 40), well-controlled DM/HTN, mild lung disease
ASA III	A patient with severe systemic disease	Substantive functional limitations; One or more moderate to severe diseases. Examples include (but not limited to): poorly controlled DM or HTN, COPD, morbid obesity (BMI ≥40), active hepatitis, alcohol dependence or abuse, implanted pacemaker, moderate reduction of ejection fraction, ESRD undergoing regularly scheduled dialysis, premature infant PCA < 60 weeks, history (>3 months) of MI, CVA, TIA, or CAD/stents.
ASA IV	A patient with severe systemic disease that is a constant threat to life	Examples include (but not limited to): recent (< 3 months) MI, CVA, TIA, or CAD/stents, ongoing cardiac ischemia or severe valve dysfunction, severe reduction of ejection fraction, sepsis, DIC, ARD or ESRD not undergoing regularly scheduled dialysis
ASA V	A moribund patient who is not expected to survive without the operation	Examples include (but not limited to): ruptured abdominal/thoracic aneurysm, massive trauma, intracranial bleed with mass effect, ischemic bowel in the face of significant cardiac pathology or multiple organ/system dysfunction
ASA VI	A declared brain-dead patient whose organs are being removed for donor purposes	

 *The addition of "E" denotes Emergency surgery: (An emergency is defined as existing when delay in treatment of the patient would lead to a significant increase in the threat to life or body part)

Informing the patient

Informing the patient

The choice of anaesthetic technique rests with the anaesthetist, but most patients appreciate some details of what to expect

The perioperative patient journey

- Consent
- Surgical safety checklist
- Criteria for discharge from a day surgery unit

INFORMED ANESTHESIA CONSENT

إقرار الموافقة على التخدير AD-CON-10

I. Dr	الر آبا م بام تقد بيرت يستخبر الطبية والبرمة تيع البسد الريسية عاج الأميا بامي تقد بيرت يستخبر العلمية والبرمال التنامة بقد البسد العربية المرحة المرك المناقة التعاقية موع المعريز ال بنابية البسد والتربيع الاجرامي عاج الأمي المعريز المعرين الماريز المرحوفة ا المعريز المعرين المعريز المرحوفة المعريز المعريز المحمود بن المعريز المعرين المعريز الماري والمح المحفة المعريز المحمود بن المعريز المعرين المعريز المعرين والمح المحفة المحمود بن المعريز المعلمية المعامية المحفود المحفود المحفود بن المرح المد المراحة ولد تقليد معيو الواد التقليفية التي تعمير الارمين المعدين أن معريز معالة عبر موقعة المديرة المعلمية والمثل المتنانية والتي تحفيد المحمو بن مالة عن معيولية المديرة المعلمية والمثل المتنانية التي تعمير المرمين المعمود في معالة المرمين المعامية والمن المتعامية التي معمود بن المحمو بن معالة المحفود معالية المتابسات المعلمية من معالة والما المائة المعمو في المرمين المعامية المعامية والمن المتعامية التي تعمير ما المائة المعالة المعام المنانية المعامية المحموم الم المرمين المائة ولد تقليد معمو الواد المتقومات والمثل المعالة ولمائة والمعانة والمعر أن محمود بن معالة المن معاميا ولما المعامية والم المعامة والم المعامة والمائة المعام المائة المعمو الم الموم المائة المعارسات المعامية والم المعامة والم المعانة والم المائة المعانة والمي المائة المعانة والم المعاني المائة والمعانية والمع أولم المعامية والم المعامة والم المعامية والم المعام المائة والمعام في أولم المعام والم المعامية والم المعامية والم المعامية والمائة المعام والم المعام والم المعام المع أولم المعانية والم المعام والم المعامية والم المعام والم المعام والم المعام والم المعام والم والم والم المعام والم المعام والم المعام والم المعام والم والمعانية والم المعام والم المعانية والمع أولم والم المعانية والم والمية والم والمائة والمعام والم والم والم والم والم والم والم وا			
Common Complications.	المانين اللقيل			
A Restoreration Manage and Meeting & Antipation				
General Produption Resident and Pointing Prospection				
Anesthesia • Don't Thread • Altergy / Assphylaxis	المعادر" «النهاب الملق «المساسية بالوادية			
Dental / Bolt lissue injury Position related injury	 - تعني الاستان والأنسجة الرغوة - التغرير ناخ من وضع الجسم النام 			
+ Cardiovascular				
- Respiratory	فيسلبان تشبيه			
- Ohers				
	- Day			
Regional - Hypetension / Bredycardis - Poet-Dural Puncture Headlenhe (PDPH)	التخدير =الخفاض شغط لدم/ = الصداع الناجم عن إنقاب الجالية . الخذير = الخلب			
Back pain /Local tendemens Local Anesthesia	منتخلي «كار الظهر «المسمر من اقدرات الوضعية			
Neural deficits Pallure / Inadequate	فالمجز المحبري فحدم فعالية التخدن			
High or extensive block Prolonged sensory /	«التباد بستير النثير العسبي» «ابتياء افسار السر بافركي			
motor Etockade				
	state for the other of the			
Specific	العامنات			
Complications				
Patient / Beletive:				
Tel Name				
C Patient C Legal Quardian C Relative				
Date and Time:				
Witness/Translator	الشاهدا للترجع			
Name Name	Test Test			
Signature: Signature	البرقيع البرقيع			
Date and Time Date and Time	النايح والوقت			
Anesthetist:	طيب الشدين			
Dr. Name				
Signature Date and Type				
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Consent

- Anaesthetic consent is an important aspect of operative consent.
- All patients should have received written information in advance as well as an explanation of side effects:
 - 1. Common side effects, e.g. postoperative nausea and vomiting
 - 2. Rare side effects, e.g. nerve damage after spinal or epidural
 - Anaesthesia

3. Risks specific to that patient – this can relate to a career (e.g. an opera singer and the risk of vocal cord injury) or the risk of perioperative myocardial infarction in a patient with a significant history of cardiac disease.

 Consent must be obtained before any sedating, premedication is given.

Consent requires

1.Capacity necessitates:

- Ability to understand and retain information about the treatment
- Ability to weigh up the information
- Ability to make a free choice

2.Enough relevant information

Informing the patient

- patients will ask about their immediate recovery
- Finally
 - reassure patients about postoperative pain control
 - informed of the technique
- Consent for anaesthesia

Patients at risk of gastric aspiration even after fasting



- Hiatus hernia
- Pregnancy (2nd and 3rd trimester)
- Severe trauma
- Use of opioids
- Acute abdomen (any cause)
- Raised intraabdominal pressure



Figure 6.2 Patients at risk of gastric aspiration even after fasting

NPO Guidelines for Elective* Sedation

INGESTED	TIME
Clear Liquids (water, fruit juices w/o pulp, carbonated beverages, clear tea, black coffee)	2 hours
Breast milk	4 hours
Infant formula	6 hours
Nonhuman milk (similar to solids)	6 hours
Solids (light meal; if includes fatty/fried food, consider longer faster period)	6 hours

*In emergency situations, carefully weigh the need for immediacy with the increased risk of pulmonary aspiration. Use the lightest effective sedation possible.

The 6 As of premedication

- Anxiolysis the best anxiolytic is the anesthetist who visits the patient and listens to the patient
- Amnesia
- Anti-emetic
- Antacid
- Anti-autonomic
- Analgesic

- Anxiolysis
 - benzodiazepines
 - phenothiazines
- Amnesia
 - lorazepam
 - anterograde amnesia

- Anti-emetic
 - dopamine antagonists
 - antihistamines
 - anticholinergics
 - phenothiazines
 - 5-hydroxytryptamine antagonists
 - a₂- agonists: clonidine, Dex

- Antacid
 - Patients who have received opiates
 - present as emergencies
 - If in pain
 - delayed gastric emptying
 - hiatus hernia
 - Oral sodium citrate
 - Ranitidine , Proton 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

Patient Name:	Procedure:	Date:
Notes:		
Before induction of anesthesia	Before skin incision	Before patient leaves operating room
SIGN IN	TIME OUT	SIGN OUT
Patient has confirmed: Identity • Site	Confirm all team members have introduced themselves by name and role	Nurse verbally confirms with the team:
 Procedure · Consent Site marked Not applicable Anesthesia safety check completed Pulse Oximeter on patient and functioning Does patient have a Known allergy? NO YES Difficult airway/aspiration risk? NO YES, and equipment/ assistance available 	 Surgeon, Anesthesia Professional and Nurse verbally confirm: Patient Site Procedure Anticipated critical events: Surgeon reviews: What are the critical or unexpected steps, operative duration, anticipated blood loss? Anesthesia team reviews: Are there any patient-specific concerns? Nursing team reviews: Has sterility (including indicator results) been confirmed? Are there equipment issues or any concerns? 	 The name of the procedure recorded That instrument, sponge, and needle counts are correct (or not applicable) How the specimen is labelled (including patient name) Whether there are any equipment problems to be addressed Surgeon, Anesthesia Professional and Nurse review the key concerns for recovery and management of this patient
Risk of >500ml bood loss (7ml/kg in children)? NO YES, and adequate intravenous access and fluids planned	Has antibiotic Prophylaxis been given within the last 60 minutes? YES Not applicable Is essential imaging displayed? YES Not applicable	

Postoperative stage

- At the end of the operation, the patient is either extubated in the operating theatre (and an oropharyngeal airway inserted if needed) or transferred to the recovery room with an LMA still *in situ*.
- All patients receive supplemental oxygen during transfer.
- Many patients who do not have a general anesthetia/sedation bypass the recovery room and go straight from the operating theatre

Examples include local anesthetia cases (e.g. minor surface surgery, cataract removal, some regional anesthetia cases).

Once in the recovery room,

- Handover occurs between the anesthetist and a recovery nurse. Important information passed on includes:
 - patients name and age;
 - operation details;
 - blood loss;
 - anaesthetic technique with emphasis on:
 - analgesia given;
 - regional/nerve blocks;
 - antiemetics given;
 - antibiotics;
 - the use of local anaesthetic infiltration;
 - thromboprophylaxis.



Get This... Never withhold oxygen from A any patient for whom it is indicated.