

## Obtaining consent

The patient has fundamental and ethical right to determine their wellbeing and a valid consenting process for invasive procedures including surgery.

The doctor obtaining the consent should ensure that the patient is:

- 1) **Competent** مؤهل
- 2) **Fully informed**
- 3) **Voluntarily agrees to the procedure**

**The key to good consenting is good communication:** It may be necessary to use a translator, and some trusts will not accept consent gained by using patient's relatives as translators. If you are the doctor providing treatment or undertaking an investigation, it is your responsibility to discuss it with the patient and obtain consent.

**Consent must be given freely:** patients may not be put under duress الإكراه by clinicians, employers, police, or others to undergo tests or treatment.

**Declare any potential conflicts of interest:** The amount of information should be sufficient to allow a mentally competent patient to make an informed decision.

## Informed consent

*There are five aspects that the patient must understand to give informed consent:*

- **The reason for carrying out the procedure:** The patient needs to understand the nature of their illness and its prognosis.
- **What the procedure involves:** Where and how long is the scar; what is being removed; what prosthesis will be implanted; will there be drains?
- **The risks of the procedure:** Specific to the procedure (e.g. stoma, limb dysfunction) and in general (e.g. anaesthesia, prolonged bed rest causing DVT).
- **The benefits of the procedure:** Improvement in symptoms or prognosis, or purely diagnostic.
- **Alternatives** including conservative treatment, with their advantages and disadvantages.

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## **Problems in taking a consent**

### **Emergencies**

When consent cannot be obtained you may provide emergency medical treatment provided it is limited to what is needed to preserve life.

### **Mentally incapable patients**

Assess the patient's competence to make an informed decision. If unable to decide, and provided they comply, treatment may be judged to be in their best interest.

## Children

- Over 16s are regarded as young adults, and have capacity to decide.
- Under 16s may give their own consent, if they are judged **أعتبر** to understand what is involved.
- Unlike adults, where a competent child refuses treatment, a person with parental responsibility or a court may authorize treatment if deemed **أعتبر** in the child's best interests **مصلحة**.
- If the parents refuse treatment deemed in the child's best interests, you are not bound by this and may seek a ruling from the court.
- Emergency treatment may be instigated without consent in a similar manner to that in adults.

## **Pregnancy**

The right to autonomy **الحكم** applies equally to pregnant women. It includes the right to refuse treatment that is intended **تقصد** to benefit the unborn child.

**In assessing a patient's fitness for surgery, it is worth going through the following:**

- 1) History of presenting complaint.**
- 2) Past medical history.**
- 3) Past surgical history.**
- 4) Past anaesthetic history.**
- 5) Social habits.**
- 6) Drugs.**
- 7) Allergies.**

### History of presenting complaint

A long history of the condition that is scheduled for elective surgical treatment may afford **يمنح** time in which the patient's comorbid conditions can be improved before surgery.

### Past medical history

- 1) **Diabetes** whether controlled by insulin, oral hypoglycemic drugs & diet. The blood glucose level should be less than **13mmol/l** at the commencement of an elective procedure, and maintained between **8\_11mmol/l** during the perioperative phase, monitoring blood sugar and potassium levels hourly during the operation.
- 2) **Respiratory disease.** What is the nature of the chest problem? (as asthma or COPD etc.)

### Preoperative preparations

& is the breathing as good as it can be? Or is the patient in the middle of an exacerbation?

- 3) **Cardiac disease.** .Has the patient had a recent MI or does he has stable or unstable angina.
- 4) **Rheumatoid arthritis** often associated with an unstable cervical spine, so a cervical spine X-ray is indicated. Also such patients usually receive nonsteroidal anti-inflammatory drugs and steroids.

## Preoperative preparations

5)

6) **Rheumatic fever** or valve disease or the presence of prosthesis – necessitating prophylactic antibiotics.

7) **Sickle cell disease.** A hemoglobin electrophoresis should be checked in areas where

Sickle cell disease is more prevalent or if the history is suggestive.

8) **Chronic renal failure:** In chronic renal failure (CRF) there is hyperkalaemia & the fluid balance is difficult to achieve. Uremia impairs platelets function but the effect can be reversed using desompressin. Clearance of narcotics is poor and postoperative narcosis should be reversed by the opiate antagonist naloxone. Patients with CRF may require dialysis prior to surgery.

9) **Hypertension** and whether it is controlled or not and the type of the treatment used.

10) **Bleeding disorder or anticoagulation** Patients with haemophilia A or B should be given clotting factors replacement. Patients on warfarine should be converted to heparin preoperatively. Where patients are anticoagulated on account of previous thromboembolic disease, additional prophylaxis should be given, including measures such as



**Preoperative preparations**

compression stockings, intermittent compression boots while on the operating table and early mobilization where possible.

## Preoperative preparations

**11)** Any history of **haematological diseases** as thalassaemia ,autoimmune haemolytic anaemia ,etc.

**12) Adrenal problems** as Cushing disease or Addison's disease.

**13)** Previous history of **jaundice**, history of viral hepatitis.

Patients with obstructive jaundice often have prolonged prothrombin time and require vitamin K & or fresh frozen plasma prior to surgery to correct the abnormality. They are also more prone to infection & poor wound healing.

Intraoperatively it is important to maintain a diuretics & fluid replacement to prevent acute renal failure & hepatorenal syndrome. In the presence of liver impairment, metabolism of some commonly used drugs may be reduced.

## Past surgical history

- 1) ***Nature of previous operations.*** What has been done before? What problems were encountered at that time?
- 2) ***Complications of previous operation*** e.g. DVT, Methicillin resistant staphylococcus aureus or wound dehiscence.

**Past anesthetic history:**

- 1) ***Difficult intubation*** (The patient may be told about this).
- 2) ***Aspiration during anaesthesia*** may suggest delayed gastric emptying (e.g. due to DM) suggesting that a prolonged, fast and air way protection (cricoid pressure) are indicated prior to induction.
- 3) ***Scoline apnoea***. Deficiency of pseudocholinesterase resulting in sustained paralysis following short acting muscle relaxing as suxamethonium. It is usually inherited as an autosomal dominant &so there may be family history.
- 4) ***Malignant hyperpyrexia***. Rapid excessive rise in temperature with muscular rigidity often with rhabdomyolysis following induction of

### **Preoperative preparations**

anaesthesia and carries a high mortality. It is inherited as autosomal dominant.

### **Social habits**

- 1) **Smoking:** Ideally patients should stop smoking for the last 9 weeks before any general anesthesia to improve their respiratory function & reduce their thrombogenic potential.
- 2) **Alcohol:** History of dependency should be sought **يبحث عنه** & management of the preoperative period using chlordiazepoxide to avoid acute alcohol withdrawal syndrome.

**Preoperative preparations**

3) ***Substance abuse***: In particular I.V. drug usage, should be sought and appropriate precautions taken. Such patients are a high risk for transmission of hepatitis B, hepatitis C & HIV.

## Drugs

Most drugs should be continued on admission. In particular drugs acting on the cardiovascular system should usually continued and given on the day of surgery.

### **The following drugs are of surgical concern**

- 1) **Warfarin:** Where possible, should be stopped before surgery. If continued anticoagulation is required, then convert to heparin.
- 2) **Aspirin** causes increased bleeding time & should also be stopped where ever possible at least 10 days before surgery.
- 3) **Steroids:** Patients who are steroid dependent will need extra glucocorticoids in the form of intravenous hydrocortisone injections to help them overcome the perioperative stress.
- 4) **Immunosuppressive drugs:** The patients on such drugs are more prone for post operative infection.

## Preoperative preparations

- 5) **Diuretics**. Both thiazide & loop diuretics cause hypokalaemia.
- 6) **Monoamine oxidase inhibitor**. They have important side effects e.g. hypotension when combined with general anaesthesia.
- 7) **Oestrogen-containing contraceptive pills (EOCP)** increase the risk of thromboembolic disease in women taking them prior to surgery. Progesterone-only contraceptives appear to pose **يكلف** little or no additional risk and may be continued during surgery.

## Allergies

Ask about allergy to \* Anaesthetics \* Antimicrobial drug \* Skin preparation substances e.g. iodine \* Wound dressings e.g. elastoplast.



## Patient assessment for anesthesia

Anesthetists commonly measure the severity of the patient comorbidity, and assess the risk of anesthesia according to the **American Society**

### **Anesthesia (ASA) scale:**

- ❖ **ASA I** Healthy patient. The pathological process requiring surgery is localized, e.g. a fit young patient with an inguinal hernia.
- ❖ **ASA II** Mild to moderate systemic disease which may/may not be related to the pathological process requiring surgery, e.g. patient on medication for hypertension.
- ❖ **ASA III** Severe systemic disease limiting activity, e.g. a patient with angina on walking 200 yards.
- ❖ **ASA IV** Severe systemic disease posing a constant threat to life, e.g. a patient with angina at rest.
- ❖ **ASA V** A moribund **يحتضر** patient unlikely to survive 24 hours with or without surgery, e.g. an elderly patient with septic shock from perforated diverticular disease.

## Preoperative preparations

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### Routine preoperative testing

<b>Test</b>	<b>Comment (or indications)</b>
<b>Complete blood cell count</b>	Possibility of substantial blood loss, patients with chronic illnesses or symptoms of anemia
<b>Urinalysis</b>	Urologic symptoms, instrumentation of the urinary tract, possibility of surgical placement of prosthetic materials
<b>Serum electrolytes, creatinine, and blood urea nitrogen</b>	Age >50, chronic diarrhea, renal disease, liver disease, diabetes, CHF or other cardiac disease, hypertension (HTN), major procedure, diuretic use, digoxin use, ace inhibitor use
<b>Coagulation studies</b>	Family history of bleeding disorder, patient history of abnormal bleeding, anticoagulant usage, liver

## Preoperative preparations

	disease, malnutrition, chronic antibiotics
<b>Biochemical profiles (including liver enzymes)</b>	History of liver or biliary disease. (Albumin level is a strong predictor of perioperative morbidity and mortality, should be considered for major procedures.)
<b>Pregnancy testing</b>	Any woman of childbearing age (except posthysterectomy patients)
<b>Chest x-ray</b>	Acute cardiac or pulmonary symptoms
<b>Electrocardiogram</b>	Men >40, women >50, history of cardiovascular disease or arrhythmia, diabetes, HTN
<b>Type of blood/cross match and screen</b>	None if very low risk of blood loss. Type and screen if risk of substantial blood loss is moderate to high.