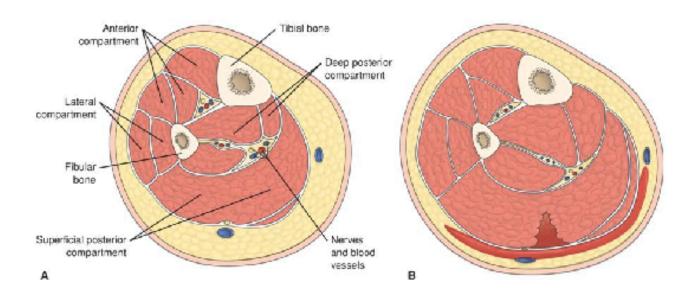
ACUTE COMPARTMENT SYNDROME



PATHOGENESIS

Compartment syndrome develops when swelling or bleeding occurs within a compartment. Common sites of acute compartment syndrome are the **legs and forearm**. Because the **fascia does not stretch**, this can cause **increased pressure** on the capillaries, nerves and muscles in the compartment. This decreases arterial blood flow which leads to necrosis. Never elevate the limb above heart level in these cases.

CLINICAL MANIFESTATION

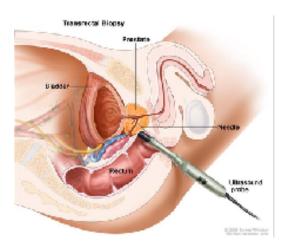
- 1. **Pain:** can be aggravated by passive stretching
- 2. **Parathesia:** Pin and needles -> limb falling asleep
- 3. **Pallor:** Not pink —> Dusky, pain, > 2 second capillary refill
- 4. **Paralysis:** Not be able to move the extremities
- 5. Poikilothermia: Temperature difference in the affected and non-affected limb
- 6. **Pulse:** No pulse the latest symptom.

DIAGNOSIS

- Full Blood Count: ↑ Creatinine Kinase
- **Rhabdomyolysis:** 1 Creatinine Kinase . Myoglobin is also 1 in urine
- **Urinalysis:** Will show red blood cells —> Myoglobin
- Manometer : Measures pressure

BIOSPY:

- A small probe containing an ultrasound generator and sampling needles known as <u>Trans Rectal</u> <u>Ultra Sound (TRUS)</u> is inserted into the anus.
- The ultrasound generates an image of the prostate on a computer screen and guides the doctor to insert the selected areas of the prostate.
- A small tissue sample taken with a spring loaded syringe usually by a urologist.



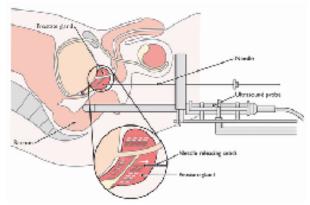
TREATMENT

Radiotherapy

- Treatment that uses beams of intense energy to destroy cancerous cells.
- Short pulses of tightly focused beams of x-rays are delivered from outside the body into he prostate for a few minutes each day.
- Radiation therapy damages cells by destroying the genetic material that controls how cells grow and divide.
- Both healthy and cancerous cells are damaged by radiation therapy.

Brachytherapy

- Procedure performed under anaesthetic where radioactive seeds are placed within the prostate.
- There is a lower incidence of impotence, urinary incontinence and bowel dysfunction and sexual dysfunction as the procedure is minimally invasive.

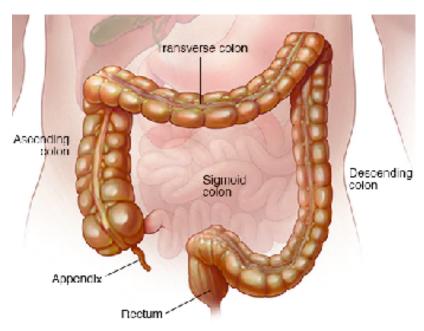


 Recover is faster in comparison to conventional surgery. Patients are often able to return to their usual activities with a few days.

ULCERATIVE COLITIS

PATHOGENESIS

- Refers to inflammation specifically to the colon or the large intestine
- Unknown cause
- Ulcers along the inner-surface of lumen of the large intestine (sigmoid colon+rectum)
- Ulcers are spots in the mucosa where the tissue has eroded away and left behind open sores or breaks
- Autoimmune disease; may be caused by smoking, stress or diet, antigens



6 MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESCARCIL ALL RIGITS RESERVED

CLINICAL MANIFESTATION

- Frequent diarrhoea (10 20 stools)
- Malnutrition
- † Pulse Rate
- Abdominal tenderness & Distension
- Bloody Stools
- Lower Left Quadrant Cramping
- Weight Loss, Anaemia, Fever

SYSTEMIC MANIFESTATION

- Polyarthritis (many joint pains)
- Uveitis (part of the eye)
- Blood clots
- Skin & Mucus membrane lesion
- Risk of gallstones, kidney stones, urethral obstruction

DIETARY

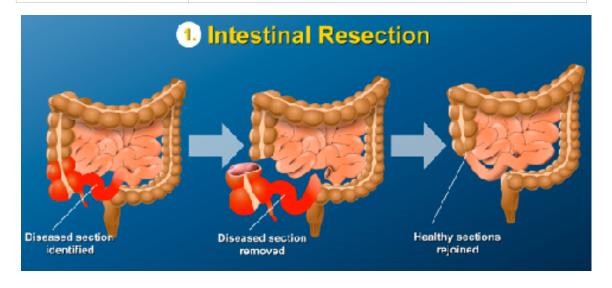
- Avoid fatty, greasy, spicy or fried foods
- Limit dairy productions (Crohn's hard to digest lactose)
- · Avoid caffeine
- Enteral (food through the nose); Ensure
- Total Parenteral Nutrition (TPN); through the vein hypertonic glucose

DIAGNOSIS

ENDOSCOPY	COLONSCOPY
Performed under local anaestheic or IV sedation	Performed under IV sedation
A flexible fiberoptic endocscope	A flexible fiberoptic scope
Direct visual of oesophagus, stomach, duodenum	Opportunities for biopsies and removal of polyps
Endoscope Duodernim Stomaeh	

SURGICAL

RESECTION Removes an affect portion of the bowel.



Health Variations 1



LEARNING OBJECTIVES

Preoperative nursing principles

- The experience of pain and pain management
- Maintaining fluid balance

PAIN

NOCICEPTIVE PAIN

- The most common type of pain
- Nociceptors are afferent nerve fibre endings in all body tissue except the brain that react to pain (noxious stimuli) and endogenous chemical substances

NEUROPATHIC PAIN

- Caused by injury or disease of the peripheral or central nervous system
- There is a central or peripheral malfunction in the pain signalling pathway
 - Complex Regional Pain Syndrome (CRPS): neuropathic pain that is caused by nerve damage from major or minor trauma
 - <u>Neuralgias</u>: painful conditions result from peripheral nerve damage caused by infections or diseases

PSYCHOGENIC PAIN

· report of pain, no apparent underlining pathology

ACUTE PAIN

- sudden onset, lasts less than 3 months
- physiologic pain (serves a protective function)
- often result from inflammation, surgery, tissue trauma
- 3 main types: somatic pain, visceral pain, referred pain

CHRONIC PAIN

- persistent, on going pain lasts more than 3 months
- pathologic
- may not have an identifiable cause; arises from an acute situation

BREAKTHROUGH PAIN

- · occurs between doses of analgesia
- analgesia: the inability to feel pain