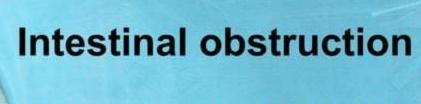


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 Partial or complete blockage of the lumen of the small or large intestine causing an interruption in the normal flow of intestinal contents along the intestinal tract

 The block may be complete or incomplete, may be mechanical or paralytic, and may or may not compromise the vascular supply Mechanical obstruction: An intraluminal obstruction or a mural obstruction from pressure on the intestinal walls occurs.

 (e.g.: intussusception, polypoid tumors and neoplasms, stenosis, strictures, adhesions, hernias, absc esses)

Functional obstruction: The intestinal musculature cannot propel the contents along the bowel.

- (e.g.: amyloidosis, muscular dystrophy, endocrine disorders such as diabetes mellitus, or neurologic disorders such as Parkinson's disease) The blockage also can be temporary and the result of the manipulation of the bowel during surgery.
- 90% small bowel obstruction, ileum
- 10% large bowel obstruction, sigmoid colon



Modifiable

- GI tract, abdominal surgery
- Hernia
- Inflammatory dse (Crohn's, diverticulitis, ulcerative colitis)
- Cancer
- Foreign bodies (fruit pits, gallstones, worms)
- · Chronic, severe constipation
- · SCI, vertebral fractures
- · Thrombosis, embolism

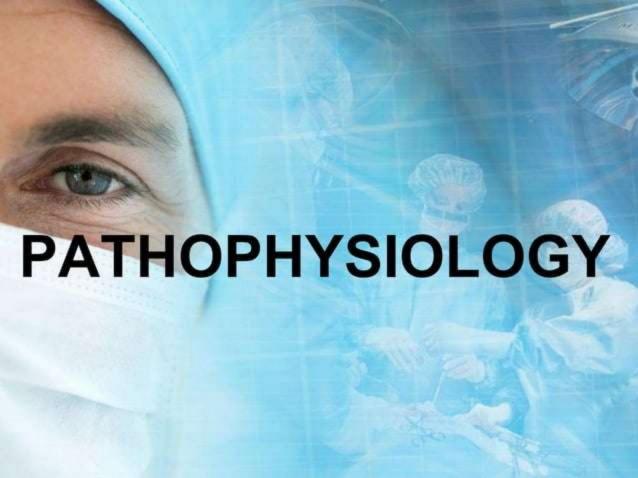


Non-modifiable

 Age: young – congenital bowel deformities (atresia, imperforate anus)

Old age

Family history of colorectal cancer



Adhesions- produce kinking of an intestinal loop

Intussusception- intestinal lumen becomes narrowed

Volvulus- intestinal lumen becomes obstructed; gas and fluid accumulate in the trapped bowel

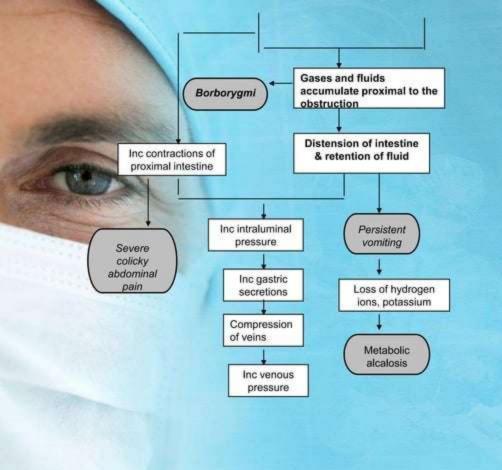
Hernia- intestinal flow may be completely obstructed; blood flow to the area may be obstructed

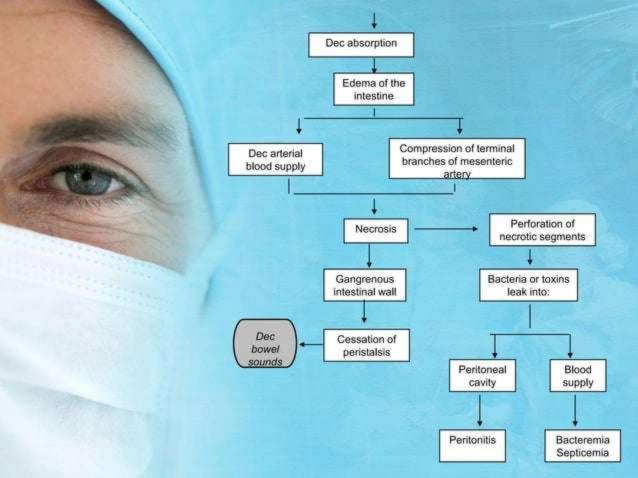
Tumor- intestinal lumen becomes partially or completely obstructed

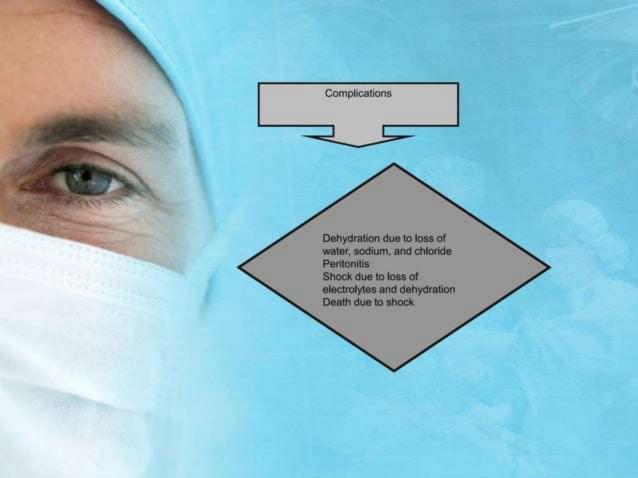
> Mechanical Obstruction

SCI, vertebral fractures Abdominal surgery Peritonitis Wound dehiscence GI tract surgery Thrombosis, embolism

> Functional Adynamic Neurogenic Paralytic Ileus











Mechanical Obstruction of the Small Intestine

Subjective Findings:

Complain of colicky pain, nausea, vomiting, and constipation

If obstruction is complete, may report vomiting of fecal contents.

Vomitus:

- stomach contents
- bile-stained contents of the duodenum and jejunum
- · darker, fecal-like contents of ileum

Objective Findings: Physical Assessment

Inspection - distended abdomen

Auscultation - bowel sounds, borborygmi, and rushes (occasionally loud enough to be heard without a stethoscope)

Palpation - abdominal tenderness. Rebound tenderness may be noted in patients with obstruction that results from strangulation with ischemia

Mechanical Obstruction of the Large Intestine

Subjective Findings:

History of constipation with a more gradual onset of signs and symptoms than in small-bowel obstruction

Several days after constipation begins, may report the sudden onset of colicky abdominal pain, producing spasms that last less than 1 minute and recur every few minutes

History reveal constant hypogastric pain, nausea and, in the later stages, vomiting

Objective Findings: Physical Assessment

Vomitus - orange-brown and foul smelling, characteristic of large-bowel obstruction

Inspection - abdomen may appear dramatically distended, with visible loops of large bowel

Auscultation - loud, high-pitched borborygmi

Partial obstruction usually causes similar signs and symptoms, in a milder form

Leakage of liquid stools around the partial obstruction is common

Nonmechanical Obstruction

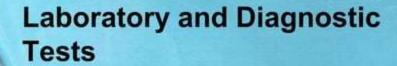
Subjective Findings:

- Describes diffuse abdominal discomfort instead of colicky pain
- Reports frequent vomiting, which may consist of gastric and bile contents but, rarely, fecal contents
- Complain of constipation and hiccups
- If obstruction results from vascular insufficiency or infarction, the patient may complain of severe abdominal pain.



Objective Findings: Physical Assessment

- Inspection abdomen is distended
- Auscultation discloses decreased bowel sounds early in the disease; this sign disappears as the disorder progresses



- Fecal material aspiration from NG tube
- Abdominal X-ray, CT scan, MRI
 - May show presence and location of small or large intestinal distention, gas or fluid
 - "Bird beak" lesion in colonic volvulus
 - Foreign body visualization
- Contrast studies
 - Barium enema may diagnose colon obstruction or intussusception.
 - Ileus may be identified by oral barium



Laboratory tests

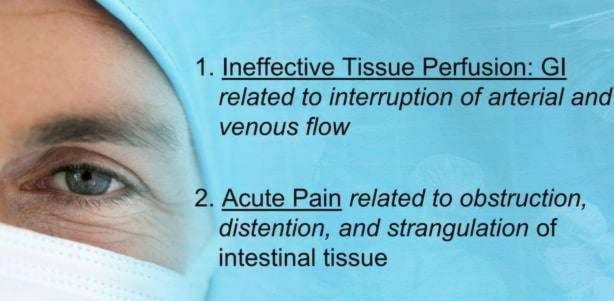
 May show decreased sodium, potassium, and chloride levels due to vomiting

 Elevated WBC counts due to inflammation; marked increase with necrosis, strangulation, or peritonitis

 Serum amylase may be elevated from irritation of the pancreas by the bowel loop

 Flexible sigmoidoscopy or colonoscopy may identify the source of the obstruction such as tumor or stricture





 Constipation related to presence of obstruction and changes in peristalsis

- 4. Risk for Deficient Fluid Volume related to impaired fluid intake, vomiting, and diarrhea from intestinal obstruction
- 5. Risk for Injury related to complications and severity of illness
- 6. Fear related to life-threatening symptoms of intestinal obstruction



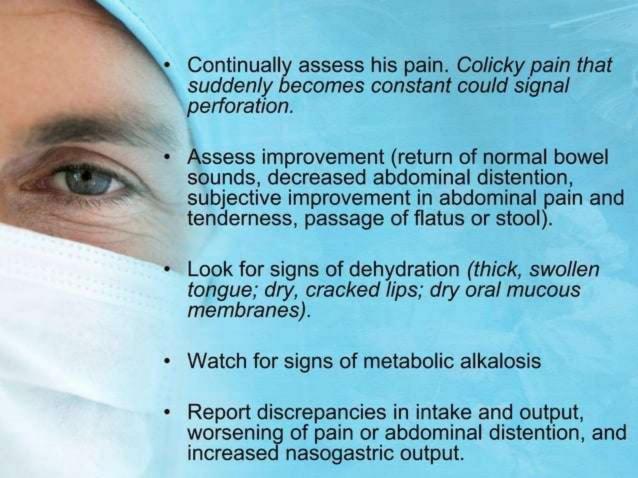


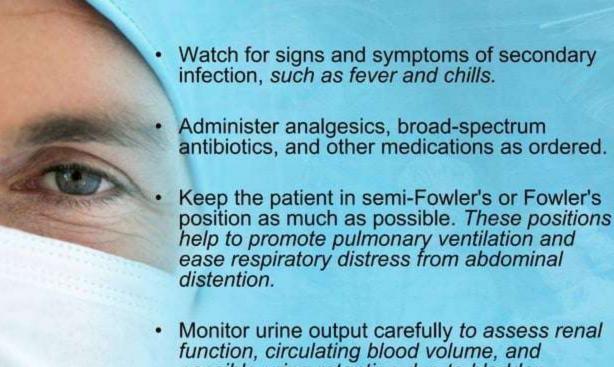
Nursing Management

- Primary Prevention
- Encourage well balanced and high-fiber diet.
- Encourage regular exercise.
- Encourage elderly for regular check-up.



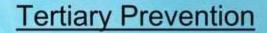
- Insert an NG tube to decompress the bowel as ordered.
- Maintain the function of the nasogastric tube
- Assess and measure the nasogastric output
- Maintain fluid and electrolyte balance by monitoring electrolyte, blood urea nitrogen, and creatinine levels.
- Begin and maintain I.V. therapy as ordered.
- Monitor nutritional status



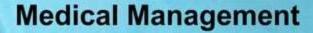


- Administer analgesics, broad-spectrum antibiotics, and other medications as ordered.

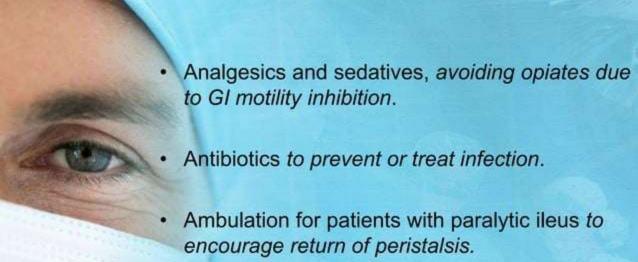
- Monitor urine output carefully to assess renal
- function, circulating blood volume, and possible urine retention due to bladder compression by the distended intestine.
- If the patient's condition does not improve, prepare pt for surgery.



- After surgery, provide all necessary postoperative care.
 Care for the surgical site, maintain fluid and electrolyte balance, relieve pain and discomfort, maintain respiratory status, and monitor intake and output.
- Explain the rationale for NG suction, NPO status, and I.V. fluids initially.
- Advise patient to progress diet slowly as tolerated once home.
- Advise plenty of rest and slow progression of activity as directed by surgeon or other health care provider.
- · Teach wound care if indicated.
- Encourage patient to follow-up as directed and to call surgeon or health care provider if increasing abdominal pain, vomiting, or fever occur prior to follow-up.



- Correction of fluid and electrolyte imbalances with normal saline or Ringer's solution with potassium as required.
- NG suction to decompress bowel.
- Treatment of shock and peritonitis.



ileus, or infection.

TPN may be necessary to correct protein

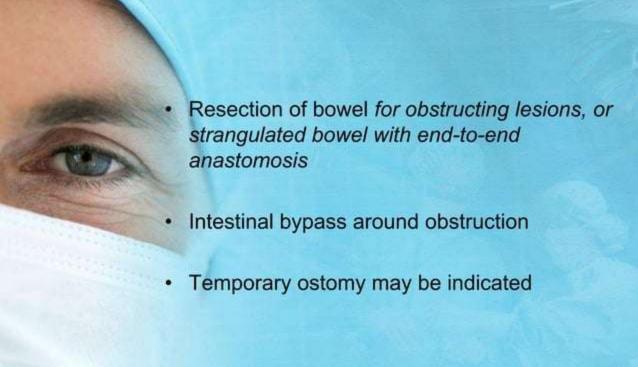
deficiency from chronic obstruction, paralytic

Surgical Management

Consists of relieving obstruction.

 Closed bowel procedures: lysis of adhesions, reduction of volvulus, intussusception, or incarcerated hernia

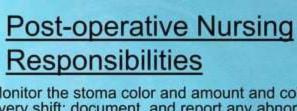
 Enterotomy for removal of foreign bodies or bezoars



CARE OF THE PATIENT WITH AN OSTOMY

Pre-operative Nursing Responsibilities

 Prepare patient by explaining the surgical procedure, stoma characteristics, and ostomy management with a pouching system.



- Monitor the stoma color and amount and color of stomal output every shift; document, and report any abnormalities.
- Periodically change a properly fitting pouching system over the ostomy to avoid leakage and protect the peristomal skin. Use this time as an opportunity for teaching.
- Assess peristomal skin with each pouching system change, document findings, and treat any abnormalities (skin breakdown due to leakage, allergy, or infection) as indicated.
- Teach the patient and/or caregiver self-care skills of routine pouch emptying, cleansing skin and stoma, and changing of the pouching system until independence is achieved.
- Instruct the patient and family in lifestyle adjustments regarding gas and odor control; procurement of ostomy supplies; and bathing, clothing, and travel tips.
- Encourage patient to verbalize feelings regarding the ostomy, body image changes, and sexual issues.

