**BOWEL AND HERNIAS**

In this lesson, the participant will be provided with some imaging features corresponding to the clinical concerns of  Bowel obstruction, Inflammatory bowel, and Post Op Ileus.  There will be representative case examples that include:

1. Large bowel obstruction from Volvulus and Malignancy
2. Ulcerative Colitis vs Crohn's Colitis and other inflammatory bowel conditions
3. Small bowel obstructions of various etiologies including adhesions and hernia

The lesson will conclude with body wall abnormalities including edema, post-op hematoma, and various ventral wall and inguinal hernias

**Teaching Points:**

Learn the difference between Bowel Obstruction vs Ileus; Ogilvie Syndrome, Sigmoid volvulus, Cecal Volvulus.

Learn radiographic appearance of bowel including Infectious, Inflammatory and Ischemic and its findings in specific disease patterns such as Crohn’s Colitis, Ulcerative Colitis, Typhlitis and Pseudomembranous colitis and Ischemic Colitis:

Brief overview of hernia types including: Inguinal, ventral wall and internal hernias.

Brief overview evaluating the soft tissue including fluid collections and body wall edema

**Videos and Reading Material:**

**Section 1: Inflammatory Bowel:**

Crohn’s vs Ulcerative Colitis Overview:   
<https://www.youtube.com/watch?v=iefghc2g91M>   
<https://www.youtube.com/watch?v=7nuWeubJczY>

Large bowel Inflammatory conditions (colitis): <https://www.youtube.com/watch?v=QAvlrGJOJuQ>

Small bowel inflammatory conditions on CT: <https://www.youtube.com/watch?v=iMdvwUnBNZ0>

Small Bowel Inflammation: <https://www.youtube.com/watch?v=hjgaPVD2vdo&list=PLUdREWXCms4cbDs4Ah7wwk_TWvBjzei6w>

Crohn’s <https://radiopaedia.org/articles/crohn-disease-1?lang=us>

Ulcerative colitis: https://radiopaedia.org/articles/ulcerative-colitis?lang=us

**Section 2: Hernias:**

Review the different types of hernias listed below and see if you can identify the hernia types listed in the interactive teaching files. Note: A hernia is NOT an emergency if hernia is reducible. If hernia is not reducible it is considered incarcerated. A hernia is strangulation when blood supply cut off. Venous stops then artery and leads to necrosis and perforation.

Ventral hernia

Umbilical and Paraumbilical hernia   
Epigastric hernia  
Incisional Hernia   
Spigelian Hernia  
Lumbar Hernia   
Parastomal hernia:  
Traumatic hernia:  
Sportsman Hernia:  
Amyand Hernia: Richters Hernia:   
Femoral hernia  
Direct inguinal hernia  
Indirect inguinal hernia

Video of femoral and inguinal hernias: <https://www.bing.com/videos/search?q=bowel+hernia+ct+scan&ru=%2fvideos%2fsearch%3fq%3dbowel%2520hernia%2520ct%2520scan%26qs%3dn%26form%3dQBVR%26sp%3d-1%26pq%3dbowel%2520hernia%2520ct%2520scan%26sc%3d0-20%26sk%3d%26cvid%3d3C529F198E96493A910FD98B8F70AA13&view=detail&mid=0498275F97664AC31D850498275F97664AC31D85&&FORM=VDRVRV>

CT scan Inguinal canal hernia examples video <https://www.bing.com/videos/search?q=bowel+hernia+ct+scan&&view=detail&mid=F0D7B7EBAFACA9A23629F0D7B7EBAFACA9A23629&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dbowel%2520hernia%2520ct%2520scan%26qs%3Dn%26form%3DQBVR%26sp%3D-1%26pq%3Dbowel%2520hernia%2520ct%2520scan%26sc%3D0-20%26sk%3D%26cvid%3D3C529F198E96493A910FD98B8F70AA13>

**Section 3: Bowel Obstruction:**

CT Imaging: SBO: <https://www.youtube.com/watch?v=nMLRpJDXR-4&t=2s>

CT and Plain Film Small Bowel Obstruction and Ileus: <https://www.youtube.com/watch?v=jYYp5v0ndEY&t=22s>  
CT and Plain Film Large Bowel Obstruction and Ogilvie Syndrome: <https://www.youtube.com/watch?v=wmeZXlVObTw>

Closed Loop Obstruction: <https://radiologyassistant.nl/abdomen/bowel/closed-loop-obstruction-with-video>

**Volvulus**

**Cecal Volvulus:** [**https://www.youtube.com/watch?v=5aH3fTltJ1g**](https://www.youtube.com/watch?v=5aH3fTltJ1g)

**Sigmoid Volvulus:** [**https://youtu.be/MYClJlnCZYA**](https://youtu.be/MYClJlnCZYA)

**Gastric Volvulus:** [**https://www.youtube.com/watch?v=Z2ZbRmICyWo**](https://www.youtube.com/watch?v=Z2ZbRmICyWo)

**Section 4: Soft Tissue/Body Wall**