

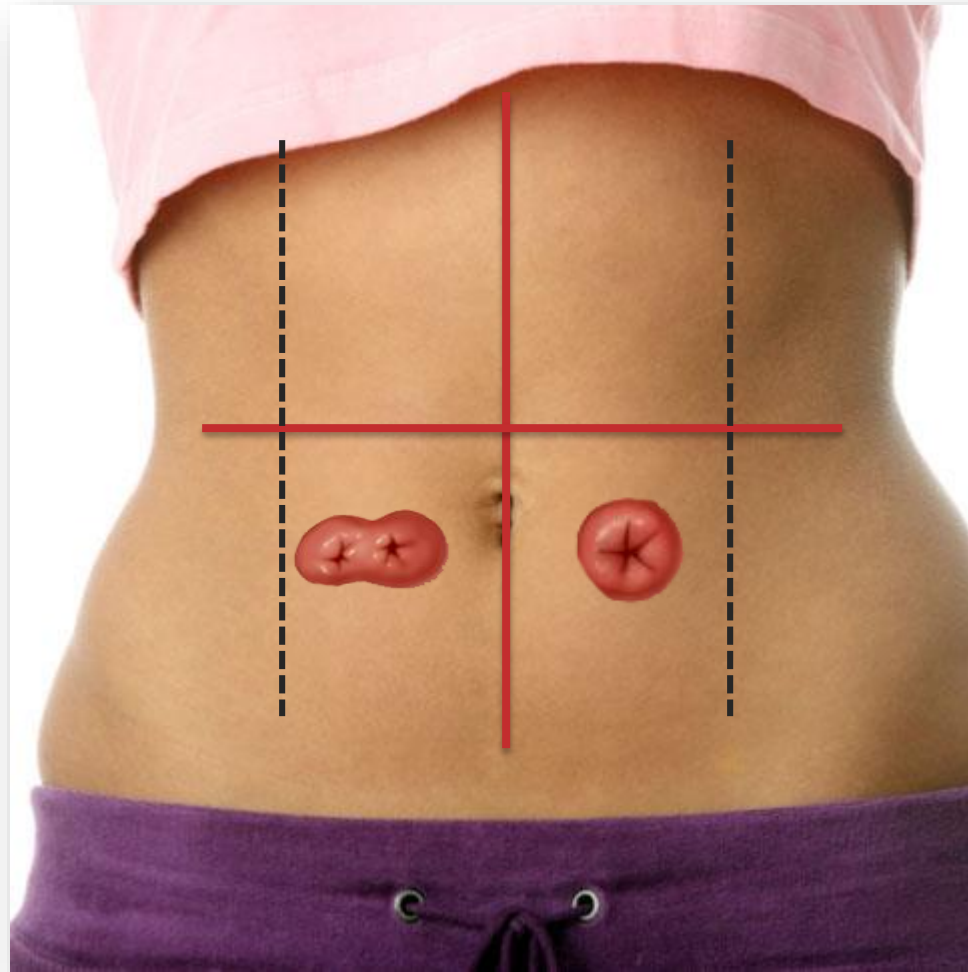
Ostomy Care: Case Study Review

Lyric Corbett Smith RN, BSN, WOCN, CFNC

Objectives

- Brief Historical perspective
- Review of procedures for fecal diversions
- Basic pre-and post operative care
- Case Studies of Complications
 - Stomal necrosis
 - Stomal retraction
 - Allergic Dermatitis
 - Candidiasis
 - Irritant Dermatitis
 - Peristomal hernia

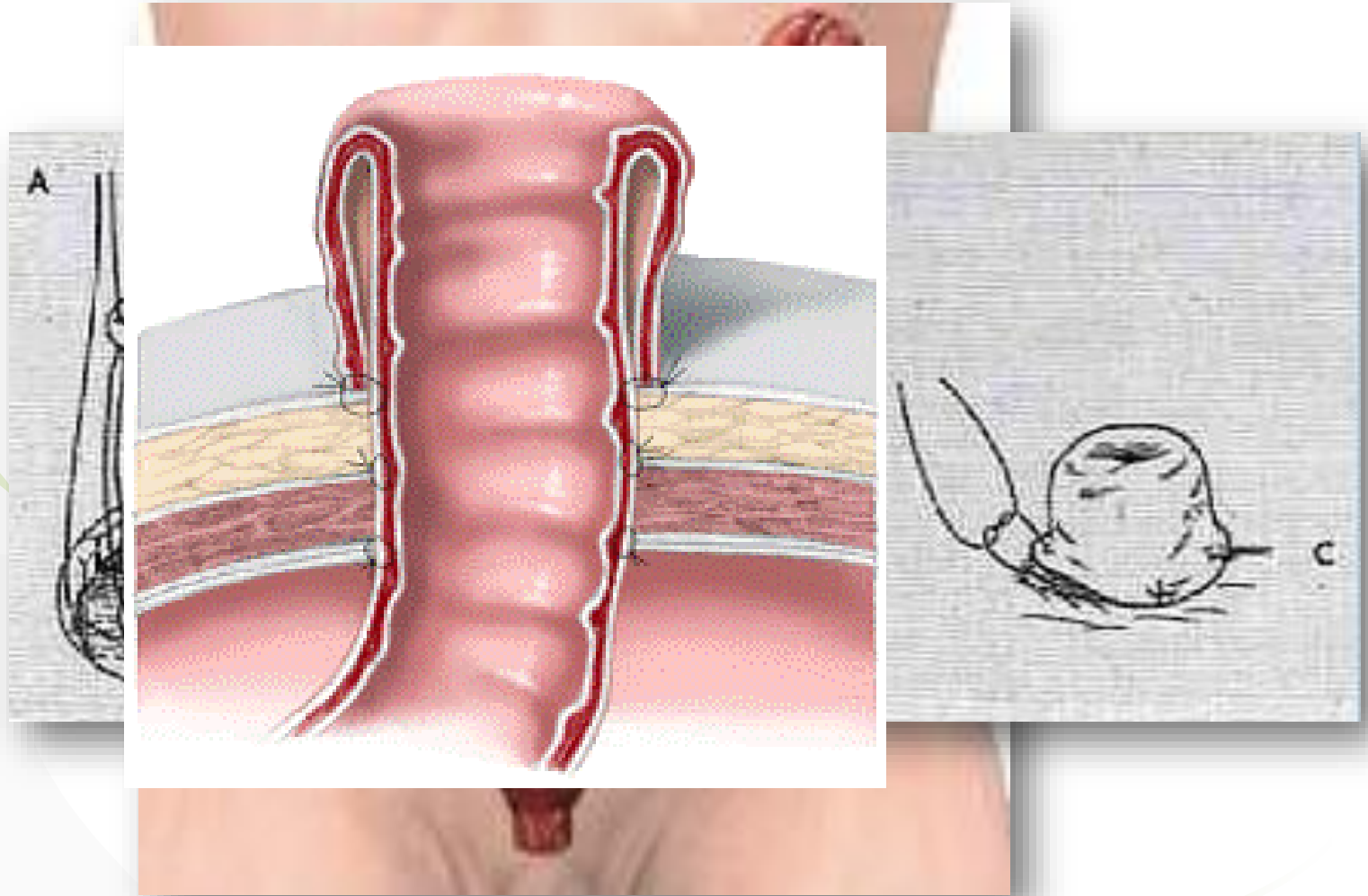
Anatomical Position



Challenging Anatomy

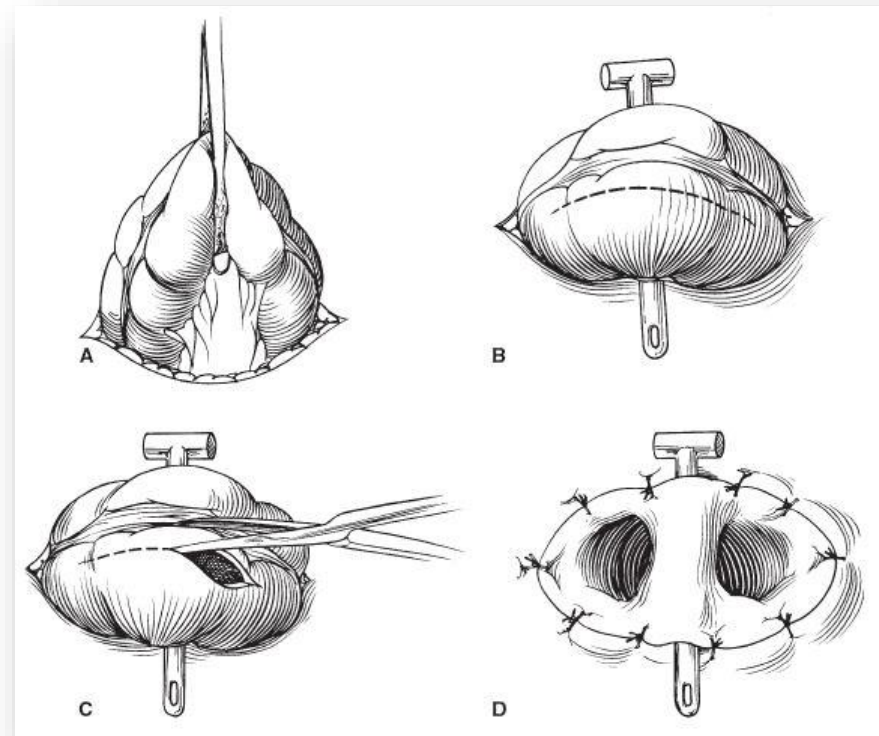


Stoma Construction – End Ostomy



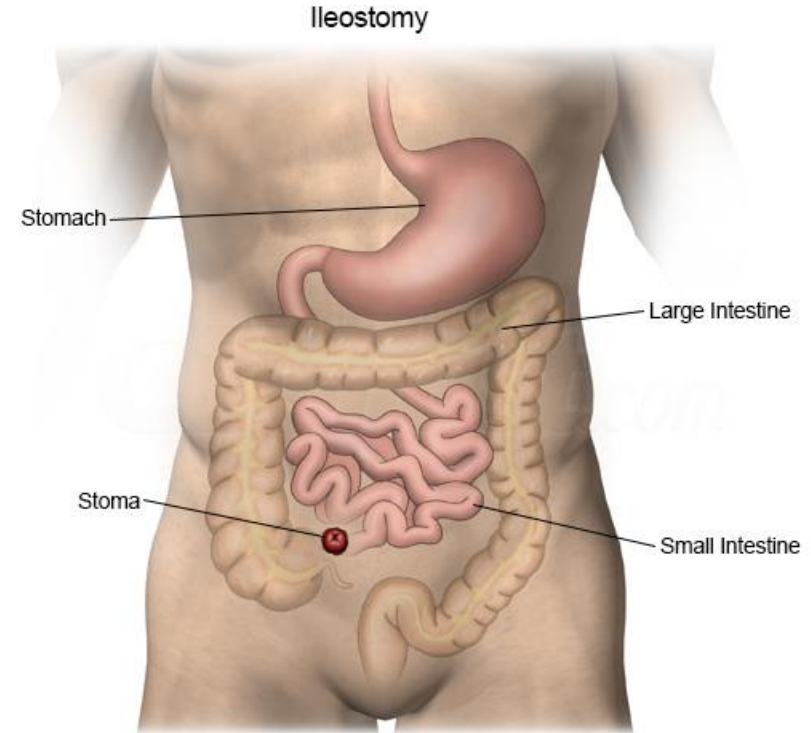
Stoma Construction – Loop Ostomy

- **Loop Ostomy**
 - Proximal/ Distal
 - Bridge Device
 - 2 openings
 - Generally temporary



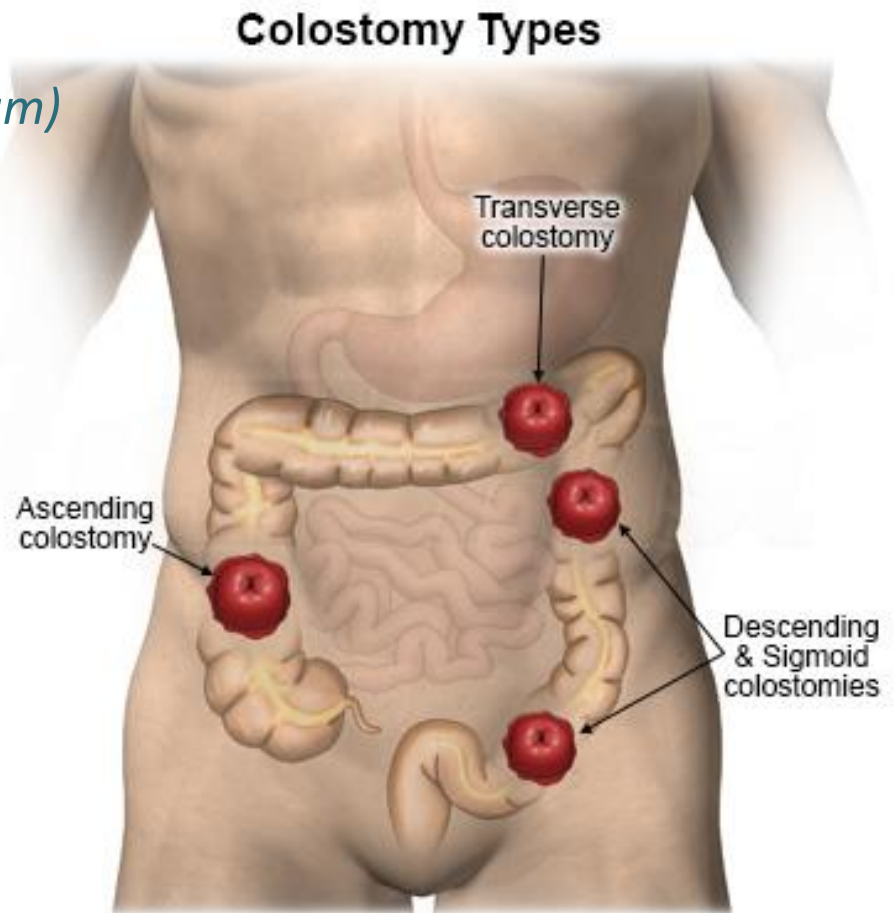
Ileostomy

- **Small Intestine** (*duodenum, jejunum, ileum*)
 - Digestion
 - Absorption
- **Ileostomy**
 - Soft mushy stool
 - Dehydration
 - B12 absorption
- **Pouch**
 - Worn at all times
 - Constant peristalsis
 - Drainable
- **Why?**
 - Inflammatory bowel
 - Protection of distal anastomosis

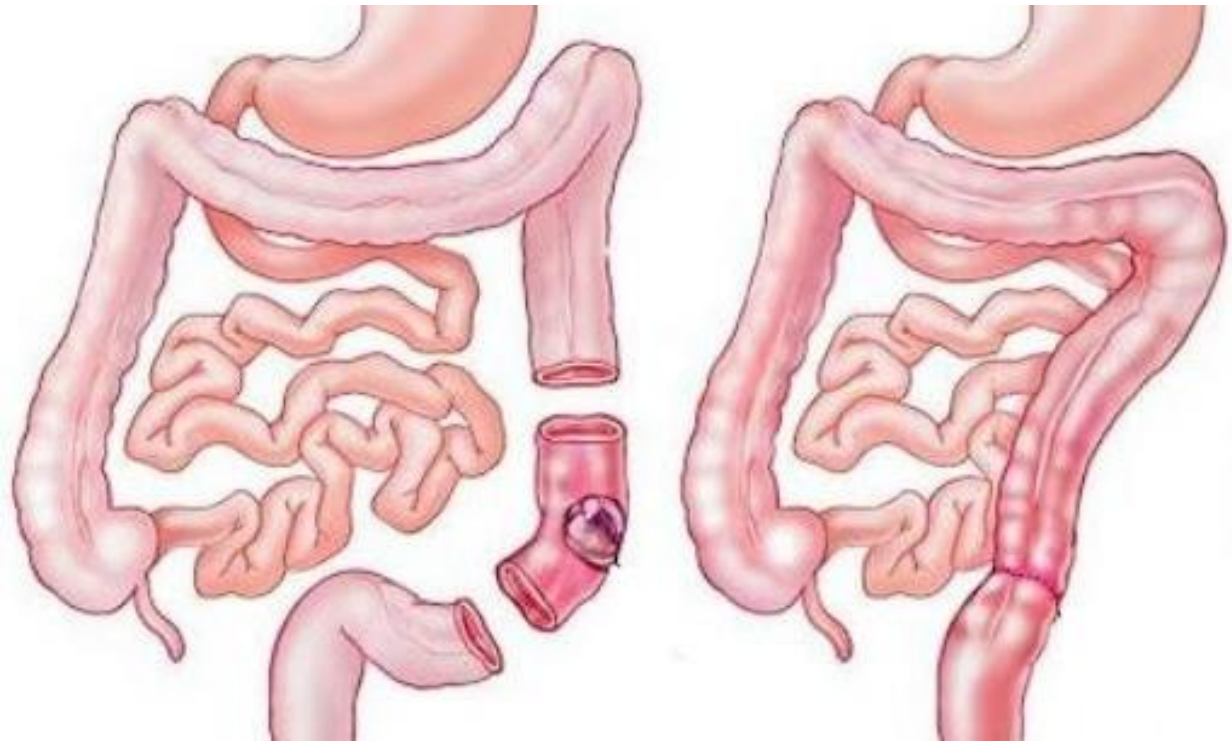


Colostomy

- **Large Intestine** (*cecum, colon, rectum*)
 - Storage and elimination
 - Water absorption
- **Colostomy**
 - Sigmoid Colon
 - Formed stool
 - Mass movements
- **Pouch**
 - Regulate bowel function
- **Why?**
 - Diverticulitis with perforation
 - Rectal Cancer

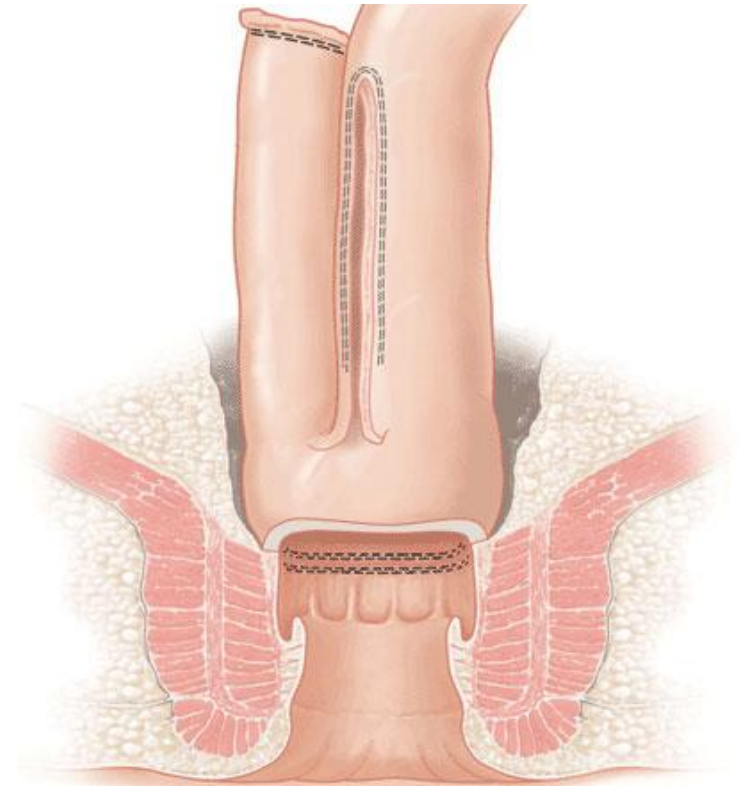


Temporary Ostomy

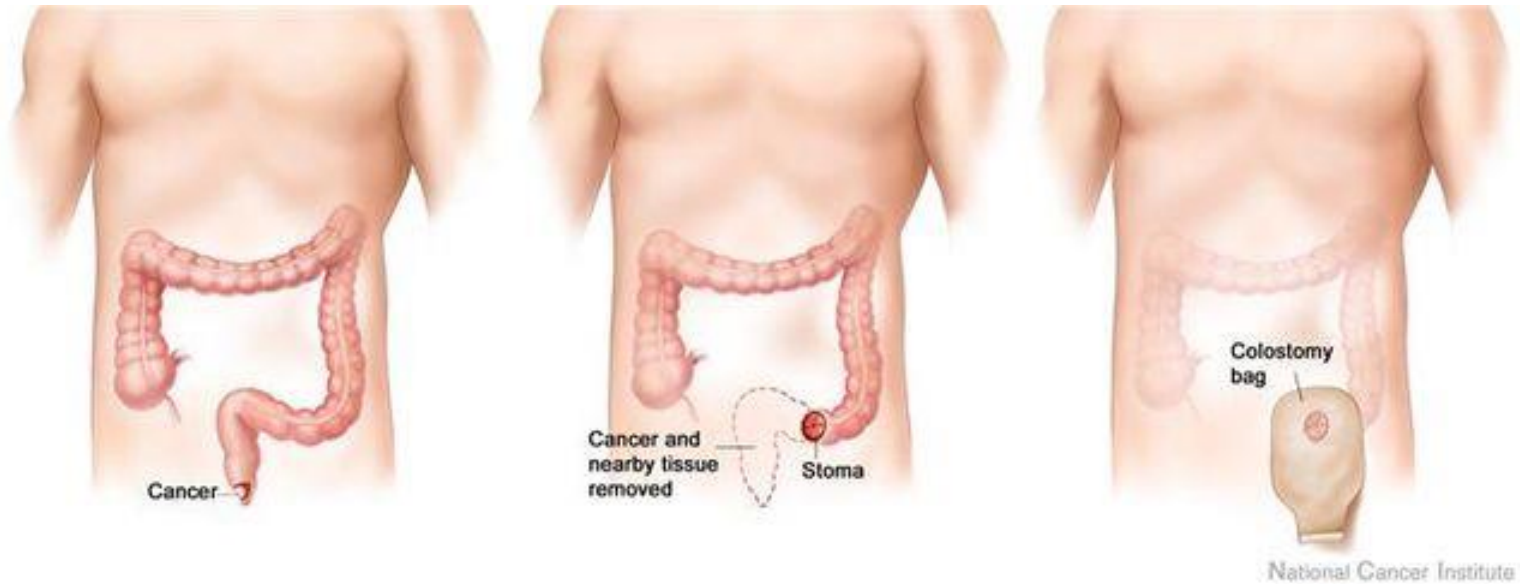


Ileal Anal Anastomosis with J Pouch

- Staged procedure
 - Colectomy/Proctocolectomy
 - Loop ostomy
 - Creation of internal pouch
- Temporary Loop Ileostomy
 - 6-8 weeks
- Last stage provides natural evacuation
 - 6-8 soft stools/day
 - Approx 6 months



Permanent Ostomy - APR



Peristomal Skin

- Healthy, intact with no erythema, rash, or lesions



Goal of basic Pouching

Protect Peristomal skin, clear the mucosa & maintaining a seal for prescribed period of time!



Leakage Assessment and Treatment



Select Appropriate Pouch (Basics)

Stoma Protrudes

- Flat system flexible or 2 piece with ring
- Clear stoma 1/16"
- Paste bead or barrier ring

Stoma Flush

- Flat flexible pouch or light convex
- clear stoma by 1/8-1/4"
- Flat paste

Retracted

- Convex
- Clear stoma by 1/16"
- Flat paste directly to skin

Crusting Peristomal Skin

1. Dust Area with Stoma Power
2. Gently brush off excess (*powder will stick to denuded area*)
3. Seal in with a “Sting Free” Barrier



1.

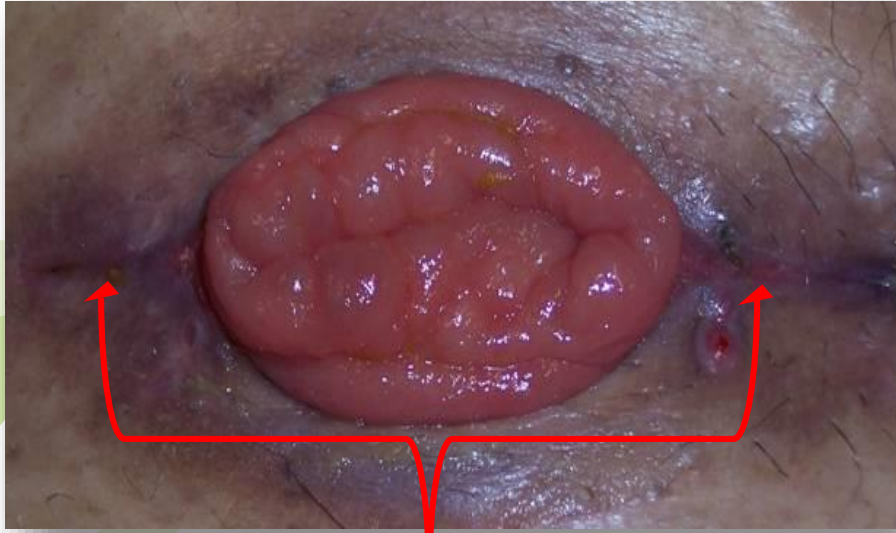


2.



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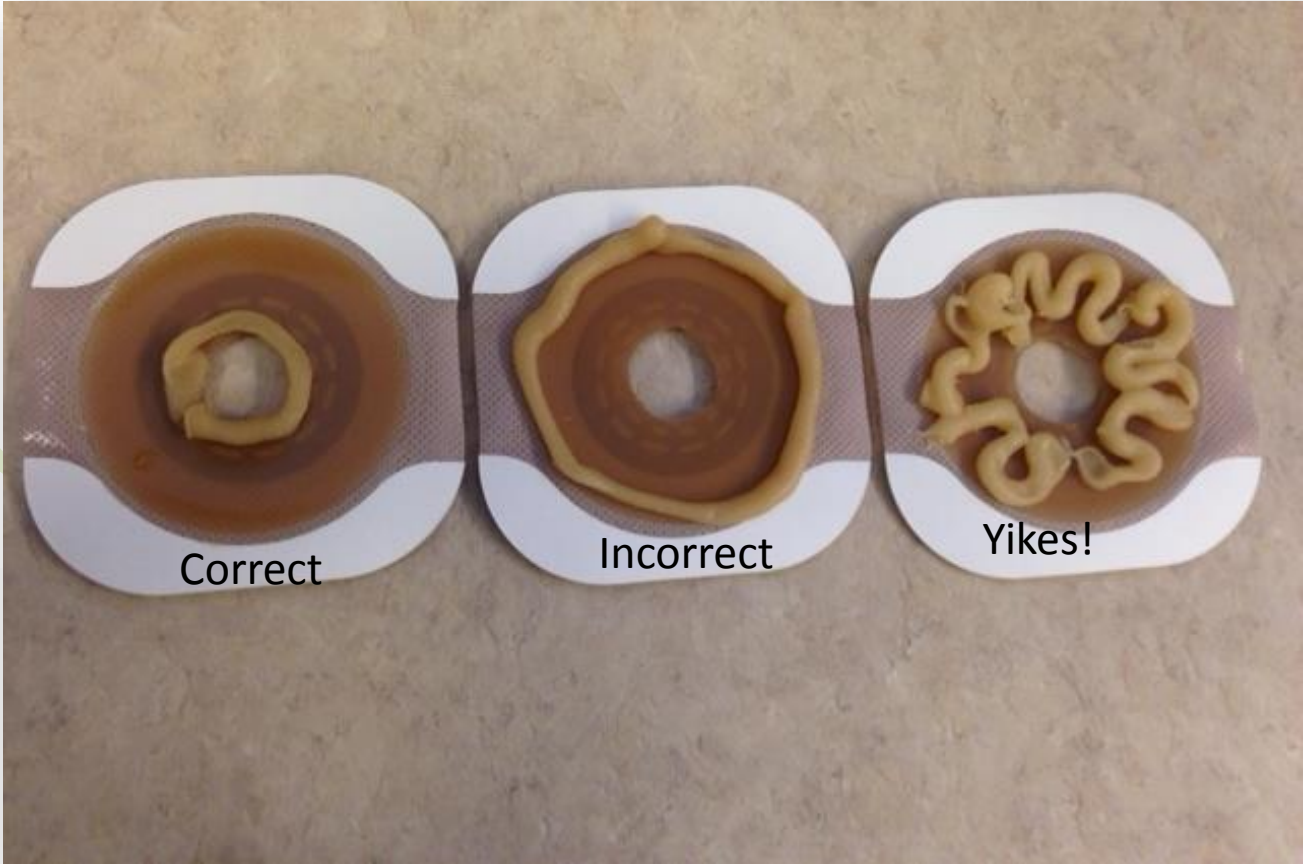
Barriers and Paste.



Skin Creases at
3:00 and 9:00



Correct use of paste.

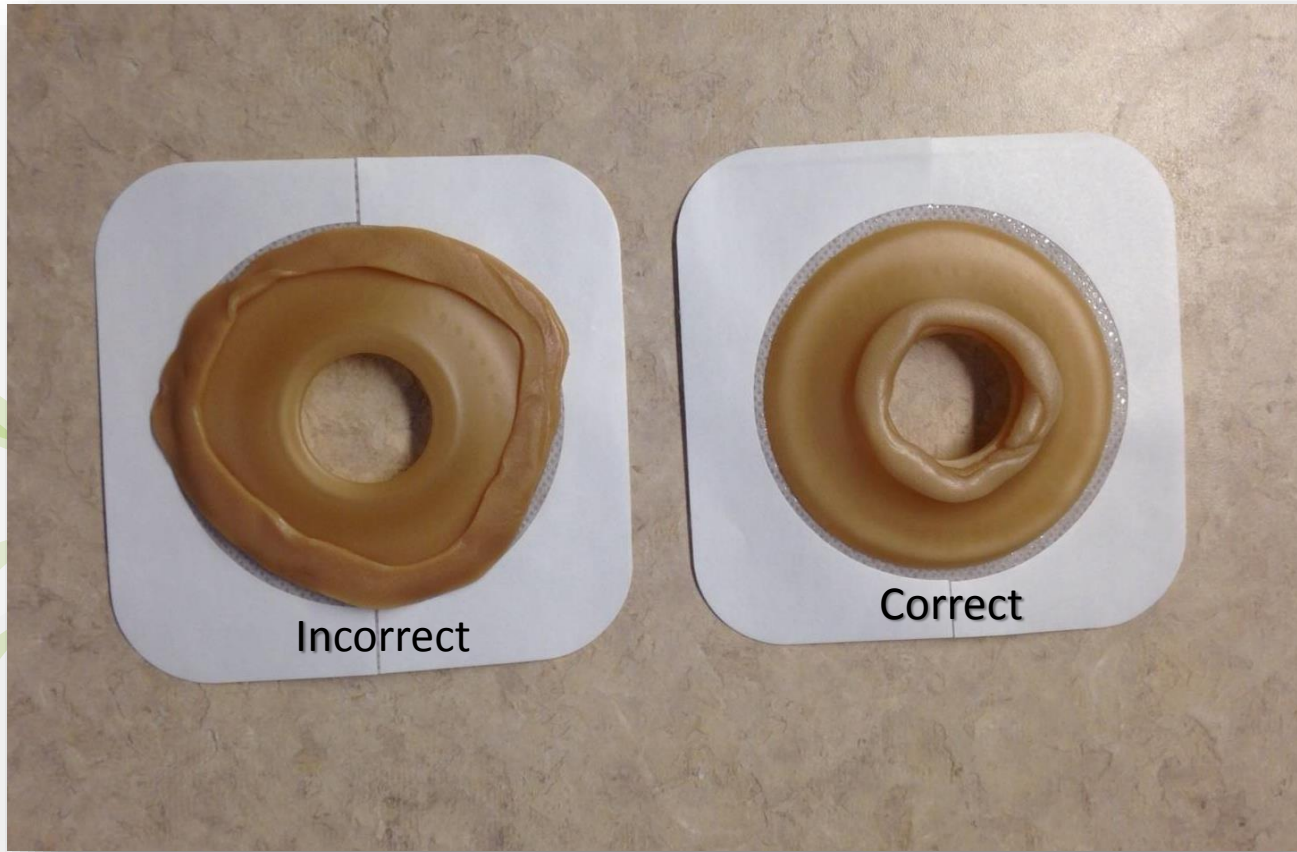


Correct

Incorrect

Yikes!

Correct use of Barrier Ring



Incorrect

Correct

Belts

- Additional support at 3:00 and 9:00



References

1. Colwell, J., Goldberg, M., Carmel, J., *Fecal and Urinary Diversions, Management and Principals*. Mosby, Inc. 2004
2. Doughty, D. History of Ostomy Surgery. *Journal Wound Ostomy Continence Nursing*. 2008; (35):34-38.
3. University. *Wound Ostomy Continence Nursing Education Program*. 2013. Copyright Emory University.
4. Jordan, R., Burns Ladonna, J., *Understanding Stoma Complications*. *Wound Care Advisor*, 2013 (2): 20-24
5. Zimnicki, K. Preoperative Stoma Site Marking in the General Surgery Population. *Journal Wound Ostomy Continence Nursing*. 2013; (5): 501-505 Lipincott and Williams.
6. By national cancer institute -
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Case Studies

Irritant Contact Dermatitis.

- *Cause/Presentation:*
 - Enzymatic drainage
 - Painful
 - Matches area of leakage
- *Treatment:*
 - Correct cause
 - Assess self care
 - Crusting



Leakage Assessment and Treatment.



Crusting Peristomal Skin.

1. Dust Area with Stoma Power
2. Gently brush off excess (*powder will stick to denuded area*)
3. Seal in with a “Sting Free” Barrier



Irritant Contact Dermatitis.



Astringent Soak.

- **Domeboro's (Burrows Solution)**
 - Temporarily relieves skin irritation
 - Wet Compress 15-30 minutes (up to q8 hours)

Hydrocolloid Barrier.

Hydrocolloid Barrier Sheet



Pouch, Belt and Barrier



1 Week Post Treatment

Peristomal Candidiasis.

Cause/Presentation:

- Associated with ABX therapy
- Moisture
- Maculopapular rash with satellite lesions
- Pruritis

• *Treatment:*

- Antifungal Powder
- prescription, Nystatin
- OTC , Miconazole 2%



Peristomal Candidiasis.



Necrosis and pouching a bridge.

- ***Cause/Presentation:***

- Death of mucosal tissue
- Change in color, turgor, hydration
- 72 hours to post-op

- ***Treatment:***

- Monitor closely
- Notify Surgeon if deeper necrosis is suspected
- Control Odor



Stomal Necrosis with Bridge.



Pouching a Bridge.



Allergic Contact Dermatitis.

- **Cause/Presentation**
 - Rash that mirrors area of contact
 - Blister formation
 - Pruritis
 - Burning and pain
- **Treatment:**
 - Eliminate allergen
 - Patch test
 - Topical steroids (Kenalog Spray)
 - Crusting
 - Absorbent dressing with hydrocolloid
 - After testing changed product



Allergic Contact Dermatitis.

Initial presentation



4 Days



2 weeks



3 weeks



Patch Test.



Mucocutaneous Separation

- **Cause/Presentation:**

- Separation of stoma from peristomal skin
- Tension at suture line
- Poor wound healing
- Risk for stenosis

- **Treatment:**

- Moist wound healing and appropriate pouching
 - Hydrofiber
 - Hydrocolloid
 - Absorptive powder



Mucocutaneous Separation.



Pouching a Prolapse.

- ***Cause/Presentation:***
 - Displacement of stoma position
 - Loop Ostomy
 - Lack facial support
 - Obesity
 - Poor muscle tone
- **Treatment/Management:**
 - Manage edema
 - Ensure mucosal health
 - Ensure comfort with pouching
 - Prolapse belt



Pouching a Prolapse.



Peristomal Pyoderma Gangrenosum.

- **Cause/presentation:**

- IBD
- Autoimmune
- Hepatitis
- Exclusionary testing
- PAIN
- Crater formation
- Violacious discoloration

- **Treatment:**

- ***Steroids!***
- Atraumatic moist wound healing (pathergy)
- Topical analgesics

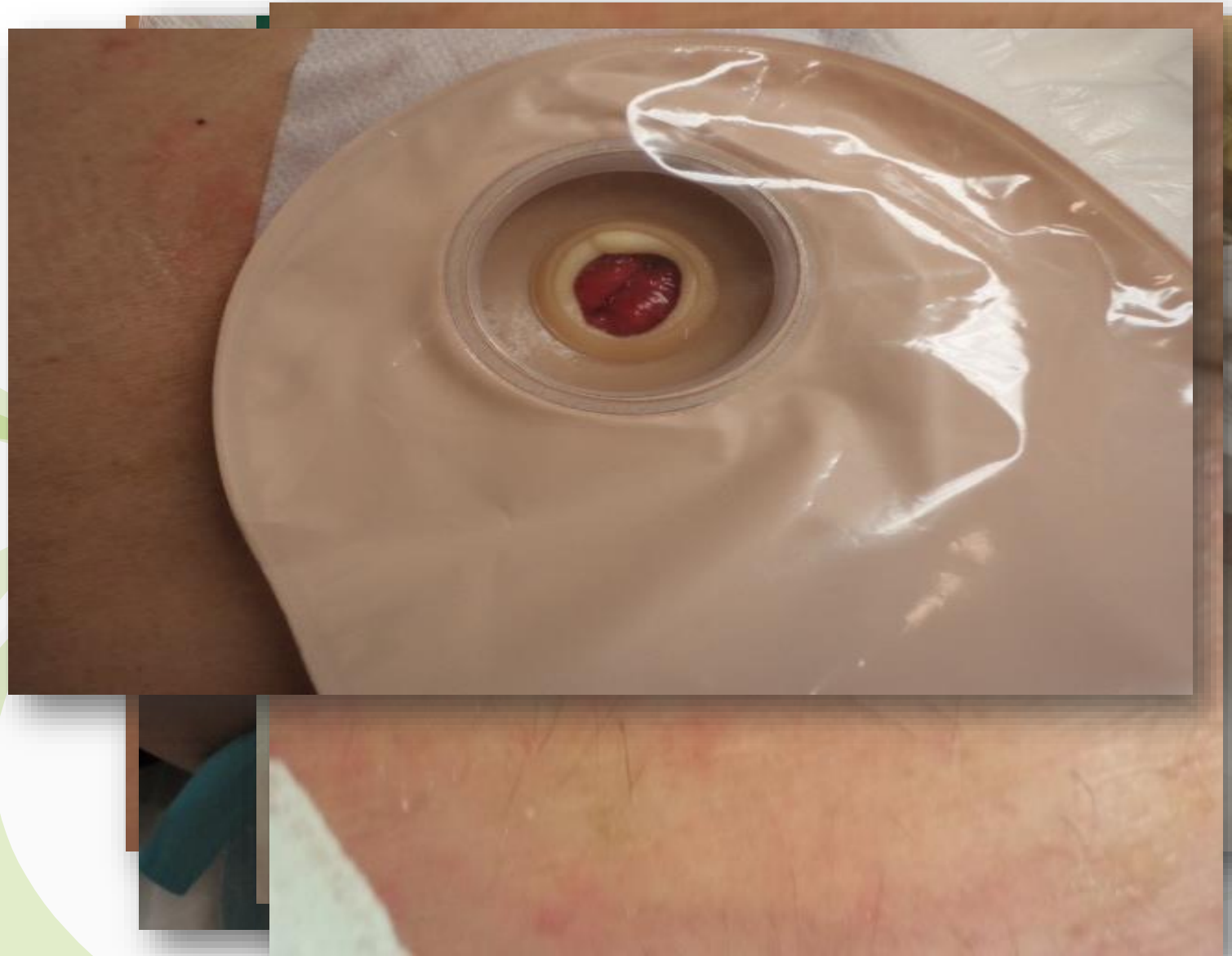


Pouching a Retracted Stoma.

- ***Cause/Presentation:***
 - Stoma below skin layer
 - Tension
 - Post -op necrosis
 - Thick abdominal wall
 - Weight gain
- ***Treatment:***
 - Convexity
 - Flat flexible
 - Belting



Retracted Stoma.



Pressure Injury.

- ***Cause/Presentation:***
 - Punctuate lesion
 - Pain under wafer
 - Rigid or convex wafer
 - Hernia
- ***Treatment:***
 - Reduce pressure
 - Hernia belt w/ soft oprning
 - Flexible pouching system



Pressure Injury.



Last thoughts

- **If in doubt ...**
- **If treatment doesn't respond...**
- **Celebrate the successes**
- **Know when to speak truth**

References

1. Colwell, J., Goldberg, M., Carmel, J., *Fecal and Urinary Diversions, Management and Principals*. Mosby, Inc. 2004
2. Doughty, D. History of Ostomy Surgery. *Journal Wound Ostomy Continence Nursing*. 2008; (35):34-38.
3. Meisner S, Lehur P-A, Moran B, Martins L, Jemec GBE (2012) Peristomal Skin Complications Are Common, Expensive, and Difficult to Manage: A Population Based Cost Modeling Study. *PLoS ONE* 7(5): e37813. doi:10.1371/journal.pone.0037813
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