

# Role of Surgery in Chronic Constipation and Obstructed Defecation



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# INTRODUCTION TO CHRONIC CONSTIPATION AND ODS

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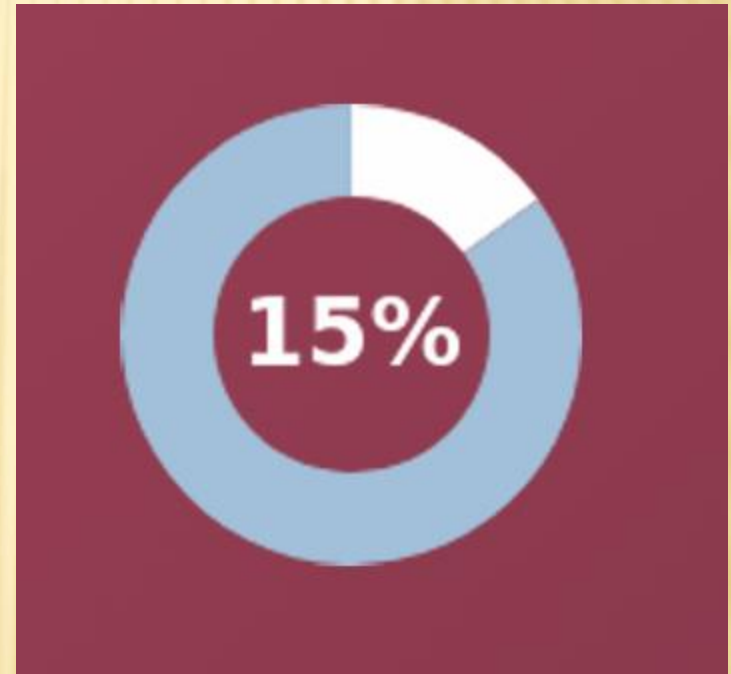
## Chronic Constipation

- ✘ A common gastrointestinal disorder with worldwide prevalence
- ✘ Characterized by infrequent bowel movements and/or difficulty evacuating
- ✘ Significantly impacts patients' quality of life

# INTRODUCTION TO CHRONIC CONSTIPATION AND ODS

## Prevalence & Impact

- ✘ Worldwide prevalence: approximately 15%
- ✘ Significantly impacts patients' quality of life
- ✘ Can lead to social isolation and psychological issues





# INTRODUCTION TO CHRONIC CONSTIPATION AND ODS

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## Obstructed Defecation Syndrome (ODS)

- ✗ Characterized by inability to effectively evacuate rectal contents
- ✗ Common symptoms include excessive straining and sensation of incomplete evacuation
- ✗ Often caused by anatomical defects like rectocele or internal rectal prolapse

# INTRODUCTION TO CHRONIC CONSTIPATION AND ODS

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## Stepwise Approach to Management

1. Conservative Treatment: Dietary changes, fiber supplementation, laxatives
2. Specialized Medical Treatment: Biofeedback, specialized medications
3. Surgical Intervention: Last resort for severe, refractory cases

# PATIENT SELECTION FOR SURGICAL INTERVENTION

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- ✗ **Failed Conservative Management:** more than 12 months of aggressive dietary changes, fiber supplements, laxatives, and pelvic floor physical therapy
- ✗ **Specific Diagnosis:**
  - + Confirmed slow-transit constipation or
  - + anatomical defects causing ODS
- ✗ **Exclusion of Secondary Causes**
- ✗ **Patient Characteristics:** Severe symptoms with significant impact on quality of life
- ✗ **Psychological Assessment:** Absence of major psychological disorders



# COMPREHENSIVE PREOPERATIVE EVALUATION

- ✘ **Clinical Assessment:** Detailed history and physical examination to rule out secondary causes
- ✘ **Physiological Testing:** Colonic transit study, anorectal manometry, balloon expulsion test, and defecography (MR or barium)
- ✘ **Psychological Evaluation:** Assessment for psychiatric comorbidities that may impact outcomes

# MULTIDISCIPLINARY ASSESSMENT

- ✗ The decision to proceed with surgery should ideally be made by a team including:



"A multidisciplinary approach ensures all aspects of the patient's condition are addressed, maximizing the potential benefits of surgical intervention."



# SURGICAL APPROACHES FOR SLOW-TRANSIT CONSTIPATION

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- ✖ Total Abdominal Colectomy with Ileorectal Anastomosis
- ✖ TAC-IRA is the standard surgical treatment for patients with intractable slow-transit constipation (STC), also known as colonic inertia.
- ✖ Procedure Overview:
  - + Removal of the entire colon
  - + Direct connection of the small intestine (ileum) to the rectum
  - + Bypasses the non-functional colon segment

# INDICATIONS FOR TAC-IRA

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- ✗ Severe, medically refractory slow-transit constipation
- ✗ Poor response to laxatives, fiber, and dietary changes  
Significant impact on quality of life
- ✗ Younger patients with severe disease

## LIMITATIONS

- ✗ Significant risk of small bowel obstruction
- ✗ Potential persistence of other GI symptoms
- ✗ Requires lifelong dietary restrictions

# OUTCOMES OF COLECTOMY FOR CONSTIPATION

## Success Rates & Outcomes

- ✘ Symptom Resolution: >90% success rate in well-selected patients
- ✘ Patient Satisfaction: Reports range from 39% to 100%
- ✘ Bowel Function: 1-3 bowel movements per day, decreasing over time

Symptoms resolution

90%

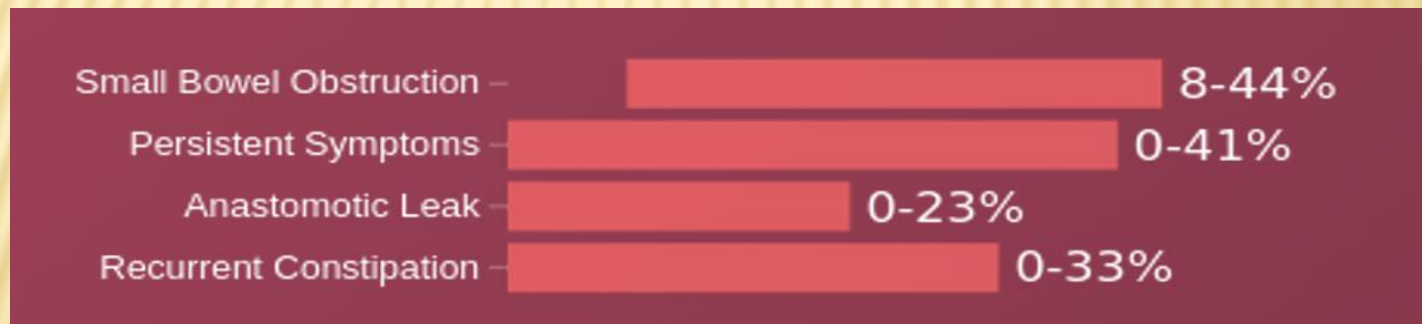
Patients satisfaction

70 %



# POTENTIAL COMPLICATIONS

- ✗ **Small Bowel Obstruction:** 8% to 44% of cases
- ✗ **Persistent Symptoms:** Up to 41% may experience abdominal pain or bloating
- ✗ **Anastomotic Leak:** Stool leakage at connection site, rates up to 23%
- ✗ **Other Complications:** Wound infections, intra-abdominal abscesses, recurrent constipation (0%-33%)



Clinical Pearl: Complications are often related to patient factors and surgical technique. Careful patient selection and experienced surgical expertise can significantly reduce risk.

# TRANSABDOMINAL APPROACHES FOR ODS

## Laparoscopic Ventral Mesh Rectopexy (LVMR)

A minimally invasive procedure involving:

- ✗ Mobilization of the front wall of the rectum
- ✗ Attachment of synthetic mesh to secure the rectum to the sacral promontory
- ✗ Correction of prolapse and rectocele

## Indications

- ODS caused by complex rectocele and internal rectal prolapse
- Patients with pre-existing weakness of the anal sphincter
- Complex pelvic floor defects

# LAPAROSCOPIC VENTRAL MESH RECTOPEXY (LVMR)

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## Outcomes & Success Rates

- ✗ Promising functional outcomes
- ✗ Significant reduction in ODS symptoms
- ✗ Low morbidity rate
- ✗ Efficient for improving constipation symptoms

## Advantages

- Preserves anal sphincter function
- Effective for complex defects

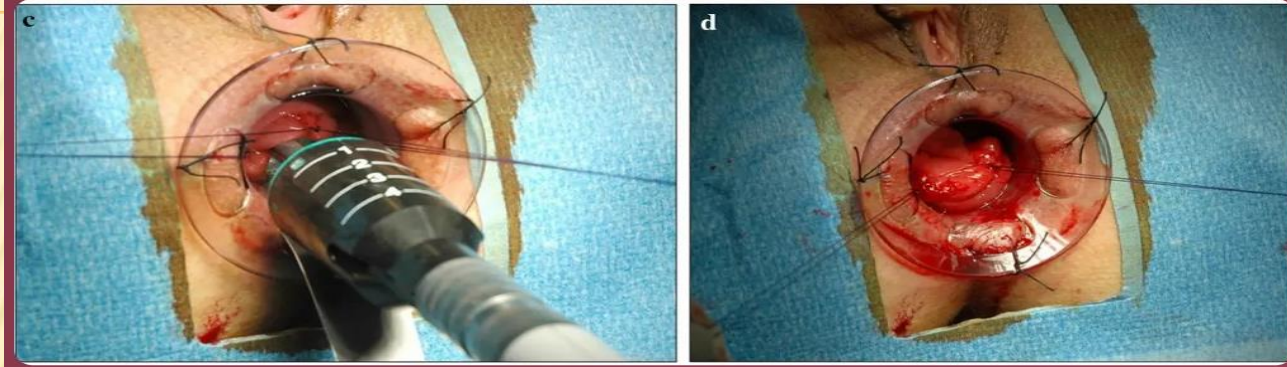
## Limitations

- Considerable learning curve
- Limited long-term data
- Potential for mesh-related complications



# TRANSANAL PROCEDURES FOR ODS

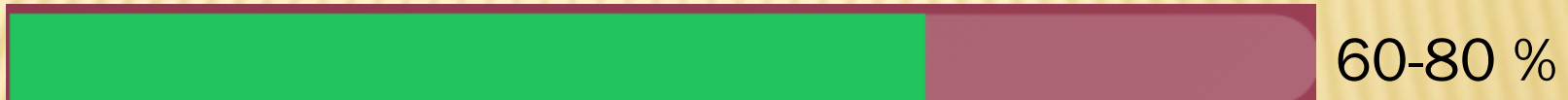
## STAPLED TRANSANAL RECTAL RESECTION (STARR)



### Procedure

Uses a circular stapler to perform a full-thickness resection of the prolapsed rectal wall, correcting both rectocele and internal intussusception.

### Effectiveness



Studies report significant improvements in ODS symptoms and high patient satisfaction rates.

### Complications

Fecal urgency (may decline over time)

Recto-vaginal fistula (rare)

Rectal perforation (rare)

Recurrence rate up to 50% at 5.5 years

De-novo fecal incontinence (10.7%)

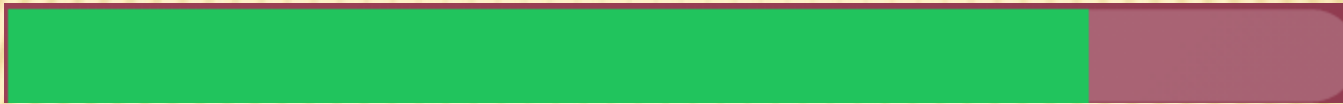
# TRANSANAL PROCEDURES FOR ODS

## DELORME'S OPERATION

### Procedure

Involves stripping the mucosal layer from the prolapsed segment of the rectum and then plicating (folding) the underlying muscle wall to shorten and strengthen it.

### Effectiveness



74% to 94%,

Reported success rates range from 74% to 94%, with significant improvements in ODS scores and reduction in intussusception.

### Advantages

- Significantly improves ODS scores
- Reduces intussusception effectively

### Limitations

- More technically difficult than STARR
- Higher recurrence rate (10-30%) compared to abdominal procedures



# TRANSVAGINAL REPAIR POSTERIOR COLPORRHAPHY

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## Technique

Incision in posterior vaginal wall to repair weakened rectovaginal septum

## Indications

- + Isolated rectocele
- + When concomitant gynecological procedure needed

## Outcomes

- + Effective for Grade III rectoceles
- + Significant reductions in ODS scores

## Limitations

- + Higher recurrence rate than other methods
- + Postoperative dyspareunia (painful intercourse)



# TRANSPERINEAL REPAIR RECTOCELE REPAIR VIA PERINEAL APPROACH

## Technique

Incision in perineum to access and repair the rectocele

## Advantages

- + Preserves vaginal integrity
- + Does not stretch anal sphincters
- + Lower risk to sexual function

## Outcomes

- + Median improvement rate of 72.7% in ODS symptoms
- + Comparably efficient to LVMR for simple rectocele

## Complications

Minor: wound dehiscence, infection

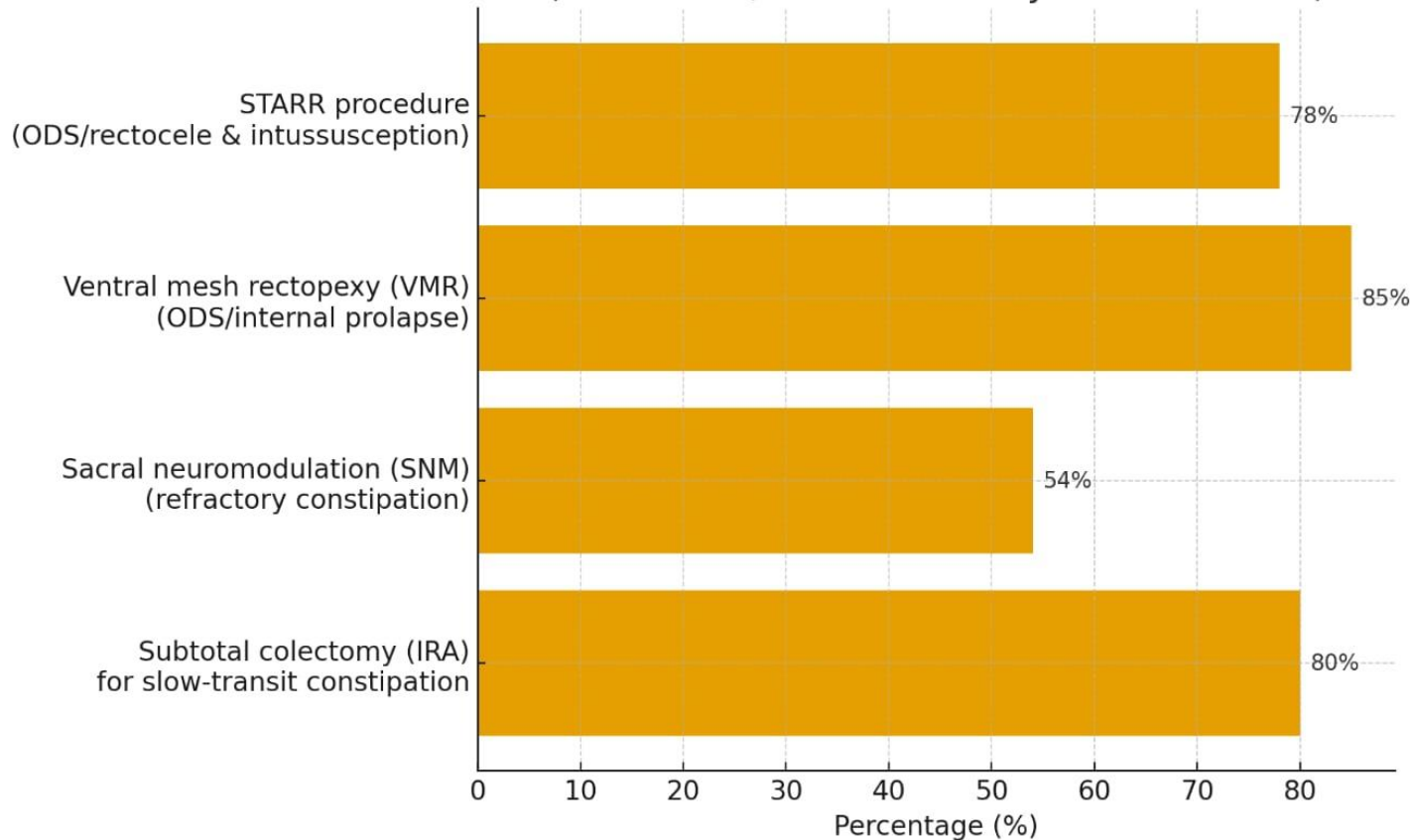
# COMPARATIVE EFFECTIVENESS OF SURGICAL PROCEDURES

## Surgical Procedures for Chronic Constipation and ODS

Procedure	Primary Indication	Success Rate	Common Complications	Long-term Outcomes
Total Abdominal Colectomy				
Laparoscopic Ventral Mesh Rectopexy				
Stapled Transanal Rectal Resection				

# SUCCESS RATE COMPARISON

Representative success/improvement after selected surgeries for chronic constipation  
(illustrative; definitions vary across studies)





# POSTOPERATIVE CARE AND LONG-TERM MANAGEMENT

## Immediate Care

- Pain control with analgesics
- Early mobilization to prevent blood clots
- Progressive diet from liquids to solids
- Management of surgical incision

## Short-Term Management

- Monitor for surgical complications
- Watch for infection or anastomotic leakage
- Manage bowel function proactively
- Adjust medications based on procedure

## Long-Term Follow-Up

- Ongoing dietary advice
- Pelvic floor physical therapy
- Regular follow-up appointments
- Assessment of functional outcomes

# CONCLUSION AND FUTURE DIRECTIONS

## Patient Selection

Surgery is a last resort for severe, refractory cases. Proper patient selection is the single most important predictor of successful outcomes.

## Procedure Choice

Match surgical approach to underlying pathophysiology. Colectomy for slow-transit constipation; anatomically based repairs for ODS.

## Multidisciplinary Approach

Essential team includes gastroenterologists, colorectal surgeons, pelvic floor therapists, and dietitians to address all aspects of care.

## Realistic Expectation

Set appropriate expectations regarding success rates, potential complications, and long-term outcomes.

# FUTURE DIRECTIONS

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- ✖ Developing minimally invasive techniques with reduced complications
- ✖ Advancing preoperative evaluation to better predict outcomes
- ✖ Creating more personalized approaches based on patient characteristics
- ✖ Improving multidisciplinary collaboration models



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Thank you