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Postgraduate Certificate in Nutritional Management of Diverticulitis

## Dietary Interventions For Diverticulitis

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### Acute Diverticulitis

Concept: Sudden inflammation of diverticula. Related terms: Chronic Diverticulitis, Perforation, Abscess.

Explanation: An episode characterized by abdominal pain, fever, and leukocytosis caused by bacterial infection of a diverticulum. Example: A 55-year-old patient presents with left-lower-quadrant pain and elevated C-reactive protein. Practical application: Initiate liquid or low-residue diet for 24-48 hours, then progress to soft foods as tolerated. Challenges: Differentiating from colonic carcinoma; ensuring adequate nutrition while the gut rests.

### Antibiotic Therapy

Concept: Pharmacologic treatment to eradicate infection. Related terms: Broad-spectrum antibiotics, Metronidazole, Ciprofloxacin. Explanation: Empiric antibiotics are prescribed for uncomplicated acute diverticulitis to reduce bacterial load and prevent complications. Example: Oral ciprofloxacin + metronidazole for 7 days. Practical application: Coordinate with dietitian to maintain protein intake during antibiotic course. Challenges: Antibiotic resistance, gastrointestinal side-effects, interaction with probiotic supplementation.

### Balloon-Assisted Colonoscopy

Concept: Endoscopic technique using a balloon for deeper access. Related terms: Therapeutic colonoscopy, Endoscopic dilation. Explanation: A specialized colonoscope equipped with an inflatable balloon can navigate strictures caused by chronic diverticulitis, allowing for targeted biopsies or stenting. Example: Patient with a 2-cm stricture at the sigmoid colon. Practical application: Pre-procedure dietary preparation includes clear liquids for 24 hours. Challenges: Requires skilled operator; risk of perforation; limited availability.

### Beta-Blockers

Concept: Cardiovascular medication that may influence gut motility. Related terms: Non-dihydropyridine calcium channel blockers, Anticholinergics. Explanation: While primarily used for hypertension, beta-blockers can reduce intestinal peristalsis, potentially exacerbating constipation in diverticulosis. Example: A patient on atenolol experiences worsening abdominal discomfort. Practical application: Review medication list; recommend fiber-rich diet or stool softeners if needed. Challenges: Balancing cardiovascular benefits with gastrointestinal side-effects.

### Biopsy

Concept: Tissue sampling for histopathological analysis. Related terms: Endoscopic biopsy, Fine-needle aspiration. Explanation: Obtaining mucosal tissue during colonoscopy can rule out malignancy when diverticular disease mimics cancer. Example: Biopsy of a suspicious sigmoid lesion reveals inflammation, not carcinoma. Practical application: Maintain a low-residue diet 48 hours before the procedure to improve visualization. Challenges: Patient anxiety; potential bleeding; false-negative results.

### Colonoscopic Surveillance

Concept: Periodic endoscopic monitoring. Related terms: Screening colonoscopy, Surveillance interval. Explanation: After an episode of diverticulitis, colonoscopy is advised to exclude neoplasia and assess disease progression. Example: Colonoscopy performed 6 weeks post-recovery shows healed diverticula. Practical application: Advise a clear-liquid diet the day before the exam and resume normal diet the following day. Challenges: Scheduling delays; patient non-adherence; preparation intolerance.

### Complicated Diverticulitis

Concept: Disease with perforation, abscess, fistula, or obstruction. Related terms: Uncomplicated diverticulitis, Hinchey classification. Explanation: Presence of structural complications necessitates more aggressive management, often including surgery. Example: CT scan reveals a 5-cm pericolic abscess (Hinchey II). Practical application: Initiate nil-by-mouth status, start parenteral nutrition, and transition to low-residue diet after drainage. Challenges: Nutrient depletion, prolonged hospitalization, risk of recurrent infection.

### Constipation Management

Concept: Strategies to prevent hard stool formation. Related terms: Fiber supplementation, Osmotic laxatives, Stool softeners. Explanation: Adequate bowel regularity reduces intraluminal pressure, lowering the risk of diverticular formation and flare-ups. Example: Patient uses psyllium + adequate hydration to achieve 3-4 soft stools daily. Practical application: Incorporate fruits, vegetables, and whole grains; advise on fluid intake of at least 2L per day. Challenges: Patient compliance, bloating, interaction with medication absorption.

### Dietary Fiber

Concept: Indigestible plant carbohydrate. Related terms: Soluble fiber, Insoluble fiber, Prebiotic. Explanation: Fiber increases stool bulk, softens stool, and promotes regularity, which is protective against diverticular disease. Example: A diet containing 25 g of fiber per day from whole grains and legumes. Practical application: Gradually increase fiber to avoid gas; pair with adequate fluids. Challenges: Gas, abdominal discomfort, over-reliance on low-nutrient processed foods if fiber is not balanced.

### Diverticular Disease

Concept: Spectrum from diverticulosis to diverticulitis. Related terms: Diverticulosis, Acute diverticulitis, Chronic diverticulitis. Explanation: Presence of outpouchings (diverticula) in the colon wall; inflammation occurs when these become infected. Example: Incidentally found diverticula on abdominal CT in an asymptomatic patient. Practical application: Educate patients on high-fiber diet and regular exercise to prevent progression. Challenges: Variable symptom presentation; patient misunderstanding of "diverticulosis" as a disease rather than a condition.

### Diverticulitis Diet

Concept: Nutritional plan during and after an episode. Related terms: Low-residue diet, Clear-liquid diet, Gradual re-introduction. Explanation: A staged approach beginning with clear liquids, moving to low-residue, then to a high-fiber diet as symptoms resolve. Example: Day 1: Broth and gelatin; Day 3: Mashed potatoes; Day 7: Whole-grain toast. Practical application: Provide meal plans and recipes; monitor tolerance. Challenges: Patient fatigue, cultural food preferences, risk of nutrient deficiencies during

prolonged restriction.

#### Diverticulosis

**Concept:** Presence of diverticula without inflammation. **Related terms:** Diverticular disease, Asymptomatic diverticula, Colon wall weakness. **Explanation:** A structural abnormality where mucosal herniations protrude through the muscular layer, often found incidentally. **Example:** Colonoscopy reveals multiple sigmoid diverticula in a healthy adult. **Practical application:** Emphasize preventive dietary fiber and physical activity. **Challenges:** Over-medicalization; patients may unnecessarily restrict foods.

#### Enteral Nutrition

**Concept:** Feeding via the gastrointestinal tract. **Related terms:** Parenteral nutrition, Nasogastric feeding, Oral supplements. **Explanation:** When oral intake is limited, formulae are delivered through a tube to maintain gut integrity and provide nutrients. **Example:** A patient on a low-residue diet receives a polymeric formula via nasogastric tube. **Practical application:** Choose formulas low in fiber but high in protein and electrolytes. **Challenges:** Tube dislodgement, aspiration risk, patient discomfort.

#### Fiber Supplements

**Concept:** Concentrated sources of dietary fiber. **Related terms:** Psyllium husk, Inulin, Wheat dextrin. **Explanation:** Used to boost fiber intake when dietary sources are insufficient, aiding stool softening and regularity. **Example:** 5 G of psyllium mixed with water twice daily. **Practical application:** Instruct patients to take supplements with at least 250 mL of fluid. **Challenges:** Bloating, gas, potential interaction with medication absorption.

#### Fistula Formation

**Concept:** Abnormal connection between colon and another organ. **Related terms:** Colovesical fistula, Enteric fistula, Surgical repair. **Explanation:** Chronic inflammation can erode adjacent tissues, creating a tract that may cause urinary or vaginal symptoms. **Example:** Recurrent urinary infections due to a colovesical fistula. **Practical application:** Nutritional support includes high-protein diet to promote tissue healing. **Challenges:** Complex surgical management; risk of malabsorption.

#### Flare-Up Prevention

**Concept:** Strategies to avoid recurrent episodes. **Related terms:** Maintenance diet, Lifestyle modification, Probiotic use. **Explanation:** Consistent fiber intake, adequate hydration, and regular exercise reduce intraluminal pressure. **Example:** Patient maintains 30 g of fiber daily and experiences no flare-ups for 12 months. **Practical application:** Develop individualized nutrition plans with periodic review. **Challenges:** Patient motivation, seasonal dietary changes, comorbidities such as IBS.

#### Gut Microbiota

**Concept:** Community of microorganisms residing in the intestine. **Related terms:** Probiotics, Dysbiosis, Short-chain fatty acids. **Explanation:** A balanced microbiome supports mucosal health; dysbiosis may predispose to diverticulitis. **Example:** Reduced Bifidobacterium spp. Observed in patients with recurrent disease. **Practical application:** Recommend probiotic strains (e.G., Lactobacillus rhamnosus) alongside high-fiber diet. **Challenges:** Variable strain efficacy, patient adherence, cost.

### Hinchey Classification

Concept: Staging system for perforated diverticulitis. Related terms: Stage I – localized abscess, Stage II – pelvic abscess, Stage III – purulent peritonitis, Stage IV – fecal peritonitis. Explanation: Guides clinical decision-making; higher stages often require surgery. Example: CT shows free air and diffuse peritonitis → Hinchey IV. Practical application: Nutritional approach escalates from nil-by-mouth to parenteral nutrition as severity increases. Challenges: Rapid progression may outpace nutritional adjustments.

### Hydration Status

Concept: Body fluid balance. Related terms: Dehydration, Fluid therapy, Electrolyte replacement. Explanation: Adequate fluid intake softens stool and prevents constipation, a key factor in diverticular disease. Example: Patient drinks 2.5 L of water daily, reports softer stools. Practical application: Encourage water, herbal teas, and low-sugar fluids; limit caffeine and alcohol. Challenges: Patient forgetfulness, renal insufficiency limiting fluid volume.

### IBD-Differential Diagnosis

Concept: Distinguishing diverticulitis from inflammatory bowel disease. Related terms: Crohn's disease, Ulcerative colitis, Colonoscopy. Explanation: Overlapping symptoms require careful clinical, endoscopic, and radiologic assessment. Example: Biopsy shows granulomas → Crohn's, not diverticulitis. Practical application: Nutritional plans differ; IBD may need low-residue diet, while diverticulitis focuses on fiber re-introduction. Challenges: Misdiagnosis leading to inappropriate dietary restrictions.

### Imaging Modalities

Concept: Diagnostic tools for diverticular disease. Related terms: CT scan, MRI, Ultrasound, Contrast enema. Explanation: CT is gold standard for acute diverticulitis, identifying perforation, abscess, and Hinchey stage. Example: Contrast-enhanced CT reveals a 3-cm pericolic abscess. Practical application: Prior to imaging, patients may be advised to avoid high-fiber meals to reduce bowel gas. Challenges: Radiation exposure, contrast allergy, accessibility.

### Insoluble Fiber

Concept: Fiber that does not dissolve in water. Related terms: Cellulose, Wheat bran, Bulk-forming fiber. Explanation: Increases stool bulk and accelerates transit, reducing intraluminal pressure. Example: 10 G of wheat bran added to breakfast cereal. Practical application: Recommend as part of a mixed-fiber diet; combine with soluble fiber for balanced effect. Challenges: May cause bloating if introduced rapidly; not suitable during acute flare-up.

### Low-Residue Diet

Concept: Diet low in indigestible material. Related terms: Low-fiber diet, Clear-liquid diet, Post-operative diet. Explanation: Reduces stool volume and mechanical stress on the colon, facilitating healing after an acute episode. Example: Meals consist of white rice, skinless chicken, and well-cooked carrots. Practical application: Provide sample menus for 3-5 days, then gradually re-introduce fiber. Challenges: Nutrient deficiencies if prolonged; patient monotony.

### Meal Timing

Concept: Scheduling of food intake. Related terms: Small frequent meals, Intermittent fasting, Nighttime

snacking. Explanation: Smaller, more frequent meals may improve gastrointestinal motility and reduce post-prandial pressure spikes. Example: Four meals and two light snacks per day. Practical application: Advise patients to avoid large, heavy dinners; suggest a light evening snack if needed. Challenges: Lifestyle constraints, cultural eating patterns.

#### Microbial Fermentation

Concept: Breakdown of carbohydrates by gut bacteria. Related terms: Short-chain fatty acids, Gas production, Prebiotics. Explanation: Fermentation of fiber yields beneficial SCFAs (e.G., Butyrate) that support colonic health but may also produce gas, causing bloating. Example: Inulin supplementation increases butyrate but also flatulence. Practical application: Gradual fiber increase to allow microbial adaptation; consider low-FODMAP fiber sources for sensitive patients. Challenges: Balancing benefits with tolerability; patient education on expected symptoms.

#### NSAID Use

Concept: Non-steroidal anti-inflammatory drugs. Related terms: Aspirin, Ibuprofen, Gastrointestinal ulceration. Explanation: NSAIDs can impair mucosal defenses, increasing risk of diverticular complications and bleeding. Example: Chronic ibuprofen use linked to recurrent diverticulitis. Practical application: Counsel patients on alternative pain management (e.G., Acetaminophen) and protective strategies (e.G., PPI co-therapy). Challenges: Managing co-existing arthritic pain; patient reliance on OTC NSAIDs.

#### Nutrient Deficiencies

Concept: Shortages of essential vitamins/minerals. Related terms: Iron deficiency anemia, Vitamin D insufficiency, Calcium loss. Explanation: Prolonged low-residue or liquid diets may lead to inadequate intake of iron, calcium, and certain B-vitamins. Example: Patient develops anemia after 3 weeks of liquid diet. Practical application: Supplement iron (ferrous sulfate) and multivitamins; monitor labs regularly. Challenges: Compliance, gastrointestinal side-effects of supplements, cost.

#### Obesity and Diverticulitis

Concept: Relationship between excess body weight and disease risk. Related terms: BMI, Metabolic syndrome, Weight loss. Explanation: Obesity increases intra-abdominal pressure and systemic inflammation, predisposing to diverticular complications. Example: BMI > 30 kg/m<sup>2</sup> associated with higher recurrence rates. Practical application: Implement calorie-controlled, high-fiber diet with regular physical activity. Challenges: Patient motivation, comorbidities limiting exercise.

#### Oral Rehydration Solutions

Concept: Fluid-electrolyte mixtures for rehydration. Related terms: Electrolyte balance, Hyponatremia, Dehydration. Explanation: Provide rapid fluid replacement while maintaining electrolyte homeostasis, especially after diarrheal episodes. Example: 500 ML of ORS containing 75 mmol/L sodium administered post-hospital discharge. Practical application: Recommend ORS over sugary drinks during recovery. Challenges: Palatability, over-consumption leading to hypernatremia.

#### Parenteral Nutrition

Concept: Intravenous delivery of nutrients. Related terms: Total parenteral nutrition (TPN), Central line, Lipid emulsion. Explanation: Used when enteral feeding is contraindicated, ensuring caloric and protein needs are

met. Example: TPN providing 25 kcal/kg/day for a patient with bowel rest. Practical application: Monitor glucose, triglycerides, and liver function during therapy. Challenges: Infection risk, metabolic complications, high cost.

#### Peri-operative Nutrition

Concept: Nutritional support surrounding surgery. Related terms: Prehabilitation, Immunonutrition, Enhanced recovery after surgery (ERAS). Explanation: Optimizing protein and caloric intake before and after surgery improves wound healing and reduces complications. Example: Pre-operative 500 kcal high-protein supplement for 5 days. Practical application: Incorporate oral nutritional supplements (ONS) rich in arginine and omega-3 fatty acids. Challenges: Patient tolerance, timing relative to bowel preparation.

#### Post-Acute Dietary Progression

Concept: Stepwise re-introduction of foods after flare-up. Related terms: Re-feeding protocol, Soft diet, High-fiber diet. Explanation: Begins with clear liquids, advances to low-residue, then to a balanced high-fiber diet as symptoms resolve. Example: Day 1: Broth; Day 3: Mashed potatoes; Day 7: Whole-grain toast and fruit. Practical application: Provide written schedule and symptom-watch checklist. Challenges: Patient impatience, misinterpretation of "soft" vs "low-residue" foods.

#### Probiotic Therapy

Concept: Administration of live beneficial bacteria. Related terms: Lactobacillus, Bifidobacterium, Synbiotic. Explanation: May restore microbial balance, reduce inflammation, and lower recurrence risk. Example: Daily capsule containing  $10^9$  CFU of Lactobacillus plantarum. Practical application: Combine with prebiotic fiber for synergistic effect. Challenges: Strain-specific efficacy, storage requirements, patient skepticism.

#### Protein Requirements

Concept: Amount of protein needed for tissue repair. Related terms: Nitrogen balance, Lean body mass, Catabolism. Explanation: During acute diverticulitis, protein needs increase to 1.2–1.5 G/kg/day to support immune function and wound healing. Example: 70-Kg patient requires 84–105 g of protein daily. Practical application: Emphasize lean meats, dairy, legumes, and protein-enriched oral supplements. Challenges: Balancing protein with low-residue restrictions; renal insufficiency considerations.

#### Psychosocial Factors

Concept: Emotional and social influences on disease management. Related terms: Health literacy, Stress coping, Social support. Explanation: Anxiety about diet can lead to restrictive eating patterns, worsening nutritional status. Example: Patient avoids all fiber fearing recurrence, resulting in constipation. Practical application: Incorporate counseling and patient education sessions. Challenges: Limited access to mental-health resources; cultural beliefs about food.

#### Recurrent Diverticulitis

Concept: Multiple episodes over time. Related terms: Chronic inflammation, Surgical indication, Preventive diet. Explanation: Recurrence risk rises with inadequate fiber intake, obesity, and smoking. Example: Patient experiences three episodes within 2 years. Practical application: Implement a maintenance diet of  $\geq 30$  g fiber, regular aerobic exercise, and smoking cessation. Challenges: Patient fatigue with repeated dietary changes; insurance coverage for dietitian visits.

### Resistant Starch

Concept: Starch that escapes digestion in the small intestine. Related terms: Prebiotic, Fermentation, Butyrate production. Explanation: Acts as a fermentable substrate, promoting SCFA production and colonic health. Example: Cooked-and-cooled potatoes provide 3 g of resistant starch per serving. Practical application: Suggest inclusion of cooled rice or legumes as part of the diet. Challenges: Limited patient awareness; potential gas production.

### Risk Stratification

Concept: Assessment of likelihood for complications. Related terms: Clinical scoring systems, Hinchey classification, Biomarkers. Explanation: Factors such as age, comorbidities, and inflammatory markers guide intensity of nutritional intervention. Example: High CRP (>150 mg/L) places patient in high-risk category. Practical application: High-risk patients receive early enteral nutrition and closer monitoring. Challenges: Variability in scoring accuracy; need for rapid lab results.

### Salicylate-Free Diet

Concept: Avoidance of foods high in natural salicylates. Related terms: Aspirin hypersensitivity, Food triggers, Anti-inflammatory diet. Explanation: Some patients report symptom exacerbation with salicylate-rich foods (e.G., Tomatoes, berries) during flare-ups. Example: Removing tomatoes from diet reduces abdominal discomfort. Practical application: Offer alternative nutrient sources (e.G., Carrots for vitamin A). Challenges: Nutrient gaps; limited evidence base.

### Secondary Prevention

Concept: Measures to avert subsequent disease episodes. Related terms: Maintenance diet, Lifestyle modification, Surveillance colonoscopy. Explanation: Ongoing high-fiber intake, regular physical activity, and periodic colonoscopy reduce recurrence risk. Example: Patient adheres to 35 g fiber daily and remains flare-free for 2 years. Practical application: Set realistic fiber goals and schedule follow-up appointments. Challenges: Long-term adherence, competing health priorities.

### Soft Diet

Concept: Easily chewable, low-mechanical-stress foods. Related terms: Low-residue diet, Pureed diet, Transitional diet. Explanation: Used after acute diverticulitis to minimize colonic workload while providing adequate nutrients. Example: Scrambled eggs, oatmeal, and smooth yogurt. Practical application: Ensure protein density (>15 g per meal) and include small amounts of soluble fiber. Challenges: Patient perception of blandness; risk of insufficient fiber if prolonged.

### Soluble Fiber

Concept: Fiber that dissolves in water forming a gel. Related terms: Pectin, Beta-glucan, Viscous fiber. Explanation: Slows gastric emptying, improves stool consistency, and can lower cholesterol. Example: 5 G of psyllium taken with water twice daily. Practical application: Pair soluble fiber with adequate fluid to prevent obstruction. Challenges: Over-use may cause constipation if fluid intake is low.

### Stool Softening Agents

Concept: Medications that increase water content in stool. Related terms: Docusate sodium, Mineral oil, Osmotic laxatives. Explanation: Reduce straining, thereby decreasing intraluminal pressure on diverticula.

Example: Docusate 100 mg twice daily. Practical application: Combine with fiber and fluid intake for synergistic effect. Challenges: Possible oily stools, interference with absorption of fat-soluble vitamins.

### Surgical Resection

Concept: Removal of diseased colon segment. Related terms: Sigmoidectomy, Laparoscopic colectomy, Anastomosis. Explanation: Indicated for complicated or recurrent diverticulitis unresponsive to medical therapy. Example: Laparoscopic sigmoid resection with primary anastomosis. Practical application: Pre-operative nutrition includes carbohydrate loading and protein enrichment. Challenges: Post-operative ileus, wound infection, long-term dietary adjustments.

### Symptom Diary

Concept: Record of daily food intake and symptoms. Related terms: Food log, Trigger identification, Patient self-monitoring. Explanation: Helps correlate specific foods or patterns with symptom flare-ups, guiding individualized diet plans. Example: Patient notes increased pain after high-fat meals. Practical application: Provide template and instruction on how to track portion sizes. Challenges: Patient compliance, accuracy of reporting.

### Therapeutic Dietitian

Concept: Nutrition professional specializing in disease-specific interventions. Related terms: Clinical nutritionist, Registered dietitian (RD), Nutrition counseling. Explanation: Provides evidence-based dietary recommendations, monitors nutritional status, and adjusts plans throughout the disease course. Example: Dietitian develops a phased diet after acute diverticulitis. Practical application: Schedule follow-up appointments at 2-week intervals during recovery. Challenges: Limited access in some regions; insurance reimbursement issues.

### Thickened Liquids

Concept: Liquids with added viscosity agents. Related terms: Pectin-based thickener, Dysphagia diet, Modified diet. Explanation: Used when patients have difficulty swallowing post-surgery but need more caloric density than clear liquids. Example: Apple juice thickened to nectar consistency. Practical application: Ensure added fiber does not exceed low-residue limits during early recovery. Challenges: Palatability, risk of over-thickening leading to obstruction.

### Transitional Fiber

Concept: Gradual re-introduction of fiber after flare-up. Related terms: Step-up diet, Fiber ramp-up, Tolerance testing. Explanation: Incremental increase (e.g., 5 G per day) allows the gut microbiota to adapt, minimizing gas and bloating. Example: Adding 5 g of oat bran on day 3 of low-residue diet. Practical application: Monitor stool consistency and abdominal discomfort; adjust rate accordingly. Challenges: Patient impatience; varying individual tolerance thresholds.

### Travel Nutrition

Concept: Dietary planning for trips. Related terms: Portable meals, Food safety, Hydration on the go. Explanation: Maintaining a high-fiber diet while traveling can be challenging due to limited food options. Example: Packing roasted chickpeas and whole-grain crackers for a road trip. Practical application: Provide a checklist of fiber-rich snacks that are travel-friendly. Challenges: Access to clean water, cultural food

differences, time constraints.

#### Vitamin D Supplementation

Concept: Enhancing serum 25-OH-vitamin D levels. Related terms: Bone health, Immune modulation, Seasonal deficiency. Explanation: Adequate vitamin D may support immune response and reduce inflammation in diverticular disease. Example: 2000 IU cholecalciferol daily during winter months. Practical application: Check baseline levels; re-check after 3 months of supplementation. Challenges: Hypercalcemia risk; patient adherence.

#### Weight Management

Concept: Controlling body mass to reduce disease risk. Related terms: Caloric deficit, Portion control, Physical activity. Explanation: Weight loss of 5–10% can lower intra-abdominal pressure and improve metabolic profile, decreasing diverticulitis recurrence. Example: Patient reduces daily intake by 500 kcal, loses 3 kg over 6 weeks. Practical application: Combine diet plan with moderate aerobic exercise (150 min/week). Challenges: Plateaus, hunger, psychosocial factors.

#### Whole-Grain Products

Concept: Cereals retaining bran and germ. Related terms: Whole-grain bread, Brown rice, Oats. Explanation: Provide insoluble and soluble fiber, vitamins, and minerals beneficial for colonic health. Example: Replacing white bread with 100% whole-grain bread. Practical application: Encourage gradual substitution to improve tolerance. Challenges: Higher cost, longer cooking times, initial gastrointestinal discomfort.

#### Yield of Colonoscopy

Concept: Diagnostic value obtained from the procedure. Related terms: Detection rate, Therapeutic colonoscopy, Missed lesions. Explanation: In post-diverticulitis colonoscopy, the yield for identifying neoplasia is approximately 5-10%. Example: Colonoscopy reveals an early-stage adenoma in 1 of 20 patients. Practical application: Emphasize the importance of the exam to patients reluctant due to dietary restrictions. Challenges: Patient fear, bowel preparation intolerance, limited endoscopy slots.