



Functional Physiology, Dysfunctions, and Assessments of the G.I. and Gallbladder – a 3-part Webinar Series

*The Functional Diagnosis Webinars With
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Dysfunctions of the G.I. & Biliary System Webinar Part 2

Functional Disorders- Upper GI

- Hypochlorhydria
- H. pylori
- Gastric inflammation
- Pancreatic Insufficiency

Hypochlorhydria - Causes

- Aging
- Stress
- Carbohydrates
- Zinc and Thiamine Deficiency
- Drugs
- Lack of protein in diet

Hypochlorhydria - Effects

- Poor digestion
- Pancreatic insufficiency
- Reduced absorption of nutrients
- Nutrient deficiencies
- Increased bacterial infections
- H. pylori infections and ulcers

Hypochlorhydria – S/SX

- Gas, belching, bloating
- Heartburn
- Nail problems
- Hair loss
- Acne rosacea
- Iron deficiency anemia

Hypochlorhydria - Dzs

- Diabetes
- Childhood asthma
- Thyroid dysfunction
- Skin conditions
- Osteoporosis
- Chronic atrophic gastritis

Helicobacter pylori infection

- Causes
- How it develops
- Conditions associated with it

Gastric Inflammation - Causes

- Asprin and NSAIDS
- Alcohol
- Stress
- Hypochlorhydria

Gastric Inflammation - Symptoms

- Epigastric pain
- Poor appetite
- Heartburn
- **Long Term Effects**

Pancreatic Insufficiency - Causes

- SAD diet
- Overeating
- Insufficient protein
- Insufficient fiber
- Systemic acidosis

Pancreatic Insufficiency - Symptoms

- Diarrhea
- Indigestion
- Acne
- Hypoglycemia

Functional Disorders of Hepato-Biliary System

- Biliary stasis or insufficiency
- Biliary Obstruction and Gallstones
- Fat digestion problems
- EFA insufficiencies

Biliary Insufficiency - Causes

- Changes in metabolism
- Diseases that affect gallbladder function
- Diseases that reduce the number of hepatocytes

Biliary Stasis - Causes

- Supersaturation of bile
- Decrease in bile acid formation
- Decrease in phosphatidylcholine secretion

Biliary Stasis - Problems

- Accumulation of toxins
- Digestive disorders
- Poor fat soluble vitamin absorption
- EFA deficiency
- Increased risk of gallstones

Biliary Obstruction

- Leads to cholestasis
- Intrahepatic obstruction
- Extrahepatic obstruction

Functional Disorders of S.I.

- Dysbiosis:
 - Bacteria, Viruses, Parasites, Yeast
- Bowel toxemia
- Malabsorption
- Intestinal Hyperpermeability

Dysbiosis - Causes

- Antibiotic therapy
- Hypochlorhydria
- Xenobiotics such as chemicals and heavy metals
- Exposure to pathogens/parasitic infections
- Pancreatic insufficiency
- Slow bowel transit time/bowel stasis
- Poor immune function and low intestinal secretory IgA

Dysbiosis - Symptoms

- Unexplained abdominal symptoms
- Frequent stools
- Intolerance to sugar, starchy foods, fiber
- General flatulence
- Bloating associated with eating
- Constant fatigue

Dysbiosis - Dzs

- IBS and IBD
- Inflammatory disorders
- Food allergies
- Breast and colon cancer
- Atopic eczema
- Malnutrition

Bowel Toxemia

- Definition
- G.I. toxins and associated conditions
 - Histamine
 - Putricene and cadaverine
 - Ammonia
 - Indol
 - Skatole

Bowel Toxemia - Causes

- Poor digestion
- Slow bowel transit time
- Constipation
- Exposure to excessive chemicals
- Abnormal bowel flora

Bowel Toxemia - Symptoms

- Gas, Diarrhea, Constipation, Bad breath, Bloating, Weight gain
- Allergies, Asthma, Arthritis, Headaches, Skin conditions
- Nervous system problems
- Colon toxicity which is directly associated with low back pain and sciatica.

Malabsorption - Causes

- Celiac disease
- Lactose intolerance
- Enzyme deficiency
- Diarrhea
- Intestinal Infections
- Gastritis

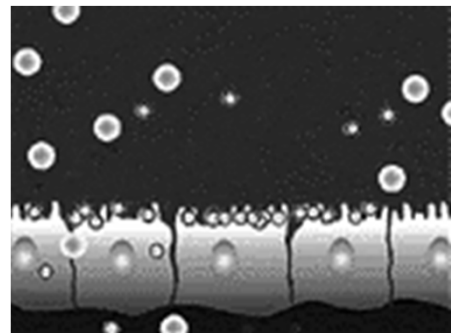
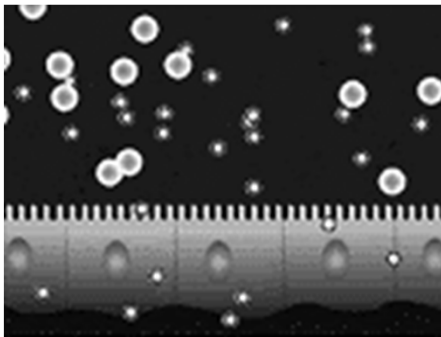
Malabsorption - Symptoms

- Steatorrhea
- Diarrhea
- Bloating
- Flatulence
- Cramping
- Weight loss

Malabsorption - Dzs

- Celiac disease
- Crohn's disease
- Giardiasis
- Lactose intolerance

Intestinal Hyperpermeability



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Intestinal Hyperpermeability & Common Conditions

- Asthma
- Food allergies
- Chronic sinusitis
- Eczema
- Urticaria
- Migraine
- Irritable bowel (IBS)
- Fungal disorders
- Fibromyalgia
- Inflammatory joint disorders including rheumatoid arthritis
- PMS
- Uterine fibroids
- Fibrocystic Breast Disease

Intestinal Hyperpermeability - Causes

- Antibiotics
- NSAIDS
- Chemotherapy
- Alcohol
- Secretory IgA deficiency
- Stress
- Celiac

Intestinal Hyperpermeability - Dzs

- Inflammatory bowel disease
- Crohn's disease
- Inflammatory joint disease
- Celiac disease
- Food allergies
- Auto-immune diseases
- HIV infection and AIDS

Functional Disorders of L.I.

- Constipation- sluggish colon
- Diarrhea
- Dysbiosis
- Bowel toxemia
- Yeast

Summary