





What is GERD?

Gastroesophageal Reflux Disease (GERD) is a chronic condition in which contents from the stomach—acid, bile, enzymes, and partially digested food—flow backward (reflux) into the esophagus, causing irritation, inflammation, and a range of symptoms. GERD is more than just heartburn; it reflects deeper dysfunction in the digestive system that can have many root causes.

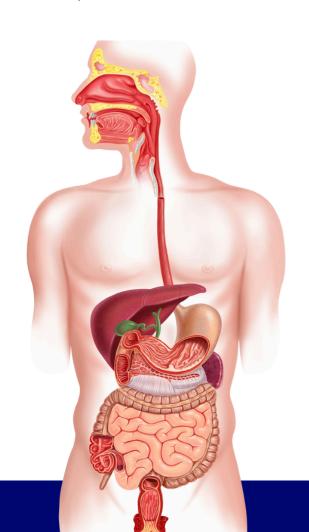
From a functional medicine and naturopathic perspective, GERD is viewed not merely as an acid-excess issue, but as a multi-factorial problem involving poor motility, microbial imbalances, mucosal integrity, and digestive insufficiency.

Symptom Assessment

The initial step typically includes an evaluation of symptoms like heartburn, regurgitation, and dysphagia (difficulty swallowing). A healthcare provider may inquire about how often these symptoms occur, their duration, and their intensity.

Medical History

A comprehensive medical history is essential to eliminate other conditions that may resemble GERD symptoms. Factors such as prior medication use, lifestyle choices, and family history are also taken into account.





Conventional Diagnostic Tools

Upper Endoscopy (EGD)

A flexible camera-equipped tube is passed through the throat to inspect the esophagus, stomach, and duodenum. This helps detect:

- Esophagitis (inflammation)
- Ulceration
- Barrett's esophagus (pre-cancerous changes)
- Hiatal hernia

It is often used when:

- Symptoms are severe or persistent
- Alarm features like dysphagia (difficulty swallowing), anemia, weight loss, or bleeding are present

24-48 Hour pH Monitoring

This test tracks acid levels in the esophagus via a small catheter or wireless capsule (Bravo). It identifies:

- Frequency and duration of reflux events
- Association with symptoms (e.g., cough, chest pain, regurgitation)

Esophageal Manometry

Measures the strength and coordination of the esophageal muscles and LES (lower esophageal sphincter) during swallowing. Useful for ruling out:

- Achalasia
- Nutcracker esophagus
- Ineffective esophageal motility

Barium Swallow Radiograph

Involves drinking a contrast solution and taking a series of X-rays. Helps visualize:

- Anatomical abnormalities
- Hiatal hernia
- Esophageal strictures or delayed emptying

Other Specialized Tests

- Impedance Monitoring: Detects non-acidic reflux, including bile and pepsin flow.
- Bernstein Test: Instills acid into the esophagus to see if it reproduces symptoms—rarely used now, but may help differentiate GERD from functional heartburn.

Functional & Naturopathic Diagnostic Approaches

These tests seek to uncover root causes often missed by conventional diagnostics.

GI-MAP or Comprehensive Stool Analysis

These tests evaluate:

- H. pylori (and its virulence factors like CagA, VacA)
- Dysbiosis or pathogen overgrowth
- Pancreatic function (elastase)
- Steatocrit (fat in stool) to assess bile and enzyme sufficiency
- Beta-glucuronidase, inflammatory markers, slgA

Relevance:

- Identifies H. pylori suppression of acid
- Detects inflammation that weakens the esophageal barrier
- Reveals low mucosal immunity, which increases reflux risk

SIBO Breath Test

Assesses overgrowth of hydrogen- or methaneproducing bacteria in the small intestine. Especially useful in:

- Patients with bloating, burping, GERD, and constipation or diarrhea
- Those who feel worse after starches or fiber Relevance:
 - SIBO contributes to gas buildup and increased intra-abdominal pressure, a key mechanical driver of reflux.



Functional & Naturopathic Diagnostic Approaches

Organic Acids Test (OAT)

Measures byproducts of microbial fermentation, mitochondrial function, detoxification capacity, and nutrient metabolism.

Key clues:

- Elevated benzoate, hippurate (gut dysbiosis)
- Low B vitamins (needed for mucosal healing)
- Yeast/fungal markers (e.g., arabinose)
- Indicators of motility dysfunction

Zinc and B12 Testing

Low levels are commonly seen in chronic PPI users and are associated with:

- Weak gastric acid production
- Delayed wound healing of the esophageal lining

Serum Gastrin & Pepsinogen Testing

- · High gastrin may suggest achlorhydria
- Pepsinogen I/II ratio may indicate atrophic gastritis

Thyroid and Adrenal Panels

- Hypothyroidism can reduce gastric motility and LES tone
- Adrenal dysfunction impacts mucosal healing and vagal tone
- Adrenal dysfunction impacts mucosal healing and vagal tone





Clinical Criteria for a GERD Diagnosis

Gastroesophageal Reflux Disease (GERD) is typically diagnosed based on a combination of clinical symptoms, response to treatment, and confirmatory testing when needed.

Clinical Definition

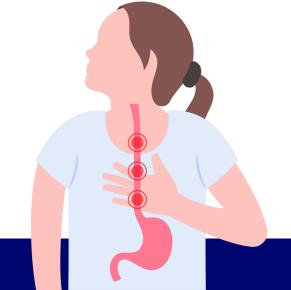
According to the Montreal Consensus and Rome IV criteria, GERD is defined as:

- The presence of troublesome reflux symptoms (heartburn and/or regurgitation) occurring two or more times per week
- And/or mucosal damage confirmed by endoscopy.

These symptoms must impact quality of life or result in complications such as esophagitis, Barrett's esophagus, or respiratory manifestations.

Key Diagnostic Indicators

- Heartburn (burning sensation behind the sternum) or regurgitation persisting for ≥4-8 weeks
- Symptom improvement with acid-suppressing therapy, such as proton pump inhibitors (PPIs), is suggestive—but not definitive, as non-acid reflux or placebo effect may influence response
- Exclusion of alarm features (see below) that would require further workup or specialist referral



Differential Diagnosis Within the Reflux Spectrum

It's important to recognize that not all reflux-like symptoms are caused by classic acid GERD. Differentiating these presentations helps determine appropriate treatment approaches.

GERD (Erosive or Non-Erosive)

- Reflux of stomach contents into the esophagus
- May cause erosive esophagitis, or remain non-erosive but still symptomatic
- Often linked to LES dysfunction, delayed gastric emptying, or abdominal pressure

Functional Heartburn

- Symptoms mimic GERD (burning, discomfort) but no acid exposure or inflammation is detected
- Normal esophageal pH and motility studies
- Often driven by visceral hypersensitivity, stress, or altered pain perception

Laryngopharyngeal Reflux (LPR or Silent Reflux)

- Reflux affects the throat, vocal cords, or upper airway
- Often no heartburn is present
- Symptoms may include chronic cough, throat clearing, hoarseness, or post-nasal drip
- More difficult to diagnose—often treated empirically

Red Flag Symptoms Requiring Urgent Referral

Even when pursuing a functional or naturopathic approach, it's essential to recognize when additional investigation or referral to a gastroenterologist is appropriate:

- Unintentional weight loss
- Difficulty swallowing (dysphagia) or pain with swallowing (odynophagia)
- Persistent vomiting, especially if food or blood is present
- Black, tarry stools (melena) or vomiting blood (hematemesis)
- Persistent cough, laryngitis, or unexplained asthma-like symptoms
- Iron-deficiency anemia of unknown cause
- Symptoms that worsen despite treatment or recur immediately after stopping medications

These may indicate serious complications such as ulcers, strictures, Barrett's esophagus, or esophageal cancer.

GERD as a Systemic, Multifactorial Condition

While GERD is often viewed as a localized esophageal issue, a functional and naturopathic perspective considers broader systemic contributors:

- Low stomach acid (hypochlorhydria) → poor digestion and LES dysfunction
- Gut-brain axis dysregulation → stress and vagal tone influence motility
- Hormonal imbalances → estrogen dominance or hypothyroidism can delay gastric emptying
- Mitochondrial insufficiency → energy-dependent processes like digestion and sphincter control are compromised
- Immune activation and inflammation → chronic lowgrade inflammation affects tissue repair and barrier function
- Microbiome imbalances → SIBO, H. pylori, and dysbiosis may increase gas pressure and inflammation

Recognizing these connections helps move beyond symptom suppression and toward personalized root-cause resolution— the hallmark of functional and naturopathic care.





Find resources and stay connected: IMAhealth.org

