INE | INSTITUTE OF NUTRITIONAL ENDOCRINOLOGY

Blood Chemistry: Digestion

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Medical Disclaimer: The information in this presentation is not intended to replace a one-on-one relationship with a qualified health care professional and is not intended as medical advice. It is intended as a sharing of knowledge and information from the research and experience of Dr. Ritamarie Loscalzo, drritamarie.com, and the experts who have contributed. We encourage you to make your own health care decisions based upon your research and in partnership with a qualified health care professional.

Low Stomach Acid

- ✓ BUN (hi or lo)
- ✓ Chloride (lo)
- ✓ Carbon Dioxide (hi)
- ✓ Calcium (lo)
- ✓ Phosphorus (lo)
- ✓ Protein (lo)
- ✓ Albumin (lo)
- ✓ Globulin (hi)
- ✓ Iron (lo)
- ✓ Hemoglobin (lo)
- ✓ MCV (hi)
- ✓ MCH (hi)
- ✓ MCHC (hi)
- ✓ Uric Acid (lo)
- ✓ Ferritin (lo)

Stomach

Hypochlorhydria

- Total Protein +/-
- Globulin +/-
- BUN +/-
- Phosphorus -
- Creatinine -
- Iron -
- Calcium -

PLUS

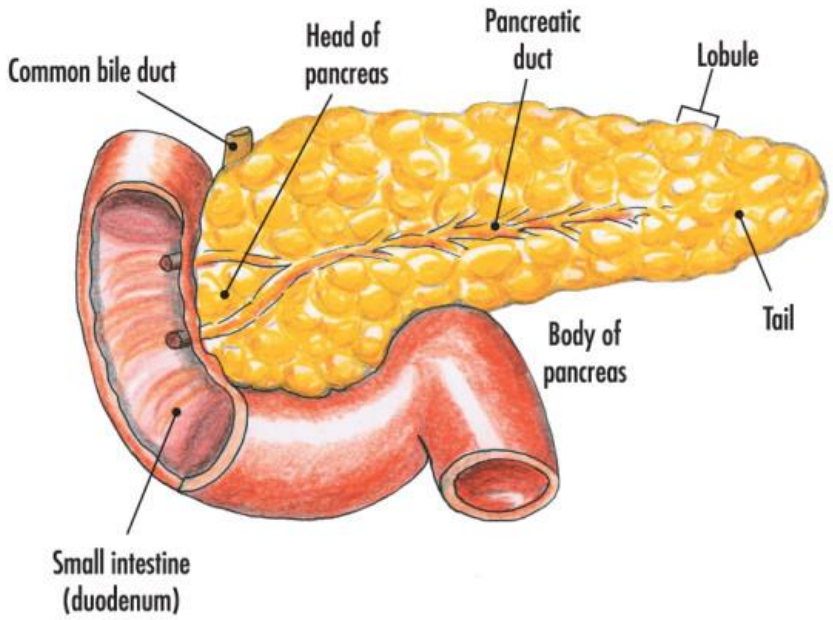
Helicobacter Pylori

- WBC +/-
- Neutrophil +
- Monocytes normal to +
- Lymphocytes -
- Special testing for H. Pylori and Urea Breath Test

Markers	Units	PATHOLOGICAL RANGE	FUNCTIONAL RANGE	12/22/09
Total Protein	G/dl	6.2-8.3	6.9-7.4	7
Albumin	G/dl	3.8-5.0	4.0-5.0	4.1
Globulin	G/100 ml	2.0-3.8	2.4-2.8	2.9
BUN	mg/dL	8-28	13-18	7
Phosphorus	mg/dL	2.3-4.8	3.5-4.0	4.4
Creatinine	mg/dL	0.5-1.2	0.7-1.1	0.7
Iron	ug/dl	40-180	85-130	16

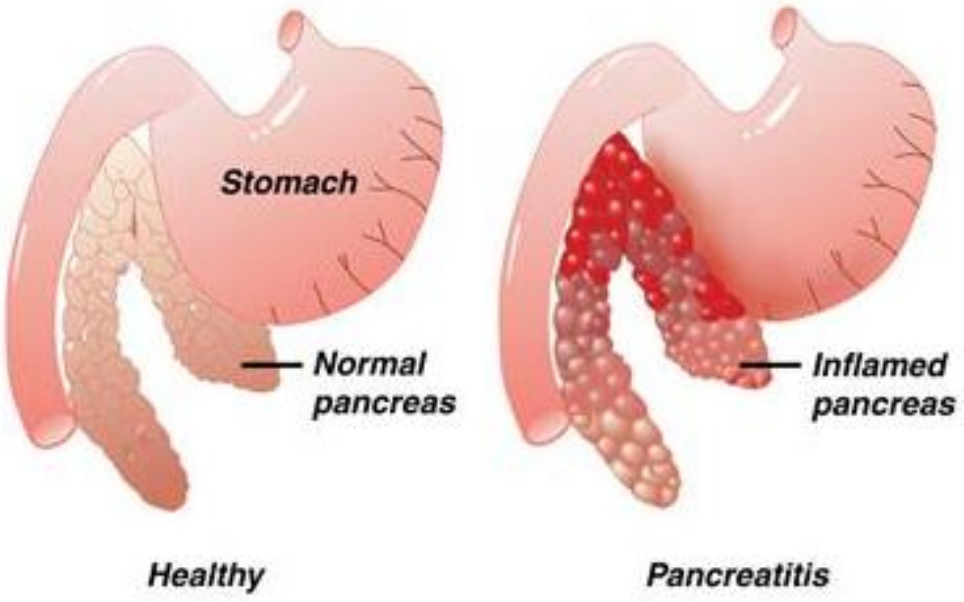
Small Intestine and Pancreas

- ✓ Uric Acid (hi)
- ✓ BUN (lo)
- ✓ Creatinine (lo)
- ✓ Protein (lo)
- ✓ Globulin (lo): GI inflammation
- ✓ Alkaline phosphatase (lo)
- ✓ Alkaline Phosphatase (hi): leaky gut
- ✓ GGT (lo): malabsorption
- ✓ Hematocrit (lo): inflammation



Pancreatitis

- ✓ Glucose +
- ✓ Triglycerides +
- ✓ Alkaline Phosphatase +
- ✓ Lipase +
- ✓ Amylase +
- ✓ GGTP +
- ✓ SGOT normal to +
- ✓ SGPT normal to +
- ✓ Albumin -



Large Intestine

- ✓ Eosinophils + parasites
- ✓ Sodium low
  – possible laxative use

For in-depth look, need to do:

- ✓ Comprehensive stool and digestive analysis
- ✓ Parasitology
- ✓ Organic Acids Test (OAT) has markers for dysbiosis