



Blood Chemistry: Digestion

Dr. Ritamarie Loscalzo

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



Stomach

| <p>Hypochlorhydria</p> <ul style="list-style-type: none"> • Total Protein +/- • Globulin +/- • BUN +/- • Phosphorus - • Creatinine - • Iron - • Calcium - | <p>Helicobacter Pylori</p> <ul style="list-style-type: none"> • WBC +/- • Neutrophil + • Monocytes normal to + • Lymphocytes - • Special testing for H. Pylori and Urea Breath Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------|------------------|--------------------|------------------|----------|---------------|------|---------|----------|---|---------|------|---------|---------|-----|----------|------|---------|---------|-----|-----|-------|------|-------|---|------------|-------|---------|---------|-----|------------|-------|---------|---------|-----|------|-------|--------|--------|----|
| PLUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Markers</th> <th>Units</th> <th>PATHOLOGICAL RANGE</th> <th>FUNCTIONAL RANGE</th> <th>12/22/09</th> </tr> </thead> <tbody> <tr> <td>Total Protein</td> <td>g/dL</td> <td>6.0-8.3</td> <td>8.8-12.4</td> <td>7</td> </tr> <tr> <td>Albumin</td> <td>g/dL</td> <td>3.8-5.0</td> <td>4.0-5.0</td> <td>6.1</td> </tr> <tr> <td>Globulin</td> <td>g/dL</td> <td>2.0-3.8</td> <td>2.4-2.8</td> <td>2.9</td> </tr> <tr> <td>BUN</td> <td>mg/dL</td> <td>8-28</td> <td>13-18</td> <td>7</td> </tr> <tr> <td>Phosphorus</td> <td>mg/dL</td> <td>2.3-4.8</td> <td>3.5-4.0</td> <td>4.4</td> </tr> <tr> <td>Creatinine</td> <td>mg/dL</td> <td>0.5-1.2</td> <td>0.7-1.1</td> <td>0.7</td> </tr> <tr> <td>Iron</td> <td>ug/dL</td> <td>40-180</td> <td>85-130</td> <td>16</td> </tr> </tbody> </table> | | Markers | Units | PATHOLOGICAL RANGE | FUNCTIONAL RANGE | 12/22/09 | Total Protein | g/dL | 6.0-8.3 | 8.8-12.4 | 7 | Albumin | g/dL | 3.8-5.0 | 4.0-5.0 | 6.1 | Globulin | g/dL | 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 |
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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

