Major causative factors of degenerative health originate in the stomach and can eventually radiate outwards, affecting the circulatory system. As we age, we produce far less of the digestive enzymes needed to maintain optimal health. The gradual breakdown of the intestinal lining coupled with hindered digestion can allow contaminates such as undigested food particles to enter the bloodstream. These contaminates accumulate over time, causing the blood to become thick and abrasive, eventually leading to circulatory and autoimmune complications. Neprinol, by Arthur Andrew Medical, is a blend of all-natural enzymes that break down harmful blood components such as excess fibrin and food particulates as well as assist in restoring blood to its naturally pure state. Enzymes essentially purify and soften blood plasma, reducing stress on the arterial walls while supporting the immune system.

WHAT IS FIBRIN?
Fibrin is a protein formed in the human body that can significantly impact our health and general well-being. Fibrin is documented to be responsible for the formation of scar tissue and thrombus (blood clots). The body’s inherent fibrin removal process is accomplished by the naturally occurring enzyme plasmin. Plasmin is our body's natural blood thinner, responsible for maintaining normal blood solvency by removing unnecessary accumulated proteins. This natural process can be enhanced by introducing fibrinolytic (fibrin-degrading) enzymes such as those in Neprinol. Serrapeptase is an exceptional fibrinolytic enzyme, able to digest and liquefy large amounts of fibrotic tissue. This dissolved tissue may accumulate over time, thickening the blood, making it necessary to include the potent enzyme Nattokinase. This enzyme, produced by Bacillus subtilis, has been clinically shown to be 4 times more potent than plasmin itself and can help modulate blood viscosity by dissolving these degraded tissue cells.

A NEW APPROACH TO HEART HEALTH
Healthy adults can now be proactive with their health and reduce the risk of many common circulatory conditions by taking the enzymes Nattokinase and Serrapeptase found in Neprinol. These enzymes can substantially lower C-reactive protein levels (CRP), an inflammatory marker linked to heart disease. A clinical trial involving 18,000 healthy patients with normal cholesterol found that elevated levels of CRP were associated with a threefold increase in the risk of heart disease. Unlike taking a daily regimen of aspirin, Neprinol thins the blood by removing unwanted debris. In addition, Neprinol is a good source of antioxidants, has no gastrointestinal side effects, and does not put stress on the liver and kidneys.

IS NEPRINOL ENTERIC COATED?
Instead of using phthalates (plastic) or chemicals commonly found in enteric coatings, Neprinol utilizes new Acid Armor capsule technology. Acid Armor capsules have no additional components in comparison to a typical vegetable capsule; their action is simply the result of smarter engineering. These capsules are designed to break down slowly, allowing for a more controlled release of their contents. This controlled release provides protection from the acidic pH of the stomach without the use of potentially harmful chemicals such as those found in enteric coatings. The capsules are made from dense vegetable cellulose in addition to a micro-threaded locking mechanism which prevents premature leakage of the capsule's contents.

SYSTEMIC ENZYME DEFICIENCY
There are thousands of catalytic processes taking place between tissues and fluids in living plants and animals each day. These processes can occur only as a result of enzymatic reactions. Ancient men and women received enzymes from their diet via vegetables, fruits and other raw foods, nature's richest sources of enzymes. Unfortunately, however, even moderate temperatures at which most foods are cooked destroy enzymes. Although enzymes are found most active in raw foods, the majority of
THE DARK SIDE OF TISSUE REPAIR

When scientists examine the most age related illnesses including heart disease, stroke, cancer, diabetes, kidney disorders and arthritis—similar underlying causes can be found. All of these conditions are characterized by insidious scarring and fibrosis that is caused by the over-secretion of growth factors. Scarring is defined as a hardening of a bodily tissue (such as the coronary arteries, i.e., arteriosclerosis) or an increase of connective tissue at the expense of more active tissue. Meanwhile, fibrosis is very similar to scarring, involving development of excess fibrous tissue in an organ (such as kidney fibrosis). Fibrosis can be detected in a number of ways, but is most noticeable with the pain associated with high levels of inflammation. Health experts have different ways of measuring the progression of these unfavorable bodily processes. For example, Dr. Bannock uses digital video blood microscopy which shows doctors whether blood has excess fibrin, oxidative stress and excessive white blood cell counts. Such indicators almost always indicate rheumatoid and osteoarthritis, as well as other negative health conditions. Creativity protein (CRP) measurements were taken to determine bodily inflammation levels of the patients in the study. Increased CRP levels are often an indication of unhealthy fibrin activity, causing the blood to abnormally clot, increasing risk of heart attacks and strokes. Doctors have also associated high CRP with increased risk for heart disease.

Another test used in the study was measuring erythrocyte sedimentation rate (ESR). In this test a blood sample is taken and put in a tube with chemicals which prevent the blood from clotting. The tube is left to stand upright. The red blood cells (erythrocytes) gradually fall to the bottom of the tube as a "sediment." The clear liquid plasma is left at the top. The ESR measures the rate at which the red blood cells separate from the plasma and fall to the bottom of a test tube. The rate is measured in millimeters per hour (mm/hr). If certain proteins cover red cells, these will stick to each other and cause the red cells to fall more quickly. A high ESR indicates inflammation somewhere in the body. With age also comes fibrosis. Wrinkling and elastosis (loss of skin elasticity) are all outer signs of fibrosis. What is happening on the inside, too—to arteries, kidneys, lungs and other tissues and organs. Both scarring and fibrosis proceed with almost uncanny determination by the time a person reaches 40 and eventually affect virtually every tissue and organ in the body.

UNDERSTANDING LIVE BLOOD VIDEO MICROSCOPY

Video microscopy of live and dried layered blood analysis is a unique technique used to formulate an appropriate course of natural health-building and lifestyle principles to optimize health, prevent disease, and to monitor individual effectiveness. This technique uses live, not preserved blood, with higher magnification than conventional methods. The live blood images below and throughout the rest of this report reflect several types of live blood video microscopy. The first three images in each four-image set utilize phase contrast and dark field microscopy. In these, the clinician searches for fibrin spicules, which should not appear in live blood at all. "It indicates that the balance between hemostasis and fibrinolysis is too much in favor of clotting," says Dr. Bannock. Additionally, cholesterol and mycoplasma organisms can also be viewed in the blood. The last image in each four-image set is Dried Layered Blood Analysis to examine the coagulation cascade. This application of viewing dried suspended blood samples offers the qualified analyst and client valuable clues to potential degenerative patterns. The use of digital microscopy and live blood analysis have been criticized by some of in medical community. The reason for this is two-fold. The interpretation of dark field images as well as the handling of the specimen must be done with great care to get accurate results. The use of blood analysis has little or no use when prescribing pharmaceutical drugs for the alleviation of arthritis and related conditions. This is mainly the reason it has not been widely accepted in the medical community. It is however a useful tool in clinical nutrition. Blood analysis helps pinpoint deficiencies and abnormalities in the blood. It is very effective for a nutritionist involved in prescribing the nutritional regimen to restore normal values that may otherwise seem normal.

CLINICAL STUDIES

Discovery Health Channel host Laurent Bannock, D.Sc., has completed a multi-patient study at the Santa Fe Center for Nutritional Medicine, to examine the ability of Neprinol to help the body maintain healthy fibrin activity and inflammation levels. His study results, thus far, deal particularly with patients who complained primarily of osteoarthritis symptoms, a known inflammatory condition, as well as the even more inflammatory rheumatoid arthritis and health challenges involving cholesterol and insulin response. Neprinol combines key enzymes and synergists, such as nattokinase, serrapeptase, protease, papain, bromelain, rutin, amla and lipase (with coenzyme Q10).
Neprinol Case Study #1

Study Subject: 45-year-old male construction worker recently diagnosed with osteoarthritis.

INITIAL VISIT
Subjective: Chronic pain and inflammation of the wrist and elbow joints (both arms). Uses over-the-counter ibuprofen for relief, regularly.

Objective: Lab tests showed very high C-reactive protein, high ESR, high platelets and high globulin values. Digital video blood microscopy showed significant protein polymerization (oxidative stress that causes high ESR levels), raised platelets, raised poikilocytes (variably shaped cells, which are seen in iron deficiency anemia), raised fibrin and raised white blood cells (WBCs, an indication of an unhealthy immune system).

Treatment: Three Neprinol capsules, twice a day, between meals. Advised to discontinue ibuprofen usage. No other medications or supplements were recommended (for the purposes of the study).

TWO MONTH FOLLOW-UP VISIT
Subjective: Still had some pain and inflammation of wrists and elbows, but reports symptoms to be markedly improved.

Objective: Lab tests showed slightly raised C-reactive protein, high ESR, normal platelets, slightly raised globulin values. Digital video blood microscopy showed moderate protein polymerization (oxidative stress), slightly raised platelets, slightly raised poikilocytes, normal fibrin and slightly raised WBCs.

Treatment: Three Neprinol capsules, twice a day, between meals. Has discontinued ibuprofen usage.

FOUR MONTH FOLLOW-UP VISIT
Subjective: Completely pain and inflammation free. No longer uses ibuprofen at all!

Objective: Lab tests showed normal C-reactive protein, slightly high ESR, normal platelets and normal globulin values. Digital video blood microscopy showed slight protein polymerization (oxidative stress), normal platelets, very few poikilocytes, no fibrin and normal white blood cells.

Treatment: Two Neprinol capsules twice daily, between meals.

SIX MONTH FOLLOW-UP VISIT
Subjective: Still completely pain and inflammation free.

Objective: Lab tests are normal. Digital video blood microscopy is normal.

Treatment: One Neprinol capsule twice daily, between meals.

<table>
<thead>
<tr>
<th>Lab Test Values (Blood)</th>
<th>For Neprinol Case Study #1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lab Test</strong></td>
<td>Initial Visit</td>
</tr>
<tr>
<td>C-reactive protein Low = &lt; 1.0 Average = 1.0-3.0 High = 3.1-10.0 Persistent Inflammation = &gt; 10</td>
<td>13.7 mg/L</td>
</tr>
<tr>
<td>ESR Normal Values for Males: 0-15 mm/hour</td>
<td>173 mm/hour</td>
</tr>
<tr>
<td>Platelets Normal Values: 155-385 x 10^3/mm³</td>
<td>397 x 10^3/mm³</td>
</tr>
<tr>
<td>Globulin Normal Values: 2.0-3.9 g/dl</td>
<td>4.2 g/dl</td>
</tr>
</tbody>
</table>
**Neprinol Case Study #2**

Study Subject: 67-year-old female retired administrator, diagnosed with rheumatoid arthritis five years ago.

**INITIAL VISIT**

Subjective: Pain, inflammation and discomfort, and partial loss of all joint functions. Has been using NSAIDs (nonsteroidal anti-inflammatory drugs, such as aspirin or ibuprofen) since diagnosis five years ago. The NSAIDs only provide partial relief of symptoms. Has also been taking fish oils and glucosamine supplements for one year with some benefit to all symptoms.

Objective: Lab tests showed high uric acid, high ESR, raised C-reactive protein and low albumin values. Digital video blood microscopy showed significant protein polymerization and fibrin.

Treatment: Five Neprinol capsules, three times daily, between meals. The subject continued existing meds and supplements.

**TWO MONTH FOLLOW-UP VISIT**

Subjective: Notices a difference by slight improvement in joint function and greater relief. Objective: Lab tests showed slightly improved ESR values, normal C-reactive protein, similar uric acid values and slightly improved (but still low) albumin values. Digital video blood microscopy showed a reduction in protein polymerization and a significant drop in fibrin. Treatment: Five Neprinol capsules, three times daily, between meals. The subject continued existing meds and supplements.

**FOUR MONTH FOLLOW-UP VISIT**

Subjective: Reports significant improvements in joint function and significant relief. Wants to try and come off NSAIDs.

Objective: Lab tests showed nearly normal ESR values, slightly high uric acid values, normal C-reactive protein and normal albumin values. Digital video blood microscopy showed slight protein polymerization and virtually no fibrin.

Treatment: Five Neprinol capsules, three times daily, between meals. The subject continued supplements and is starting to reduce NSAIDs.

**SIX MONTH FOLLOW-UP VISIT**

Subjective: Continues to notice improvements in joint function and relief of pain and inflammation. Has been off NSAIDs for one month. Reports that quality of life has significantly improved!

Objective: Lab tests showed that uric acid values are slightly high, with normal ESR, C-reactive protein and albumin values. Digital video blood microscopy is nearly normal with very slight polymerization.

Treatment: Five Neprinol capsules, three times daily, between meals. The subject continued supplements, and has discontinued NSAIDs.

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**Lab Test Values (Blood)**

For Neprinol Case Study #2

<table>
<thead>
<tr>
<th>Lab Test</th>
<th>Initial Visit</th>
<th>2-Month Visit</th>
<th>4-Month Visit</th>
<th>6-Month Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uric Acid</td>
<td>8.4 mg/dl</td>
<td>8.1 mg/dl</td>
<td>79 mg/dl</td>
<td>8.0 mg/dl</td>
</tr>
<tr>
<td>C-reactive protein</td>
<td>6.4 mg/L</td>
<td>3.0 mg/L</td>
<td>2.7 mg/L</td>
<td>2.7 mg/L</td>
</tr>
<tr>
<td>Low = &lt; 1.0 Average = 1.0-3.0 High = 3.1-10.0 Persistent Inflammation = &gt; 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESR Normal Values for Females: 0-20 mm/hour</td>
<td>22.7 mm/hour</td>
<td>21.8 mm/hour</td>
<td>17.5 mm/hour</td>
<td>12.4 mm/hour</td>
</tr>
<tr>
<td>Albumin Normal Values: 2.0-3.9 g/dl</td>
<td>2.6 g/dl</td>
<td>2.9 g/dl</td>
<td>3.6 g/dl</td>
<td>4.0 g/dl</td>
</tr>
</tbody>
</table>
Neprinol Case Study #3

Study Subject: 44-year-old male company executive, just diagnosed with hyperlipidemia (high cholesterol). Does not want to take cholesterol-lowering drugs. No supplements are currently being taken.

**INITIAL VISIT**

Subjective: No perceived symptoms.

Objective: Lab tests showed high triglycerides, high cholesterol, high low-density lipoproteins (LDLs, the bad cholesterol) and low high-density lipoproteins (HDLs, the good cholesterol).

Digital video blood microscopy showed raised triglyceride crystals, raised poikilocytes, raised bicarbonate buffers and significant protein polymerization.

Treatment: Three Neprinol capsules, twice daily, between meals.

**TWO MONTH FOLLOW-UP VISIT**

Subjective: No perceived symptoms, but reports that he has more energy and has lost some weight (four pounds).

Objective: Lab tests showed slightly improved triglycerides, cholesterol, LDLs and HDLs, but all remain out of healthy range. Digital video blood microscopy showed a reduction in triglyceride crystals, no bicarbonate buffers (normal), slight polymerization and slight poikilocytes.

Treatment: Three Neprinol capsules, twice daily, between meals.

**FOUR MONTH FOLLOW-UP VISIT**

Subjective: No perceived symptoms. Continues to feel more energy and continues to lose weight (eight pounds).

Objective: Lab values for triglycerides, cholesterol, LDLs and HDLs continue to improve, but remain slightly out of healthy range. Digital video blood microscopy showed some poikilocytes, otherwise all normal.

Treatment: Three Neprinol capsules, twice daily, between meals.

**6 MONTH FOLLOW-UP VISIT**

Subjective: No perceived symptoms. Has maintained weight loss and good energy levels.

Objective: Lab tests were all within range. Digital video blood microscopy was normal.

Treatment: Two Neprinol capsules, twice daily, between meals.

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**Lab Test Values (Blood)**

For Neprinol Case Study #3

<table>
<thead>
<tr>
<th>Lab Test</th>
<th>Initial Visit</th>
<th>2-Month Visit</th>
<th>4-Month Visit</th>
<th>6-Month Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triglycerides</td>
<td>245 mg/dl</td>
<td>211 mg/dl</td>
<td>176 mg/dl</td>
<td>121 mg/dl</td>
</tr>
<tr>
<td>Normal Values:</td>
<td>30-150 mg/dl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cholesterol</td>
<td>312 mg/dl</td>
<td>288 mg/dl</td>
<td>233 mg/dl</td>
<td>181 mg/dl</td>
</tr>
<tr>
<td>Normal Values:</td>
<td>130-200 mg/dl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LDL Cholesterol</td>
<td>154 mg/dl</td>
<td>149 mg/dl</td>
<td>138 mg/dl</td>
<td>111 mg/dl</td>
</tr>
<tr>
<td>Normal Values:</td>
<td>60-130 mg/dl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDL Cholesterol</td>
<td>28 mg/dl</td>
<td>33 mg/dl</td>
<td>39 mg/dl</td>
<td>53 mg/dl</td>
</tr>
<tr>
<td>Normal Values:</td>
<td>40-90 mg/dl</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Initial Visit**

Subjective: Perceived blood sugar problems, chronic fatigue, overweight, sleep problems (staying asleep and also always falling asleep during the day), chronically depressed.

Objective: Lab tests showed low blood glucose, high triglycerides, high cholesterol, low HDL, low serum phosphorous levels. Digital video blood microscopy showed slightly raised poikilocytes and some protein polymerization (oxidative stress).

Treatment: Three Neprinol capsules, four times daily, between meals.

**Two Month Follow-Up Visit**

Subjective: Significant improvement in perceived blood sugar levels, less fatigue, no significant weight loss, improved sleep and not falling asleep during the day as often. Not depressed all the time.

Objective: Lab tests showed slightly high blood glucose, slightly high triglycerides, slightly high cholesterol, slightly low HDL and normal serum phosphorous levels. Digital video blood microscopy showed some protein polymerization.

Treatment: Three Neprinol capsules, four times daily, between meals.

**Four Month Follow-Up Visit**

Subjective: No perceived blood sugar problems, almost normal energy levels, lost eight pounds in body fat, almost normal sleep patterns and rarely falls asleep during the day. Feels more confident!

Objective: Lab values normal! Digital video blood microscopy was normal.

Treatment: Three Neprinol capsules, four times daily, between meals.

**Six Month Follow-Up Visit**

Subjective: Continues to have no perceived blood sugar problems, mostly normal energy levels, sleeps well, cannot remember when last fell asleep during the day, has lost a further 12 pounds of body fat and is no longer overweight. Very happy and feels she has a renewed chance in life!

Objective: Lab tests were all still within range. Digital video blood microscopy was normal.

Treatment: Two Neprinol capsules, twice daily, between meals.

---

**Lab Test Values (Blood)**

For Neprinol Case Study #4

<table>
<thead>
<tr>
<th>Lab Test</th>
<th>Initial Visit</th>
<th>2-Month Visit</th>
<th>4-Month Visit</th>
<th>6-Month Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triglycerides Normal Values: 30-150 mg/dl</td>
<td>177 mg/dl</td>
<td>157 mg/dl</td>
<td>144 mg/dl</td>
<td>125 mg/dl</td>
</tr>
<tr>
<td>Cholesterol Normal Values: 130-200 mg/dl</td>
<td>232 mg/dl</td>
<td>206 mg/dl</td>
<td>198 mg/dl</td>
<td>187 mg/dl</td>
</tr>
<tr>
<td>HDL Cholesterol Normal Values: 40-90 mg/dl</td>
<td>31 mg/dl</td>
<td>39 mg/dl</td>
<td>44 mg/dl</td>
<td>61 mg/dl</td>
</tr>
<tr>
<td>Blood Glucose Normal Values: 65-115 mg/dl</td>
<td>61 mg/dl</td>
<td>65 mg/dl</td>
<td>71 mg/dl</td>
<td>73 mg/dl</td>
</tr>
<tr>
<td>Phosphorous Normal Values: 2.5-4.5 mg/dl</td>
<td>2.4 mg/dl</td>
<td>2.8 mg/dl</td>
<td>3.0 mg/dl</td>
<td>2.9 mg/dl</td>
</tr>
</tbody>
</table>