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Press Release

**UNIQUE SUGAR IS KEY TO IMPROVED RESULTS FOLLOWING
"OFF –PUMP" BYPASS SURGERY FOR HEART ATTACK
PATIENTS**

**Bioenergy Life Science's D-Ribose offers promising treatment for coronary
artery disease**

**Cardiology team presents findings at the 13th World Congress on Heart Disease
Sponsored by the International Academy of Cardiology**

MINNEAPOLIS, MN, AUG 22, 2007—People who have suffered heart attacks may require coronary artery bypass surgery. In some cases, they may be candidates for an alternative surgery using an "off-pump" cardiopulmonary bypass (OPCAB) technique, which eliminates the use of a heart-lung machine. Still, the surgery carries many risks due, in part, to a depletion of adenosine triphosphate (ATP), which cells use as their primary source of energy. But due to the damage caused by heart attacks the risks of surgery may be too high. But a new study¹ led by David Perkowski, MD, Susan Wagner, RN, and John St. Cyr, MD, PhD shows that heart attack off-pump bypass surgery patients who were pre-treated with an oral D-ribose supplement before surgery demonstrated significant improvements in their cardiac indices, a measure of heart pump function.

Dr. Perkowski and his colleagues recently presented the study at the 13th World Congress on Heart Disease in Vancouver, BC. "Our findings are particularly significant for increasing and maximizing the energy and integrity of the heart," explained Dr. Perkowski, Chief of Cardiothoracic Surgery at Saddleback Memorial Medical Center, Laguna Hills, CA. "OPCAB with supplemental D-ribose resulted in a 40% greater increase in cardiac indices post-operatively compared to the baseline, which has historically demonstrated a 13% improvement."

Cardiothoracic surgeon Perkowski is encouraged by the added benefit that D-ribose offers patients undergoing OPCAB, particularly for those with acute myocardial infarction, or heart attack. "There's always a risk with open heart surgery, but by incorporating the use of D-ribose we increased the vitality of the heart, which improved heart function," said Dr. Perkowski.

D-Ribose is a unique sugar made by the body to synthesize many important compounds, including DNA, RNA, and, most importantly, ATP, the "energy currency" of the cells. ATP is critical to health and maintaining normal energy-dependent body functions. Ribose is the essential component in the making of ATP.

D-Ribose has already been shown to increase functional capacity for patients with congestive heart failure (CHF) by improving diastolic heart function, ventilation, exercise capacity, and oxygen uptake efficiency.

In addition, another team presented an addition study² showing how D-ribose and folic acid aided right ventricular diastolic function in induced pulmonary hypertension. "We found that a combination of D-ribose and folic acid helped the heart more effectively when subjected to

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pulmonary hypertension," said John St. Cyr, MD, PhD, medical director of Bioenergy Life Science, which provided the D-ribose. "The right ventricle pumps blood to the lungs and with pulmonary hypertension the ventricle must work harder. The use of ribose and folic acid benefited these stressed ventricles."

Corvalen, which was used in the study, is a proprietary D-ribose product of Bioenergy Life Science, Inc. (<http://www.bioenergy.com>), a privately held, Minneapolis-based life sciences company whose core technology lies in the development and commercialization of products based on the physiological benefits of D-ribose in health and wellness.

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¹D. Perkowski, MD, S. Wagner, RN, J. St. Cyr, MD, PhD, Saddleback Hospital, Orange Co., CA, "D-Ribose and 'Off' Pump Coronary Artery Bypass Revascularization Aids Cardiac Indices Following Acute Myocardial Infarction," presented at the 13th World Congress on Heart Disease, July 2007.

² R.R. Lamberts, E. Caldenhoven, M. Lansink, G. Witte, J. St. Cyr, G.J.M. Steinen, "D-Ribose/Folic Acid Aids Right Ventricular Diastolic Function in Induced Pulmonary Hypertension," presented at the 13th World Congress on Heart Disease, July 2007.

Bioenergy Inc. www.bioenergy.com is a privately held, Minneapolis-based life sciences company whose core technology lies in the development and commercialization of products based on the physiological benefits of D-ribose in health and wellness. Bioenergy's clear mission is to develop products that increase the quality of its customers' lives by improving their metabolic health. Bioenergy Life Science, Inc., its subsidiary, markets ribose-based products to the functional food and clinical nutrition markets. Bioenergy Life Science products include Bioenergy RIBOSE™, a functional ingredient in the active lifestyle market; Corvalen®, and CorvalenM®, clinical nutrition products giving metabolic support to patients with heart and muscle disease. Bioenergy Ribose is GMO certified. The product is also manufactured under the supervision of the Kashruth Division of the Orthodox Union. Toll-free order line is 1-866-267-8253.