

Vivix Clinical Study Published

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Hello Shaklee Family,

We are pleased to announce the publication of a new Shaklee-sponsored clinical research study confirming that key Vivix® ingredients blunt the **biological stress response** that occurs after consuming a high-fat meal^{1,*}

This biological stress response refers to the acute oxidative and cellular responses that occur in the body to address metabolic by-products of common lifestyle factors such as eating an unhealthful diet, being overweight, or smoking. If the biological stress response persists over time, it may lead to many of the age-related health challenges we see today.

One way to study this biological stress response is to observe what happens in the bloodstream after eating a high-fat fast food meal, as this is known to produce a significant amount of oxidative and biological stress.

So Shaklee scientists collaborated with researchers to study the effects of Vivix ingredients on the metabolic responses to eating a typical fast food meal. The researchers gave key Vivix ingredients or a placebo immediately before the consumption of a high-fat fast food meal and measured oxidative and biological stress response for five hours following the meal.

Results showed significant blunting of the typical oxidative and biological stress response to a high-fat meal, as well as significant activation of Nrf-2, a key regulator of the body's antioxidant defenses, in the group consuming the Vivix polyphenols.*

The study was published Feb. 2, 2011, online in the *Journal of Clinical Endocrinology and Metabolism*. We encourage you to access the study from your nearest university library or from the Clinicals.Shaklee.com Web site and to look for future Health Sciences Bulletins for more information on the health risks associated with oxidative and biological stress responses.

This research nicely complements our mitochondrial mass study showing increased cellular energy production with Vivix ingredients compared to resveratrol alone AND our laboratory study showing that Vivix ingredients are more powerful than resveratrol at inhibiting AGE protein formation.

You can now share the incredible news that we have a *human clinical study* published in a prestigious peer-reviewed medical research journal that shows significant and positive physiologic effects in people consuming key Vivix ingredients.

To your great health,

Dr. Jamie McManus, M.D.

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¹A Resveratrol and Polyphenol Preparation Suppresses Oxidative and Inflammatory Stress Response to a High-Fat, High-Carbohydrate Meal. Ghanim H, Sia CL, Korzeniewski K, Lohano T, Abuaysheh S, Marumganti A, Chaudhuri A, Dandona P. J Clin Endocrinol Metab. 2011 Feb 2. [Epub ahead of print]