



NUTRI FUSION™

**The American Food System!**



# Our Health:

## Frightening Statistics as to America's Health!

- 🍏 Only 6% of individuals achieve their recommended target for vegetables and 8% achieve their recommended target for fruit **in an average day!**
- 🍏 The CDC, the World Health Organization and many other international bodies feel the world is heading to a **global health crisis.**
- 🍏 **Heart disease, cancer, and diabetes are assuming epidemic proportions.**
- 🍏 The number 1 reason is **poor diets.** We are not getting enough of the protective nutrients in our diets.
- 🍏 If we are not getting enough nutrients; such as, antioxidants, our long term health will suffer! (Oxidative Stress, Inflammation, Free Radicals)
- 🍏 The problem and solution are in the food we eat.
- 🍏 **Source: The National Fruit & Vegetable Alliance's National Action Plan Report Card.**

# Is the source credible?

## **The National Fruit & Vegetable Alliance, includes:**

- 🍏 CDC, Centers for Disease Control & Prevention,
- 🍏 American Cancer Society,
- 🍏 American Diabetes Association,
- 🍏 American Dietetic Association,
- 🍏 American Heart Association,
- 🍏 National Cancer Institute,
- 🍏 USDA: (Food, Nutrition and Consumer Services, Research, Education and Economics, Marketing and Regulatory Programs).
- 🍏 California Department of Public Health,
- 🍏 National Alliance for Nutrition & Physical Activity,

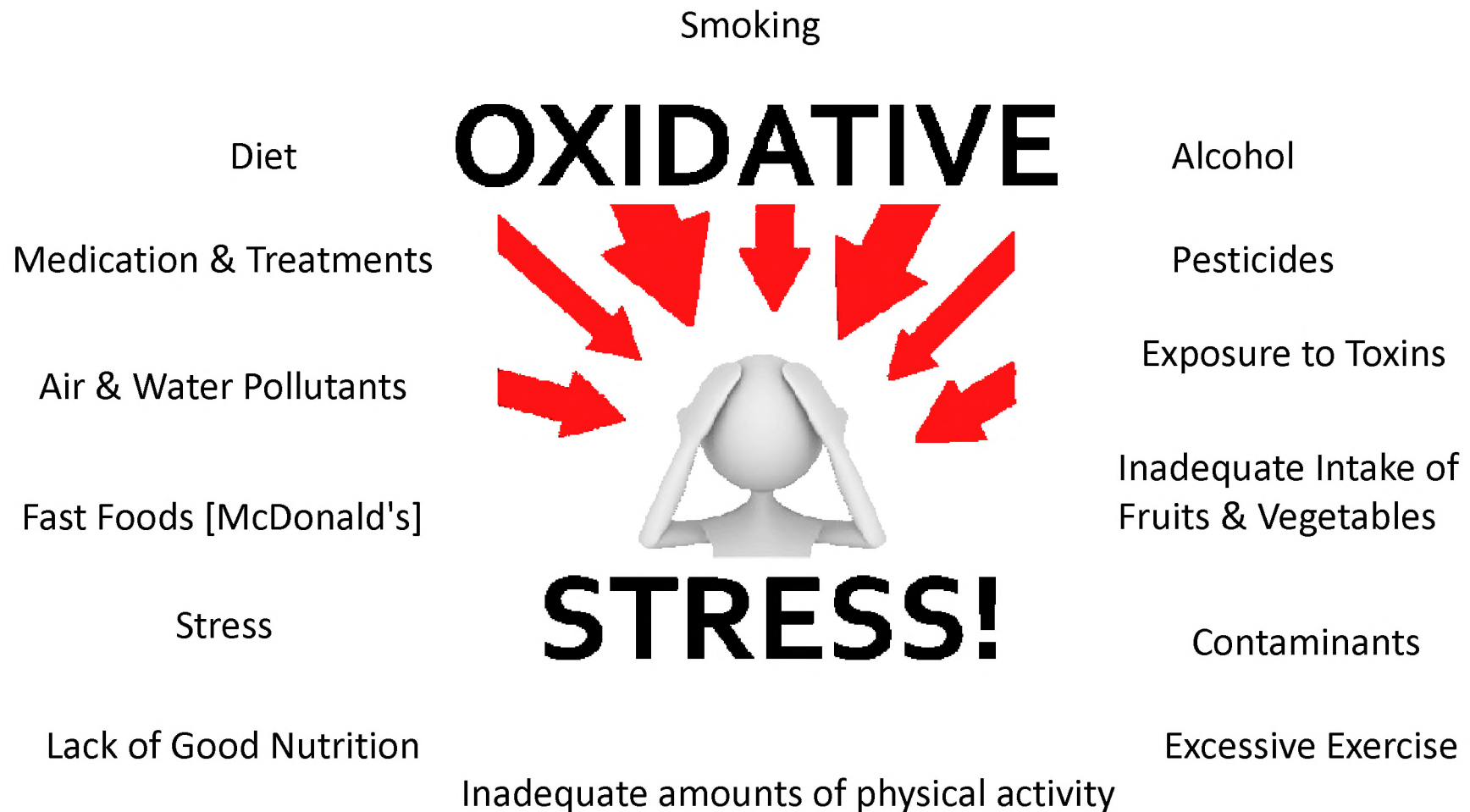


# Oxidation:

## Oxidative Stress/Inflammation

- *Oxidation is a very normal process.* Oxygen is essential to life. However, oxygen can also cause the breakdown of our body
- **Oxidative stress, simply put, is the damage made to a cell through the oxidative process.**
- Disturbances in the natural oxidation process often result in toxic effects and the potential for diseases.
- **A Free Radical is the scientific term used to describe an unstable molecule that slowly destroys our bodies. Free radicals produce chronic inflammation.**
- Free radicals are created during the metabolism of normal oxygen cells. The resulting free radicals is missing a simple electron & searches for another molecule that it can combine with to make it "whole." **In their quest, free radicals damage other cells and structures around them.**
- In effect, your body is "oxidizing" as it goes through its lifetime. **The free radicals run through your system, searching for a mate.**
- **\*\*The more free radicals your body contains, the more damage that's likely to be done; including the normal aging process and many major diseases.**
- **Your body repairs cells and reduces inflammation by taking an electron from antioxidants found in fruits and vegetables, and donating it to the free radical.**

# Some Causes of Oxidative Stress



# Diseases Related to Oxidative Stress

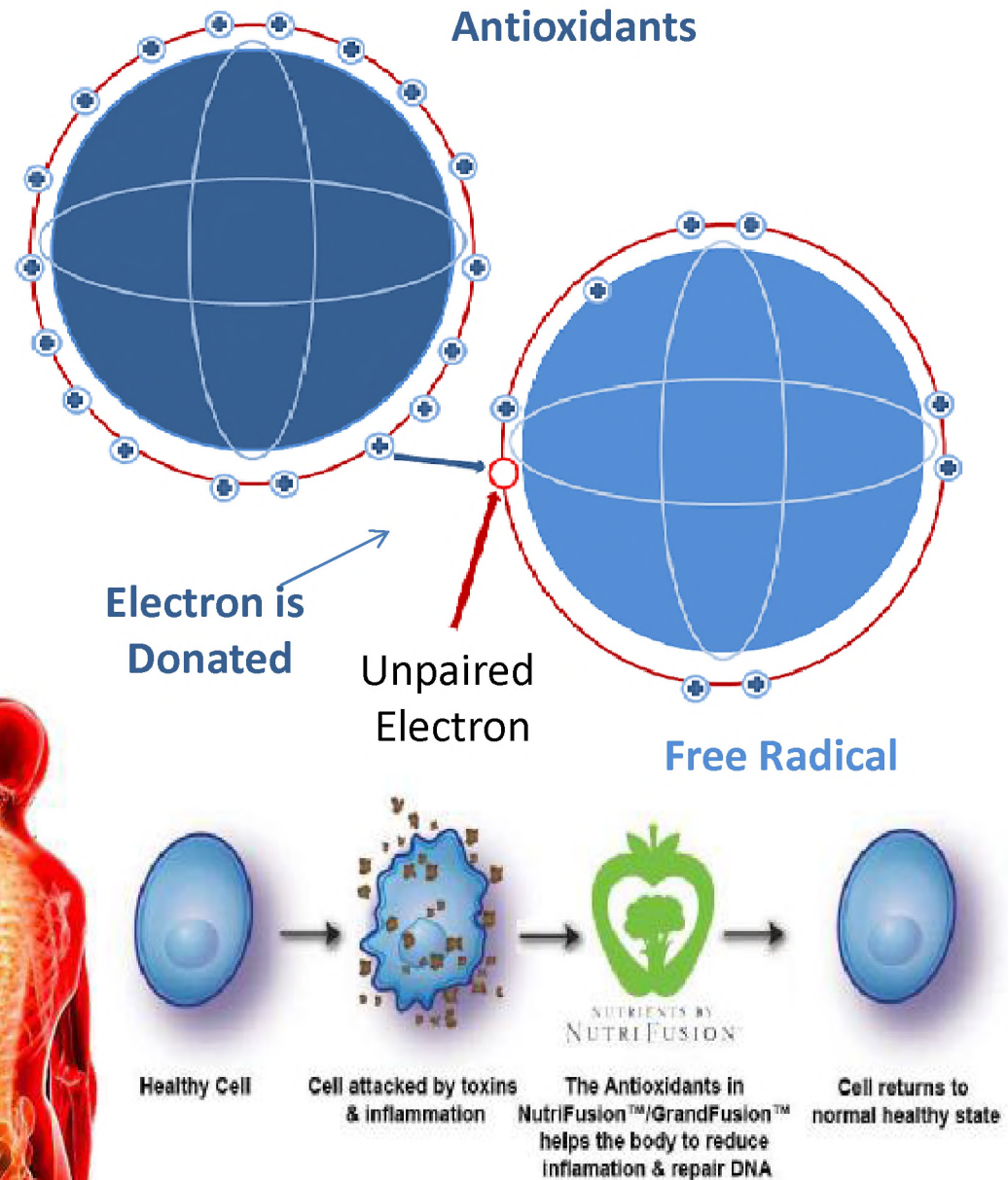


# The Importance of Antioxidants!

Antioxidants from fresh fruits and vegetables donate an electron to repair and defend against those nasty free radicals and to reduce inflammation. The cell returns to a normal healthy state.

Remember, the free radicals and inflammation are the precursor for many chronic diseases.

**The NUTRIENTS from fruits and vegetables provide antioxidants to restore balance in your body.**





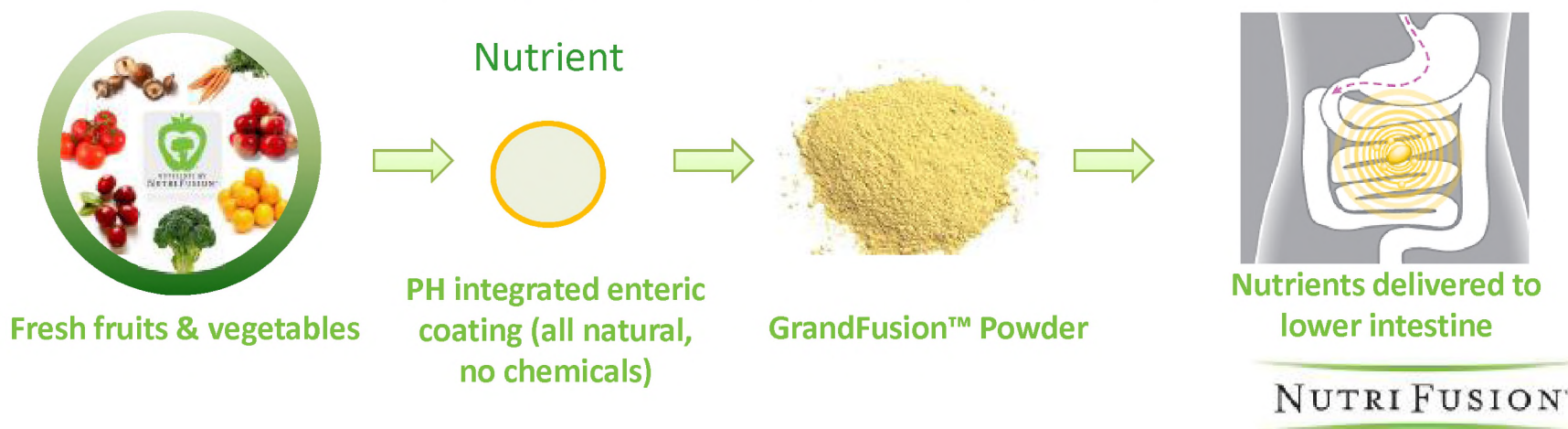


# What is NutriFusion™?

- 🍎 NutriFusion captures the complex nutrients and phytonutrients from fresh fruits and vegetables. NutriFusion™ can significantly increase the nutritional profile, and health benefits of food, beverage and snack products.
- 🍎 It is 100% natural as it is 100% derived from plants (fruits and vegetables.)
- 🍎 A small amount of GrandFusion™ (our brand name) can provide a high nutritional impact to the health of Americans. It is concentrated due to processing and very nutritionally dense.

## NutriFusion™ Advantages:

- 🍎 High uptake into the body
- 🍎 Ready bioavailability and bioabsorption at optimum point of absorption (small intestines).
- 🍎 Nutritionally Dense
- 🍎 Shelf Stable
- 🍎 Processing Stable: Withstands heat with little to no degradation.
- 🍎 NutriFusion™ uses no chemical, synthetics, or excipients in its process.







# Current Research: MUSC

## ***MUSC Study - Oxidative Stress Studies using NutriFusion™***

Dr Mark Kindy, Ph.D., Research Scientist,

Department of Neurosciences,

Medical University of South Carolina

Topic	Status	Topic	Status
<ul style="list-style-type: none"> <li>Effect of NutriFusion™ on the reduction of Oxidative Stress/inflammation.</li> </ul>	<ul style="list-style-type: none"> <li>NutriFusion™ was shown to reduce oxidative stress/inflammation.</li> <li>In write up for publication.</li> </ul>	<ul style="list-style-type: none"> <li>Stamina/endurance study: To determine if NutriFusion™ will improve stamina from physical exercise and reduce recovery time.</li> </ul>	<ul style="list-style-type: none"> <li>Animals perform much better on stamina/endurance tests when taking NutriFusion™.</li> <li>Implications for NFL &amp; NFL Player Association.</li> </ul>
<ul style="list-style-type: none"> <li>Effect of NutriFusion™ to repair/regenerate damaged DNA at the cell level.</li> </ul>	<ul style="list-style-type: none"> <li>NutriFusion™ was able to show a reduction in the DNA damage and repair damage due to oxidative stress at the individual cell level.</li> <li>In write up for publication.</li> </ul>	<ul style="list-style-type: none"> <li>Aging Study: To determine if NutriFusion™ will positively contribute to health from aging. (Improve, decline, or maintain health from aging.)</li> </ul>	<ul style="list-style-type: none"> <li>In write up for publication.</li> </ul>
<ul style="list-style-type: none"> <li>Hypertension Model: to test for the ability of NutriFusion™ to delay the onset of strokes and reduce the damage caused by a stroke.</li> </ul>	<ul style="list-style-type: none"> <li>In write up for publication.</li> </ul>	<ul style="list-style-type: none"> <li>Traumatic Brain Injury (TBI) Study: To determine if the ongoing use of NutriFusion™ can help protect or reduce brain injury.</li> </ul>	<ul style="list-style-type: none"> <li>Early</li> <li>Research evaluating potential of NutriFusion™ as a “preventative” measure for TBI (NFL &amp; NFL Player Association)</li> </ul>
<ul style="list-style-type: none"> <li>Brain Study: To determine if NutriFusion™ will slow the progression of brain disease (Alzheimer) and reduce plaque buildup in the brain.</li> </ul>	<ul style="list-style-type: none"> <li>In write up for publication.</li> </ul>		<ul style="list-style-type: none"> <li>Updated 12-17-13.</li> </ul>



# Implications

- 🍏 NutriFusion™ appears to show significant benefits to reduce oxidative stress in animals.
- 🍏 Further human research is required.
- 🍏 If NutriFusion™ shows similar results in human studies, we may have a long term, low cost preventative method to reduce oxidative stress and the corresponding chronic diseases in the American population.
- 🍏 NutriFusion™ can easily be added into foods, beverages, and supplements while allowing consumers to continue with their current diets and favorite foods.
- 🍏 As consumption of fruits and vegetables continues to decline, NutriFusion™ can positively impact on the American health.





# NutriFusion™

## Appendix







# Nutritionals Without and With NutriFusion™/GrandFusion™

## NutriFusion Bases Label Claims: (per FDA CFR-21 Regulations)

- Rich in Antioxidants
- Excellent source of Vitamin A (Beta Carotene)
- Excellent source of Vitamin C
- Each Serving contains 400 mcg of Lycopene
- Each serving contains a healthy source of nutritional ingredients.

INGREDIENTS: Non Fat Milk, Strawberry YFB Sugar, Strawberries, Water, Modified Food Starch, Natural Flavor, Red Cabbage extract for Color, Citric Acid, Sodium Benzoate and Potassium Sorbate as Preservatives, Sugar, Modified Food Starch, Cream, **Nutrients from Natural Whole Food Concentrate of [Apple, Broccoli, Carrot, Cranberries, Orange, Tomato]**, Whey Protein Concentrate, Gelatin.

## Yoplait: National Brand Original Strawberry

Nutrition Facts		
Serving Size 6 oz (170.0 g)		
Amount Per Serving		
Calories 170	Calories from Fat 13	
% Daily Value*		
Total Fat 1.5g		2%
Saturated Fat 1.0g		5%
Cholesterol 10mg		3%
Sodium 80mg		3%
Total Carbohydrates 33.0g		11%
Sugars 27.0g		
Protein 5.0g		
Vitamin A 15%	Vitamin C 0%	
Calcium 20%	Iron 0%	
Based on a <a href="#">2000 calorie diet</a>		

## Yogurt

Compare  
Vitamins



## Private Label: With NutriFusion

Nutrition Facts		
Serving Size 1 container (170g)		
Servings Per Container 1		
Amount Per Serving		
Calories 160	Calories from Fat 5	
% Daily Value*		
Total Fat 0g		0%
Saturated Fat 0g		0%
Trans Fat 0g		
Cholesterol 5mg		2%
Sodium 100mg		4%
Total Carbohydrate 32g		11%
Dietary Fiber 3g		12%
Sugars 32g		
Protein 7g		
Vitamin A 60%	Vitamin C 60%	
Calcium 50%	Iron 2%	
Vitamin D 10%	Vitamin E 50%	
Thiamin 120%	Riboflavin 60%	
Vitamin B6 70%	Vitamin B12 25%	
Zinc 8%	Copper 6%	
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.		
	Calories	2,000 2,500
Total Fat	Less than	65g 80g
Saturated Fat	Less than	20g 25g
Cholesterol	Less than	300mg 300mg
Sodium	Less than	2,400mg 2,400mg
Total Carbohydrate		300g 375g
Dietary Fiber		25g 30g
Calories per gram:		
Fat 9 • Carbohydrate 4 • Protein 4		

NUTRIFUSION™

## LOCAL SELLERS



NUTRIENTS BY  
NUTRIFUSION™

# SC Grown Produce

## Fruits & Vegetables Used in Production

		Blend 1 NF-216	Blend 2 NF-316	Blend 3 NF-416	Blend 4 NF-661	Blend 5 NF-680	Blend 6 NF-681	Blend 7 NF-685	Organic 1 NFO- 216	Organic 2 NFO- 316	Organic 3 NFO-416
Orange	Local Produce	x	x		x	x		x	x	x	
	Yes										
Cranberry	No	x	x		x	x		x			
Apple	Yes	x			x			x	x		
Carrot	Yes	x		x	x		x	x	x		x
Tomato	Yes	x		x	x		x	x	x		x
Broccoli	Yes	x		x	x		x	x	x		x
Pomegranate	Yes		x		x	x		x		x	
Strawberry	Yes		x		x	x		x		x	
Grape	Yes		x		x	x		x		x	
Beet	Yes				x		x	x			
Spinach	Yes			x	x		x	x			x
Shitake Mushroom	Yes	x	x	x	x	x	x	x	x	x	x
Banana	No								x	x	
Papaya/Mango	No		x								

NUTRIFUSION™



# Processing

