Bridging the gap between demand and supply of amino acids and vitamins

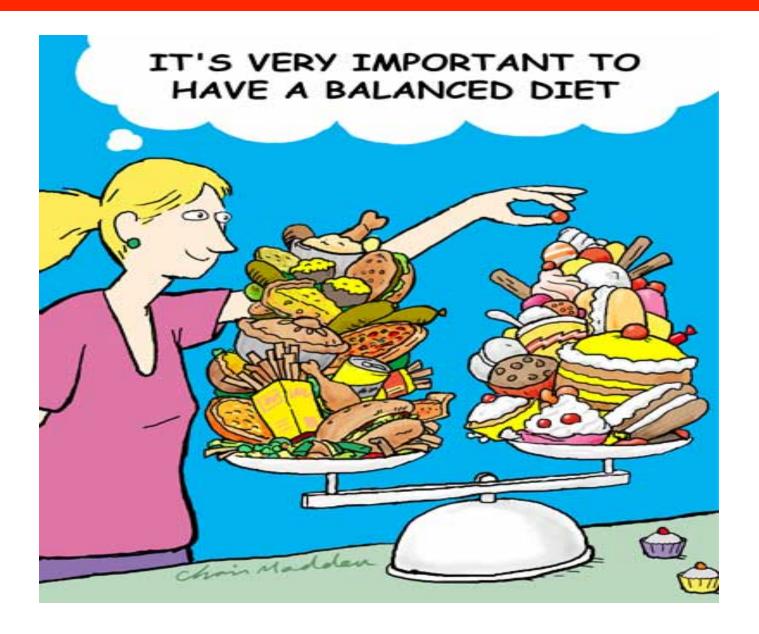
the MAY & BAKER

advantage

OUR PRESENT SITUATION

- Stress associated with work
- Irregular, inadequate and imbalanced food intake.
- Poor supply of essential nutrients, amino acids, vitamins, minerals etc
- Near total reliance on carbohydrate diet.
- Poor eating habits
- Poor socioeconomic status

Balanced diet?





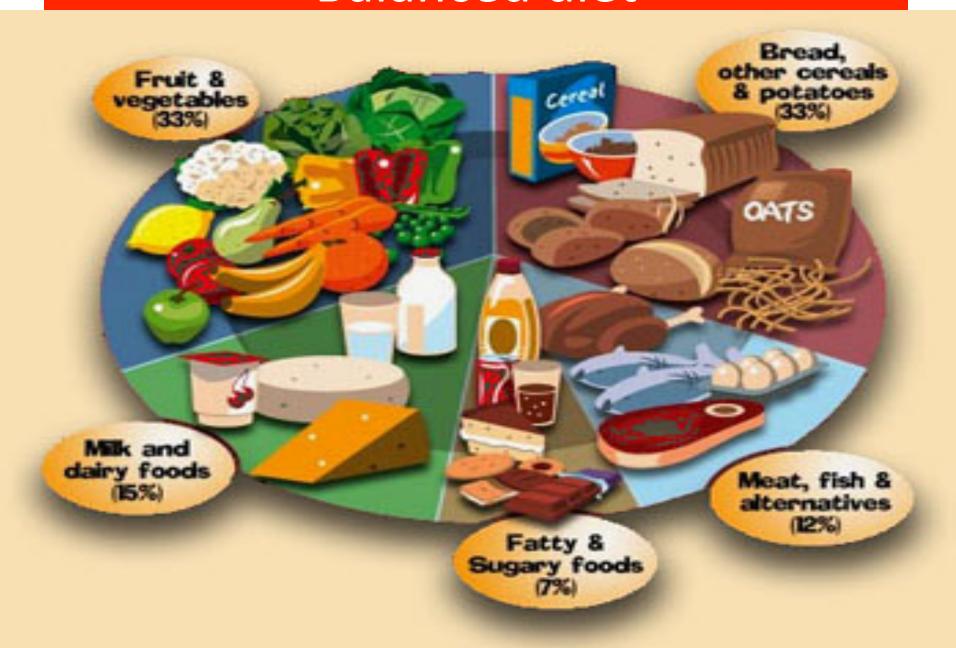
Changed Dietary Pattern During Nutrition Transition

- Increased intake of high fat foods (e.g. turkey parts, broiler chicken, animal entrails, fast foods etc.)
- Increased intake of refined carbohydrate foods (e.g. flour, noodles, pasta, etc.)
- Increased intake of salt and salty foods (e.g. flavor enhancers, some processed foods)
- Increased intake of simple sugars (e.g. carbonated and fizzy drinks)
- Reduced intake of high fibre foods (e.g.

A BALANCED DIET SHOULD CONTAIN

- —Amino acids (Proteins)
- -Carbohydrates
- —Fats
- -Vitamins
- -Minerals
- —Roughage
- -Water

Balanced diet



VITAMINS

- A vitamin is an <u>organic compound</u> required as a <u>nutrient</u> in tiny amounts by an <u>organism</u>.
- Today, a chemical compound is called a vitamin when it cannot be <u>synthesized</u> in sufficient quantities by an organism, and must be obtained from the diet.
- The function of all vitamins in the human body is extensive and complex.
- Vitamins serve multiple roles and they work together to perform many functions, from reducing infection to aiding metabolism.

Types

- Vitamins can be categorized in one of two ways--fat-soluble vitamins and water-soluble vitamins.
- Vitamins A, D, E and K are the fat-soluble vitamins
- Water-soluble vitamins include vitamin C and the B-complex vitamins.

AMINO ACIDS

- An essential amino acid or indispensable amino acid is an <u>amino acid</u> that cannot be synthesized <u>de novo</u> by the organism (usually referring to humans), and therefore must be supplied in the diet.
- Amino acids are critical to life, and have many functions in metabolism.
- One particularly important function is as the building blocks of proteins, which are linear chains of amino acids.
- Amino acids are also important in many other biological molecules, such as forming parts of <u>coenzymes</u>.
- or as precursors for the <u>biosynthesis</u> of molecules such as <u>heme</u>

NUTRITION TRANSITION

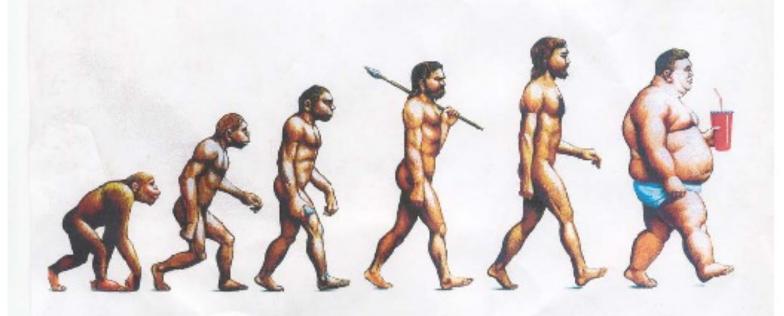
"As populations in the developing countries enhance their economic demand, they tend to seek out many of the lifestyle traits of western society that we now accept as causally linked factors in non-communicable diseases"

Dr. J Jervell
President, International Diabetes Federation



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The shape of things to come



People need additional supply of nutrients

- Stress associated with work
- Irregular, inadequate and imbalanced food intake
- Poor supply of essential nutrients, amino acids, vitamins, minerals etc.
- Poor socioeconomic status
- Near total reliance on carbohydrate diet
- Poor quality of food where available
- Poor eating habits

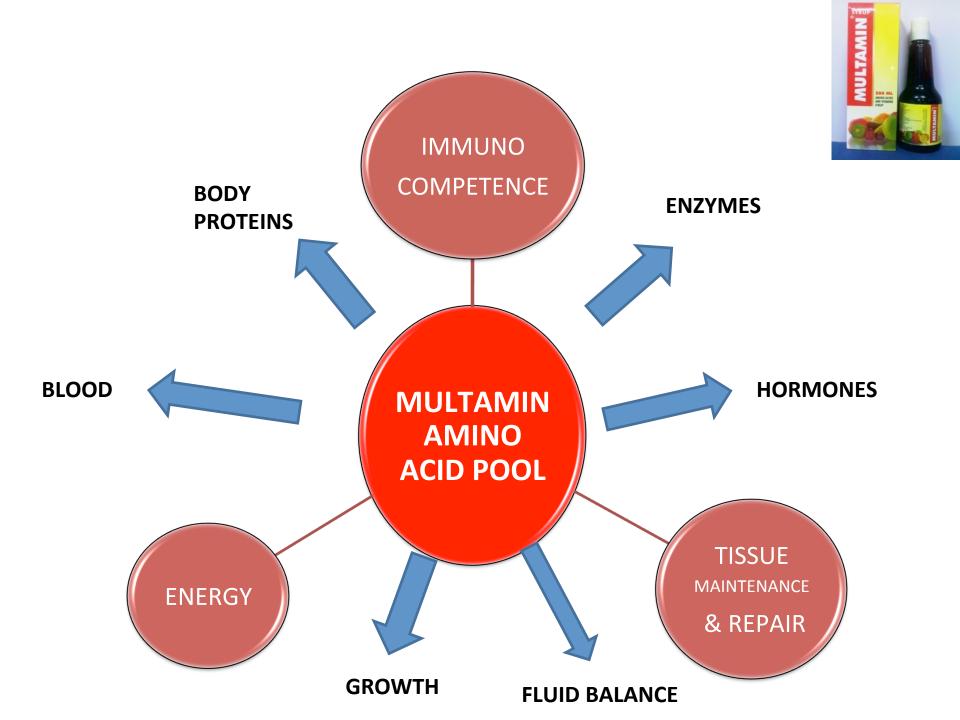
There is need to provide these basic multivitamins and amino acids for optimal body function



Understands your body language



- "...Protein intake of most Nigerians at present stands at 7 grammes, far below the required 35 grammes needed for the fortification of the immune system.. ..Basically, we are not taking enough protein and worse still we are not even taking much of animal protein and that in a way has negative effect on our overall health"
- Folorunsho Adu, Federal University of Agriculture, Abeokuta.
 The Punch, Monday July 30, 2001. Page 4



EACH 15ML CONTAINS 8 AMINO ACIDS

- Performance
- Vitality
- Wellbeing
- Achievement



8 AMINO ACIDS

(EACH 15ML CONTAINS)



LEUCINE	18.3 MG
ISOLEUCINE	5.9 MG
PHENYLALANINE	5.0 MG
THREONINE	4.2 MG
METHIONINE	18.4 MG
TRYPTOPHAN	5.0 MG
VALINE	6.7 MG
LYSINE	25.0 MG

MULTAMINSYRUP



VITAMER	LIQUID	VITAMIN	SOLUBILITY
●Thiamine HCL BP	5.0MG	B1	WATER
Riboflavin	3.0MG	B2	WATER
Pyridoxine	1.5MG	В6	WATER
Nicotinamide	25.0MG	В3	WATER
●Ca Pantothenate	5.0MG	B5	WATER
Cyanocobolamin	2.5MG	B12	WATER
●Folic Acid	0.75MG	В9	WATER
Ascorbic Acid	40.0MG	С	WATER
●Retinol Conc	2500IU	А	FAT
Cholecalciferol	200IU	D	FAT
Alpha Tocopherol	7.5IU	Е	FAT

Nutrient	RDI	highest RDA of DRI
Vitamin A	3000 IU	10,000 IU
<u>Vitamin C</u>	60 mg	90 mg
<u>Vitamin D</u>	400 IU	600 IU
		15 mg (33 IU of
<u>Vitamin E</u>	30 IU	synthetic)
<u>Thiamin</u>	1.5 mg	1.2 mg
<u>Riboflavin</u>	1.7 mg	1.3 mg
<u>Niacin</u>	20 mg	16 mg
Vitamin B6	2 mg	1.7 mg
<u>Folate</u>	400 μg	400 μg
Vitamin B12	6 μg	2.4 μg
Pantothenic acid	10 mg	5 mg



Cutting Edge

- Improves Physical & Mental Alertness due to the action of Phenylalanine and Valine
- Improves Liver & Kidney Function due to the action of Methionine and Threonine
- Improves Immunocompetence
- Improves GIT Function due to the activity of Threonine and Valine
- Better Utilization and Tissue Synthesis of Protein



Sports Nutrition

- Sportsmen have a much larger requirement for essential amino acids
- Branched Chain Amino acids (BCAA) namely L-leucine, Lisoleucine and L-valine represent up to 35% of the muscle tissue protein. They play an important role in sports nutrition.
- Multamin contributes to muscle building and improves muscular strength
- Multamin hastens recovery from fatigue by replenishing BCAA and prevents symptoms such as muscle soreness

Women of child bearing age

 Women who are planning to get pregnant or have just become pregnant should take a daily supplement of 400mcg folic acid to help prevent spina bifida.

- Vegetarians
- Vegetarians who never eat meat or dairy products may need to take vitamin B12

- Malnourished patients
- People who are malnourished: this may be because they have been ill, or have difficulty eating or swallowing for medical reasons. It can include people who have been on a weight-loss diet

Healthy Individuals

 Adults and children who need to supplement their diet.

INDICATIONS

- Inadequate or imbalanced daily diet
- Depletion of amino acids and other nutrients due to excessive physical and mental activities
- Muscle building, increase stamina and recovery from fatigue
- Marginal Amino acid deficiency existing in patients following a brief illness or during convalescence
- Increased requirements in stress, alcoholism, debility
- An adjunct to antibiotics, hypoglycaemic drugs and anti-TB drugs.
- Low-birth weight babies
- Formular-fed babies



EACH 15ML CONTAINS 8 AMINO ACIDS

- Performance
- Vitality
- Wellbeing
- Achievement









- Rapid reduction of the parasite load
- Greater than 95% clearance rate of malaria parasite
- Rapid resolution of the clinical symptoms
- Fast ecting anti-malaria
- Reduction of gametocyte carriage
- Prevents relapse







Dosage

Adults: 15ml twice daily

Children: 5mls three daily

✓ Live life to the fullest with MULTAMIN.



MULTAMIN SYRUP

IS YOUR 5&6

UNDERSTANDS YOUR BODY LANGUAGE!