



**NutriGold** and its group companies are established in 2015 in India and are involved in research and development of the next generation 'Nutraceutical Products'.

**NutriGold** is committed to deliver the best & highly clinically proven nutraceutical products to the clients, made by using a patented technologies. NutriGold brings Asia's first range of emulsified Omega-3 supplements. Our team that comprises of an interdisciplinary group of scientists ensures that NutriGold products are the best products.



**NutriGold** is dedicated to provide next generation Nutraceutical products, that can improve the lives of the people.

CORP.

#### Pioneers of a Novel Approach



**The orthomolecular** approach is the restoration and maintenance of health through and administration of adequate amounts of the substance that are normally present in the body. Although the definition of orthomolecular approach is established since 1968 by the Noble Prize winner Linus Pauling, that is grossly overlooked. The aging process is typically accelerated as a free radical exposure, frequent or chronic inflammation, and toxic exposure ( such as heavy metals or industrials and agriculture hydrocarbon). Reversing this process or slowing it down is one goal of orthomalecular approach, along with treatment of health problems.

## Innovative Technologies & Formulations

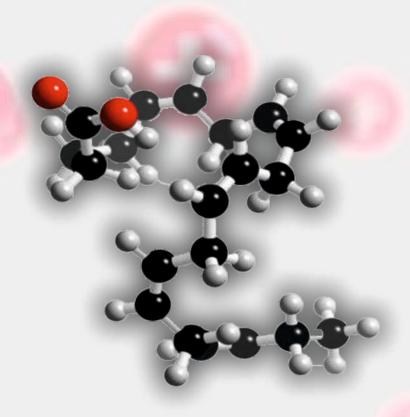






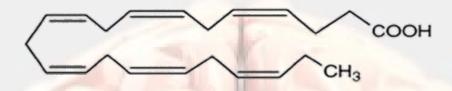


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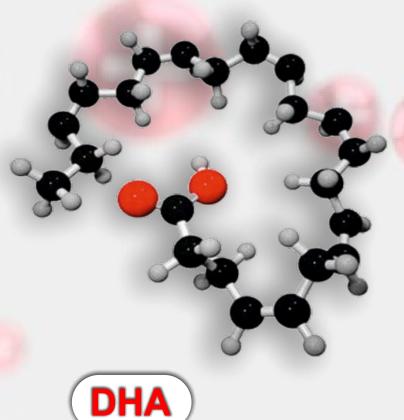




#### Eicosapentaenoic acid



Docosahexaenoic acid



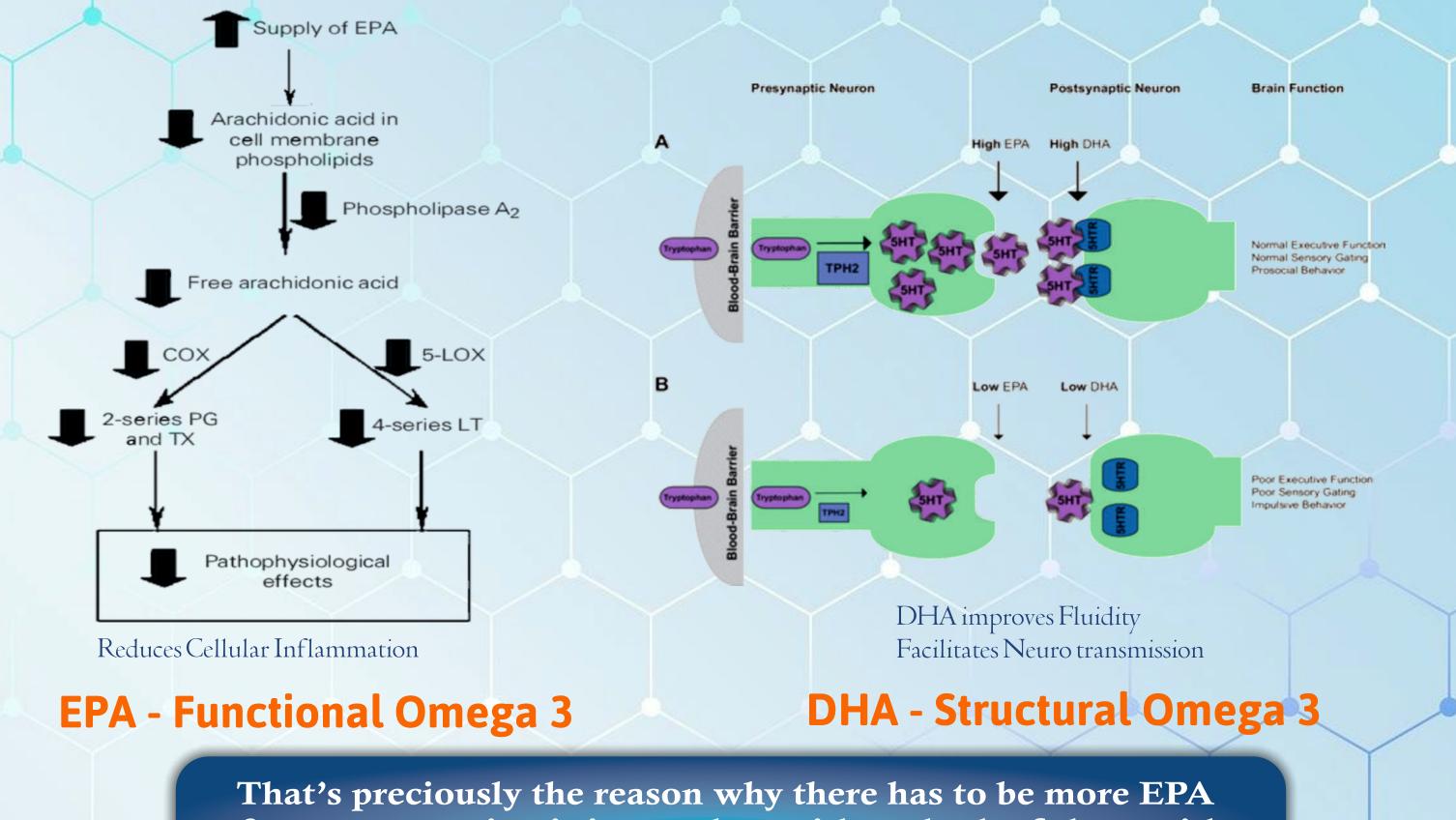




- The omega-3 fatty acid: Eicosapentaenoic Acid (EPA).
- Protects via reducing phospoliapase A2 Activity. Major anti-inflammatory eicosanoids precursor, directly competes and displaces AA to reduce inflammation.
- Reduces Oxidatative stress to improve neurodegeneration.
- Enhances focus, attention and processing speed.
- Act as a neuro protective agent within the brain. Its anti- inflammatory effects may help reduce damage as well as enhance existing neural activity by clearing apoptosis cells thus helping restores tissue homeostasis.
- EPA is also thoughts to improve synaptic plasticity.

- The omega-3 fatty acid: Docosahexaenoic Acid (DHA).
- DHA constitutes more than 30% of the total phospholipid composition of plasma membrane in the brain.
- Provides plasma membrane fluidity at synaptic regions.
- DHA is indispensable for maintaining membrane ionic permeability and function of transmembrane receptors that support synaptic transmission and cognitive abilities.
- Activate energy generating metabolic pathways that subsequently effects molecules such as brain-derived neurotrophic factor (BDNF) and Insulin-like growth factor(IGF1).
- BDNF and IGF1 acting at presynaptic and postsynaptic receptors, which activate signaling systems, facillitating the synaptic transmission, support long term potentiation that is associated with learning and memory.

OMG



That's preciously the reason why there has to be more EPA & any preparation is incomplete without both of them with recommended ratio.

### Bridging the Gap in,

- > ADHD.
- > ASD.
- > DOWN SYNDROME.
- > CEREBRAL PALSY.
- > LEARNING DISORDER.
- > SLOW LEARNING.

# BrainO

#### THE ULTIMATE







 RECOMMENDED DOSAGE: 5ml Daily. Or as directed by the Consultant.

- Most stable compared to any other product.
- Emulsion with consistent homogeneity.
- Hydrolyzed to smallest Particles form for Crossing BBB for Better Absorption.
- Sourced from purest fish oil (ANCOVIS & SARDINS from Antarctica Ocean).
- Best palatability (Real Mango Pulp).
- NON GMO Certified.
- Gluten Free.
- No Added Sugar.
- FOS as Pre Biotic.

Each serving size 5 ml contains

Total Omega-3

**EPA** 

DHA

590 mg

250 mg

180 mg

## Recommended Adequate Intakes of Omega 3 Fatty Acids:

• 0 to 12 months : 0.5 grams/day

• 1 to 3 years : 0.7 grams/day

• 4 to 8 years : 0.9 grams/day

• 9 to 13 years (Boys) : 1.2 grams/day

• 9 to 13 years (Girls) : 1.0 grams/day

• 14 to 18 years (Boys) : 1.6 grams/day

• 14 to 18 years (Girls) : 1.1 grams/day

#### The current reality:

- All Current preparation of OMEGA 3 Fatty Acids do have lower content.
- Required Multiple dosage leads to Higher Cost.
- Low Quality Fish Oil
- Poor Absorption

#### Results.....

- POOR COMPLIANCE
- POOR OUTCOME....



## In,

- ADHD & ASD.
- LEARNING DISORDER.
- SLOW LEARNING.
- CEREBRAL PALSY.
- TRAUMATIC BRAIN INJURY.
- POST SPINAL SURGERY.
- > ISCHEMIC STROKE.
- Highest Omega3 900 mg/5ml with EPA 450 mg and DHA 306 mg.
- Balanced ratio of Omega 3-6-9 for holistic performance.
- Patented technology for the best stability.
- Micellar form for the best absorption.
- NON GMO certified.
- Gluten free.
- No added sugar.
- Natural Mango pulp for the best palatability.
- FOS as Prebiotic.





Or as directed by the Consultant.





## Each serving size 5 ml contains

Total Omega-3 EPA

DHA

Total Omega-6

Total Omega-9

900 mg

450 mg

306 mg

21 mg

150 mg

## 7 WONDERS OF BRAIN IQ & BIQ PLUS

THE ONLY PRODUCT WHICH HAS IDEAL RATIO OF EPA AND DHA SHOULD BE 1.5:1

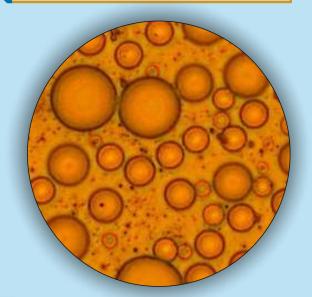
THE ONLY PRODUCT WHICH CONTAINS FISH OIL FROM SARDINS AND ANCHOVIES.

THE ONLY PRODUCT IS IN EMULSIFIED FORM.

EMULSION WITH TRIGLYCERIDE FORM
IS BETTER ABSORBED THAN
SUSPENSION & CAPSULE.











THE ONLY PRODUCT IS EMULSIFIED FROM PATENTED TECHNOLOGY.



THE ONLY PRODUCT WITH NO HEAVY METALS & IMPURITIES.



THE MOST STABLE PRODUCT – AMBER COLOURED GLASS BOTTLE.

**7W** 

# Sometimes Abundance becomes... Scarce to someone...

## Abundance....

Mothers milk is the only source of EFA (Essential fatty acid) during the first two years.



## Scarce....

- Preterm Birth
- Low Birth Weight
- ❖ C –Section
- Lactose Intolerance
- Poor Lactation
- Prenatal Nutrition



Preterm birth and low birth weight are known high-risk factors related to infant's neurodevelopmental abnormalities.

AC

A survey in India on pregnant woman shows an average omega3 consumption of 20 mg a day.<sup>1</sup>

(1)Ref.-(NutraIngredients Omega-3 Summit, 20-22 Feb – Singapore in association with GOED).



#### THE CARE ONLY A MOTHER CAN GIVE

- •First time in India.
- •Highly stable product.
- •Contains both DHA & EPA in an appropriate ratio.
- •SOURCED FROM THE MOTHER SOURCE Marine algae
- •( Schizochytrium sp) a rich source of DHA and EPA.
- •The safest product.

Work VEG. FORM	Aqua mega and mega an	Sch	Lzochytrium
			SP

- RECOMMENDED DOSAGE: 1ml Daily
- Or as directed by the Consultant.

## Nutritional Information Serving Size - 1 ml

Serving Per Container - 30

Nutrient	Per 1 ml
Total Omega-3	200 mg
Dha	100 mg
EPA	50 mg

#### in, High Risk Babies

- **❖** Preterm Birth.
- Low Birth Weight.
- Lactose Intolerance.
- **❖** Poor Lactation.
- **❖ Prenatal Nutrition.**

An early intervention is very important because it not only provides a better chance at survival, but also offers the compensation of lost developmental opportunities.

Experts call the first 1,000 days of a baby's life the brain's 'window of opportunity'. A vital nutrient for cognitive development during this time is DHA, the predominant Omega 3 fatty acid in neural tissues. In fact, it's so important that, in 2018, the American Academy of Pediatrics officially recognized the importance of DHA to support brain development in the first 1,000 days of life.<sup>2</sup> #iadsamindthegap

IADSA

AOD

**International Alliance of Dietary/Food Supply Association** 

## Recommend





Serving Size - 1 ml		
Nutrient	Per 1 ml	
<b>Total Omega-3</b>	200 mg	
DHA	100 mg	
EPA	50 mg	
Vitamin D3	400 IU	
Vitamin E	3 mg	

- RECOMMENDED DOSAGE: 1ml Daily
- Or as directed by the Consultant.

#### : Indications:

- Vitamin D Deficiency
- Preterm Birth
- Low Birth Weight
- For Healthy Heart, Eye, And Nervous System

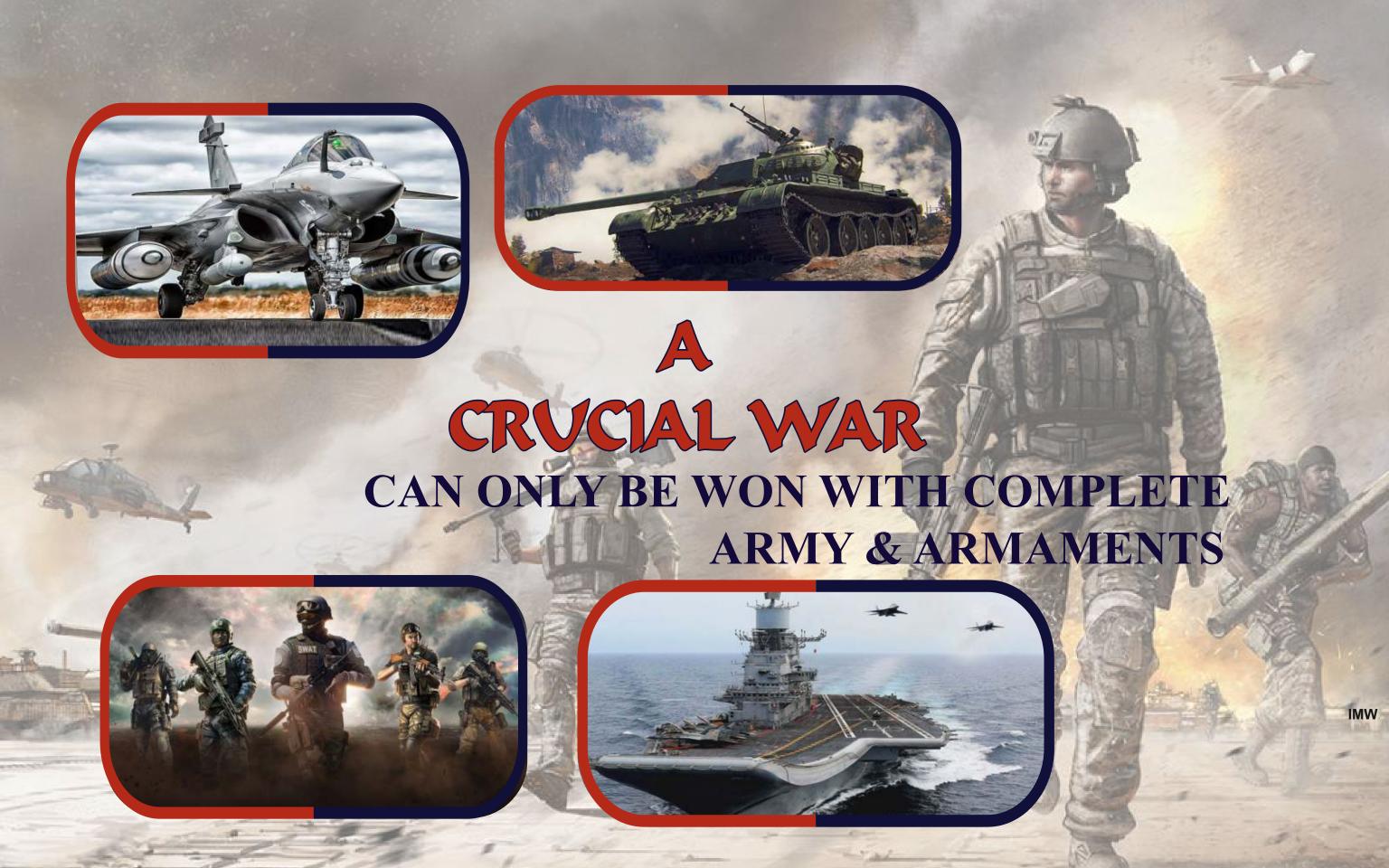




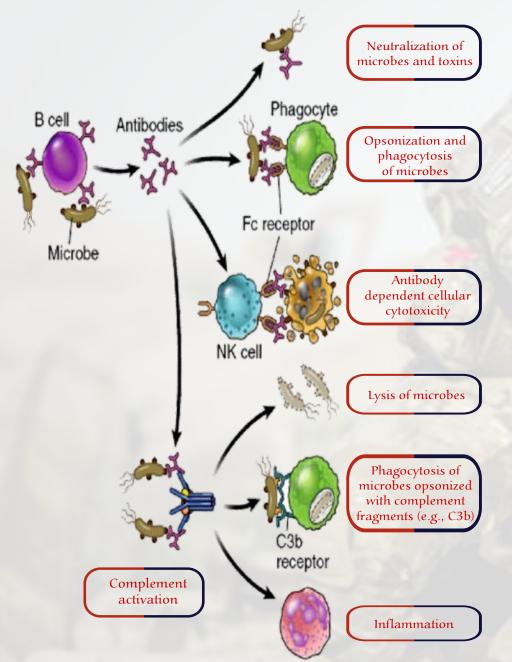


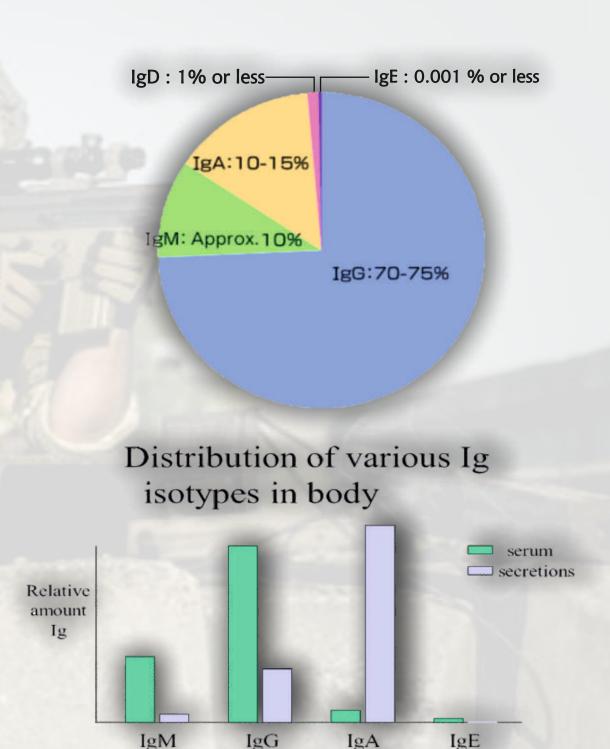
- **EPA & DHA** contributes to the normal function of the Brain.
- > Helps in Syneptogenesis.
- > Helps in Neurogenesis.
- > Contributes to the maintenance of normal vision.
- > Supports healthy Heart, eye, and Nervous system Functions.
- ➤ Infants be supplemented with 400 IU per day of vitamin D beginning in the first few days of life.

Infants born at, or before, 32 weeks of conception are known as early preterm infants. A recent study published in the **Archives of Disease in Childhood: Fetal and Neonatal Edition** found that a Vitamin D deficiency was common in these infants. They are a risk of a low Vitamin D status because they obtain Vitamin D from their mothers. The study also suggested that many early preterm infants may not be receiving adequate Vitamin D supplementation during hospitalizations.



#### THE EFFECTOR FUNCTIONS OF ANTIBODIES





Immunoglobulins hold the key in the battle of Human and Pathogens. The presence of all three important immunoglobulins IgG, IgM, IgA, as per the natural distribution in the body determine the fight and the results



#### IgG:

Immunoglobulin G (IgG)

- This is the most common antibody. It's in blood and other body fluids, and protects against bacterial and viral infections.
- IgG makes up around 75 percent of all human immunoglobulins.
- IgG antibodies are usually of higher affinity and are found in blood and in extracellular fluid, where they can neutralize toxins, viruses, and bacteria, opsonize them for phagocytosis, and activate the complement system.

#### IgM:

Immunoglobulin M (IgM)

- IgM is the first antibody to appear in the response to initial exposure to an antigen.
- → IgM is the first form of immunoglobulins expressed during the development of B cells in the primary immune response.
- Immunoglobulin M (IgM), which is found mainly in the blood and lymph fluid, is the first antibody to be made by the body to fight a new infection.

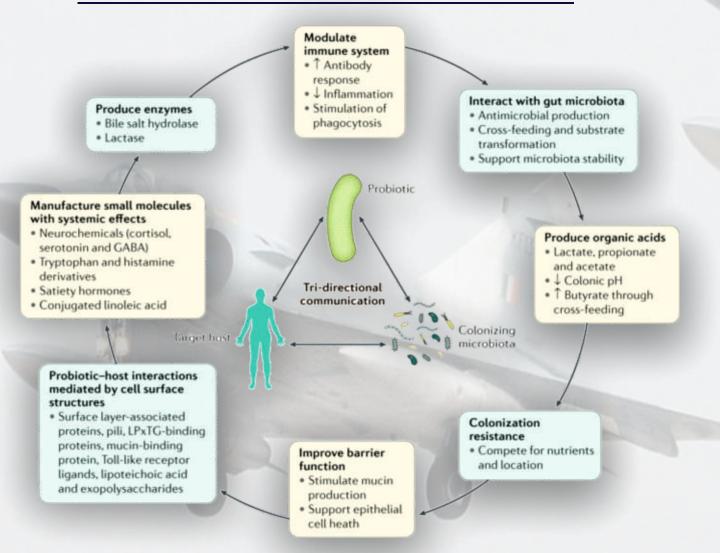
#### IgA:

Immunoglobulin A (IgA)

The first line of defence in the resistance against infection, via inhibiting bacterial and viral adhesion to epithelial cells of mucus membrane of Respiratory track and by neutralisation of bacterial toxins and virus, both extra- and intracellularly.

All 3 Immunoglobulins with right proportions are like complete army with updated armory to fight any crucial war

#### **ROLE OF PRE& PROBIOTICS**



#### PRE & PROBIOTICS IN IMMUNITY

- Pre & Probiotics improve the gut immunity by correcting bacterial Dysbiosis of the gut.
- Prebiotic confers benefits on Bifidobacterium & lactobacillus to increase the intrinsic strength of immune system
- Probiotic-derived factors mediate probiotic action in the regulation of host immune responses.
- Probiotics exert different levels of immune-regulatory effects including gene expression, protein synthesis, signalling pathways in immune cells and in intestinal epithelial cells.
- Probiotics regulate host innate and adaptive immune responses by modulating the functions of dendritic cells, macrophages, and T and B lymphocytes [1,13].

Reference:

Review Probiotics: progress toward novel therapies for intestinal diseases. Yan F, Polk DBCurr Opin Gastroenterol. 2010 Mar; 26(2):95-101.

#### 70% - 80% Immunity comes from GUT...

Pre and Probiotics in adequate quantities enhance the gut Immunity and Reinforce the overall **IMMUNITY** 



## Introducing



Immunoglobulins with

Pre & Probiotics

## IMUNWELL

IgG1- 72%

IgM - 8.20%

IgA - 8.70%

KEEPS SAFE ... KEEPS WELL...

#### INDICATIONS

- Recurrent Viral & Bacterial Infections.
- Convalescence.
- Post Surgical Recovery.
- Opportunistic Infections.
- Chronic Illness.
- Secondary Immunodeficiancy Disorders.



Sachets

#### KEEPS SAFE ... KEEPS WELL...

#### **Nutritional Information**

Each Serving of 2.25g Contains (Approx) Per Serving (Per Sachet)

Lactobacillus Acidophilus (LA-14)	2.5 billion cfu
Bifidobacterium Longum (BL-05)	2.5 billion cfu
Bifidobacterium Infantis (BI-26)	2.5 billion cfu
Colostrum	500 mg
Fructo Oligo Saccharides	200 mg
Excipients	q.s.

#### Available in 2.25gm Sachets... Better Compliance

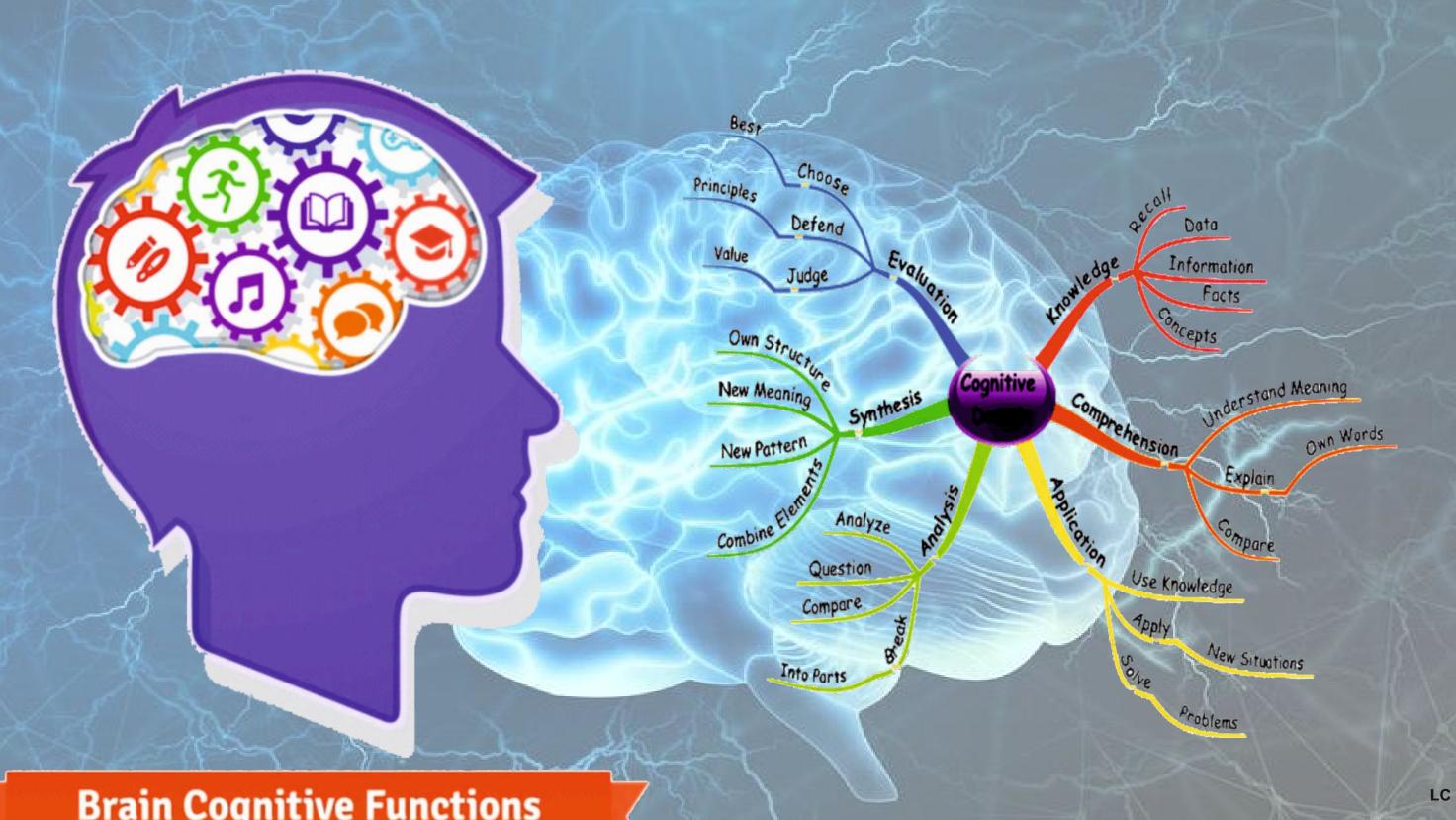




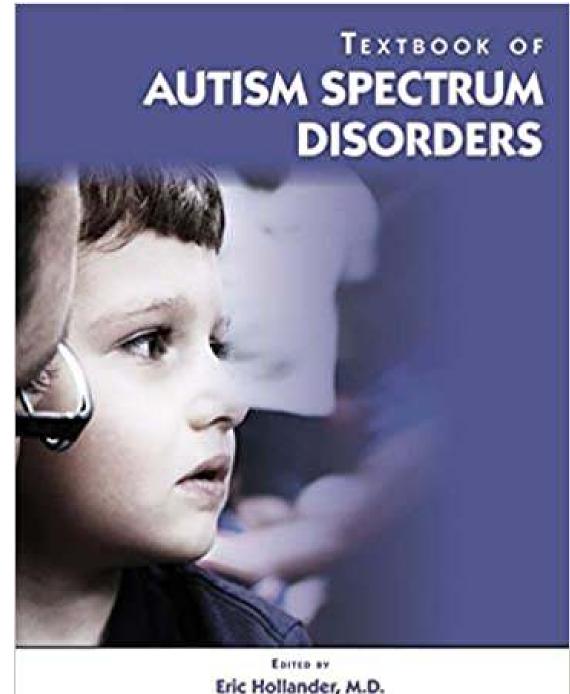




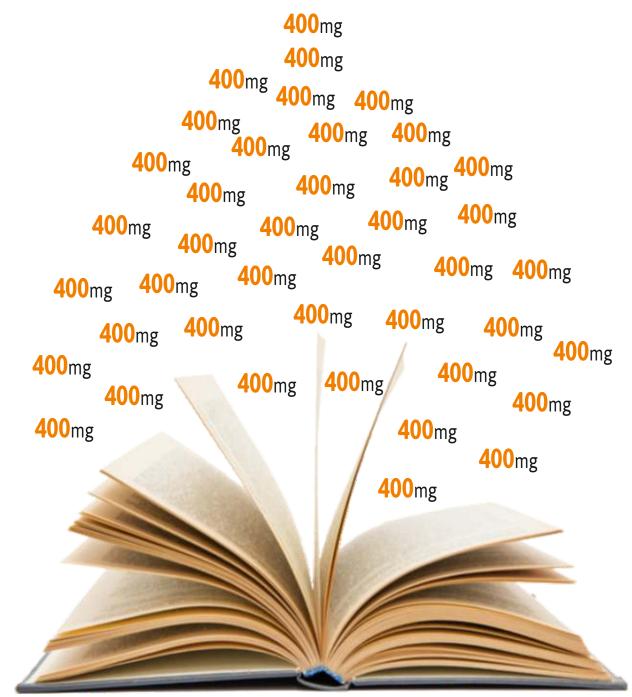




**Brain Cognitive Functions** 



Eric Hollander, M.D. Alex Kolevzon, M.D. Joseph T. Coyle, M.D.



Recommended Daily Dose

L Carnosine 400mg - 800mg

# I Carno Shine

L Carnosine 400mg/5ml Syrup

RIGHT DOSE .....

RIGHT RESULT.....

#### Indications:

- Autism Spectrum Disorder.
- Attention Deficit Hyperactivity Disorder.
- Learning Disabilities.
- Epilepsy.

## L-Carnoshine supplements improves:

- **▶** Vocabulary.
- Language comprehension.
- Communication.
- Socialization.
- Object recognition.
- Awareness of surroundings.
- Fine motor skills.
- Auditory processing.





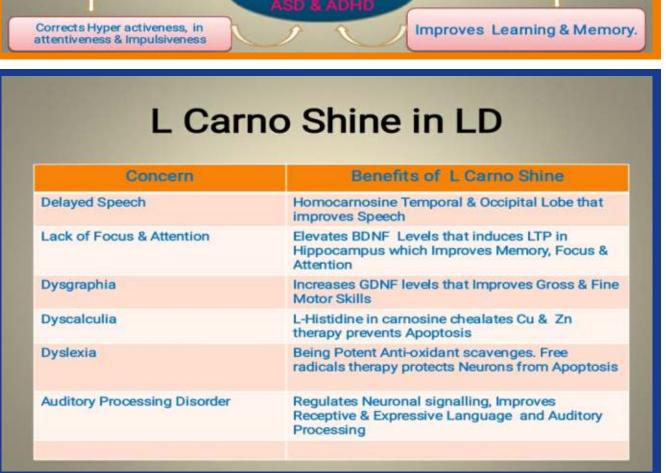
Daily Dose - 5-10 ml

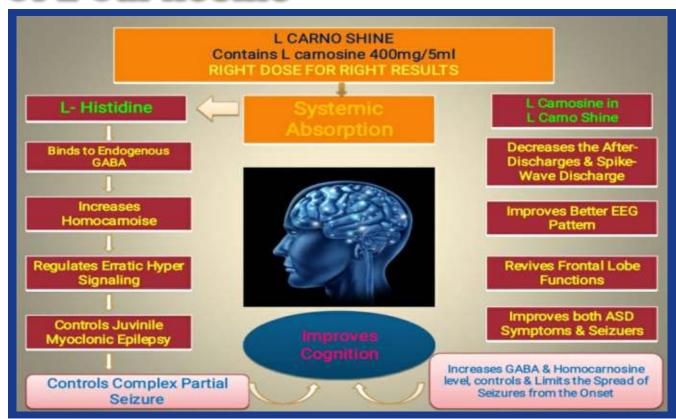


Daily Dose - 1-2 Tab

## **Mode Of Action Of L Carnosine**







#### L Carno Shine in EPILEPSY

Concern	Benefits of L Carno Shine	
Cognitive Impairment	Revives Temporal & Frontal Lobe Function, Thus Improves Cognition	
Absence Seizures	Exhibits Dopominergic action that helps Reducing Blackout Time	
Myoclonic Seizures	Modulates Cu++ & zn++ Influx, Regulates Neuronal Signalling, thereby reduces Sudden & Persistent jerking	
Atonic Seizures	Helps Elevation of Camosine Levels in Muscle, Restoring Muscle Tone	
Delayed Recovery	Scavenges ROS & SOD which Improves Mitochondrial Functions and Protects Gilal & Schwann cell	
Drug Induced Cognitive Decline	Augments Anti epileptic drugs Action & Improves Cognition	
	S. C. San Microsoft	

#### A Preliminary, randomized, double-blind, placebocontrolled trial of L-Carnosine to improve cognition in schizophrenia

K N Roy Chengappa , Scott R Turkin, Susan DeSanti, Christopher R Bowie, Jaspreet S Brar, Patricia J Schlicht, Sherry L Murphy, Michelle L Hetrick, Robert Bilder, David Fleet

Seventy-five symptomatically stable adults with chronic schizophrenia were randomly assigned to L-carnosina as adjunctive treatme (2gm/day) or a matched placebo in a double-blind manner for

L-carnosine as an adjuvant to fluvoxamine in treatment of obsessive compulsive disorder: A randomized double-blind study

3 months.

Somaye Arabzadeh , Maryam Shahhossenie , Bita Mesgarpour , Farzin Rezaei , Mohammad Reza Shalbafan , Zahra Ghiasi , Shahin Akhondzadeh

L-camosine results in significant

reduction of obsessive-computals

symptoms when used as an

adjuvant to fluvouamine.

L-carnosine for Schizophrenia

The investigators' hypothesis is

that oral L-camosine treatment

(as compared with placebo) will

anhance cognitive abilities

Dosage use 500mg/day, increasing each week in titration reaching 2000 mg/day in 4 weeks

(specifically: measures of altention

L-carnosine as an add-on to risperidone for treatment of negative symptoms in patients with stable schizophrenia:
A double-blind, randomized placebo-controlled trial

Alireza Ghajar, Mohammad-Reza Khoaie-Ardakani , Zahara Shahmoradi, Amir-Reza Alavi , Mohsen Afarideh , Mohammad-Reza Shalbafan , Maryam Ghazizadeh-Hashemi , Shahin Akhondzadeh

Since L-campoine has shown effectivenes

in improvement of cognition in patients

with schizophrenia, this 8-week,

Sixty-three patients with chronic

on a stable dose of risperidone,

randomly assigned to L-camesine

randomized, double-blind, placebo-

controlled pilot study was conducted.

entered the study. The patients were

schizophrenia, who were clinically stable

(2gm/day in two divided doses)

L-carnosine for Bipolar Disorder

Dosage use
500 mg/day,titration each week to reach 2000 mg/day in 4 weeks.

THE COMMON FINDING FROM ALL THE STUDIES IS THE DOSAGE USED FOR L CARNOSINE IS 400 MG TO 2 GM.

## INTRODUCING FIRST TIME IN INDIA

L Carnosine 400 mg Dispersible Tablet

## 1 - Carno Shine

RIGHT DOSE.... RIGHT RESULT....

In Cognitive Impairment associated with:

- Schizophrenia
- Alzheimer's Disease
- Bipolar Disorders
- Depressive Disorders

400 mg

OCD Symptoms

400 mg



1 - Carno Shine

\* Each Tablet contain 400 mg

\* Scored Tablet... Better Titration

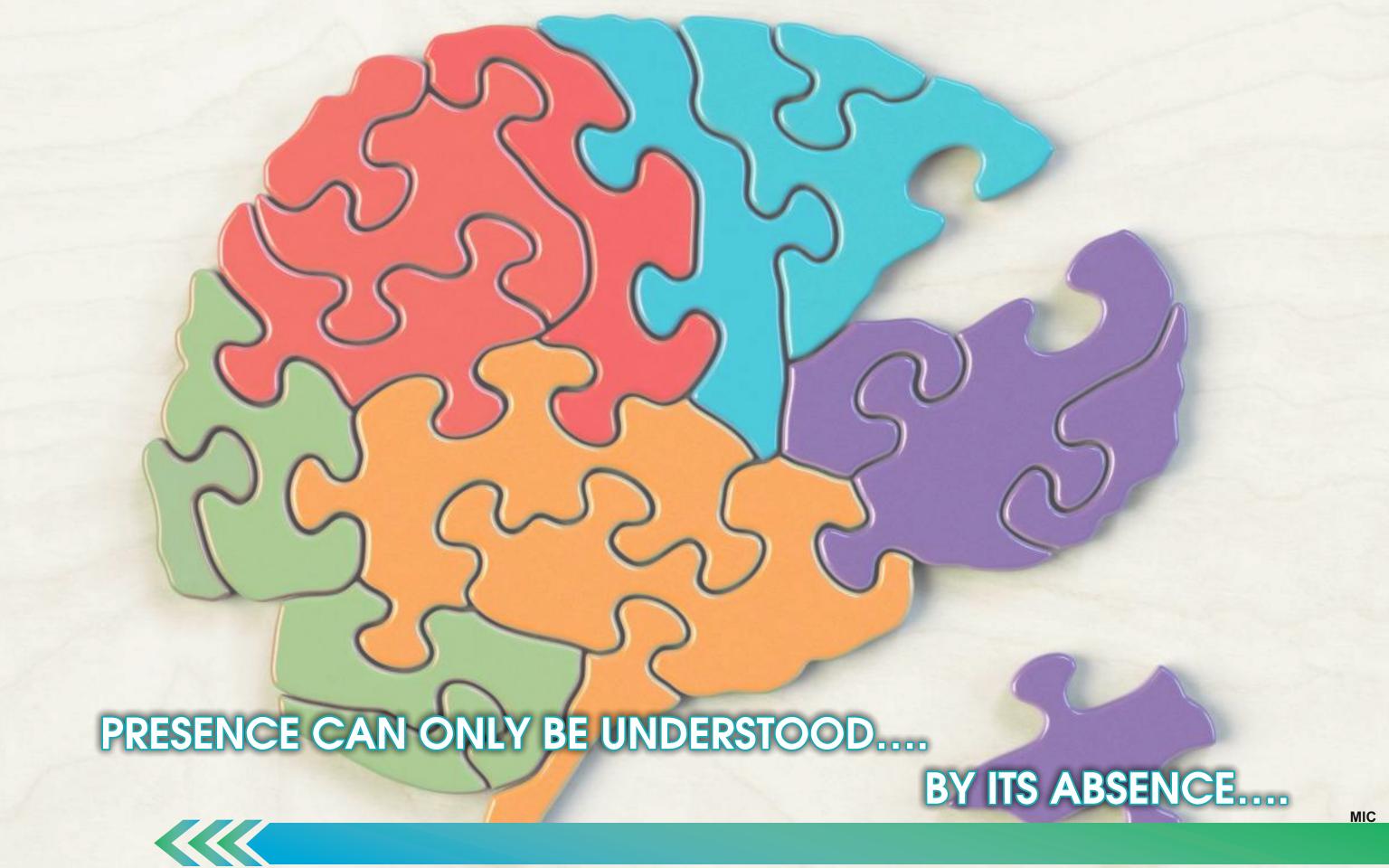
\* Dispersible Tablet... Better Compliance

\* Most Affordable



Daily Dose 1-2 Tab







- The synthesis of methionine from Homocystein, prevents the accumulation of Homocystein in the brain, responsible for many neurodegenerative diseases.
- In the absence of methylcobalamin,methylmalonyl-CoA get converted into methylmalonic acid (MMA), which is a myelin destabilizer.
- Patients with ASDs had the lowest vitamin B12 and the highest homocysteine levels.
- Oppositionality and hyperactivity/impulsivity symptoms in
   ADHD group were related to vitamin B12 and homocysteine levels.<sup>1</sup>

1- REF. Saha et al's results 13 oral vit-B12 (1000  $\mu$  g) for 4 months is effective, giving clinicians more choice, for treatment of children with nutritional vit-B12 deficiency.

- The presence of Methylcobalamin helps the proper functioning of the central nervous system which is dependent on One-carbon metabolism that takes place in the brain.
- The cycle is crucial for the synthesis of DNA, RNA, Neurotransmitters, membrane phospholipids, and myelin.
- Methylcobalamin is a vital participant of the cycle as a cofactor for the synthesis of methionine.
- Protects the Brain Cells and Nerve Tissues.
- Helps in the development of brain, nerve cells, tissues and many other parts of the body.



#### -: Indications :-

- O ASD.
- O ADHD.
- O Degenerative neurological conditions.
- O Developmental Delays.
- O Trigeminal Neuralgia.
- O Depression.
- O For those with a significantly increased requirement.

  (e.g. breastfeeding women, people with severe stress, those suffering from infections).



#### Mecobalamin

Evidence indicates Methylcobalamin is utilized more efficiently than cyanocobalamin to increase levels of one of the coenzyme forms of vitamin B12. Experiments have demonstrated similar absorption of methylcobalamin following oral administration. The quantity of cobalamin detected following a small oral dose of methylcobalamin is similar to the amount following administration of cyanocobalamin; but significantly more cobalamin accumulates in liver tissue following administration of methylcobalamin. Human urinary excretion of methylcobalamin is about one-third that of a similar dose of cyanocobalamin, indicating substantially greater tissue retention.

Oral vit-B12 (Methylcobalamin 1000  $\mu$ g) for 4 months is effective, giving clinicians more choice, for treatment of children with nutritional vit-B12 / Methylcobalamin deficiency.<sup>2</sup>



**Makers Of** 













