



PDD

(Pervasive Developmental Disorders)=Autism.



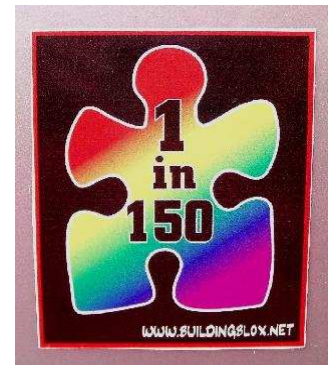
What are PDD?

- Pervasive impairment in several areas of development including social interaction and communications skills.
- 5 sub-categories:
 - 1-autism.
 - 2-Aspergars syndrome.
 - 3-Rett syndrome.
 - 4-PDD-NOS.
 - 5-Disintegrative DD.

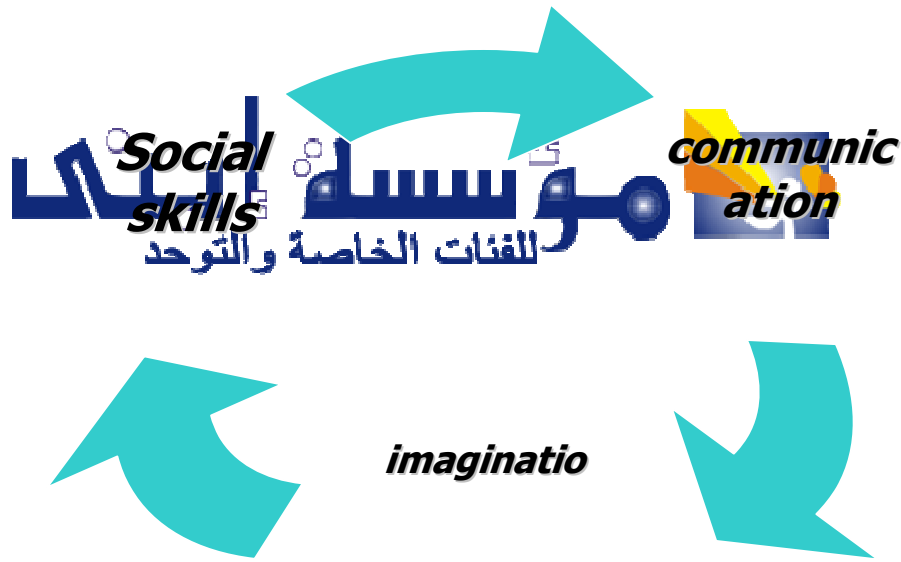


Prevalence of autism

- All races and all cultures.
- More prev.than AIDS & Rheumatic h.diseases in Children.
- Before 3 years old.
- Boys : girls(4 : 1)



Triad of autism



A U T I S M

Persons with autism may possess the following characteristics in various combinations and in varying degrees of severity.

 Inappropriate laughing or giggling	 No real fear of dangers	 Apparent insensitivity to pain	
 May not want cuddling	 Sustained unusual or repetitive play; Uneven physical or verbal skills	 May avoid eye contact	 May prefer to be alone
 Difficulty in expressing needs; May use gestures	 Inappropriate attachments to objects	 Insistence on sameness	 Echoes words or phrases
 Inappropriate response or no response to sound	 Spins objects or self	 Difficulty in interacting with others	

1-800-3AUTISM
Autism Society of America
7910 Woodmont Avenue, Suite 650 Bethesda, MD 20814-3015
January is National Autism Awareness Month.
Adapted from original by Professor Haido Sheri, University of Queensland, Brisbane Children's Hospital, Australia

Causes of autism

- **Genetic susceptibility**
- +
- **Environmental causes.**
- (viral, fungal, MMR, head injuries.....etc.)
- Functional disorder not only affecting the brain; but the whole body.





Fungal infections Theory:

- Candida albicans > toxic compounds as toxic alcohols-aceton-hydrogen sulphide.
- If, liver cannot clear > brain > depress the nervous system, slow speech areas, mental syndrome, behavior disturbances

Leaky gut Theory: (Autistic enterocolitis)

Intestinal dysbiosis (irritation) > intestinal inflammation > widens the junctions between the cells of the intestinal lining and allowing endotoxins and incompletely digested particles to be partially absorbed > blood stream.

Autistics Intolerant to gluten & casein : (about 72% of cases).

Autistics sensitive to salicylate-like foods and most additives. (about 60%)

GFCF DIET:

- Gluten stands for: dipeptide found in wheat, oats, rye, barley, spelt, kamut and their products-food starches, semolina-malt, vinegars, soy sauce, gelatin, flavoringsetc.
- Casein means : dipeptide found in milk and milk products –caseinate products as hot dogs, soy cheese.....etc.

Mechanism of intolerance:

- Incomplete digestion of gluten and casein containing foods > dipeptides (gluten, casein) which pass through the gut (leaky gut) > blood stream > BBB.

- >brain >act on opioid receptors(endorphins & opiate drugs site
- So, brain metabolically less active esp. speech, response, attention.

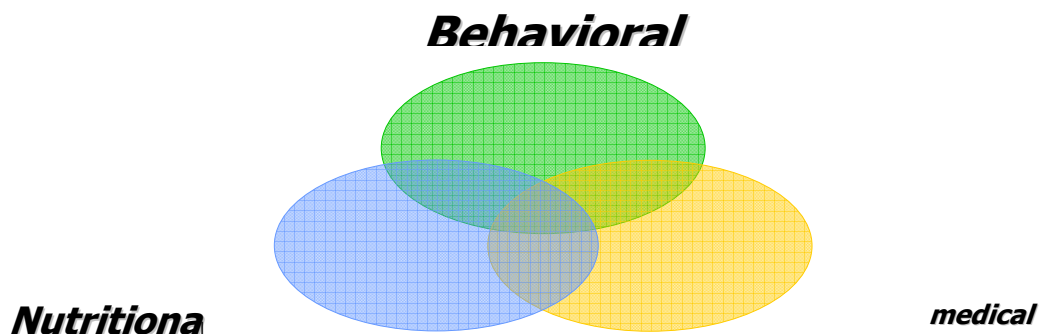
Food intolerance in Autism



- Morphia addict
- Pain unresponsiveness
- Inattention
- Speech abn.
- Repetitive actions
- Sleep disturbances
- Aggressions

- Autistics
- Cannot express pain
- Attention deficit
- Abn. speech develop.
- Repetitive routine actions
- Sleep disturb.
- Fears, nervousness

Management of Autism



Aim of intervention:

- Behavioral therapy:
- To increase (improve) the abilities to:
- Development

- Learn
- Social skills & communications.
- Family education and support.

2-medical therapy

- Medical therapy:
- Only for related medical conditions or sever symptoms.



Epilepsy

self injurious

3-complementary & Alternative therapy :



- | <u>Biological</u> | <u>Non-Biological</u> |
|-----------------------|-----------------------|
| • 1-immunity | 1-AIT |
| • 2-chelation | 2-Sens.IT |
| • 3-Ttt.intestinal T. | 3-music,hug,play |
| • 4-Diets | 4-option,dolphin.etc. |

Biological Therapy:

- 1-Immunity improvement and support.
- 2-chelation of heavy metals toxicity.
- 3-ttt.of intestinal tract.
- 4-Diets.
- 5-vitamines and minerals supplem.
- 6-ttt. Of malnutrition.

Biolog.Therapy(cont.)

- 1-Immunity improv.&support:

- Decrease causes of allergies.
- Antiviral ,antifungal ,interferon's.
- Ig globulins.
- 2-Chelation therapy.

Biolog. Therapy (cont.)

- Treatment of Intestinal tract:
- Digestive EZs
- Secretin hormone.
- Antifungal drugs.
- Replenish intestinal flora.

Biolog. Therapy(cont.)

- 5-vit. & minerals supplementations:
- Aim:for better and efficient functions of neurotransmitters.
- B6,B12,vit.A,C,folic acid + DMG, TMG.
- Omega-3 F.a.
- Iron,zinc,.....etc.

All Autistics are Malnourished.

- Causes :
- Eating habits.
- Routine behaviors.
- Specific Diets
- Intestinal illness (leaky gut).
- Heavy metal toxicity.
- Weak intestinal movements.
- Intestinal infections.
- Food intolerance.
- Dysfunctional taste and/or smell senses.

How to restore intestinal health?

- Allergic tests and intolerance test.
- Stool analysis.
- Urine analysis.
- Blood,hair,nail test .

- Then ;eliminate the cause,restore intestinal functions and bact. Flora.

Ensure that the child will receive all the essential nutrients he needs to grow and thrive.

GFCF diet,what expected changes?

- After initial negative reaction for 2-5 weeks.
- Improvement in :
 - Digestion
 - Behavior
 - Attention
 - Language skills
 - Social skills.

GFCF diet, is it difficult?

- May be no effect, until up to 7 months.
- Expensive
- Difficult to follow,to find.
- Difficult to ensure appropriate nutrition for the child.
- Put stress on the child.
- Gluten is found in most grains.

What are grains gluten-free?

- Rice.
- Potatoes.
- Corn.
- Hommos.
- Tapioca.

