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20/02/2009

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Urinary Peptides

HPLC UV det		ref.ranges	
Peptiduria	**150**	<90	increased peptiduria
gluten derived peptides			
Gluten derivatives	**3,4**	<10	mean value
Major gluten derivatives	**2,8**	<6	mean value
gluten derived opioid peptides			
Gluten morphine A4	**2,8**	<2,5	slightly increased value
Gluten morphine A5	**3,7**	<1,7	moderately increased value
Gluten morphine C	**1,2**	<1,7	mean value
Gluten morphine B5	**4,6**	<1,3	moderately increased value
Casein derived opioid peptides			
Casomorphine 1-3	**0,8**	<1	mean value
Casomorphine 1-4	**2,9**	<4	slightly increased value
Casomorphine 1-4 NH2	**2,3**	<1	moderately increased value
Casomorphine 1-7	**0,5**	<2,5	traces
Casomorphine 1-8	**2,3**	<8	mean value
Other opioid peptides (bioclinical markers)			
Peptide P1	**1,1**	<1	moderately increased value
Peptide P2	**2,2**	<2	moderately increased value
Peptide HK1	**2,2**	<2	slightly increased value
Peptide HK2	**9,0**	<6	slightly increased value
Tripeptides increasing serotononergic activity			
p-glu-trp-gly	**4,2**	<1,4	moderately increased value
p-glu-trp-gly NH2	**0,4**	<1,4	mean value
Other opioid peptides (issued from fungus ?)			
Deltorphine	**1,4**	<1	moderately increased value
Dermorphine	**0,6**	<1	traces
Non peptidic psycholeptic molecules			
indolyl-acrylyl-glycine	**23,3**	<18	slightly increased value

urinary creatinine 720 mg/l

LABORATOIRE de BIOLOGIE MEDICALE

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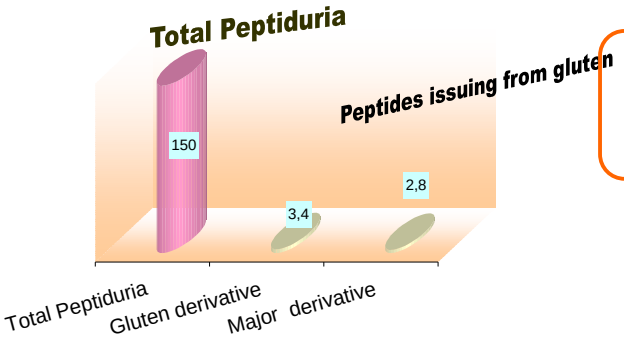
20/02/09

Urinary Peptides

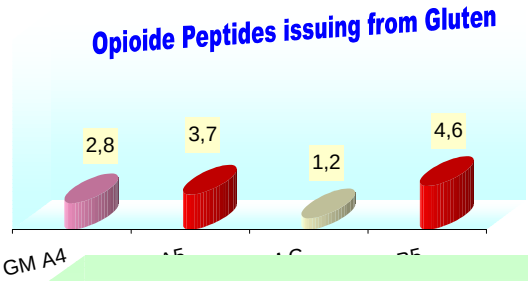
[results µg / µmol Cr]



Interpretation

Sharply increase in total Peptiduria

Average rate of gluten derivatives

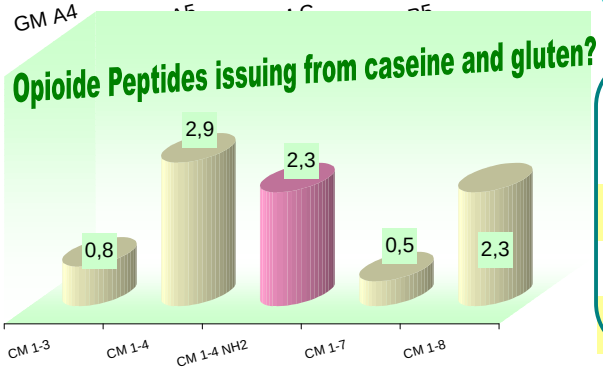


Increase in A4 Gluten Morphin reflects the augmentation of gluten with opioid activity.

Increase in A5 Gluten morphin reflects the augmentation of gluten with opioid activity.

Absence in B5 Gluten morphin

Sharply increase in C gluten morphin reflects the remarkable augmentation of gluten with opioid activity.



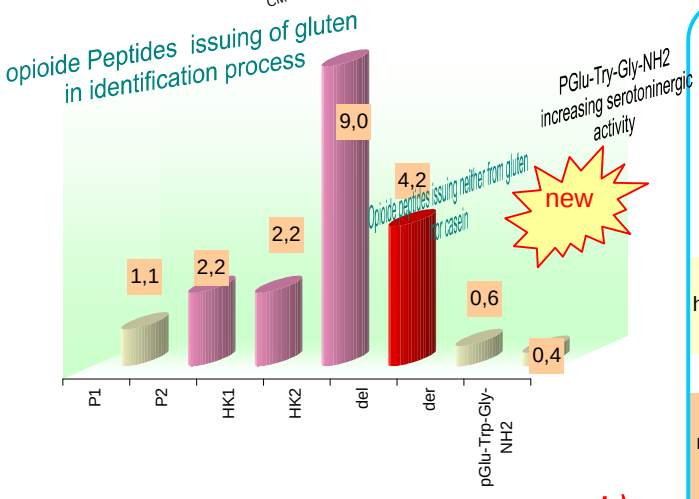
Small amounts of Casomorphin 1-3

Small amounts of Casomorphin 1-4

Increase in Casomorphin 1-4 amide reflects the augmentation of casein with opioid activity.

Small amounts of Casomorphin 1-7

absence in Casomorphine 1-8



Samll amounts of peptide P1

Augmentation of P2, opioid peptide issuing from gluten.

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Augmentation of HK1, opioid peptide issuing from gluten.

Augmentation of HK2, opioid peptide issuing from gluten.

Peptides HK1 & HK2 (HK like hyperkinetic) are associated with hyperactivity syndrome and attention deficit in children and hyper-agitation, or impatience in older subjects.

Sharply augmentation of Deltorphine

Deltorphine, isolated from skin of mollusk, is found in the majority of normal children and in high quantities in autistic children. It is very specific for the opioid receptor delta 2. Its significance is not yet confirmed, fungi from digestive system or

Samll amounts of Dermorphine

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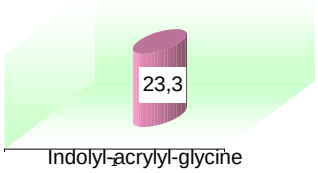
Psycholeptic molecule (non peptide molecule)



Frequently found at high quantity in the autistic children, it represents an increase in the intestinal permeability and a biochemical marker of this disease.

Urinary Peptides

20 years after Dohan showed the relative incidence of the schizophrenia and the cereal consumption, Reichelt and his coworkers have brought back the circumstance of quietly high peptiduria among the autistic and schizophrenic children.

These **peptides** resulting in majority of incomplete digestion from wheat proteins - gliadine- and dairy -casein -, disturb physiology and cerebral morphogenesis in young children. A deficit in peptidases of the digestive mucous membrane and other tissus(?) would be a key pathogenic element of autism and schizophrenia and many others disturb, psychiatric in particular immune, inflammatory, etc.....

The treatment rests primarily on the exclusion of the sources of accused peptides, cereal or dairy or both, and take some medicine such as
- ***Serenaid*** (multi-enzyme nutritional aid containing Dipeptyl Peptidase IV (DPP IV). (http://www.klaire.com),
- ***Creon*** (Pancreatic deficiencies: especially cystic fibrosis and chronic pancreatis (lipasees amylases and proteases)(http://www.solvay.com)