



The AMA's Current Policy on Hair Analysis - - Adopted in 1984 and Reaffirmed in 1994 Is:

- The AMA opposes chemical analysis of the hair as a determinant of the need for medical therapy and supports informing the American public and appropriate governmental agencies of this unproven practice and its potential for health care fraud *

* Hair analysis: A potential for medical abuse. Policy number H 175.995,(Sub. Res. 67, I-84; Reaffirmed by CLRPD Rep. 3 - I-94)



Hair Analysis

(cont.)

- In **1999**, researchers from the **California Department of Health** located **nine laboratories** and sent **identical samples to six of them**. The **reported mineral levels**, the alleged **significance of the findings**, and the **recommendations** made in the **reports differed widely** from one to another. The **researchers concluded** that the procedure is **still unreliable** and recommended that government agencies act vigorously to protect consumers .*
- **Even if hair mineral content were measurable with 100% accuracy, it makes no difference because the RESULTS ARE NOT USEFUL FOR MEASURING THE BODY's NUTRITIONAL STATUS.**
- **Should you encounter a practitioner who claims otherwise, run for the nearest exit!**
- Hair analysis: A potential for medical abuse. Policy number H-175.995,(Sub. Res. 67, I-84; Reaffirmed by CLRPD Rep. 3 - I-94)



Chelation (ke-la´shun)

Stedman's Medical Dictionary

- Complex formation involving a metal ion and two or more polar groupings of a single molecule;
 - Thus, in heme, the Fe^{2+} ion is chelated by the porphyrin ring.
 - *Chelation* can be **used to remove an ion from participation in biological reactions**, as in the *chelation* of Ca^{2+} of blood by EDTA, which thus acts as an anticoagulant. [G. *chele*, claw]



Safety of Chelators - **NO**

- **Most human chelators are a form of protein containing thiols, also called sulfhydryls**
 - Meaning a **sulfur** and hydrogen compound.
 - **Sulfa drugs** are known to be deadly for people who are intolerant
 - *["Autistic" individuals are NOTED to have "sulfur" issues]*
 - Most of the drug versions are **synthetic molecules**.
 - Molecules created by man - **not naturally found in humans**.
- *There is possibility of not being able to metabolize such compounds, allergic reactions, auto immune reactions, redistribution of mercury, and other dysfunctions.*



CNS toxicity (of chelation):

- Dr. Haley, Ph. D., has shown that EDTA can cause a **100X toxicity increase** with mercury in the brain.
 - **Severe damage** to the brain tubulins can occur, resulting in Alzheimers like dementia.
 - What about DMSA???

IVIG Therapy - Separating Fact From Wishful Thinking

Howard M. Lederman, MD, PhD

Contemporary Pediatrics June 1996

- The IVIG produced by Baxter, Gammagard, caused an outbreak of **hepatitis C**
 - Several hundred cases of hepatitis C resulted from contaminated lots of Gammagard.
 - Many patients developed chronic hepatitis; several have died.
- Following this outbreak, many manufacturers **added virus neutralization procedures**
- Nevertheless, it must be remembered that **IVIG is a pooled plasma product and therefore will always carry a theoretical risk of transmitting viruses and other biological agents.**

WHAT DOES ALL THIS MEAN:



IF these children *are* ***NOT Brain Damaged . . . (to BEGIN with)***

- They **can** learn...
- They **can** be helped...
- They **can** return to essentially normal, or “above normal” function, ***but . . .***



Doctors See Autism on Rise

LINDSEY TANNER, AP Medical Writer 5-07-2001

- The **American Academy of Pediatrics** has issued its **first guidelines on autism** amid reports that its prevalence **may be increasing**
- **Early diagnosis** is critical for effective treatment. Suspected cases should be promptly **referred to specialists**
- **Conservative estimates suggest that 1 in 1,000 children has autism**
 - At least twice as many have related disorders
 - Research from the 1960s suggested it was about half as prevalent back then



Doctors See Autism on Rise

(cont.)

- The **apparent increase** may reflect a true rise in prevalence, changes in diagnosis criteria to include milder versions of autism, and better recognition by parents and doctors
- **Psychologist** David Holmes, an adviser to the Autism Society of America
 - While there is **no cure**, “the sooner we see these kids as professionals, the better the **prognosis**”



Doctors See Autism on Rise

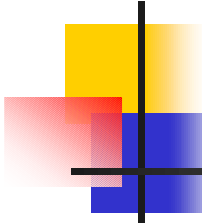
(cont.)

- Autism is much more common in boys and **typically shows up by age 3**
- Affected children may not respond when talked to, fail to make eye contact and engage in repetitive behavior such as **rocking and head-banging**
- They often have a severely limited range of interests and **may be unusually sensitive to sounds or touch**



Doctors See Autism on Rise (cont.)

- Recent British research referred to measles-mumps-rubella vaccine
 - “that has not been substantiated by more in-depth research”
 - **“...should reassure parents”**
- Numerous unconventional treatments also have emerged, including the highly publicized digestive enzyme **secretin**.
 - But a study in **May's Pediatrics** involving 64 autistic children found it was **no more effective than a placebo**
 - **Bolstering previous research showing it had no benefits**



When vets change careers

Twin Sister's

S.G. D.O.B 9/99

- CC: ADHD & Autistic Spectrum Disorder – ?? global delays
- **Exposed to Haldol and Cogentin in utero – TWIN A**
- **Adopted – Father** – African American - heroin addict, homeless, violent. **Mother** – Caucasian - Methamphetamine addict, psychotic, homeless
- Pregnancy induced **hypertension** – proteinuria, epigastric pain
- Premature – 33 wk. twin C-Section
- Apgars 9/9
- Tremors, fine and gross motor abnormal
- Extremely hyperactive
 - Neurologist > PSYCHOTIC
- On Ritalin 10mg. Bid
 - Risperdal 2 mg.
- 11/99 **Sed rate 1**, Ferritin 32, SGOT 26, IgA 81L, **NK 5%**, Candida IgA 280H, Candida IgM – 148H, **HHV6 1:2560H**
- Nizoral, Valtrex >Famvir
- **Paxil + LOW DOSE Risperdal**
 - 4 months later > begin to decrease Ritalin
- Wellbutrin
- Difflucan



S.G. D.O.B 9/99

(cont.)

- Celexa
- *Amphotercin B*
- **Risperdal – LOW dose**
- **Off anti-viral**
 - *OK so far . . .*
- *Doing very well*
 - ***Alert, bright eyed***
- *Good eye contact*
- *In a **TYPICAL** kindergarten class*
 - *K-1 class with aide*



S.R. - D.O.B. - 9/99

- **Twin B**
- Same pre-natal exposure as sister
- Diagnosed Autistic by Regional Center
 - More “Autistic” than sister
 - Did not talk till 2 yr. old
- Severe skin rashes (?? Eczema) / allergies
- PMH - Sinusitis, OM, **Asthmatic** bronchitis
- **Global dev. delay**
- **Episodes of tonic posturing and repetitive myoclonic jerks**
- Has periods where she stares and is briefly unresponsive – frequent temper tantrums
- Aggressive toward other children
- On Ritalin 10mg. 2 x day
- Lab: **Ferritin 27, T. Bili 1.4, IgA 70L, NK 5% , Candida titers, HHV6 1:80H**
- Nizoral, Valtrex, **Risperadol**
- Famvir
- > begin to decrease Ritalin dose
- “ **It's wonderful to see her calm, without being a zombie** “

The Problem Is:

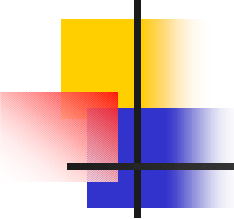
“These Are Children”

- ◆ Many pharmaceutical firms are focusing on “**Neuro-Immune**” research / pathways
- ◆ Many research centers have been or are beginning to focus on “**Neuro-Immune**” and these disorders
- ◆ The normal system could take **another 10 – 15 years to evolve** to a level of addressing these issues truly differently
 - ◆ **Sadly, unfortunately, literally every “moment” counts for these children . . .**



An Unprecedented Opportunity IS Possible!

- IF we can “focus” upon a radically different, but now **scientifically logical approach . . .** **Changes can occur quickly**
 - Through **advanced clinical application** of solid, good science, via the connection (thanks to technology) of **outstanding, leading researchers . . .**



New Information Emerges Strengthening Our Understanding of the “Neuro-immune System” and Its Influences, Regulatory Responses, Feedback Loops, etc.

- **Unfortunately**, under the normal evolution of science (even accelerated), our “**system**” is **still many years away** before thinking agents like this would be “ready” to be investigated “knowledgably” in these children.
 - **ONE day that will happen**, it is inevitable, it has only become a question of **how soon**. *Why not NOW?*
- The **NIDS Medical Board** represents **researchers** that have already been **working in the field of “Neuro-immune” for the last 19 – 23 years**
 - We need to **focus** behind the NIDS Medical Research Board as a **path to trials with new agents**



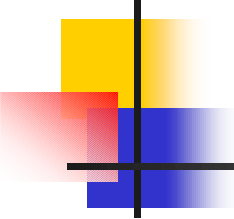
Unlike Any Effort in the Past, the **NIDS** Effort Is Based on Science, New Information, New Technologies

- While I have been pointed to **merely** as another “**clinician**,” the **NIDS medical board** is composed of **researchers** who are **leaders** in their fields, who would **never gamble their reputation or prestige** on doing any study that was not based on **good, hard, science and logic**
- The **NIDS hypothesis** has been validated by every pharmaceutical company and researcher that has reviewed it to date

GENETIC AND IMMUNOLOGIC CONSIDERATIONS IN AUTISM

Korvatska E, Van de Water J, Anders TF, Gershwin ME Neurobiol Dis 2002 Mar;9(2):107-25 Erratum in: Neurobiol Dis 2002 Jun;10(1):69 Division of Rheumatology, Allergy, and Clinical Immunology, University of California at Davis, Davis, California

- Recent epidemiological surveys
- Recognized as common **childhood psychopathologies**
- **Strong genetic determinant** consistent with a **polygenic mode of inheritance**
- Parallel evidence of **immune abnormalities** in autistic patients argues for an **implication of the immune system in pathogenesis**
- Emerging concerns addressing the disease incidence and triggering factors
- Neurochemical and immunologic findings are analyzed in the context of a neuroimmune hypothesis for autism
- Studies of disorders with established **neuroimmune nature** indicate **multiple pathways** of the pathogenesis



MATERNAL INFECTION: WINDOW ON NEUROIMMUNE INTERACTIONS IN FETAL BRAIN DEVELOPMENT AND MENTAL ILLNESS

Patterson PH. :
Curr Opin Neurobiol 2002 Feb;12(1):115-8 Biology Division, California Institute
of Technology, Pasadena, California

- Direct viral infection of the developing brain can have disastrous consequences for the fetus
- More insidious are **viral infections of the** pregnant mother
- Recent mouse model - respiratory infection in the pregnant mother leads to marked behavioral and pharmacological abnormalities in the offspring
- Some of which are relevant for **schizophrenia** and **autism**
- This effect on fetal brain development might be caused by the **maternal antiviral immune response, possibly mediated by cytokines**

Autism / PDD

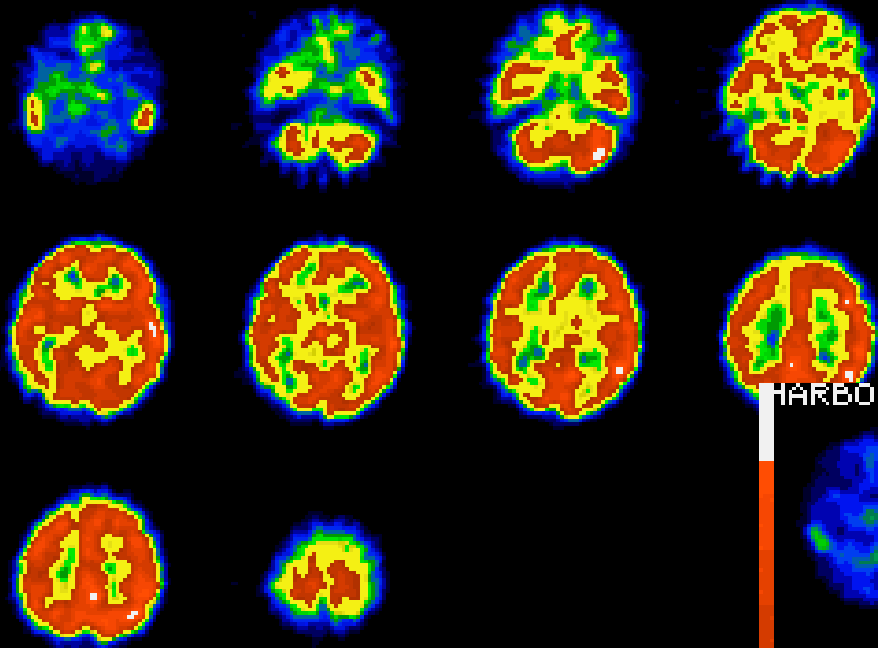
ADHD / ADD

CFIDS / CFS vs

"NIDS"

- Signs
- Symptoms
- ?? Anatomical findings
- Millions of Dollars of Research
- ?? NO OBJECTIVE UNDERSTANDING
 - ?? How long before able to think of pro-active "therapy"
- **Definable** NeuroSPECT abnormalities
- **Definable** Immune Abnormalities
- **Cognitive dysfunction**
 - Specific tests open to selection of patients
- **Ability to focus on new therapy applications . . . Scientifically - NOW**

HARBOR UCLA MED CTR

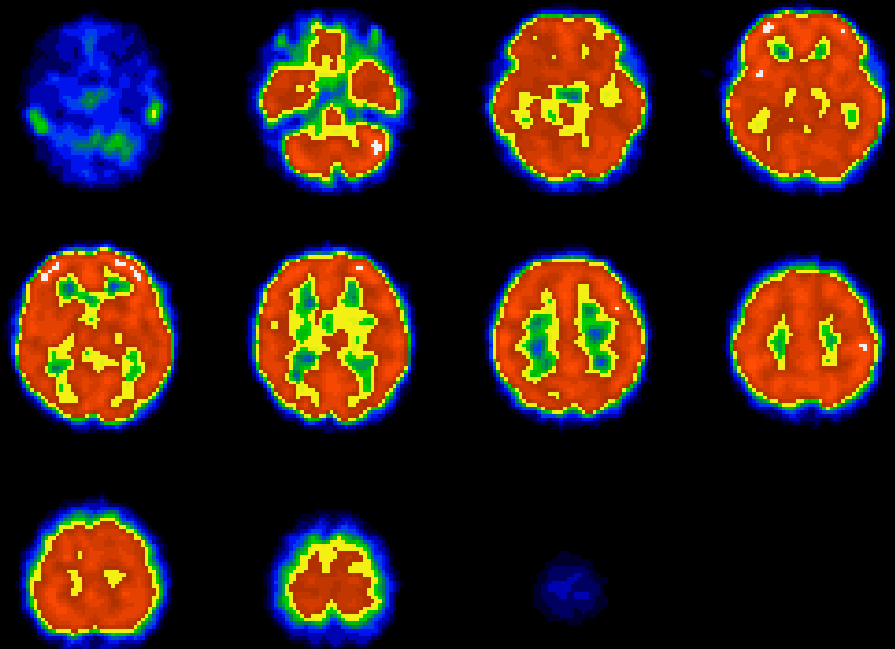


63 % THRESHHOLD IN COLOR SC

U= 625
L= 90

BEFORE

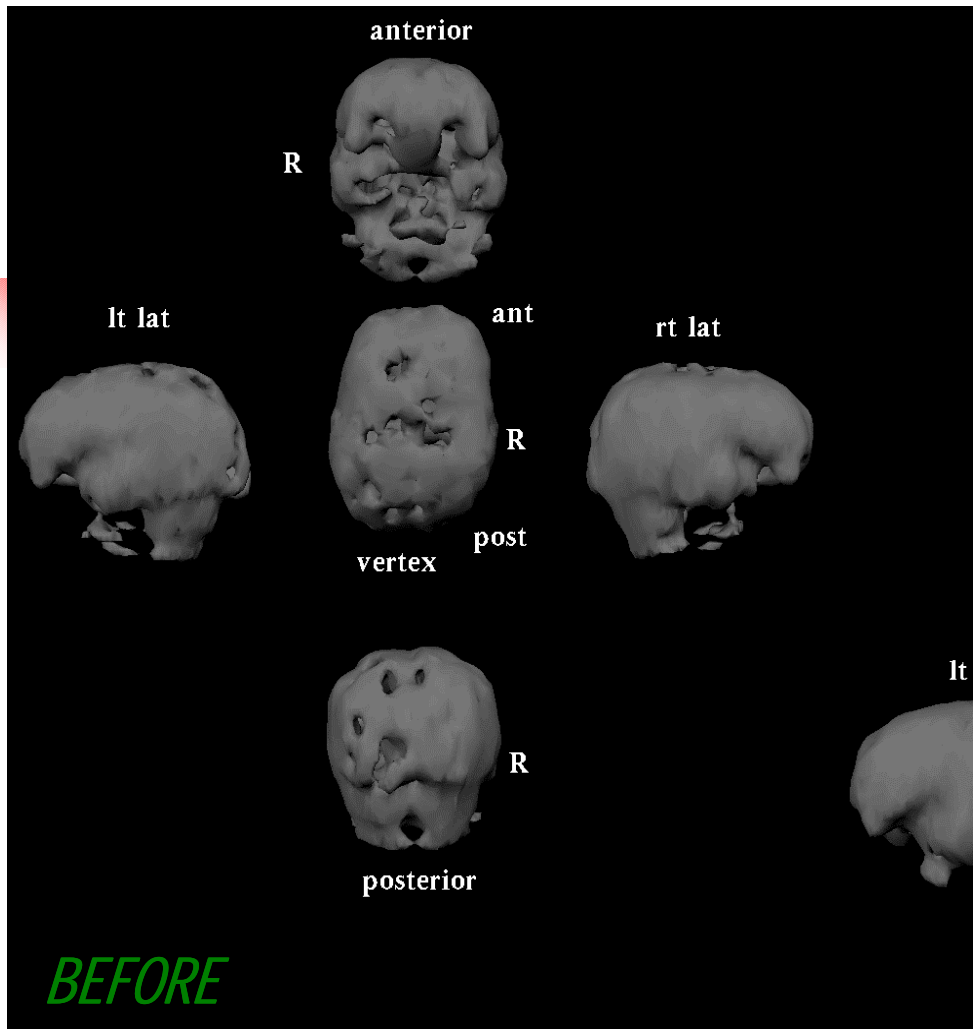
HARBOR UCLA MED CTR



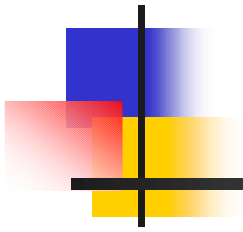
60 % THRESHHOLD IN COLOR SCALE

U= 877
L= 70

AFTER



WEBSITES:



www.NIDS.net

www.neuroimmunedr.com