How To Interpret Lab Tests

Dietrich Klinghardt, modified from the work from:Gay Langham-Mc NallyCCN

HCL deficiencysodium 145, chloride 105

if lower: give HCL (Betaine HCL) before meals

alk phoslow normal or below

give proteolytic anti-inflammatory enzymes, zinc and magnesium

Ph

CO2: 25-27

the lower the more acid you are. The higher the more alkaline.

Adrenals:

sodium 145 potassium 4.6

If potassium 1/3 off either direction, problem. If sodium off 3 points either direction, also sodium divided by potassium should be 35. If below 32: hypofunction., If above 38 hyperfunction

Sleep apnea:

rbc 4.6 hemoglob 14.6 hematokrit 42

If Hgb, rbc or Hkt up: the more up, the more likely to have sleep apnea

Treat with Carbo Veg 30 C 2 pellets every night

Osteoporosis:

Alk phos: 65-85 (zincand magdependent)

Calc 9.8-10.2

Phos: should be 1/3rd of calcium

Blood aggregation:

Platelets 250 000. Hkt: 42

The higher the more toxic metals

Inflammation /autoimmunity

Cholesterol 165-185

Triglycerides 50 % cholesterol. If lower = autoimmune

Basophils: 0 -if higher: inflammation

Ferritin: 30-50 if over: inflammation/free radical pathology. If high give copper and

selenium

Low cholesterol implications

Myelin sheaths brain tissue immune complexes hormone production pesticide protection

Viral infections

Lymphocytes: neutrophils below 55 (55-60) -the lower the more viral

Lymphos above 28 (25-28)

albumin 4.5, if below= viral

total protein 7.3, if higher chronic infection (every point above 7.2 -the more

chronic)

Globulin should not be over 2.8

Classic viral infection: virus 4 feet away from people in air, alive for 4 days

Neutrophils low

lympho high

Tot. protein low

albumin low

glob (2.8) low if below =trouble

Gluc 6 phosphate dehydrogenase 10-11, if below 10; don't give iv Vit C

Lyme indicators

Initially: iron, ferritin, cholesterol immunity up: neutros climb upwards and

lymphos begin to drop

Classic pattern: declining cholesterol and iron

increasing ferritin (decreasing if micro bleeding)

Neutros continue to climb

Lymphos continue to drop

Thyroid dysfunction

T3 uptake 32 (lower is low T3)

T4 8.5-9.0

TSH: 0.4-0.9 (British values)

If TSH below 0.4 and no adverse symptoms and on T3 = ok for a while

Amino acid deficiency

BUN 16-18 goes down . if goes down in cancer below 9-death soon

Albumin 4.5: if low, heart "melts" -edema death

Transporter of bili, fatty acids, hormones, protect fatty acids from oxidative damage, binds drugs and residues

Build alb and glob with hemp seed, eggs, shellfish, (avo for glutathione)

Glob 2.8

Plasma amino acids

Aminos: taurine, glycine, gaba high: too much stress -try to calm excitiation

Taurine mainaints magnesium and potassium

Detox aminos: methionine, glycine, cystine, cysteine, taurine

Anti viral aminos: lysine

Neurotransmitter aminos: trypt, phenylanine, glut, GABA, glycine, tyrosine, asparagine, aspartic acid, glutamic acid

Pesticides/heavy metals

HDL normal 60-90

over 90: pesticide exposure and toxic metals

LDL goes up with toxin-release related inflammation (acute state -requires protective action, i.e. chelation, complexing or clathrating agents)

Toxic metals

platelets above 250 000

HDL goes up immediately, platelets slower (chronic state)

Alcohol, drugs, sugar intake

GGT 10-15= normal. If higher, above is true

Allergies

eosinophils 0-2. If higher: allergic state

B6/Vit C

MCV 90-92 (lower than 90 =B6/C deficiency)

MCH 28-29 (higher then 29 = B6/Vit C deficiency)

B12/folate

MCV above 92

MCH 28-29 (the higher the worse def.)

RDW 12-12.9 (reticulocyte diameter width) -the higher the more deficient

MCHC 32-33

Lyme patients 50 mg B12 per day i.m

Paralysis: 100 mg/day (!)

Vit K injections work well for pain

Viral anemia

All low:

Iron 100-110, rbc: 4.6, Hemoglobin14.6, Hkt 42.0

Bakterial anemia

Elevated ferritin and lowered iron

Ferritin 30-50 (bacteria use iron as transporter -sequestered iron in ferritin)

Other markers low

Iron anemia

TIBC should be 3 times what iron in serum is

Normals: rbc: 4.6. iron 100-110, Hkt:42, Ferritin 30-50

Hgb 14.6

Acute infection:

Normal: Wbc not over 6.9. If higher: acute infection

5.5-6.8 = chronic infections (sinuses, gums, STDs, teeth, URIs)

Mineral deficiency (fix in order to fix hormones)

Alk phos: 65-85 Calcium 9.8-10.2 Phos 33% of calcium

Hair

Look at sulfur first. If low, false neg readings on toxic metals
Normal 50-52 000. If higher: gut inflammation.
If iron high: = toxic metals much higher then shown
If essential minerals low: give minerals. If high, you do not know what it means. Get packed red blood cell test.

Toxic metals

Antimony, arsenic, nickel, tin, cadmium =pesticides
Germaniun creates oxidation = important and good in Lyme 20 mg/day. Too
much: neurological disorders

Bismuth: toxic material. Good for H pylori (get from Thorne: Bismuth citrate May need blood bismuth level

In whole blood cal and mag should be high (cal higher then mag, if revrsed: phos low = ATP def and vit D def.) Test only gives numbers for this moment!

Transient value

Cadmium allowed in white non organic rice