The Healthy Brain Solution for WomenTM

BASIC LAB TEST LIST

How and Where: Go to your local hospital or laboratory, or drawing center (Quest, LabCorp, etc.---for this you'll need your local licensed health care practitioner to write you an order.)

Or order kits online [most of the tests below are available for self-pay without a doctor's order at www.lifeextension.com (click on "Blood Testing")] or www.requestatest.com or as given below.

→ NOTE ON FASTING: You'll need to fast (water only) from 8 PM the night before and best to go in the morning by 9 AM for most accurate results. Go ahead and drink water before you go to the lab in the morning. It will make your blood draw easier (your veins will be more accessible.)

Date:		
Ordering Physician Inform	nation:	
Physician Name:	Dr. Signature:	Fax Results to:
NPI #:	Phone Number:	License #:
Office Address:		
Patient Name:	Birthdate:	
Address:		Phone:
Insurance:		

ICD 10 Diagnosis Codes: (see codes provided at end of this document)

ATTN LAB TECHNICIAN: Please do Only Tests Checked below:

	Critical Tests	Test those checked below	Optimal Values	Comments; Lab Test Codes Some CPT codes and LabCorp Codes are included for less common tests.
Inflammation and Protection				
ApoE4 is a marker for increased tendency fro inflammation and therefore, for Alzheimer's, if not addressed with a comprehensive preventive approach. Measure of inflammation, cardiovascular risk factor	Apo E genetics (alleles) hs-CRP		2's (lower risk than average) 3's (average risk) < 0.9	
Builds up when B vitamins are inadequate; toxic to bones, brain and arteries if in excess	Homocysteine		< 7	
Albumin is a nutritive protein made by the liver. Globulin refers to antibodies. Elevated antibodies may indicate an overactive, inflamed immune system, autoimmunity or hidden	Note: A/G ratio (albumin/globulin)- is included in CMP test- Comprehensive, Metabolic Panel- listed below	No need to do in addition to "CMP" below	Ratio: > or = 1.8 >4.5 (albumin)	

infactions among others	T			
infections among others. Essential vitamin for nerve health. Needed for myelin production and repair (the protective coating on the nerve processes.)	Vitamin B12		500-1500	
Essential for metabolism, DNA synthesis, keeping homocysteine in check.	Folate		10-25	
Important bone trophic (growth) hormone.	Vitamin D-25-OH		50-80	
One of the most important metabolic factor in preventing and treating cognitive decline.	Fasting insulin		< or = 4.5	
The standard screening test for pre-diabetes and insulin sensitivity.	Fasting Glucose- is included in CMP test- Comprehensive, Metabolic Panel- listed below	No need to do in addition to "CMP" below	70-90	
A measure of average blood glucose over 2 months. Very important to know as glucose can be normal fasting, but have unhealthy spikes after meals, for ex. Even healthy people should check this, though insurance may not pay unless diabetic.	Hg A1c		<5.6	
Cholesterol profile: an important marker for atherosclerosis risk.	Total Cholesterol		>150 for all; < 200 in most individuals	
The "good" cholesterol that carries cholesterol back to the liver and out of the body.	HDL		>50	
Increase atherosclerosis risk— often tied to excess sugar and carb intake. Can be high by heredity.	Triglycerides		<150	
Alcohol users should check this. Essential for nerve function and depleted by alcohol. No need if you do not drink alcohol.	RBC Thiamine (B1) pyrophosphate		100-150	
Adequate omega 3 is important for brain health and keeping inflammation in check. Very important to know and correct if needed.	Omega 6: Omega 3 ratio		0.5- 3.0	
TROPHIC Factors				
A measure of iron stores in the body. Low iron is associated with reduced cognition.	Ferritin		> 30	
Direct growth effects on brain cells, reduces cell death, promotes new cell formation, reduces inflammation. Value is for women. Men have no optimal minimum value and should avoid excess due to negative effects in males.	Estradiol (E2)		50-100 F	
Bioidentical progesterone has neuroprotective effects and is	Progesterone (P)		1-20	

associated with improvement in			
working memory.			
The "grandmother" hormone	Pregnenolone	50-100	
from provides "raw material" to			
make our reproductive			
hormones, DHEA, progesterone			
and cortisol. Key hormone as so			
many others depend upon it.			
Has direct growth-promoting			
effects on the brain			
Our "Stress Hormone"-	Cortisol morning,	10-18	
unhealthy for brain if too high or	fasting, ideally 7-9 AM	10-10	
too low	rasting, ideally 7-7 Aivi		
Important adrenal hormone for	DHEA-sulfate	350-430 W	
rejuvenation.	DITEA-sulface	400-500 M	
	TSH	<2.0	
Generally is the most sensitive	1511	<2.0	
measure of thyroid function. For			
ex., can increase due to a			
"sluggish" thyroid even when			
thyroid hormone levels are still			
normal.			
	1.0		
The usual screen for Lyme	Lyme ab Screen	negative	
exposure. Can be positive for life			
after Lyme exposure, even if you			
have never been sick with Lyme.			
Arguably, can be negative even if			
a person has active Lyme in the			
body.			
Minerals			
	nng :	5.2.6.5	
Important for the brain, calming,	RBC-magnesium	5-2-6.5	
nourishing and deficiencies are			
very common.			
Toxic to brain in high amounts.	Serum Copper	90-110	
Should be in balance with equal			
amount of Zinc			
Important for immunity and	Serum Zinc	90-110	
balance with Copper.			
Heavy metal screen (hair	Whole blood mercury,	< 5, < 2, < 7,	
analysis or provoked urine test is	lead, arsenic and	<2.5	
more sensitive, but start here)	cadmium	respectively	
Standard			
Checks for anemia and the	CBC- Complete Blood		
opposite, too many red blood	Count		
cells (can indicate apnea or			
	i l		
smoking lack of oxygen to the		1	
smoking lack of oxygen to the brain)			
smoking lack of oxygen to the	CMP (comprehensive		
smoking lack of oxygen to the brain)	CMP (comprehensive metabolic panel)		
smoking lack of oxygen to the brain) Measures overall kidney, liver		negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract	metabolic panel)	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect kidney disease.	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect kidney disease. Hidden Inflammation- "CIRS"	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect kidney disease. Hidden Inflammation- "CIRS" Chronic Inflammatory Response	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect kidney disease. Hidden Inflammation- "CIRS" Chronic Inflammatory Response Syndrome—can represent hidden	metabolic panel) Urinalysis with reflex C	negative	
smoking lack of oxygen to the brain) Measures overall kidney, liver function, electrolytes. Rule out hidden urinary tract infections that can compromise immunity and increase inflammation. Also will detect kidney disease. Hidden Inflammation- "CIRS" Chronic Inflammatory Response	metabolic panel) Urinalysis with reflex C	negative	

Regulates immune cells. Can	TGF-Beta1 –	< 2380	CPT 83520; LabCorp 905036
cause unhealthy changes in	Transforming Growth		
lungs and other tissues and	Factor-Beta1		
autoimmunity, shortness of			
breath with exercise or other			
respiratory symptoms.			

ICD 10 Diagnosis Codes for Tests Below (X'd diagnoses apply to this patient):

Z13.220- Encounter for screening lipid disorders
R73.02 - Impaired glucose tolerance (oral), Elevated glucose tolerance
E61.8 - Deficiency of other specified nutrient elements
N95.8 - Other specified menopausal disorders
D89.89 Other specified disorders involving the immune mechanism, not elsewhere classified
R65.10- SIRS of non-infectious origin w/o acute organ dysfunction
A69.22- Other neurological disorders in Lyme disease
E27.40- Unspecified adrenocortical insufficiency, Adrenocortical insufficiency NOS, Hypoaldosteronism
R53.81- Other malaise, Chronic debility, Debility NOS, General physical deterioration, Malaise NOS, Nervous
debility
E08.00 Diabetes mellitus due to underlying condition w/ hyperosmolarity w/o nonketotic hyperglycemic-
hyperosmolar coma
E55.9 Vitamin D deficiency
E21.3 Hyperparathyroidism, unspec
E83.51 hypocalcemia
M83.9 Adult osteomalacia
M81.8 Other osteoporosis without current fracture
R68.89 Other General Symptoms and Signs
K90.9 Intestinal Malabsorption, unspec.
D52.8 Folate defic anemia, other
R27.9 Unspec lack of coordination
E53.1 VIt B6 deficiency
G60.9 Hereditary and idiopathic neuropathy, unspec.
G25.89 Other specified extrapyramidal or movement disorders
G25.70 Drug-induced movement disorder
E43 Unspec severe protein – calorie malnutrition
D51.3 Other dietary B12 anemia, Vegan anemia
D51.8 Other Vit B12 deficiency anemias
E53.8 - Deficiency of other specified B group vitamins, Biotin deficiency, Cyanocobalamin deficiency
Folate deficiency, Folic acid deficiency, Pantothenic acid deficiency, Vitamin B12 deficiency
R35.1 nocturia
R35.8 polyuria, other

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