

Name : _____ M/F Petitioner (stamp): _____
 Address : _____ Address : _____
 Zipcode : _____ Zipcode : _____
 Date of birth : _____ Resid./Country : _____
 E-mail address: _____ E-mail address: _____

Hereby I order the ELN/H.D.R.I. to perform the marked tests. Bill to: patient doctor / therapist

In case the bill goes to the patient:

I hereby authorize WHL / ELN to write automatically the total amount from my bank account number: (ONLY FOR EU)

Bank account IBAN : _____ Attn. _____

Creditcard (VISA / Mastercard) **Enter your E-mail address above clearly!** (you will receive an e-mail with a link to secure payment through "Pay per link").

Signature patiënt : _____ Date : _____

Process and handling fee each request: 12.50 Euro (2018)

Date of collection: _____

Medication/suppletion: _____

Fasting? In case of blooddraw, time of puncture _____

Stopped? When: _____

Shipping date: _____

Interpretation, clin. data: _____

In case of urine (24U) 24 h Volume: _____ ml

Panels#

- Elements in blood I (1R,1G,1p)
- Elements in blood II (1R,1G,1p)
- Elements in blood III (1R,1G,1p)
- Elements in urine I (24U(preference) or U)
- Elements in urine II (24U(preference) or U)
- Elements in hair II (H)

- Vitamin panel 8 (2R, 1P ^{IVitC})
- Vitamin panel 12 (2R,1P ^{IVitC})
- Vitamin panel 16 (3R, 2P ^{IVitC})
- Fat soluble vitamin panel (1R)
- Neurotransmitters I (1P; !)
- Neurotransmitters II (1G, 1P; !)

- Methylation panel (1R,2P; !)
- Methylation panel **PLUS** (1R,2P; !)
- Sulphur metabolites (U)
- Amino acids (U or 24U!)
- Toxic-panel in blood (P) or urine (U or 24U)
- Organic acids (U)

Elements blood (G)

- Sodium
- Potassium
- Calcium
- Magnesium
- Copper
- Zinc
- Selenium
- Cobalt
- Chromium
- Manganese
- Molybdenum
- Nickel
- Lithium (amm. hep. tubel)
- Aluminium
- Arsenic
- Cadmium
- Mercury (total)
- Lead

Vitamins#

- Carotenoiden# (R)
- Vitamin A (R)
- Vitamin B1 (P)
- Vitamin B2 (p)
- Vitamin B3 (P)
- Vitamin B5 (P)
- Vitamin B6 (R)
- Biotin (B7) (P)
- Folic-acid (R)
- Vitamin B12 (R)
- Vitamin C (R; !)
- Vitamin D₃ (25OH) (R)
- Vitamin D₃ (1,25-OH₂) (R)
- Vitamin E (R)
- Vitamin K1 (R)
- Folic-acid (erythrocyt) (R+ p)

Hematology (P)

- Hematology + diff. #
- HbA1c (1p extra)
- ESR (!)
- D-dimeer (B!)

Clinical Chemistry (R)

- Basic panel# (g, R)
- Glucose (g)
- Protein (total)
- Albumin
- Urea
- Uric-acid
- Creatinine
- Bilirubin (total + direct)
- Calcium
- Phosphate
- Chloride
- Alk. phosphatase (AF)
- Amylase
- γ-GT (GGT)
- ALAT (SGTP)
- ASAT (SGOT)
- LDH
- Creatine kinase (CK)
- Homocysteine
- α-1 antitrypsin
- CRP-HS
- Cholesterol-tot.
- HDL-cholest.
- LDL-cholest (+ HDL / tot.)
- Cholest. / HDL ratio
- Triglyceride
- Oxidized LDL-antibody
- Lipoprotein A
- Apo-lipoprotein A1
- Apo-lipoprotein B
- Iron
- Ferritin
- TYBC
- Transferrin
- Fe-satur. (+ TBYC / iron)
- PINI-score#

Endocrinology (R)

- Growthhormone
- Pregnenolone (sulfate)
- Aldosterone
- Cortisol _____ hour
- Cortisol (daycurve: 9 + 16 h.)
- Transcortin
- Free Cortisol (+ cort. / transcort.)
- DHEA (-sulfate)
- Osteocalcin (!)
- PTH (!)
- Calcitonin (!)
- Insulin
- C-peptide
- IGF-1
- IGF-BP3
- T3
- Free T3
- T4
- Free T4
- TSH
- Reverse T3
- Anti TPO
- Anti TG
- TSH receptor as (TSI)
- Prolactin
- FSH
- LH
- Progesterone
- 17β-Estradiol
- Estriol
- SHBG
- Testosterone
- Free testost. (+ test. / SHBG)
- Dihydrotestosterone
- Androstenediol (glucuronide)

Immunology (R)

- ANF / ANA
- anti-DNA
- ENA
- ANCA
- AST (ASLO)
- Anti-CCP
- MBL
- HLA-B27 (P)
- Imm. compl. (C1q / C3)
- IL-6 (!)
- Allergy (2R)**
- IgE (total)
- 96-IgG / 19 IgE food panel
- 96-IgG food panel
- IgE inhalent panel

Elements urine (24U/U)

- Sodium
- Potassium
- Calcium
- Magnesium
- Copper
- Zinc
- Selenium
- Iron
- Chromium
- Cadmium
- Lead
- Mercury
- Iodine
- Bromine
- Sulphur (SO₄-tot.) (U)
- Sulphur (SO₄-free) (U)

Elements serum (R)

- Sodium
- Potassium
- Calcium
- Magnesium
- Copper
- Zinc
- Selenium
- Lithium
- Sulphur (SO₄-tot.)
- Sulphur (SO₄-free)
- Sulphite (SO₃)

Co-factors (R)

- Carnitine (tot.-free- acyl / tot.)
- Coenzyme Q10
- Lipoic acid
- Inositol
- Choline (total)
- Biopterin
- Glutathione-tot. (!)
- Glutathione ox./red. (!)
- Glutathion-S-transferase (G)

Neurotransmitters

- Acetylcholine (P)
- Dopamine (P; !)
- Epinephrine (P; !)
- Metanephrine
- Norepinephrine (P; !)
- Normetanephrine
- Serotonin (P; !)
- Histamin (G)
- GABA (G)
- Tyramine

Intracellular elements (R,G,p)

- Sodium
- Potassium
- Calcium (i.c.1G extra)
- Magnesium
- Copper
- Zinc
- Chromium
- Manganese
- Vanadium

- Panel I #
- Panel II #
- Panel III #

Drugs screening

- Drugs screening in hair#

Peptide hormones (K; !)

- α-MSH
- β-MSH
- γ-MSH
- β-Endorphin
- Oxytocin
- Vasopressin
- Angiotensin II
- ACTH (corticotropin)

LTT-TEST (!)

- Metals (basic) #
- Metals (extended) #
- Metals combi (basic + extended.)
- Borrelia (lyme)

Miscellaneous

- MDA# (G; !)
- Amino-acids (G; !)
- Ess. Fatty acids (G)
- SAM/SAH# (P; !)
- Nitrotyrosine (P; !)
- NO (nitric oxide) (R)
- Nagalase (P; !)
- HIPP-panel# (2R)
- Beta-Amyloidpeptide1-40(!)
- Beta-Amyloidpeptide1-42(!)

(Load-) Tests

- DMPS test-Hg (K)
- DMPS test-Hg+Cd+Pb (K)
- DMPS extended# (K)
- Iodine-load (K)
- Mercury-saliva (S; K)
- Cortisol-curve# (S; K)
- Intest. permeability (!)
- HOMA# (glucose + insulin)

Urine (24U/U)

- Amino-acids !
- Figlu (U)
- Caso-en Gliamorfine (U)
- Growth hormone
- Aldosterone
- Cortisol
- 17OH/keto Steroid.+ DHEA#
- ♀-Hormones#
- GABA (U)
- 6-sulf. Melatonin
- T3 / T4 + RT3
- Reversed-T3
- MDA
- D-Glucaric acid
- Methylmalonic acid
- Indican
- Kryptopyrrole
- HPL (+ kryptopyrrole)
-

P.T.O.:
more tests +
: explanation

Explanation codes :

B = Na-citraat buis, 9ml
G = Heparin tube, 8 ml
P = EDTA tube 4 ml
P = EDTA tube 8 ml
R =serum preparation tube 8 m
g =Na-FI, K-Oxalatel 2ml
S = Saliva
H = Hair
U = Morning urine
24U = 24-hours urine
K = Testkit

! = Ask for the special instructions

Explanation:

Elements in Blood I: Sodium, potassium, calcium, magnesium, copper and zinc in whole blood and serum. Selenium in whole blood. Sodium, potassium magnesium, copper and zinc intracellular. Zinc / copper ratio intracellular. Hematology.

Elements in Blood II: Panel elements in blood I + chromium, manganese, molybdenum, vanadium, nickel, cobalt and lead in whole blood. Selenium, chromium in serum. Chromium and selenium intracellular.

Elements in Blood III: Panel elements in blood II + mercury, cadmium, arsenic, aluminium and thallium in whole blood. Gold, cobalt, molybdenum, lead in serum. Cadmium and lead intracellular.

Elements in Urine I: Sodium, potassium, calcium, magnesium, iron, copper, zinc, selenium.

Elements in urine II: Calcium, magnesium, copper, zinc, selenium, chromium, manganese, cadmium, lead, mercury, sodium, potassium, iron, nickel, aluminum, vanadium, silver, sulphur, phosphorus, molybdenum, cobalt, arsenic, lithium, iodine, antimony, beryllium, bismuth, bromine, platinum, gold, thallium tin.

Elements in Hair I: Calcium, magnesium, copper, zinc, selenium, chromium, manganese, cadmium, lead, mercury.

Elements in Hair II: Calcium, magnesium, copper, zinc, selenium, chromium, manganese, cadmium, lead, mercury, sodium, potassium, iron, nickel, aluminum, vanadium, silver, sulphur, phosphorus, molybdenum, cobalt, arsenic, lithium, iodine, antimony, beryllium, bismuth, bromine, platinum, gold, thallium tin.

Drugs screening: Amphetamine, Methamphetamine, MDA, MDMA, MDEA, Cocaine, Benzoylcgonine, Methadone, EDDP, Codeine, Dihydrocodeine, Morphine, 6-Monoacetylmorphine, 9-Tetrahydrocannabinol.

Vitamin panel 8: α -carotene, β -carotene, α -lycopene, β -lycopene, lutein, zeaxanthin, β -cryptoxanthin, vitamin **A** (retinol), vitamin **B₃** (niacin, nicotinamide, nicotinic acid), vitamin **B₆** pyridoxal + P-5-P+ pyridoxine), vitamin **B₁₁** (folic acid / vitamin B₉), vitamin **B₁₂** (cobalamin), vitamin **C** (ascorbic acid), vitamin **E** (tocopherol).

Vitamin panel 12: panel 8 + vitamin **B₁** (thiamine-pyrophosphate), vitamin **B₂** (riboflavin), vitamin **B₅** (pantothenic acid), vitamin **B₇** (biotin / vitamin B₈).

Vitamin panel 16: panel 12 + vitamin **D₃** (25-hydroxy-vitamin D₃, 25-hydroxy-cholecalciferol) vitamin **K₁** (phyloquinone, phytonadione), vitamin **K₂**, **CoQ10**, Carnitine.

Carotenoïden: α -carotene, β -carotene, α -lycopene, β -lycopene, lutein, zeaxanthin, β -cryptoxanthin.

Fat soluble vitamin panel: α -carotene, β -carotene, α -lycopene, β -lycopene, lutein, zeaxanthin, β -cryptoxanthin, vitamin **A** (retinol), vitamin **E** (tocopherol), vitamin **D₃** (25-hydroxy-vitamin D₃, 25-hydroxy-cholecalciferol) vitamin **K₁** (phyloquinone, phytonadione), vitamin **K₂**, **CoQ10**.

Methylation panel: glutathione (oxidized), glutathione (reduced), S-adenosyl-methionine (RBC), S-adenosylhomocysteine (RBC), tetrahydrofolate (THF), 5-methyl-THF, 10-formyl-THF, 5-formyl-THF, folic acid, folinic acid, folic acid (RBC), adenosine

Methylation panel PLUS: Methylation panel + Cystathione, cysteine, homocysteine, methionine, taurine.

Sulphur metabolites in Urine: Sulphur-total, sulphate-free, sulphite, thiosulphate, thiocyanate.

Toxic-panel in Blood (plasma): Pentane, hexane, perchloorethylene, isopropyl-acetone, benzene, methylbenzene (toluene), xylene, methyl- β -naftalene, polychlorobifenyls (PCB's), difluorbenzamide.

Toxic-panel in Urine: 2,5-Hexaandione (hexane-metabolites), muconic acid (benzene-metabolites), mercapturinic acid (benzene-metabolites), *m*-methylhippuric acid (xylene-metabolites), *p*-glyoxilic acid (ethylbenzene-metabolites), dialkyl-phosphate (DAP, organofosfate-metabolites), arolein (plastic-metabolites).

Neurotransmitters in blood: **Panel I:** Dopamine, Epinephrine, Norepinephrine, Serotonin. **Panel II:** panel I + histamine. **Panel III:** panel I + Metanephrine, Nor-metanephrine.

Hematology: erythrocytes, hemoglobin, hematocrit, leucocytes, MCV, MCH, MCHC, trombocytes. **Differentiation:** Neutrophils, lymphocytes, monocytes, eosinophils, basophils.

Basicpanel (clinical chemistry): Glucose, protein (total), albumin, urea, uric acid, creatinine, bilirubin (total + direct), calcium, phosphate, alk. phosphatase (AF), γ -GT (GGT), ALAT (SGTP), ASAT (SGOT), LDH, cholesterol-total, HDL, LDL, cholesterol / HDL ratio, triglyceride, iron, iron-bindingcapacity (TBYC), iron-saturation.

PINI-score: Alfa-1-zure Glycoproteine (Orosomucoïden), Albumin, CRP-HS, Prognostic Inflammatory Nutritional Index (PINI), pre-albumin

MELISA (metals basic): Beryllium, cadmium, gold, phenyl-mercury, mercury (inorganic), lead, nickel, palladium, tin, titanium.

MELISA (metalen extended): Aluminium, chromium, cobalt, copper, indium, ethyl-mercury, methyl-mercury, molybdenum, platinum, silver.

MDA: malondialdehyde assay (TBARS; thiobarbituric acid reactive substances assay).

SAM/SAH: S-adenosylmethionine (erythrocyte), S-adenosylhomocysteine (erythrocyte).

Hipp-panel: Euglobulin curve, haptoglobin, orosomucoïd, iron, copper, IgA, IgM, IgG.

DMPS extended (30 elements before and after): Calcium, magnesium, copper, zinc, selenium, chromium, manganese, cadmium, lead, mercury, sodium, potassium, iron, nickel, aluminum, vanadium, silver, sulphur, phosphorus, molybdenum, cobalt, arsenic, lithium, iodine, antimony, beryllium, bismuth, bromine, platinum, tin

Cortisol-curve ("stress-test"): Cortisol in saliva; 8 hour, 11 hour, 16 hour, 23 hour. Cortisol (total), DHEA (total).

HOMA: Homeostatic Model Assessment; quantification of insulin resistance (also known as HOMA-IR). Fasting sample.

17OH/keto steroid. + DHEA in urine: 17-keto steroïden, 17-OH steroïden, DHEA, Pregnaandiol, Pregnaantriol, Androsteron, Etiocholanolone, 11-Keto-androsterone, 11-keto-etiocholanolone, 11-OH-androsterone, Androstentriol, 11-OH-etiocholanolone, Tetrahydrodesoxycortisol, Tetrahydrocortison, Tetrahydrocortisol, aTHF.

♀-Hormonen in urine: 16-OH-Estron, 2-OH-Estron (E1), 4-OH-Estron, Estradiol (E2), Estriol (E3), 17-OH-Progesteron, Testosterone.

Faeces-culture (basic): pH, muscle fiber, starch, fatty soaps, aerobic / anaerobic flora (including *E. coli*, *Enterobacteria*, *Bifidobacterium* sp., *Lactobacillus* sp.), mycology culture (including *Candida* sp. *Aspergillus* sp.).

♀-Hormones Pre-menopause (28 days), saliva: DHEA, free-testosterone + cyclus data of progesterone and estradiol.

♀-Hormones Pre-menopause (1 day), saliva: DHEA, Estradiol, Estriol, Estron, Progesterone, Testosterone.

♂-Hormonen, saliva: Androstenedion, DHEA, Dihydrotestosterone, Estrone, Progesterone, Testosterone.

Enzymes

Catalase
 EGOT
 ETKA
 ESOD
 EGR
 EGPx
 MAO

Tumormarkers (R)

(G) α -fetoprotein
(P) CA 125
(P) CA 15.3
(G) CA 19.9
(P) CEA
(P) PSA
(G) Free PSA
 Recoverin A (!)

Serology (R)

IgG
 IgA
 IgM
 Borrelia IgG,M
 Candida IgA,G,M
 EBV Nucl. Ag (IgG)
 EBV IgG,M
 Herpes sim. IgG,M
 Toxoplasma IgG,M
 Gliadin IgA
 Gliadin IgG
 Hep. A IgG,M
 Hep. Bs-Ag / Core
 Hep. C antibodies
 Anti-transglutaminase IgA,G

Faeces

Culture (basic) #
 + parasitology
 + virulence factors
 + secretory IgA
 + pancreatic-elastase
 + calprotectin
 + α -1 antitrypsin
 + β -defensin 2
 + M2PK
 + *Helicobacter pylori*
 TFT (Triple Faeces Test)

Saliva

♀-Hormones# (S; K)
 Pre-menopause (28 days)
 ♀-Hormones# (S; K)
 Post-menopause (1 day)
 ♂-Hormones# (S; K)

: explanation see below