Non-Antibiotic Approaches to the Management of Lyme Disease and Co-infections

Steven Harris, MD
Lyme
Affiliations:
Clinical Consultant, Igenex Inc.
CEO Pacific Frontier Medical Inc.
“This is the most complex bacterial organism I know of.”

Casjens, personal correspondence 11/03

- Linear genomic chromosome with 910 kbp.
- 12 linear plasmids.
- 9 circular plasmids.
- 300% more plasmids than any other known bacteria.
- Tremendous amount of prophage DNA.
- There are 133 functional genes.
- Very few genes are metabolic.
- Does not require iron for metabolism.

# Bb FUNCTIONAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Clinical Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Often An Intracellular Organism</strong></td>
<td>• Avoids antibody detection and avoids lysis from most beta-lactam antibiotics which do not penetrate cells. Bb is not present in high numbers in the blood</td>
</tr>
<tr>
<td>(Dorward D, 9th International Conference on Lyme Borreliosis, 1998.)</td>
<td></td>
</tr>
<tr>
<td><strong>Microaerophilic</strong></td>
<td>• Helical Bb will tend to move away from oxygen-rich areas in vivo and reside in fascia, cartilage, epineurium and other oxygen-poor areas.</td>
</tr>
<tr>
<td><strong>Heat Sensitivity</strong></td>
<td>• Helical Bb may be inactivated and destroyed upon exposure to temperature of 40 °C for 3 hours.</td>
</tr>
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<td><strong>PH Sensitivity</strong></td>
<td>• Helical Bb thrives in slightly acidic environments (7.0 - 7.3). It forms an acidic vacuole intracellularly for protection</td>
</tr>
<tr>
<td><strong>Epitope Switching</strong></td>
<td>• Bb alternates its outer surface proteins preventing sustained immune recognition &amp; attack.</td>
</tr>
<tr>
<td><strong>Stress Mediated Toxin Release</strong></td>
<td>• Jarisch-Herxheimer reactions can complicate treatment, as well as clinically guide physicians in diagnosis and effectiveness of treatment.</td>
</tr>
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<td><strong>Slow Division Cycle</strong></td>
<td>• In vitro generation time is 12-36 hours. In vivo, it is much longer, perhaps even 14 - 28 days. Length of treatment must contain adequate division cycles, e.g., 10 day course of pcn for Group A beta-hemolytic streptococcus covers about 500 division cycles. A similar course for Bb assuming 24 hour division cycle would last 2 years.</td>
</tr>
<tr>
<td>(Burraiscoano J, 9th International Conference on Lyme Disease; 11/03;</td>
<td></td>
</tr>
<tr>
<td><strong>Plasma Mediated Resistance</strong></td>
<td>• Beta-lactam and tetracycline resistance likely with sustained treatment  \</td>
</tr>
<tr>
<td></td>
<td>• Avoids detection from immune system.</td>
</tr>
<tr>
<td><strong>Bb Surrounds Itself With Host’s Own Lymphocyte Cell Membrane</strong></td>
<td></td>
</tr>
<tr>
<td>(Doward D, et al. Clinical Infect Dis, 1997)</td>
<td></td>
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<tr>
<td>-----------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Bb Actively Attacks Lymphocytes, Macrophages, Natural Killer Cells</td>
<td>• Destroys bodies defensive weapons</td>
</tr>
<tr>
<td>(Doward D, et al. Clinical Infect Dis, 1997)</td>
<td></td>
</tr>
<tr>
<td>Bb Selectively Binds Oligodendria cells; These Cells Are Responsible For Synthesis</td>
<td>• In addition to direct destruction of myelin by bacterium, the host antibodies may in</td>
</tr>
<tr>
<td>and Maintenance Of Myelin.</td>
<td>effect attack myelin while targeting Borrelia to which myelin is in close contact, thus</td>
</tr>
<tr>
<td>(Garcia Monco JC, et al. Adherence of the Lyme Disease spirochete to glial cells</td>
<td>simulating genuine MS.</td>
</tr>
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<td>Induction of Cytokine Releases (TNF alpha, IL1, IL6)</td>
<td>- Inflammatory response causes severe multisystem effects. Part of effective immune</td>
</tr>
<tr>
<td>Prevention of other Cytokine Releases (IL2)</td>
<td>response is blunted.</td>
</tr>
<tr>
<td>(Chiao Jw, Abstract 7th International Conference on Lyme Borreliosis, 1994;</td>
<td></td>
</tr>
<tr>
<td>alpha by Bb. Infect Immun 1992; 60: 1109-1113)</td>
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<td><strong>Bb Can Change Its Morphology To Cell-Wall Deficient Cysts</strong></td>
<td></td>
</tr>
<tr>
<td>1. <em>Cysts Are Heat, Pressure and Oxygen Resistant.</em></td>
<td><strong>Cystic Forms Of Bb Are Probably A Main Reason For Treatment Resistance And Relapse.</strong></td>
</tr>
<tr>
<td>2. <em>Cysts Are Resistant To All Antibiotics Except Tinidazole, Metronidazole and Hydroxychloroquine.</em></td>
<td></td>
</tr>
<tr>
<td>3. <em>In Vitro, Cystic Bb Can Readily Revert Back To Helical Bb.</em></td>
<td></td>
</tr>
</tbody>
</table>

PATHOLOGY OF Bb
Location within the human host


- **Linder S, Heimerl C, Fingerle V, Aepfelbacher M, Wilske B. Coiling phagocytosis of *Borrelia burgdorferi* by primary human macrophages is controlled by CDC42Hs and Rac1 and involves recruitment of Wiskott-Aldrich syndrome protein and Arp2/3 complex. Infect Immun 2001;69: 1739–46.**


- **Bb has a proclivity to remain within synovial cells** Girschick HJ, Huppertz HI, Russmann H, Krenn V, Karch H. Intracellular persistence of *Borrelia burgdorferi* in human synovial cells. Rheumatol Int 1996;16:125–32.
Pleomorphism / Symbiogenisis

- Babesia
- Microfilaria
- Bartonella
- Gi parasites
- Mycoplasma
- Oral organisms
- Heavy metals
- Bornavirus, Coxsackie
- Brucella
- Rickettsia
- Pesticides / environmental pollutants
- Other spirochetes
- Worms
- Prions
- Lyme
- Bacteriophages
- Streptococcus
- Mould
- Yeast
- Clostridia
- HHV6, 7
- Neospora
- Legionella
- Clonorchis sinensis
- Others
Lyme Disease is a Chameleon in Plaid

- Lupus
- Rheumatoid arthritis
- Polymyalgia rheumatica
- Polymyositis/dermatomyositis
- CFIDS
- Fibromyalgia
- Multiple Chemical Sensitivity
- Bipolar d/o
- ADHD
- Autism
- Chronic EBV
- Schizoaffective d/o

- Multiple Sclerosis
- CIDP
- Amyotrophic lateral sclerosis
- Alzheimer's disease
- Parkinson's Disease
- Thyroid disease
- Addison's disease
- Hyperparathyroidism
- Reflex sympathetic dystrophy
- Menopause
If Lyme can mimic so many diseases, how can it be diagnosed?

A Lyme patient will usually experience 6-40+ symptoms at a time.
Clinical Presentation

Lyme

Some symptoms wax and wane.

- Joint Pain
- Joint stiffness
- Joint swelling
- Lightheadedness
- Fevers / Chills
- GI upset
- Pelvic pain
- Blurry vision

- Myoclonus
- Fasciculations
- Severe depression (depressive episode)
- Body electric
- Word-finding problems
- Dysuria
Clinical Presentation

Lyme

Some symptoms tend to remain constant.

• Fatigue
• Sleep disturbance
• Headache
• Tinnitus
• Muscle pain
• Worsening symptoms 4 days before menses
• Neck pain (buffalo hump pain)

• Joint crepitus
• Low frustration tolerance
• Poor executive functioning
• Low libido
• Hypoesthesia (regions of numbness)
• Hyperacusis
Clinical Presentation

Lyme

Some symptoms are variable.

- Dysthymia
- Neuropathic pain
- Restless leg
- Tremor
- Anxiety
- Encephalopathy
- Subdermal fibrous cysts
- Osteophytes
- Blood pressure instability
- Autonomic dysreflexia
- Muscle weakness
- Abdominal pain
Physical Exam

Lyme

- Diffuse myofascial tenderness
- Increased fluid pressure on ballottement of fundi
- Adies pupil
- Oscillating pupils
- Hyperreflexia
- Vertical ridging in nails
- Clammy hands and feet

- Hypothermia 96.0-97.9
- Joint fluctuance – fingers, elbows, knees
- Joint crepitus
- Arrhythmia
- Nerve palsy CN 3,4,6,7,8
- Paraspinal spasms – especially C7
Physical Exam

Lyme

- Skin mottling
- Hypermelanosis
- Psoriasis
- Dermographia
- Horizontal nystagmus
- Thrush (co-habitation by yeast is common)
- Oiling of skin
- Abdominal distension
- Non-pitting edema
- Brown exudate on teeth
- Plantar tenderness
- SI joint
- Myofascial bundles
- Hoffman reflex
- Cold acral extremities
- Black flecks within skin ulcers (Morgellons)
- Subdermal fibromas
- Vagus nerve instability: vasovagal, hypomotility
Treatment

Lyme

Herbals

- Samento
- Banderol
- Cumanda
- Quina
- Lakato
- Houttuynia
- Garlic (Allicin)
- Coptis
- Teasel
- Chanca piedra

- MC-BB-1
- MC-BB-2
- BLt
- AL Complex
- Lyme nosodes
- Rizoles
- Lymogen
- Borrelogen
- LymPlus Transfer Factor
- Bee venom

- And more…
Babesia
Clinical Presentation

Babesia

- Headaches
- Night sweats
- Fevers
- Dry cough
- Air hunger
- Easy bruising
- Tinnitus
- Rage
- Despair
- Chills
- Flushing
- Sleep disturbance
- Vivid or violent dreams
- Dysphagia
- Psychic phenomena
- Severe neurological illnesses
- Thirst/Polydipsia
- Fatigue
- Rheumatoid arthritis
- Nausea (severe)
- Malaise
- Anemia, thrombocytosis, thrombocytopenia
- Abdominal pain
Physical Exam

Babesia

- Temp. above 99 degrees
- Cherry angiomas
- Babinski reflex
- Hypothenar atrophy
- Papulovesicular rash
- Ecchymosis
- Petechiae
- Splenomegaly
- Increased fundal pressure on ophthalmologic exam
- Proptosis
- Severe nuchal tension
- Myoclonus
- Rooting reflexes
- Murmurs from tricuspid regurg.
- S3+ on auscultation
- Expanded apex on percussion
- Restrictive lung disease
- Rhonchi, crepitations
- Onychomycosis of the Hallux
- Decreased bowel sounds
- Rheumatoid nodules
- Abdominal tenderness
Herbals

- Cryptolepsis sanguinolenta: an herb from West Africa highly effective against Malaria, seems to be quite powerful against most species of babesia. Currently most readily available from Woodland Essence as a lot standardized tincture. Dose titrated to response.


- Mora (Nutramedix): 25-40 drops bid is a good addition for those on enula for several weeks.

- Rizol ozonated oils (BioPure). Some blends highly effective for Babesia.
Treatment

Babesia

Herbals

- Plant stem cells (PSC): yarrow, sweet chestnut, artemisia, arnica in combination show great promise.

- Myco (Raintree Nutritionals): a blend of herbs may work synergistically with atovaquone.

- Chanca piedra (various): in high dose may show efficacy.

- Crypto-Plus (Clinical Response Formulas):
Treatment

Babesia

Herbals

- MC-BAB-1 (Beyond Balance)
- MC-BAB-2 (Beyond Balance)
- MC-BAB-3 (Beyond Balance)
- ABab (Byron White Formula)
Bartonella
Clinical Presentation

Bartonella

- Brain Fog
- Fever
- Headaches (ice pick)
- Photophobia
- Tachycardia
- Bowel problems IBS >>>> IBD
- Swollen glands
- OCD behavior
- Anxiety
- Endocarditis
- Retinitis
- Peripheral neuropathy

- Rapid relapse off antibiotics
- Immediate illness following tick bite
- Psychiatric problems
- No response to previous ABX
- Plantar pain, costal margin pain
- Rapid mood shifts
- Development of these symptoms during Babesia treatment
Physical Exam

Bartonella

- Purple non-blanching abdominal striae
- Tiny papulovesicular rash
- General Lymphadenopathy (axillary, cervical)
- Fever (99-102)
- Photophobia
- Fasciculations
- Hyperesthesia (usually extremities)
- Abdominal tenderness
- Subcutaneous nodules
- Anxiety
- Swollen joints
- Swollen lymph nodes
Bartonella

The Lyme Disease Association thanks Dr. Martin Fried, Jersey Shore University Medical Center, for this picture of a Bartonella rash.
Herbals

- Boneset
- Houttuynia (Nutramedix)
- Pau d’ Arco
- Arnica
- Rizol My (BioPure): Rizol pure raw material, Oil of Artemisia, Clove Oil, Black Cumin Oil, Walnut Oil, Majoram Oil
Treatment

Bartonella

Herbals

- MC-BAR-1 (Beyond Balance)
- BLT (Clinical Response Formulas)
- ABart (Byron White Formula)
Alternative Protocols
Alternative Protocols

Beyond Balance Protocol
Clinical Response Formulas Protocol
Zhang Protocol
Cowden Protocol
Jernigan Nutraceuticals
Byron White Formulas
Maypa herbals
Deseret Biologicals
Researched Nutritionals
Buhner Protocol
Rizoles
Misc
Beyond Balance

• Susan McCamish, C.T.N., C.N.C.
• http://www.beyondbalanceinc.com
Beyond Balance

• Various combinations of MC-BB-1, MC-BB-2, MC-BAR-1, MC-BAB-1, MC-BAB-2, MC-BAB-3, PARAZOMIN and supportive therapies

• Typical dosages: titrate to response

• 10-20 drops 2-3x/day is highly effective

• Some patients are very sensitive. Some can tolerate high quantities.
MC-BB-1

- **Ingredients:**
  - Queen’s Delight
  - Motherwort
  - Plantain leaf
  - Black walnut
  - Licorice
  - Calendula

- **Properties:**
  - Anti-bacterial
  - Anti-parasitic
  - Anti-viral
  - Anti-microbial
  - Anti-inflammatory
  - Anti-septic
  - Designed to work with *Borrelia burgdorferi*
MC-BB-2

• Ingredients:
  - Stillingia
  - Motherwort
  - Plantain
  - Clove buds
  - Black walnut hulls
  - Red clover blossom
  - Licorice root
  - Calendula
  - Skullcap
  - Horsetail
  - Rue herb

• Properties:
  - Anti-bacterial
  - Anti-parasitic
  - Anti-viral
  - Anti-inflammatory
  - Blood tonic
  - Adrenal tonic
MC-BAR-1

- **Ingredients:**
  - Cat’s Claw
  - Sarsaparilla
  - Pau d’arco
  - Burdock
  - Blessed Thistle
  - Mullein
  - Oregon Grape

- **Properties:**
  - Anti-bacterial
  - Anti-parasitic
  - Anti-viral
  - Anti-microbial
  - Anti-inflammatory
  - Anti-septic
  - Designed to work with *Bartonella*
MC-BAB-1

- **Ingredients:**
  - Red Clover
  - Rue
  - Wormwood
  - Prickly Lettuce
  - Valerian
  - Nettle

- **Properties:**
  - Anti-bacterial
  - Anti-parasitic
  - Anti-viral
  - Anti-microbial
  - Anti-inflammatory
  - Anti-septic
  - Designed to work with *Babesia*
MC-BAB-2

• Ingredients:
  – Comfrey
  – Burdock
  – Blessed Thistle
  – Stevia
  – Motherwort
  – Wild Yam
  – Plantain Leaf
  – Damiana

• Properties:
  – Anti-bacterial
  – Anti-parasitic
  – Anti-viral
  – Anti-microbial
  – Anti-inflammatory
  – Anti-septic
  – Unique to *Babesia duncani* and other *Babesia* strains
MC-BAB-3

• Ingredients:
  – Wild lettuce leaf
  – Parsley leaf
  – Mistletoe herb
  – Eucalyptus leaf
  – Valerian root
  – Cat’s claw bark
  – Yucca root
  – Stevia leaf
  – Blessed thistle herb

• Properties:
  – Anti-bacterial
  – Anti-parasitic
  – Anti-viral
  – Anti-microbial
  – Anti-inflammatory
  – Anti-septic
PARAZOMIN

- **Ingredients:**
  - Mulllein leaf
  - White willow bark
  - Wormwood
  - Pipsissewa leaf
  - Hawthorne berry
  - Black walnut hulls
  - Shavegrass
  - Valerian root
  - Cat’s claw bark
  - Gotu kola leaf
  - Burdock root

- **Properties:**
  - Developed to help fight parasitic and protozoan infestation
  - Vermifuge properties
  - Anti-inflammatory
  - Supports repair of damaged tissue
IMN-V (formerly ImmunoVira)

- **Ingredients**
  - Mistletoe
  - Barberry
  - Red Clover
  - Oregon Grape
  - Burdock
  - Kelp
  - Sheep Sorrel
  - Rosemary

- **Properties:**
  - Anti-viral activity
  - Immune builder
MC-PZ (formerly ProtaZ)

- **Ingredients:**
  - Goldenseal
  - Burdock
  - Lobelia
  - Rosemary
  - Pipsissewa
  - Sheep Sorrel
  - Hawthorn Berry

- **Properties:**
  - Designed to address protozoan activity
  - Supports immune and organ function
  - Aids the detoxification methylation pathway
IMN-R (formerly Immune Restore)

- **Ingredients:**
  - Astragalus
  - Red Clover
  - Fennel
  - Garlic
  - Burdock
  - Mullein
  - Cat’s Claw
  - Mate
  - Oregon Grape
  - Echinacea Angustifolia

- **Properties:**
  - Enhances body’s own natural immunity
  - Anti-bacterial
  - Anti-viral
Tox-Ease

• **Ingredients:**
  - Mullein
  - Milk Thistle
  - Slippery Elm
  - Parsley
  - Elderberry
  - Rosehips
  - Apple pectin
  - Skullcap
  - Cayenne
  - Vitamin A
  - Bromelain
  - Red Clover
  - Blueberry

• **Properties:**
  - Assists the body’s natural detoxifying process
  - Increases assimilation and absorption of nutrients
  - Eliminates pollutants, wastes, poisons
  - Promotes tissue repair and healing
Clinical Response Formulas

- Tod Thoring, ND
- http://www.clinicalresponseformulas.com/
Clinical Response Formulas

• BLt – Microbial Balancer #1
  – Ingredients: Ceanothus Americanus (Red Root), Dipsacus (Teasel), Eupatorium Perfoliatum (Boneset), Juglans Nigra (Black Walnut Hulls), Lomatium Dissectum, Smilax (Sarsaparilla), Stillengia Sylvatica

  – Highly effective in broad spectrums, for detox and anti-microbial properties.
  – Quite useful in autistic spectrum patients
  – 40-60 drops 2-3x/day

• BLt without Black Walnut
• CryptoPlus – Microbial Balancer #2
  – Ingredients: Cryptolepsis Sanguinolenta, Eupatorium Perfoliatum (Boneset), Lomatium Dissectum, Julgans Nigra (Black Walnut Hulls), Phospholipids, Stillengia Sylvatica
  – Also seems to work well for viruses.
  – Caution with fibrinolytic agents (i.e. bolouke, nattokinase, etc)
  – 40-60 drops 2-3x/day
Clinical Response Formulas

• C.A.T. Cream
  – Ingredients: Calendula flowers extracted in organic olive oil, emu oil, coconut oil, aloe vera, concentrated extracts of Artemisia annua, Cryptolepsis sanguinolenta and Teasel Root, Vitamin E, grapefruit seed oil, with flower essences added.

• B.S.T. Cream
  – Ingredients: Boneset Root, Stephania Root, Teasel Root, Japanese Knotweed and Mistletoe, Calendula, Hypericum Oil, Aloe Vera Gel, Beeswax, and Emu Oil
Clinical Response Formulas

• **Herx-1**
  - Ingredients: Magnesium dioxide, Vitamin C, Citrus bioflavonoids, proprietary blend of: cranberries, echinacea angustifolia, uva ursi, horsetail, curcuminoid C3 complex extract, bioperine extract

• **Herx-L**
  - Ingredients: Beet root, Dandelion root, Milk thistle, Marshmallow, Blue flag, Garlic extract, Burdock root, Magnesium dioxide, Vitamin C
Zhang Protocol

- Dr. Qingcai Zhang
- http://hepahealth.com
- http://www.sinomedresearch.org/drz.htm
Zhang Protocol

• Core Protocol:
  – Allicin: 2 capsules tid
  – HH: 1 capsule tid
  – Circulation P: 1 capsule tid
  – AI#3: 1 capsule tid

• Secondary Protocol:
  – In place of Allicin:
    • Coptis or
    • R-5081 (Smilax glabra, Glycyrrhiza uralensis, Scutellariae radix, Coptis chinensis, Franch radix, Taraxaci Herba, Lonicerae Flos, Polygoni cuspidati rhizoma
Cowden Protocol

- Lee Cowden, MD
- http://www.nutramedix.com/
Cowden Protocol

- Samento
- Cumanda
- Banderol
- Quina
- Lakato
- Houttuynia
- Algas
- Trace minerals
- Burbur
- Parsley

- Sparga
- Mapalo
- Amantilla
- Ezov
- Magnesium malate
- Zeolite
- Adrenal support
- Enula
- Mora
- Pinella
Cowden Protocol

- Full and condensed protocol
- Refer to nutramedix.ec
Cowden Protocol

- “The Effectiveness of Samento, Cumanda, Burbur and Dr. Lee Cowden’s Protocol in the Treatment of Chronic Lyme Disease”
  - Townsend Letter, April 2007
  - http://www.nutramedix.ec/pdfs/L-townsendapr07.pdf

- “In Vitro Effectiveness of Samento and Banderol Herbal Extracts on the Different Morphological Forms of Borrelia burgdorferi”
  - Townsend Letter, July 2010

- “Herbals Outperform Antibiotics in Treatment of Lyme Disease”
  - Magazine for Complimentary and Alternative Medicine Professionals, Sept 2010
Cowden Protocol

• “A Hidden Epidemic: Integrative Treatment of Lyme Disease”
  – Explore, Mar 2009

• “Expanded Treatment Focus Markedly Improves Lyme Disease Patient Outcomes”
  – Public Health Alert, Special Report 2008
Jernigan Nutraceuticals

- Hansa Center for Optimum Health
- David A. Jernigan, D.C., D.N.M
- [http://hansacenter.com](http://hansacenter.com)
- Jernigan Nutraceuticals
- David A. Jernigan, D.C., D.N.M.
- Sara Jernigan, D.C.
- [http://www.jernigannutraceuticals.com](http://www.jernigannutraceuticals.com)
Jernigan Nutraceuticals

- Jernigan Nutraceuticals do not treat disease
- They are not an “antibiotic”
- Restores proper crystalline matrix and energetic structure/function of the body needed to control and overcome microbes
Borrelogen

• **Ingredients:**
  - *Cuscuta planta tota*, *Ipomoea quamoclit aerial*, *Baptisia bractiata flower*, *morus rubra fruit*, *folium Mori albae*, *Calvatia ultriformis aerial*, *Cat’s Claw bark*, *Platycodi grandiflori*, *semen Pruni armeniacae*, *rhizome Phragmitis communis*, *Ophiopogon tuber*, *fructus Forsythiae suspensae*, *flos Chrysanthemi morifolii*, *Herba Menthae haplocalycis*, *radix Glycyrrhizae uralensis*, *semen Baptisia Australis*, *Fiddle-leaf fig folium*
Borrelogen

• Enhances the body’s own energy necessary to bring into balance the overgrowth of Borrelia, co-infections, and viruses

• Can be used in conjunction with antibiotics
Lymogen

- Ingredients:
  - Java Brucea Fruit Extract
  - Fructus Bruceae Extract (Ya Dan Zi), Lycium Chinese Root Bark or Chinese Wolfberry Root Bark (Di Gu Pi), Purslane or Portylaca (Ma Chi Xian), Aloe Vera, Salvia Root (Dan Shen), White Peony Root (Bai Shao Yao), Scultellaria Root or Baikal Skulcap Root (Huang Qin), Coptis Chinensis Rhizome (Huang Lian), Oldenlandia (Bai Hua Shi Shi Cao), Discorea Opposita Rhizome or Chinese Yao (Shan Yao), Dried Ginger (Sheng Jiang)
Lymogen

- Chinese herbal formula
- Designed to help the body heal itself from various strains of Lyme Borrelia and co-infections
Microbojen

- **Ingredients:**
  - Tragopogon planta tota, Isatis root, Lasiosphaera fungus, Scrophularia root, Oldenlandia herb, Moutan peony bark, Phellodendron bark, Poria Cocos Sclerotium, Glycerrrhizae uralnsis radix
Microbojen

- Helps the body control and overcome specific problems of all microbes, including viruses, bacteria, parasites, fungi, prions, and mycoplasma

- Initially created to prepare for biological warfare
Neuro-Antitox II Basic

• Ingredients:
  – Silphium
  – Salvia Azurea
  – No sacrobioenergetic potencies
Neuro-Antitox II Basic

- General detoxification of Lyme toxins and heavy metals
- Most popular formula
Neuro-Antitox II Cardio

• Ingredients:
  – Silphium, Salvia Azurea, sacrobioenergetic potencies in P6, 12, and 30 of cardiac plexus, cardia, myocardium, endocardium, mitral valve, tricuspid valve, and aorta
Neuro-Antitox II Cardio

• For heart problems due to Lyme toxins and heavy metals
  – Angina
  – Palpitations
  – Hypertension
  – Arrhythmia
  – Valve problems
  – Shoulder and arm pain
  – Shortness of breath
  – Chronic fatigue
Neuro-Antitox II CNS/PNS

• **Ingredients:**
  
  – Silphium
  – Salvia Azurea
  – Sacrobioenergetic potencies of P6, 12, and 30 of cerebrospinal fluid, dura mater, cerebellum, optic nerve, substantia nigra, cerebral cortex, cranial nerve III, myelencephalon, temporal lobe, occipital lobe, quadrigeminal plate, lumbar plexus, brachial plexus, periodontium
Neuro-Antitox II CNS/PNS

• For problems in brain, meninges, and peripheral nerves due to Lyme toxins and heavy metals
  – Cognitive disturbances
  – Dizziness
  – Vertigo
  – Visual disturbances
  – Neuritis
  – Neuralgia
  – Numbness
  – Palsies
  – Headaches
  – and more…
Neuro-Antitox II Musculo-Skeletal

• **Ingredients:**
  – Silphium
  – Salvia Azurea
  – Sacrobioenergetic potencies in P6, 12, and 30 of connective tissue/fascia, cartilage, intervertebral joints, humoral joint, elbow joint, intercarpal joints, knee joint, interphalangeal joint, bamboo, rhus toxicodendron
Neuro-Antitox II Musculo-Skeletal

• For muscle and joint problems due to Lyme toxins and heavy metals
  – Muscle and joint pain
  – Muscle and joint weakness
  – Burning sensations of extremities
Yeast Ease

- Ingredients:
  - Maclura pomifera leaf extract, Desmanthus illinoensis seed
Yeast Ease

• Helps body bring down overall yeast overgrowth

• Can be added to tea, taken directly in mouth, diluted and added to a douch, applied topically, or added to bathwater
Virogen

• **Ingredients:**
  - Cuscata planta tota, Calvatia uniformis aerial, Ipomoea quamoclit aerial
Virogen

- Restores proper integrity of the crystalline matrix of the body so it can resolve viral invasion

- Defense system against virtually any of the standard cold and flu strains
Paragen

• Ingredients:
  – Maclura Pomifera fruit
Paragen

- Aids in parasitic infections
Byron White Formulas

- Byron White
- http://www.bioresourceinc.com/bwherbal
A-L Complex

- Ingredients:
  - Garlic
  - Horseradish
  - Onion
  - Clove
  - Artemisia
  - Ginger
  - Usnea
  - Astragalus
  - Black Walnut Hull
  - Lemon Peel
  - Sarsaparilla officianalis
  - Banana Peel
  - Gardenia
  - Coptis
A-Bab

- Ingredients:
  - Gou Teng
  - Cat’s Claw
  - Noni
  - Sam Bong
  - Neem
  - Curcuma Xanthorrhiza
  - Yarrow
A-Bart

- Ingredients:
  - Gou Teng
  - Neem
  - Grapefruit Seed
  - Indian Sarsaparilla
  - Poke Root
  - Licorice
  - Garlic
  - Clove
  - Usnea
Byron White Formulas

- Very effective for clinical provocation for testing purposes
- Treatment doses should be titrated to response
- Some patients require 1 drop a few times a week
- Some patients can handle 25 drops or more 2-3x/day
Maypa Herbals

- Inspired by Traditional Chinese Medicine
- [http://www.maypaherbals.com](http://www.maypaherbals.com)
Maypa Herbals

• Formula-L
  – Addresses bacterial infections accompanied by inflammation and immune dysfunction
  – Successfully used in Lyme disease
  – Used in treatment of chronic fatigue and hypercholesterolemia
Maypa Herbals

• Formula-Bab
  – Used in treatment of Babesiosis
  – Anti-bacterial, anti-viral, anti-microbial, and anti-parasitic properties
  – Helpful for symptoms, such as brain fog, gut issues, and general fatigue
  – Contains medicinal mushrooms
Maypa Herbals

• Formula-Bart
  – Used in treatment of Bartonellosis
  – Addresses illnesses due to inflammatory conditions
  – Anti-oxidant and detoxification properties
  – Helps rid toxins and energetic static
Deseret Biologicals

- Homeopathic, Herbal, Mineral, and Enzyme Therapies
- [http://www.desbio.com](http://www.desbio.com)
Deseret Biologicals

• Series Therapy Method
  – Use of homeopathic nosodes or isodes
  – Kit includes vials of various potencies
Deseret Biologicals

- **Dosage:**
  - One vial orally every three days
  - Begin with lowest numbered vial (1-10)
  - Hold solution under tongue x 1 minute before swallowing
  - Continue series until complete
  - If another series is needed, reverse the administration of successive kits (10-1, 1-10, …)
Borrelia Remedy

• Description:
  – Addresses symptoms related to infections of *Borrelia burgdorferi*, *Babesia microti*, and Ehrlichia

• Ingredients:
  – BORRELIA BURGDORFERI, BABESIA MICROTI, EHRLICHLIA: One vial of each for each of the following dilutions: 200x, 100x, 60x, 30x, 15x, 12x, 10x, 8x, 6x, 5x
Borrelia Remedy

• **Indications:**
  – Chronic Fatigue Syndrome
  – Ehrlichiosis
  – Fibromyalgia
  – Lyme Disease
  – Lymphatic Drainage: Dysfunction
  – Meningitis
  – Myalgia
  – Retinal: Hemorrhage
Borrelia Remedy – 1M, 10M

- **Description:**
  - Enhances treatment with the Borrelia Remedy

- **Ingredients:**
  - BORRELIA BURGDORFERI: 1M
  - BORRELIA BURGDORFERI: 10M
Borrelia Remedy – 1M, 10M

• Indications:
  – Chronic Fatigue Syndrome
  – Ehrlichiosis
  – Fibromyalgia
  – Lyme Disease
  – Myalgia
Bartonella Remedy

• Description:
  – Addresses symptoms related to infection with Bartonella

• Ingredients:
  – BARTONELLA (7 strains); one vial of each of the following dilutions: 200x, 100x, 60x, 30x, 15x, 12x, 10x, 8x, 6x, 5x.
Bartonella Remedy

• **Indications:**
  - Abdominal pain
  - Backache
  - Chills
  - Confusion
  - Fever
  - Headache
Researched Nutritionals

- Leader in specialty formulations
- [http://www.researchednutritionals.com](http://www.researchednutritionals.com)
Transfer Factor

- Tiny, low molecular weight protein molecules
- Serve as messengers for the immune system’s cell-mediated response
- Contain no antibodies
Transfer Factor LymPlus

• Specific immune support
• Targeted formulation
• Promotes healthy immune system
Transfer Factor Multi-Immune

• Comprehensive immune support formula
• Promotes healthy natural killer cells, macrophages, T-cells, and cell division
• Works on the cellular immunity level

**Supplement Facts**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount per 2 capsules</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folate (as folic acid)</td>
<td>100 mcg</td>
<td>25%</td>
</tr>
<tr>
<td>Vitamin B12 (as cyanocobalamin)</td>
<td>4 mcg</td>
<td>67%</td>
</tr>
<tr>
<td>Zinc (as zinc oxide)</td>
<td>5 mg</td>
<td>33%</td>
</tr>
<tr>
<td>Selenium (as selenium amino acid chelate)</td>
<td>25 mcg</td>
<td>30%</td>
</tr>
<tr>
<td>NK Maximizer Bioplex™</td>
<td>1083 mg</td>
<td>*</td>
</tr>
<tr>
<td>Macrophage &amp; T-Cell Pro Blend™</td>
<td>645 mg</td>
<td>*</td>
</tr>
<tr>
<td>Healthy Cell GTP™</td>
<td>400 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

* Daily Value is not established.

**Other Ingredients:** Gelatin (capsule shell), cellulose, magnesium stearate, silica
Buhner Protocol

- Stephen Buhner
Buhner Core Protocol

• Main herbs
  – Andrographis paniculata
  – Japanese Knotweed (*Polygonum cuspidatum*)
  – Cat’s Claw (*Uncaria tomentosa*)

• Supplemental herbs
  – Astragalus
  – Smilax (sarsaparilla)
Buhner Core Protocol

- Andrographis:
  - Anti-spirochetal
  - Enhances immune function
  - Protects heart muscle
  - Anti-inflammatory
  - Crosses the blood-brain barrier
  - Enhances/protects liver function

From en.academic.ru
Buhner Core Protocol

• Japanese Knotweed
  – Modulates/Enhances immune function
  – Anti-spirochetal
  – Anti-inflammatory
  – Protects against endotoxin damage
  – Reduces Herxheimer reactions
  – Cardioprotector

From emmitsburg.net
Buhner Core Protocol

- Cat’s Claw
  - Immune potentiator
  - Immune stimulator
  - Anti-inflammatory
  - Analgesic
  - CNS enhancement
  - Helps arthritis and myalgias
  - Increases CD57 counts

From hubpages.com
Buhner Core Protocol

- **Astragalus**
  - Immune potentiator and modulator
  - Increases interferon-gamma and Interleukin-2
  - Enhances CD4+ counts
  - Balances CD4/CD8 ratio
  - Cardiac support
  - Anti-stressor (adaptogen)
  - Anti-fatigue agent
Buhner Core Protocol

- **Smilax**
  - Binds endotoxins in the blood
    - Lessens Herxheimer reactions
  - Immune modulator
  - Anti-spirochetal
  - Anti-inflammatory
  - Hepato- and neuro-protective
  - Enhances bioavailability of other herbs
  - Analgesic

From wm-sec.com
BioPure Healing Products

Ozonated Rizole Oils

• Form when natural oils are ozonated for extended periods of time

• Unique properties formed depends on:
  – Organic plant oil used
  – Time of exposure to ozone gas, voltage, and amperage in high-voltage chamber
Ozonated Rizole Oils

• 10 in 1 Rizole Oil
  – Ingredients: Contains Alpha, Beta, Delta, Epsilon, Gamma, Jota, Kappa, Lambda, My & Zeta Oil

• Alpha Rizole Oil
  – Ingredients: Pure raw material, Olive Oil, Castor Oil
  – Uses: Detox

• Beta Rizole Oil
  – Ingredients: Pure raw material, Peppermint Oil, Geranium Oil
  – Uses: Digestive
Ozonated Rizole Oils

• Delta Rizole Oil
  – Ingredients: Pure raw material, Walnut Oil, Clove Oil, Oil of Artemisia, Essential Oil, Garlic Oil, Furfural EuPha97
  – Uses: Anti-fungal, Anti-bacterial

• Epsilon Rizole Oil
  – Ingredients: Pure raw material, Oil of Artemisia, Clove Oil, Black Cumin Oil, Garlic Oil, Marjoram Oil
  – Uses: Lyme, Spirochetes, Parasites

• Gamma Rizole Oil
  – Ingredients: Pure raw material, Clove Oil, Oil of Artemisia, Walnut Oil
  – Uses: Lyme, Parasites
Ozonated Rizole Oils

• Jota Rizole Oil
  – Ingredients: Clove Oil, Moxa Oil, Thyme Oil, Marjoram Oil, Oil of Bitter Almonds, Frankincense Oil
  – Uses: Transport mechanism

• Kappa Rizole Oil
  – Ingredients: Pure raw material, Oil of Artemisia, Clove Oil, Walnut Oil, Black Cumin Oil, Thyme Oil, Marjoram Oil
  – Uses: Parasites, Lyme

• Lambda Rizole Oil
  – Ingredients: Pure raw material, Oil of Artemisia, Clove Oil, Black Cumin Oil, Thyme Oil, Walnut Oil, Marjoram Oil
  – Uses: Parasites
Ozonated Rizole Oils

• My Rizole Oil
  – Ingredients: Pure raw material, Oil of Artemisia, Clove Oil, Black Cumin Oil, Walnut oil, Marjoram Oil
  – Uses: Bartonella

• Zeta Oil
  – Ingredients: Pure raw material, Oil of Artemisia, Clove oil, Black Cumin Oil, Moxa, Oil, Walnut Oil
  – Uses: Parasites
Misc

- Grapefruit seed extract
- Garlic
- Teasel
- Plant stem cells
Grapefruit Seed Extract (GSE)

- Derived from seeds and pulp of grapefruit
- Anti-microbial effects
- Anti-oxidant properties
- Caution: interactions with certain drugs
Garlic


- Dold H et al., C A, 47:9419, 1953.

- Fareed G et al., First Study of high dose Garlic Preparation Shows Promise for the Treatment of Cryptosporidium parvum Diarrhea. Searchlight, Spring, 1996, p. 16.

Teasel (Dipsacus)

- Uses:
  - Lyme disease
  - Circulation
  - Warts
  - Eye
Plant Stem Cells

- PSC Betulinic Acid
- PSC Black Currant
- PSC Black Elder
- PSC Black Poplar
- PSC Crabapple
- PSC European Alder
- PSC Maize
- PSC Sweet Chestnut
- PSC Wheat
- PSC Wormwood (Artemesia)
- PSC Yarrow
And more...
BioResource

- BioResource Inc – SanPharma
- http://www.bioresourceinc.com/sanpharma
Notatum

• **Ingredients:**
  – Metabolites derived from *Penicillium notatum*

• **Uses:**
  – Master remedy for inflammation
  – Improves antigenic recognition and helps resolve infections
  – Mildly nudges immune system out of anergy
Quentans

- **Ingredients:**
  - Metabolites derived from Penicillium frequentans

- **Uses:**
  - Master remedy for infection
  - Helps body overcome infections
  - Reduces symptoms associated with active infections
Roqueforti

• Ingredients:
  – Metabolites derived from Penicillium roqueforti

• Uses:
  – Master remedy for regulation of the intestinal terrain
  – Intestinal dysbiosis
  – Intestinal inflammation
Notatum/Quentans/Roqueforti

• Notatum and Quentans
  – To downregulate systemic inflammation and clean up infections

• Notatum and Roqueforti
  – To reduce inflammation and infection in the gut

• Quentans and Roqueforti
  – To clean up infection and begin metabolic regulation of the gut
Imunovir (inosine pranobex)

- Rivex Pharma Inc
Imunovir (inosine pranobex)

- Composition:
Imunovir (inosine pranobex)

- **Properties:**
  - Immunomodulator
    - Stimulates differentiation of T-lymphocytes into T-cytotoxic cells and T-helper cells and increases lymphokine production → normalizes cell-mediated immunity
    - Stimulates differentiation of B cells into plasma cells by enhancing antibody production → increases humoral immune response
    - Increases natural killer cell function
    - Increases number of IgG and complement surface markers
    - Increases production of IL-1 and IL-2
    - Increases endogenous IFN-γ secretion
    - Potentiates neutrophil, monocyte, and macrophage chemotaxis and phagocytosis
Imunovir (inosine pranobex)

• Properties cont.
  – Antiviral Effect
    • Enhances potentiation of depressed lymphocytic mRNA protein synthesis and translational ability
    • Inhibits viral RNA synthesis
Imunovir (inosine pranobex)

• **Indications:**
  - Immunodepression resulting from viral infections
  - Chronic fatigue syndrome (in process)

• **Contraindications:**
  - Known hypersensitivity to product components
  - Active gout or elevated uric acid blood levels
Imunovir (inosine pranobex)

• Precautions:
  – Regularly check uric acid levels, liver function, blood count, and renal function

• Interactions:
  – None
Glutathione

• Properties:
  – Anti-oxidant properties
  – Regulates nitric oxide cycle
  – Detoxification uses
  – Immune system support
  – Role in numerous metabolic and biochemical reactions
Glutathione

• Routes of Administration:
  – Transdermal
  – Nasal spray
  – Inhaled/Nebulized
  – Oral
  – Intramuscular
  – Intravenous

and more…
Alpha Lipoic Acid

- Properties:
  - Anti-oxidant properties
  - Both fat- and water-soluble
  - Converts glucose into energy
  - Increases formulation of glutathione
Super Juices

• Xango
  – Mangosteen fruit
  – Increases concentrations of naturally occurring phytonutrients, including xanthones, catechins, flavonoids, and proanthocyanidins
Super Juices

- MonaVie
  - Acai blend
  - Anti-oxidant properties
GI Support
UltraInflamX

- Metagenics
UltraInflamX

• Ingredients:
  – Sodium, Potassium, Carbohydrate, Dietary Fiber, Sugars, Protein, Vitamin A, Vitamin C, Calcium, Iron, Vitamin D, Vitamin E, Thiamin, Riboflavin, Niacin, Vitamin B6, Folate, Vitamin B12, Biotin, Pantothenic Acid, Phosphorus, Magnesium, Zinc, Copper, Manganese, Chromium, L-Glutamine, L-Threonine, L-Lysine, Turmeric Rhizome Extract, Rosemary Leaf Extract, D-Limonene, Ginger, Sulfate
UltraInflamX

- **Uses:**
  - Nutritional support for patients with IBD
  - Phase II detoxification
  - Supports GI mucosa integrity
  - Supports comprehensive elimination program/GI restoration
  - Anti-oxidant
  - Supports essential fatty acid metabolism
IntestiMax

- Advanced Naturals
- [http://www.advancednaturals.com/pdfs/SpecANIntestiMax.pdf](http://www.advancednaturals.com/pdfs/SpecANIntestiMax.pdf)
IntestiMax

- **Ingredients:**
  - L-Glutamine
  - N-Acetyl D-Glucosamine
  - Gamma Oryzanol
  - Proprietary Herbal Blend: Cranesbill root, Ginger root, Marigold flower, Marshmallow root

- **Uses:**
  - Helps strengthen and support intestinal lining
  - Promotes healthy digestion and nutrient absorption
  - Promotes intestinal cell health
  - Provides powerful antioxidant support
IgG 2000 DF

- Xymogen
IgG 2000 DF

• **Ingredients:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount per serving</th>
<th>%DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>IgG 2000 DF™ (serum-derived immunoglobulin concentrate)</td>
<td>2500 mg</td>
<td>**</td>
</tr>
<tr>
<td>Immunoglobulin G (IgG)</td>
<td>1000 mg</td>
<td>**</td>
</tr>
<tr>
<td>Other Immunoglobulins (IgA, IgM, IgE, IgD)</td>
<td>300 mg</td>
<td>**</td>
</tr>
<tr>
<td>Also, typically provides:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transferrins</td>
<td>187.5 mg</td>
<td>**</td>
</tr>
<tr>
<td>IGF-1</td>
<td>8.2 mcg</td>
<td>*</td>
</tr>
<tr>
<td>TGFβ-1</td>
<td>0.27 mcg</td>
<td>**</td>
</tr>
</tbody>
</table>

**Daily value not established.

Other Ingredients: HPMC (capsule), Stearic Acid, and Magnesium Stearate.

• **Uses:**

– Reduces GI inflammation
– Lessens gut permeability
– Immune Support
– Binds and neutralizes major pathogens
– Supports lean muscle mass
– Reduces cholesterol
SyGest

- BioResource – Syntrion
SyGest

• **Ingredients:**
  – Metabolites of Candida parapsilosis and Penicillium frequentans

• **Uses:**
  – Gastrointestinal disorders
  – Abdominal pain/cramping
  – Diarrhea
  – Constipation
  – Gas
  – Nausea
Pekana “Big Three”
Detox and Drainage Kit

- Pekana “Big Three” Detox and Drainage Kit

- One of the most common combination prescriptions of Pekana medicines is the “Big Three” drainage and regulation medicines, which are apo-Hepat (liver detoxification) Itires (lymphatic drainage) and Renelix (kidney drainage).

- Many chronic illnesses improve if all of these factors are handled. They are so commonly prescribed together that BioResource packages a 50 ml bottle of each together in a cost-effective combination kit.
Pekana “Big Three”
apo-HEPAT

- apo – HEPAT (pronounced ahpo-HAY-pot)
  - Spagyric drops

- For treatment of liver and gallbladder dysfunction; gentle liver drainage and regulation of detox pathways.
apo-HEPAT

• INDICATIONS:
  – apo-HEPAT drops treat and detoxify the liver, gallbladder and pancreas, which work together to promote good digestion.
  – This remedy provides a vital stimulus that aids in the excretion of liver toxins, thereby enabling the tissues to regenerate and resume normal function. It also eliminates liver portal blockages that commonly exist in chronically ill patients.
  – This medication should be considered as an adjuvant therapy when treating all chronic illnesses with PEKANA spagyrics as every disease adversely affects vital liver functions.
apo-HEPAT

• RECOMMENDED DOSAGE (away from meals)
  – Adults: 25-50 drops, 3 times per day directly or in liquid
  – School Children: 7-10 drops, 3 times per day
  – Small Children: 5 drops, 3 times per day

• SUGGESTED ADJUVANT THERAPIES
  – ITIRES – Lymphatic
  – RENELIX – Kidney
  – Apo-INFECT – Acute bacterial or viral infections
  – OPSONAT drops: focal infections, mucous membrane inflammation
Itires

- Itires (pronounced ee-TIER-ez)
  - Spagyric Drops and Ointment

- For treatment of lymphatic conditions and swollen lymph nodes
Itires

• INDICATIONS
  – ITIRES drops stimulate and detoxify the entire lymphatic system -- a vital part of the immune response -- to help speed excretion of toxins during acute and chronic illnesses. Efficient flow of lymph can prevent stagnation and blockages that increase the chance of new infections.
  – Acute and chronic illnesses, as well as internal toxins such as free radicals, can completely overburden the lymphatic system, which then urgently needs support of biological medications to meet this increased toxic load.
  – Consider ITIRES drops in cancer therapies, lymphatic infections, swollen glands, acute and chronic infections of the organs and mucous membranes, all pus-producing infections (bronchitis and tonsillitis), mumps, adenoma, mastopathy, benign swelling of the breast glands and neoplasm.
Itires

- **RECOMMENDED DOSAGE** (away from meals)
  - Adults: ¼ to ½ tsp, 2 times per day directly or in liquid
  - School Children: 7-10 drops 3 times per day
  - Small Children: 5 drops 3 times per day

- **SUGGESTED ADJUVANT THERAPIES**
  - Apo-Hepat – liver support
  - Renelix – kidney support
  - Itires Ointment – rubbed topically onto swollen lymph glands
Renelix

- Renelix (pronounced RAIN-eh-lix)
  - Spagyric drops

- Kidney drainage and regulation, lymphatic drainage
Renelix

• **INDICATIONS**
  
  – RENELIX drops have a specific affinity for the kidney cells, help to stimulate and detoxify the kidneys, bladder and urological tract, and helps to restore normal kidney function.
  
  – This remedy helps regulate toxic blockades in chronically ill patients, which allows systemic healing to take place.
Renelix

• RECOMMENDED DOSAGE (away from meals)
  – Adults: \( \frac{1}{4} \) to \( \frac{1}{2} \) tsp, 2 times per day directly or in liquid
  – School Children: 7-10 drops 3 times per day
  – Small Children: 5 drops 3 times per day

• SUGGESTED ADJUVANT THERAPIES
  – apo-HEPAT drops - liver detoxification
  – ITIRES drops – lymphatic excretion
  – TOXEX drops – general excretion, heavy metals
Stress Buster Kit
Stress Buster Kit

- **Neu-Regen:**
  - 1-2 tsp for fatigue

- **Dalektro N:**
  - 1/2 to full tsp for electrolyte regulation

- **Psy-stabil:**
  - 1/2 to full tsp for stress, anxiety, and to stabilize the fragmented psyche
PSY-stabil

• PSY-stabil (pronounced SIGH-stuh-beel)
  – Spagyric Drops

• For anxiety, lack of concentration, restlessness and nervous exhaustion; irritability, fragmentation of the psyche.
PSY-stabil

• INDICATIONS
  – Modern lifestyles often cause mental and emotional stresses that can result in nervous dysfunction, and somatic illnesses.
  – PSY-stabil is helpful for patients dealing with acute anxiety, as well as the psychic stress component of a chronic illness.
  – It is especially valuable for very energetically sensitive patients, and will allow them to better tolerate whatever remedy program they are put on.
PSY-stabil

- RECOMMENDED DOSAGE (away from meals)
  - ¼ to full tsp, 2-4x per day

- SUGGESTED ADJUVANT THERAPIES
  - For Insomnia:
    - Somcupin (insomnia, anxiety, irritability) with Psy-Stabil
    - Can go as high as 2 TBS of each remedy in water, before bed or upon awakening
Dalektro N

- DALEKTRO N (pronounced dah-LEK-tro)
  - Drops – in 50ml or 100ml

- Electrolyte disturbance, demineralization, mineral malabsorption, magnesium wasting, fatigue, derailment and/or poisoning of mitochondrial enzymes.
• INDICATIONS
  – DALEKTRO N drops contain homeopathic minerals that normalize regulation of the electrolyte system and stimulate enzyme activity. These minerals also act as vital catalysts that activate profound chemical changes at the cellular level to help return a chronically ill body to health.
  – DALEKTRO N drops are particularly indicated for treatment of diseases that involve an impaired metabolism, including leukopenia, anemia, thyroid gland afflictions, heart conditions and arteriosclerosis.
  – DALEKTRO N provides a unique stimulant that enables the body to utilize trace elements. Reasons for mineral deficiencies may include malabsorption due to intestinal dysbiosis, an impaired mucosal system, poor nutritional habits, and chronic illness.
Dalektro N

• RECOMMENDED DOSAGE (away from meals)
  – Adults: ½ to full tsp, 2-3 times per day directly or in liquid
  – School Children: 7-10 drops 3 times per day
  – Small Children: 5 drops 3 times per day

• SUGGESTED ADJUVANT THERAPIES
  – Psy-Stabil
  – Neu-Regen
  – (Stress Buster combination)
NEU-regen

- NEU-regen
  - Spagyric drops

- For exhaustion: physical, emotional and/or mental
NEU-regen

- **INDICATIONS**
  - Neu-Regen is a restorative tonic, not a stimulant. It will restore nervous system ease and allow the body to regenerate. Few remedies function as restoratives rather than stimulants. Neu-Regen is the rare impeccable example of this class.
  - Include this medicine in programs for depleted patients, and it will make the whole therapy more effective and well tolerated.
NEU-regen

- **RECOMMENDED DOSAGES**
  - 1-3 tsps 2-4x per day

- **SUGGESTED ADJUVANT THERAPIES**
  - Psy-Stabil
  - Neu-Regen
  - (Stress Buster combination)