

# Integrative Medicine and Balneology

The USA Experience

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Balneology.org

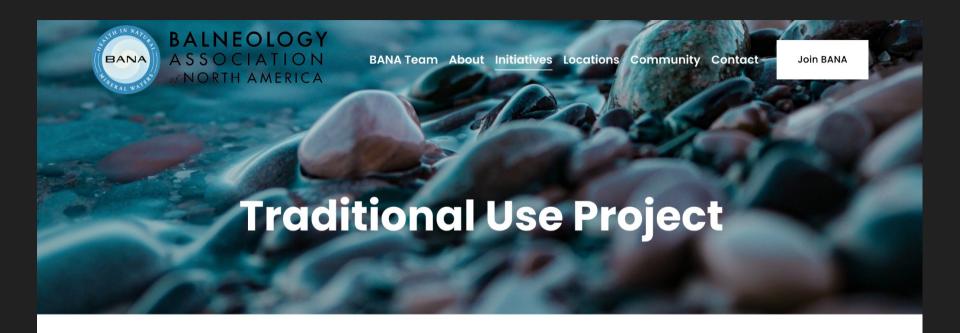


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- Founded in 2011
- Promotion of the Science and Culture of Balneology
- Education and direct consultation work with mineral spring resorts, land stewards, and policy makers
- Outreach and cultural education across North America

## Balneology.org



Welcome to the Balneology Association of North America's Traditional Use Project.



### Contemporary access to

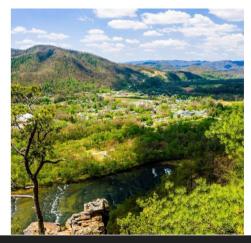
#### Contemporary access to classical information for health seekers and resort guests

#### Hot Springs, North Carolina

This spring has a traditional designation as a Calcic Sulphated Spring. The high levels of calcium sulphate, calcium chloride and sodium sulphate provide this designation.

Traditionally these waters have been used for their therapeutic value in chronic rheumatic

their therapeutic value in chronic rheumatic and arthritic illnesses. Due to the high sulphate concentration the waters were also used to treat chronic skin conditions such as eczema and psoriasis. Drinking the waters from the source was used traditionally to treat digestive disorders and issues of the liver and gallbladder.



2022

	MINERAL WATERS OF THE CHILD STATES
532	MINERAL WILL (104° F.). They form one of only two groups of thermic (104° F.). They form one of only two groups of thermic springs:
to 40° (	(104° F.). They form one of only two groups of therai, (104° F.). The analyses below show the nile of the Mississippi. The analyses below show the nile of a few of these thermic springs:
springs	of a few of these thora

THE UNITED STATE

#### HOT SPRINGS.

	Parts per 1,000,000.			
trations.	Analyst, Chandler & Pellew.		Analyst, Prof. E. Adelmarth.	
Hypothetical combinations.	Bathing Spring.	Drinking Spring.	Warm Spring.	Hot Spring.
Potassitim chloride (KCl) Sodium chloride (NaCl) Sodium chloride (MaCl) Magnesium chloride (MaCl) Calcium chloride (CaCl) Calcium chloride (CaCl) Potassitum sulphate (RSO) Sodium sulphate (RSO) Sodium sulphate (SO) Sodium sulphate (SO) Sodium sulphate (NaCl) Sodium sullicate (NaSiO) Sodium sullicate (NaSiO) Solium sullicate (NaSiO) Solium sullicate (Solium sullic	5.30 15.57 3.76 170.81 6.16 154.50 22.93 699.46  51.16 102.32	8.56 18.82 6.33 152.96 0.04 152.27 139.10 693.63	40.09 195.42 72.55 130.72 102.00 40.03	34.08 51.47 128.33 300.45
Total solids	1231.97	1342.93	647.17	514.33
Temperature, °C	30	32.8	36.2	40

Bathing Spring, medicinal classification, weak calcic sulphated 2 or (-CaS2). This is a moderately mineralized, thermic, calcic, sulphated and muriated saline (potassic) water, sulphuretted.

Drinking Spring, medicinal classification, weak calcic sulphated <sup>2</sup> or (-CaS2). This is a moderately mineralized, thermic, calcic, sulphated and muriated saline (potassic) water, sulphuretted.

Warm Spring, medicinal classification, weak total mineralization <sup>2</sup> or (-Th).

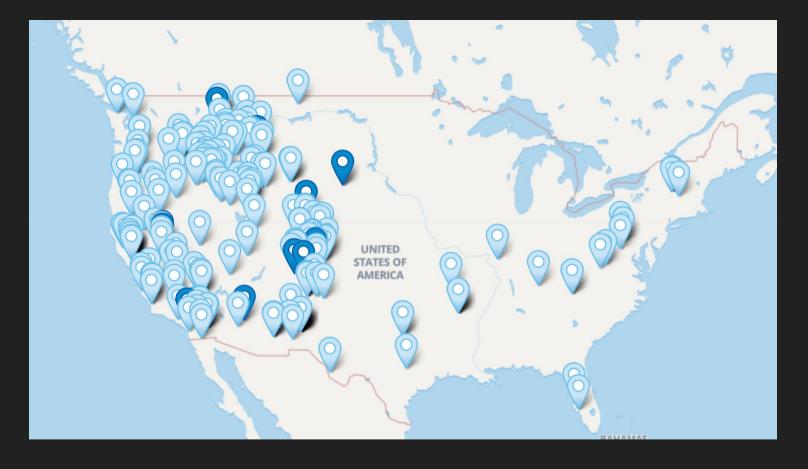
Warm Spring, medicinal classification, weak total mineralization <sup>2</sup> or (-T2). This is a moderately mineralized, thermic, sodic bicarbonated and muriated alkaline-saline water, carbon-dioxated.

Hot Spring, medicinal classification, weak calcic sulphated of (—Cas), thermic. This is a moderately mineralized, thermic, calcic and magnesic sulphated saline water, sulphuretted.

In the past these calcic sulphated saline water, sulphuretted.

In the past these waters have had quite a reputation in the treatment of diseases of a chronic nature, rheumatism and arthritic joint disturbances, chronic skin diseases and in disorders of the gastro intestinal tract, diseases of the liver and gall ducts. The hot barbs therefore the disturbance of the gastro intestinal tract, diseases of the liver and gall ducts. The hot barbs therapeutic effects of the ordinary galenical medicines. With the delightful mountain scenery, its exhilarating climate, its therapeutic





HotSpringsofAmerica.com





Immersed in the business of health, healing and wellness.

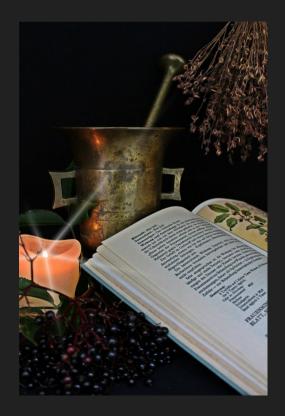


Model Aquatic Health Code

#### Naturopathic Physician

Primary care doctor with specialty training in the use of integrative therapeutics including:

- Pharmaceuticals
- Nutrition
- Natural Medicines
  - Nutrient Concentrations, Herbal Medicines, and Homeopathics
- Manual Therapy
  - Chiropractic and Osteopathic Manipulation
- Therapeutic Injection
  - Neural Therapy, Prolotherapy, Biopuncture, etc
- Acupuncture
- Physiotherapy
- Hydrotherapy/Balneotherapy
- Lifestyle Education

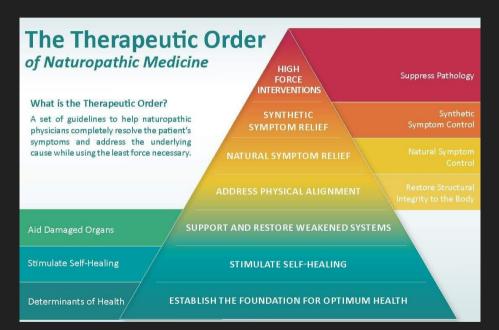


The Therapeutic Order of Naturopathic Medicine HIGH Suppress Pathology **FORCE** INTERVENTIONS What is the Therapeutic Order? SYNTHETIC A set of guidelines to help naturopathic Symptom Control SYMPTOM RELIEF physicians completely resolve the patient's symptoms and address the underlying cause while using the least force necessary. NATURAL SYMPTOM RELIEF ADDRESS PHYSICAL ALIGNMENT SUPPORT AND RESTORE WEAKENED SYSTEMS Aid Damaged Organs Stimulate Self-Healing STIMULATE SELF-HEALING

ESTABLISH THE FOUNDATION FOR OPTIMUM HEALTH

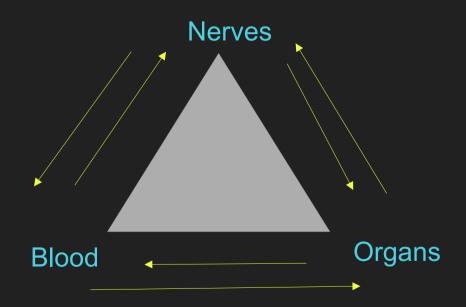
Determinants of Health

# The Health Resort as Model for Integrative Health Delivery

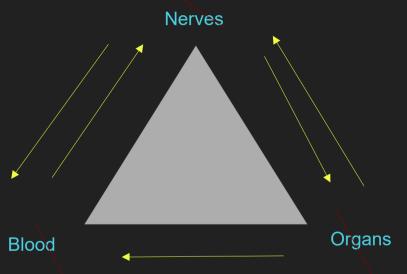




#### The Triad of Function - A model of Salutogenesis

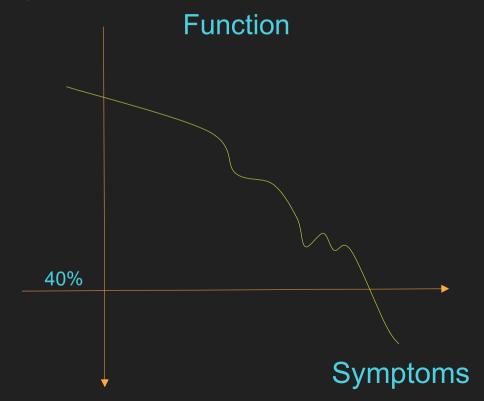


# The Triangle of Health

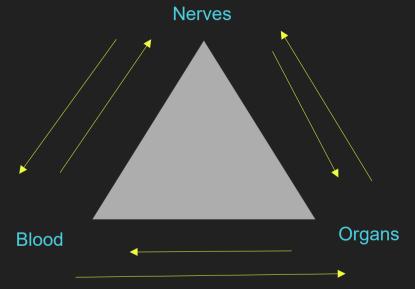


#### **Stress = Dysfunction**

- Psychological
- Chemical
- Physical



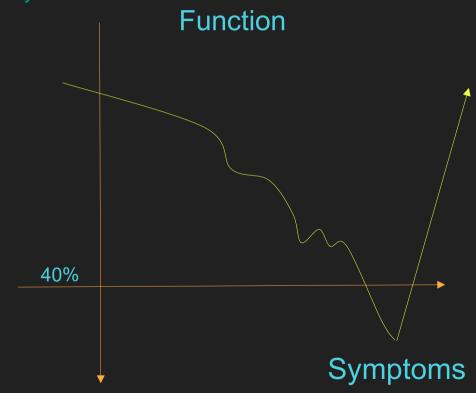
# The Triangle of Health



Treatment Program to Address Function

#### **Stress = Dysfunction**

- Psychological
- Chemical
- Physical



Naturopathic Integrative Assessments Include:

**Detailed Case History** 

Comprehensive Physical Examination

Osteopathic Assessment

Chinese Pulse/Tongue Analysis

**Nutritional Urinalysis** 

**Blood Panel** 

Advanced Labs

# Naturopathic Integrative Assessments Include:

**Detailed Case History** 

Comprehensive Physical Examination

Osteopathic Assessment

Chinese Pulse/Tongue Analysis

**Nutritional Urinalysis** 

**Blood Panel** 

Advanced Labs

The totality of the assessment highlights the functional basis for pathology and determines the program needed for intervention and rehabilitation.

# More than pathology - a system of health rehabilitation

# Typical points of a prescription include:

**Diet Program** 

**Herbal Prescription** 

Nutritional Concentrates/Supplement

Acupuncture

Physiotherapy

Lifestyle Education

Understanding Mechanisms Creates the Basis for Rational Therapeutics

Typical points of a prescription include:

Diet Program - proper nutrition/avoidance of intolerant and inflammatory foods

Herbal Prescription - regulatory function

Nutritional Concentrates/Supplement - biochemical pathway support

Acupuncture - neuroendocrine regulation

Physiotherapy - improve tissue function and lymphatic detoxification

Lifestyle Education - patient empowerment/long term success

# Balneology

Balneology is an <u>underutilized</u> therapeutic tool in the United States

Supportive therapies can be implemented to enhance the effect and lasting outcomes from courses of Balneology treatment

- Excellent choice as a rationally applied therapeutic
- Multiple MOA to support multiple approach therapies
- Physiologic basis to treatment
- Need for greater utilization beyond wellness in the USA

# Rational Balneology Applications Enhance Comprehensive Programs

Diet Program - improved distribution of nutrients/autonomic control of digestion Herbal Prescription - improved assimilation, lower dosage, shorter period of action Nutritional Concentrates/Supplement - same as above

Acupuncture - more effective and longer lasting treatment

Physiotherapy - on alternate days or as an aspect to a cycle of treatment

Lifestyle Education - education through experience

Balneology maintains a unique Source-Site-Specific nature as a therapy. Health Resorts maintain a unique nature as a site for rehabilitative integrative care. These facts cannot be neglected in the treatment of



# **Beyond Medication**

Regulation and Rehabilitation

# Current Limitations

for Balneology in North America

- Lack of Medical Coverage
- Lack of Public
   Awareness/Culture
- Lack of Properly Trained physicians and health support staff



- Support research efforts
- Support public policy improvements (MAHC)
- Education initiatives for operators and potential health resort guests
- Education programming for Spa Attendants
- Source-Site-Specific Identity Project
- Partnerships with international interest groups (FEMTEC, ISMH, Etc)

Our goal is to see Balneology elevated in the USA to the position it enjoys in the European and Global healthcare fields and to competently train physicians and healthcare providers on rational balneology applications as part of comprehensive treatment plans





# Thank You. Grazie Mille!



Balneology.org

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