THE DIVERSITY OF THE
VIS MEDICATRIX NATURAE

FOUNDATIONS OF NATUROPATHIC
MEDICINE PROJECT (FNM)

Pamela Snider ND, NPhD (Hon)
Executive and Senior Editor
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Senior Editor
Foundations of Naturopathic Medicine Project
Foundations of Naturopathic Medicine Project

NDs define the *Vis Medicatrix Naturae*

What it is and how it works?

Dialogue with Dr. Mitchell - “The Equation of the Vis”

- A physiological perspective
- A consciousness perspective
- Patterns in NM perspectives

The many ways of knowing the Vis

Our current reflections
Began as chapter in Marc Micozzi, MD’s book on alternative medicine in 1990
Invited to help Joe Pizzorno, ND expand it in the 2nd edition.
Grew to a request from Elsevier for a book; Dr. Zeff invited to write a book
Blossomed (anastamosed?) into an international collaboration to write the definitive textbook on naturopathic medicine
250 authors, 33 editors from 11 nations
11 Agency Liaisons, 1 Fellow, 1 History Scholar
A profession must codify its unique knowledge to grow....

the goal of the Foundations Project is to strengthen, deepen, unify and communicate the work, philosophy, and clinical thinking of modern naturopathic physicians

www.foundationsproject.com
IN FROM THE WILDERNESS

- Jared Zeff ND, LAC, NDNR August 2006
  “Our little profession went out into the wilderness over the last 40 years. We survived. The young Jedi gathered bits of wisdom and the history of our elders. We are now in a position to articulate this to the next generation.”

- We are in the midst of that process.
“To catapult into the future—we have to do that from a very solid foundation. What about new therapies like injections or??? You still have to have a paradigm within which you’re thinking. I think this is the most exciting thing happening in naturopathic medicine today!”

Daria Love, ND, DC - former CCNM Board of Governors

“The time has come to put our stake in the sand, to clearly state and make the case for the conceptual foundations of our medicine. This is the most exciting thing that has happened in the naturopathic profession in the last 100 years.”

Joe Pizzorno, ND - Bastyr University President Emeritus

“The project has engaged my imagination. Most exciting!”

Rowan Hamilton - Boucher Institute of Naturopathic Medicine
THE PRIME DIRECTIVE

“The primary question for this text to answer is: How does the naturopathic physician work with nature to restore health?...

...Our book takes this fundamental question, lays out the theoretic basis of our medicine and examines it in some detail.”
GOALS

- Codify & unify
- Coherence & diversity
- Rigor & synthesis
- Clinical application of principles
- Operationalize philosophical concepts-research
- Policy and philosophy - healthy world
- Voices of the elders; student perspectives
- On line tools & curriculum support
- Recurring retreats and symposia
- Global collaborative naturopathic scholarship

The full flower of naturopathic medicine
“The scientific exploration of naturopathic medical practices and principles will yield important, even perhaps revolutionary, insights into the nature of health and healing.”

“The NMRA identified three elements that will be necessary for naturopathic ‘discovery’ research...

The first is “clear operational definitions of concepts such as the vis medicatrix naturae (the ‘vital force,’ ‘healing power of nature’)...”

“If the vis or the *Vis Medicatrix Naturae* have been especially relevant to naturopaths, naturopathic doctors, naturopathic physicians and naturopathic medicine (each of these means something slightly different in etymology and domain), *how is it manifested in current practice?* If it is present, a whole new set of hypotheses come to life.”

Carlo Calabrese, ND MPH Executive Director
Naturopathic Physicians Research Institute
www.nprinstitute.org
Foundations of Naturopathic Medicine Project
Codifying our knowledge. *It’s time.*

Textbook
The Foundations of Naturopathic Medicine
The Healing Power of Nature (*Vis Medicatrix Naturae*)
Publisher - Elsevier
Academic Home - NCNM
www.foundationsproject.com
TRAVELLING WITH MANY

- Incredible Team: Senior Editors; Associate, External and History Editors
- 11 Agency Liaisons
- 250 authors, 11 colleges
- International, Intergenerational: Elders, Students
- External thought leaders
- Medical Editor, Fellow, History Scholar
- Reviewers

http://www.youtube.com/watch?v=JWymXNPaU7g
CURRENT STATUS TEXTBOOK COMPLETION PROCESS

Foundations of Naturopathic Medicine Project
Codifying our knowledge. It’s time.

<table>
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<td>Science Editor Review</td>
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MAIN SECTIONS OF THE TEXT

- Essentials & The VMN Throughout Time
- Naturopathic Medicine - History, Profession, International,
- Philosophy (Spirituality), Principles & Clinical Theory
- Clinical Applications - Nature Cure, Primary Care, Modalities, Clinical Systems, Case Management, Practice Models, Algorithms & Monographs
- Science and Philosophy
- Public Policy and Education
- Definition of Critical Terms
- 1200 Pages
WORLDVIEW TAXONOMY
VIS FROM PHILOSOPHY TO ACTION

Worldview
Metaparadigm
Philosophy or Cosmology
Principles
Theories
Practice Theory
Science Theory
Public Policy
Philosophy

Practice
TURNING PHILOSOPHY INTO POLICY - CREATING A HEALTHY WORLD

- Essentials
- History & Profession
- Paradigm
- Philosophy

- A New Therapeutic Order for Global Health
- Making Naturopathic Education More Naturopathic
- Public, community & rural health, underserved and rural health care, economics of NM, environmental health, wellness in human systems, principle driven leadership

Public Policy
The Foundations of Naturopathic Medicine textbook represents an ongoing process of professional & academic collaboration . . .
Seroyal CHAMPION Vis Medicatrix Naturae

Metagenics VITAL FORCE Ecology of Healing

Thorne Research

Essiac International
Boiron Laboratories
Bioclinic Naturals
TxO Treatment Options
US BioTek
Biotics Research Nutri (Imports & Exports)

Priority One
Integrative Therapeutics
Cyto-Matrix
NDNR
Pharmax
Torf Spa
Neuroscience, Inc
NaturPharm, Inc
Innate Response Formulas
“瞎子摸象”

Snake?

Hmmm...
Maybe...
Spoiled Rice Pudding?

Tree Trunk?

Water Hose?

Carpet?
What? You said court-appropriate attire!
BILL MITCHELL, ND

- 1948-2007
- Co-Founder Bastyr University
- Inspiration & teacher for 26 years
- Our friend

Slides on Bill’s philosophy used with permission from Leanna Standish, PhD, ND, LAc Joseph Pizzorno, ND and The Foundations of Naturopathic Medicine

“Medicine has long grappled with the problem of the healing power of nature, the vis medicatrix naturae (VMN). As Neuberger stated in 1932, “the problem of the healing power of nature is a great, perhaps the greatest of all problems which has occupied the physician for thousands of years. Indeed, the aims and limits of therapeutics are determined by its solution.”


“What physicians think medicine is profoundly shapes what they do, how they behave in doing it, and the reasons they use to justify that behavior….

.....whether conscious of it or not, every physician has an answer to what he thinks medicine is, with real consequences for all whom he attends....the outcome is hardly trivial...It dictates, after all, how we approach patients, how we make clinical judgments.”

THE ACTIVITY OF THE HEALING PROCESS

Purposeful moving toward health

Dynamic range of directional activity

Unintelligent aimlessly in motion
Three schools of thought emerged as early as antiquity and in the middle ages. Each physician fits on the continuum of a gradient of considering the role of the physician as being somewhere between servant and master of the process of nature.

- Physician as Servant
- Physician as Observant Participant
- Physician as Master
VIS MEDICATRIX NATURAE

- Process
- Force
- Natural Systems - Nature
- Natural Law - Equation
- Physiological
- Consciousness & Spirit
- Physics
- Complex Systems Thinking
OVERARCHING QUESTION

The question of Upward vs. Downward Causation runs through all domains of the discussion and engages, spirit, consciousness, nature, biology, physiology, physics
VIS - PROCESS
HIPPOCRATIC COCTION

- Imbalance in elements and humors (humoral theory) disturbs the organism
  - Changing seasons
  - Daily habits - work, sleep, exercise, geographic changes, climate bar effect upon humors

- Process of disease/healing - three stages
  - Disturbance
  - Coction (“cooking”)
  - Discharge/resolution
Normal Health

Disturbing Factors

Disturbance of Function

Reaction (fever, inflammation, etc.)

Chronic Reaction

Degeneration

Discharge Process
The healing power of nature is the inherent self-organizing and healing process of living systems which establishes, maintains and restores health. Naturopathic medicine recognizes this healing process to be ordered and intelligent. It is the naturopathic physician's role to support, facilitate and augment this process by identifying and removing obstacles to health and recovery, and by supporting the creation of a healthy internal and external environment.


www.naturopathic.org
"The body "unwinds" as it heals, protecting the internal organs, thus providing the organs that are responsible with sustaining life with the resources they require."

“To examine the VMN is to raise questions about the nature of life itself..”

“...the vis at work is an inherent, purposive process of restoring normality in the body that is fundamentally the same whatever the challenge”

Mitchell acknowledges the “ the vis is that aspect of our nature...that drives us to realize our visions, to become more what we are now...”
VIS - FORCE
Paracelsus

- **Archeus** (vital force) - “inner alchemist”; arch principle dominating life processes in a biological entity; all pervading and powerful within that milieu; yet invisible to the material eye; known only through its effects; *life was governed by a self-regulating and self-healing intelligence*; its function is to assimilate healthy material into organism and defend it against invasions from outside; sympathy and antipathy; attraction and repulsion

- Seated in the stomach; likened to fire

- **Archeus** of physician could comprehend and interpret *archeus* of patient
LINDLAHR (1913)

The power possessed by the human body of resisting disease and of restoring health. The primary force of all forces, coming from the great central source of all life; an expression of divine intelligence.

Lindlahr, H. *Nature Cure, Philosophy & Practice Based on the Unity of Disease & Cure*. 1913
“In order to take ourselves seriously we need to define these terms that have been used interchangeably more precisely: Vis Medicatrix Naturae, vital force, the Vis, vitality—even energy, and spirit.

Do we mean to be saying that all of these things are the same?”

Supports Lindlahr’s definition of the VMN, including divine origin.

The healing power of nature refers to the ‘animating life force’.


Originally Published in 1989 in Claymont Journal
“I have been involved in naturopathic medicine for 35 years, and I still can’t define it. Nonetheless, we can see the Vis in others—it is something we all sense. As a clinician, you watch the level of a patient’s vitality; when it increases you know you are on the path to cure, but if it decreases then you are only palliating symptoms and suppressing the individual’s expression of the Vis.”
VIS - NATURAL SYSTEMS
NATURE
“We are natural organisms, with our genomes developed and expressed in the natural world. The patterns and processes inherent in nature are inherent in us, and in the Vis medicatrix naturae.

We exist as a part of complex patterns of matter, energy, and spirit.”

“...It seems entirely within the realms of complexity and chaos theory to scientifically grasp such phenomena. Clearly much more work remains in this field, such as to explain the results of experiments that continue to defy existing understandings of the natural world, such as experiments appearing to show instantaneous transmission of information between people with no obvious connections between them (Achterberg, et al. 2005).”

VIS - NATURAL LAW
AN EQUATION
“The interactions of the body, mind, and spirit function within the matrix of very complex equations that govern the optimal practice of naturopathic medicine.

Naturopathic medicine attempts to both discover the nature of the equations (the Vis) and amplify the positive effects of the aspects of the equation. Amplifying the positive is the same thing as increasing the vitality of an aspect of the equation.”

“The ‘Vis’ is an equation.” The result of the harmonious balanced functioning of all systems at all levels.

VMN = the healing power of nature
VNM = the self-organizing property

“The VNM functions in any given living system as the tendency to organize that system so as to maintain existence.”

“The Vis is universal.”

“A fascinating assumption... is that life on other systems contains an internal intelligence for self-maintenance as well, meaning that the Vis exists universally and is a cosmological reality.”
“The Vis is not weakened or strengthened by the weakness or strength of the individual. The VMN exists internally and universally.

“This is best thought of as an equation that exists during the life of the system....”

“And while the inputs into an equation...can change the value of X, Y, or Z, the equation itself exists as a structure in which these values interact with each other.”
Example:

Force = Mass x Acceleration \( (F = MA) \)

Both mass and acceleration can be changed, and thus the force is affected; however, the equation \( F = MA \) does not change. It exists as a law of nature. In the same way, the healing power of nature exists as an eternal law of nature.
‘THE VIS IS AN EQUATION’

“Values in the equation can change, thus affect how strong an individual is, or how long an individual lives...but the law of nature simply exists. The level or vitality of any part of the equation can change; however, the Vis is the equation itself.”
VITALITY ≠ VIS

“Confusion arises when one equates vitality with the VMN. The Vis is the framework in which vitality has significance. Vitality has no inherent value unless it can be integrated into the equation of the Vis.”

Example: “..a perfectly vibrant and healthy kidney that exists in a man who has just died of a heart attack.”
“The Vis defines the effects of the variables with respect to each other...The Vis is the law defining the rules and interactions of the aspects of all systems, including the body, the mind, and what we may call the spirit.”

“The implications are startling, but made even more complex by the fact that the equations are evolving.”
HYPOTHEtical EQUATION FOR HEALTH:

Healthy air + healthy water + healthy food + good friends + a beautiful environment + adequate health care + a meaningful belief system = Health.
AN EQUATION DESCRIBING THE POTENTIALS TO TREAT ASTHMA IS DERIVED FROM THE FOLLOWING PHYSIOLOGICAL FLOW CHART:

- Phospholipids
  - Cell Membranes
- Phospholipase
- Arachidonic Acid
  - Cyclooxygenases
  - Liopxygenases
    - Endoperoxides
      - Prostaglandins
      - Thromboxanes
      - Prostacyclins
    - HPETEs
      - (Hydroperoxy eicosatetraenoic acids)
        - Lipoxins
        - HETEs
        - Leukotrienes
        - DHETEs
The vis is

the flow chart itself
Vis Medicatrix Naturae

- Health as Balance
- Suppression
- Individualization
- Signature
- Minimum Dose
- Dual Effect
- *Unity of Cause and Cure?*
- *Therapeutic Order?*

The action of the VMN is predictable through these natural phenomena or laws of nature...subsets of the overarching law - *the vis medicatrix naturae.* (Snider)

“The Vis Medicatrix Naturae, the Healing Power of Nature, is the harmony of the natural universe with Divine Law.”

Three concepts of most value to Dr. Jonas:

- **First** the Vis is not the same as “vitality.”
- **Second**, the Vis is like an equation—but only metaphorically.
- **Third**, the Vis goes beyond physiology and chemistry (the usual way we express equations in the body) to include the “metaphors” of mind and spirit.

VIS - PHYSIOLOGICAL
“We are natural organisms, with our genomes developed and expressed in the natural world. The patterns and processes inherent in nature are inherent in us, and in the Vis medicatrix naturae.

We exist as a part of complex patterns of matter, energy, and spirit.”


The healing power of nature refers to the ‘animating life force’.


Originally Published in 1989 in Claymont Journal
All physiological function is the result of enzymatic activity
All enzymes are dependent on ATP
Huge genetic variation in ATP production
ATP production greatly modifiable by environment, diet, lifestyle and supplementation

Is it simply all about **mitochondria**?

Joseph E. Pizzorno, ND. *Vis Medicatrix Naturae; The Stewardship of Healing.* Vitalism Conference 2009. Octagon Institute
High organ reserve results in increased health and vitality and resistance to disease

Disease is simply loss of organ function

Joseph E. Pizzorno, ND. *Vis Medicatrix Naturae; The Stewardship of Healing*. Vitalism Conference 2009. Octagon Institute
High Vitality

Signs & Symptoms

Vis medicatrix naturae

Metabolic Function

Death

High energy
Fatigue
Atherosclerosis
Angina
Heart attack

Aging, stress, toxins, nutritional deficiencies

Optimal function
Imbalanced physiology
Cellular pathology
Organ pathology
Organ failure

Pizzorno J. Total Wellness Lecture
“To examine the VMN is to raise questions about the nature of life itself..”

“...the vis at work is an inherent, purposive process of restoring normality in the body that is fundamentally the same whatever the challenge”

Mitchell acknowledges the “ the vis is that aspect of our nature...that drives us to realize our visions, to become more what we are now...”

VIS - CONSCIOUSNESS
VIS: CONSCIOUSNESS

- The Vis is our expression of the universal Consciousness
- Life is the manifestation of Vis in a biological structure

Joseph E. Pizzorno, ND. *Vis Medicatrix Naturae; The Stewardship of Healing.* Vitalism Conference 2009. Octagon Institute
In the world of physics, all of energy runs downhill to waste heat

Life is not logical in a universe ruled by entropy

Something is causing energy/matter to improbably organize into life

**THE VIS**

Joseph E. Pizzorno, ND. *Vis Medicatrix Naturae; The Stewardship of Healing.* Vitalism Conference 2009. Octagon Institute
Almost everyone would agree that the Zen/Yogi/etc. masters have advanced consciousness.

Research shows that masters have:

- Stronger and more frequent alpha waves (as opposed to the average person whose brain primarily shows beta and gamma waves).
- Their alpha waves occur at the same time in all 4 lobes of the brain and on the left and right sides (as opposed to the average person whose limited alpha occurs independently).
- They even synchronize their wave patterns.

Joseph E. Pizzorno, ND. Vis Medicatrix Naturae; The Stewardship of Healing. Vitalism Conference 2009. Octagon Institute
ARE ALPHA WAVES A MANIFESTATION OF OUR SYNCHRONIZATION WITH THE CONSCIOUSNESS OF THE UNIVERSE?
Vis is the manifestation of the universal Consciousness in biological form. Our environment, beliefs, interactions with others, actions, lifestyle, diet, etc. modulate the manifestation of Vis as our vitality, but Vis itself is immutable. As we harmonize with the Vis, our consciousness expands.

Joseph E. Pizzorno, ND. Vis Medicatrix Naturae; The Stewardship of Healing. Vitalism Conference 2009. Octagon Institute
VIS - PHYSICS
“...It seems entirely within the realms of complexity and chaos theory to scientifically grasp such phenomena. Clearly much more work remains in this field, such as to explain the results of experiments that continue to defy existing understandings of the natural world, such as experiments appearing to show instantaneous transmission of information between people with no obvious connections between them (Achterberg, et al. 2005).”

CAGE & STANDISH (2006)

Classical vs modern physics (‘quantum field theory’).

The *Vis* refers to the organizing fields that give rise to the body. The body, matter itself, is viewed as local condensations of potential energy fields that exist throughout the universe.

Naturopathic medicine distinguishes itself philosophically from mainstream medicine by its core principle Vis medicatrix naturae, the healing power of nature. Its insistence on referring to the ‘vital force’ has served to isolate, and perhaps sideline, naturopathic medicine from the mainstream conventional and pharmaceutical medicine of the second half of the 20th century, which has been historically based exclusively on scientific materialism.

However, the experimental findings from quantum mechanics in physics, neuroscience, and the distant healing literature suggest that scientific materialism is an incomplete description of reality and thus cannot be the sole philosophy of modern medicine. The findings of the ‘new science’ support the concept of biological field effects, macro-entanglement, non-local interaction, and downward causation. A ‘new medicine’ is emerging in the 21st century.

VIS - COMPLEX SYSTEMS THINKING
• The Vis of Naturopathic medicine is a self organizing system...

• The Vis is the operative intelligence of self organizing systems in nature.

“Mitchell’s Vis... is not identical to the... vital force... it is all encompassing, inclusive, interactive...”

“Although he does not explicitly define the Vis in terms of a complex adaptive system, many of Mitchell’s points about the properties of the Vis imply characteristics that belong in the conceptual realm of complex systems thinking.”

“Once the paradigm has shifted from that of ‘normal science’ to an acceptance of complexity science, the vis can be advanced as the organizing principles of all the subsystems within the system.”

We can use systems theory principles (system & holarchy; organizing principles; energy & information; emergence) to develop a testable model for Bill’s equation of the Vis.

The interactions of the body, mind, and spirit function within the matrix of very complex equations that govern the optimal practice of naturopathic medicine.

Naturopathic medicine attempts to both discover the nature of the equations (the Vis) and amplify the positive effects of the aspects of the equation. Amplifying the positive is the same thing as increasing the vitality of an aspect of the equation.’

VMN is the equation; natural law & complex system of healing.

VMN is based in and affected by a unified field created through both upward and downward causation...originating in Spirit.

This natural law (VMN) behavior can be observed through phenomena of traditional laws of healing (e.g., dual effect, similars, unity of disease and cure, sevens, suppression, healing reaction, therapeutic order, Hering’s Rules...etc).

It may be called the healing power and process of nature.

Both consciousness and material inputs affect the VMN.

Vis (not VMN) = life force. Vital force and life force may be the same. The vital force is not same as VMN.

The vital force powers the VMN within the human organism.
Our Current Thinking

- It is ineffable...still a mystery...has unpredictable emergent properties...transformative
- Difficult to define but can characterize and understand it through its effects-operationalize..
- We know it ourselves, through experience and observation

“瞎子摸象”

Hmm... Maybe.... Spoiled Rice Pudding?

Snake?

Tree Trunk?

Water Hose?

Carpet?
“I have given each being a separate and unique way of seeing and knowing and saying these things.”

Rumi

THANK YOU!

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- Australia, Canada, USA, United Kingdom (England, Scotland), Israel, New Zealand, France, Nicaragua, India, Africa

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- **Agencies:** CAND, AANP, CNME, NPLEX, AANMC, Naturopathic Societies, Naturopathic Doctors International, Northwest Naturopathic Physicians

- **Student organizations:** *Naturopathic Medical Students Association (NMSA)*-Student Editors, Naturopathic Societies at UBCNM, SCNM have represented student philosophy clubs; authors, researchers, transcribers, reviewers
Editors (and Foundations Fellow)
Kelsi Ervin (BU 2011); Serron Wilkie (NCNM 2010)

Authors
Student River - Ervin, Wilkie; 40 students
The Doctrine of the VMN Throughout Time -
   Marcus Coplin & Kelsi Ervin w/ Schor et al
Biology of Consciousness - Forest Dobbs et al
Naturopathic History and Professional Formation Timeline - Hunter Peterson (NCNM) w/ Stargrove et al

Retreats, Research, Transcription, Organizing
Brewster Scott (BINM); Julia O’ Sullivan (UBCNM); William Franklin (SCNM); Deborah Epstein (BU), many more....

Agency Liaisons - Philosophy clubs and NMSA(invited)

Friedhelm Kirchfeld History Scholar
Hunter Peterson (NCNM 2013)

Inspiration from The Gathering
**UPDATES & HIGHLIGHTS**

- **Modern NM History Timeline** - Beautiful 40 foot interactive color timeline touring Conventions, in review

- **Vis Medicatrix Naturae** - Rigorous exploration through chapter and dialogue on The VMN: Science and Physics of the Vis, Bill Mitchell’s Equation, Systems Theory and VMN, clinical applications, research models

- **Emunctorology** - An old clinical science brought to a new generation of naturopathic physicians

Manuscript submitted 2013
Textbook published 2014
FNM International Clinical Symposium 2014-15
Worldview
Philosophy or Cosmology
Metaparadigm
Principle
Theories
Practice Theory
Science Theory
Public Policy

Practice Theory

Clinical algorithm? Case Management?

Science Theory

NCCAM study specific aim: observational, or biomarkers of return of old symptoms?

Public Policy

Should CDC data be collected and interpreted differently? Why or why not? When are acute infections an adaptive restoration of health? Should these symptoms be managed and classified differently? Suppressed? Impact of suppression of acute illness on rate of chronic disease?
Paradigm: Sensenig, Grontkowski, Senior Editors

History: Schor, Stargrove, Lloyd...

Philosophy: Godfrey Proctor, Marier (Ecopsychology); Nigh, Donovan, Sutherland, Bezy, Herdmann, Shelton, Myers...more

Spirituality: Grant, Bezy, Lee-Engel, Godfrey, Rayne,

Principles: Brammer, Cropley, Lucille, Donovan, more

Clinical Theory: Zeff et al (44); Stargrove, Myers, Lloyd; Smith, Biel, Bezruchka, Pizzorno, D’Adamo, Sensenig...others.

Practice Theory: (Newman Turner, Dick Kronenberg and Rogers): Vis in Nature Cure, Least Force and Health Promotion in Primary Care (El Hashemy); Philosophy Based Clinical Algorithms & Case Management; Modalities (Nadia Bakir) Interrelated Clinical Systems and Applied Naturopathic Theory
Science - Standish et al; Louise and Bell-Systems Theory Models; Cage and Standish-The Physics of the Vis; Student authors - Biology of Consciousness; Curry-Healing Presence: Kail, Standish, De Grandpre -Energy Medicine

Policy - Changing the Therapeutic Order of Our Nations: Global Health (Parker et al); CAND: Saunders & O’Reilly; AANP: Howard et al: The Vis in Political Action; Wellness in Human Systems; Ecology and Policy...

Education - Making Curriculum Naturopathic; Students Vision (Warren et al)

Definitions - VMN, vital force, vitality, life force, energy, spirit .....
Mitchell: The Vis is an equation
Yarnell: Material complex system: VMN is emergent property
Bell, Louise: A complex system - energetic & material synthesis model
Sensenig, Godfrey: Divine origins, governed by natural law
Zeff, Snider, Stansbury, Smith, Lloyd: Divine/material origins, unified by natural systems, explained by natural law
Standish and Cage: Downward vs. upward causation - the physics of the vis, unified field theory
Calabrese: You propose, we test (wound healing model)
Pizzorno: Physiological and consciousness model
Normal Health

Disturbing Factors

Disturbance of Function

Reaction
(fever, inflammation, etc.)

Chronic Reaction

Degeneration
AT THE GATHERING NCNM 2006