University of Victoria Elder Academy Nov 2nd 2019

"Complementary Medicine" in context: Where does it come from – and where is it going?



Peter Conway

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Fellow of the National Institute of Medical Herbalists (UK)

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Postgraduate studies in Aromatic Medicine with Dr Daniel Penoel

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Author of *The Consultation in Phytotherapy*, 2011 Elsevier

The Consultation in Phytotherapy

The Herbal Practitioner's Approach to the Patient



Peter Conway

Foreword by Simon Mills

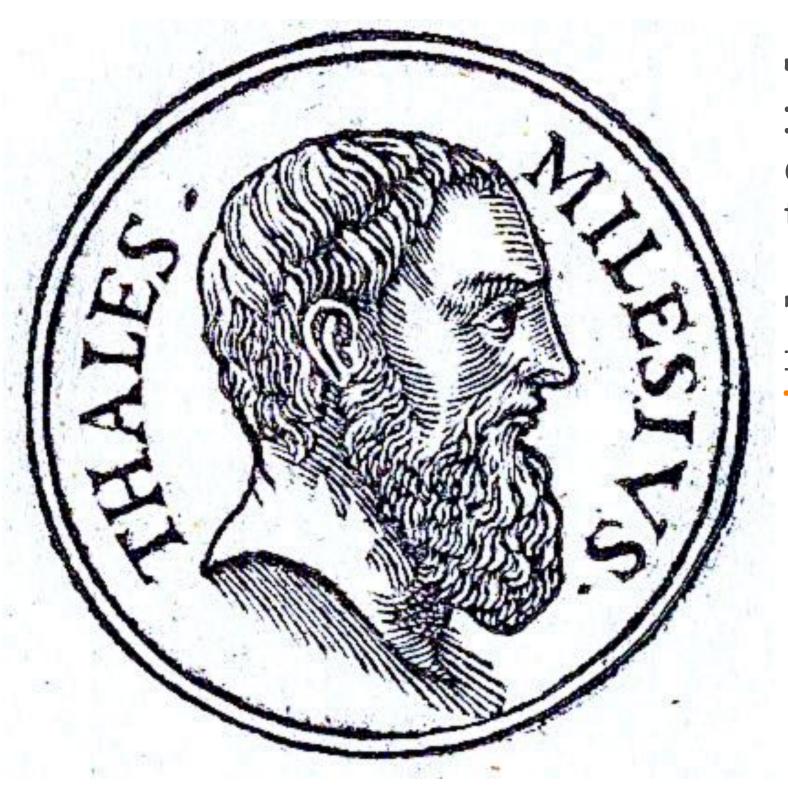
CHURCHILL LIVINGSTONE Where does complementary medicine come from?

It depends on which modality you are referring to!

Let's look at the most ancient forms...

What we now call "complementary medicine" begins as an approach situated within a cosmological context

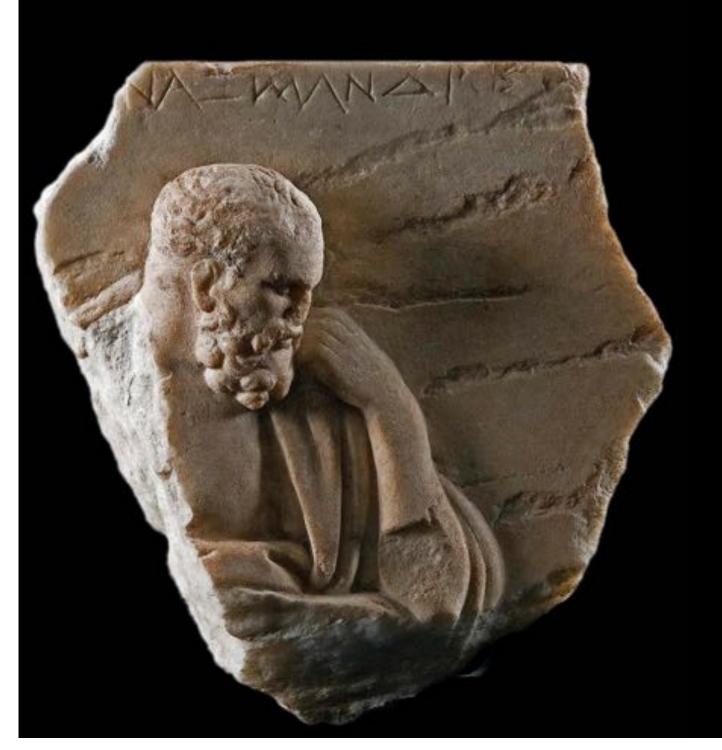




Thales of Miletus c620BCE to c546BCE

The primal material is:

Water



Anaximander c610BCE to c546BCE

Interaction of hot, cold, wet & dry



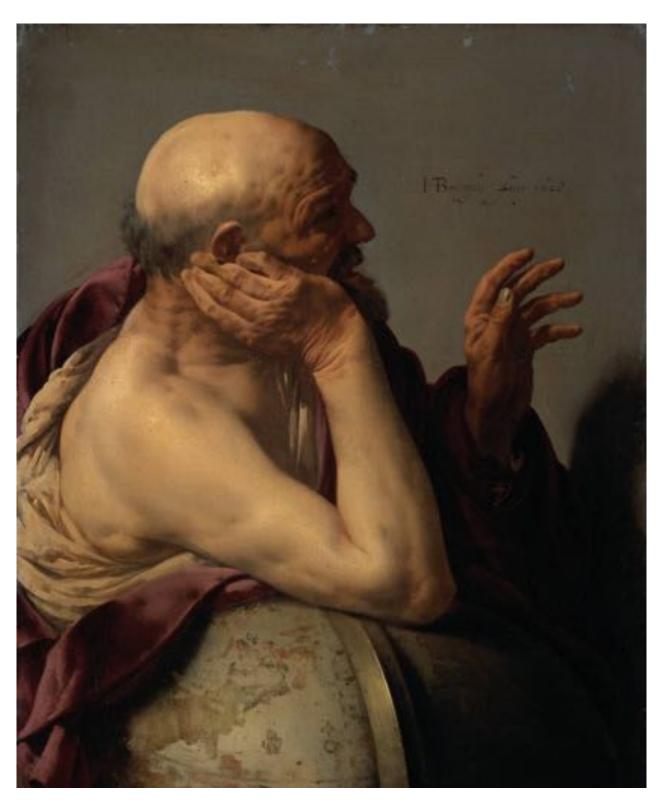




EVERYTHING IS AIR"



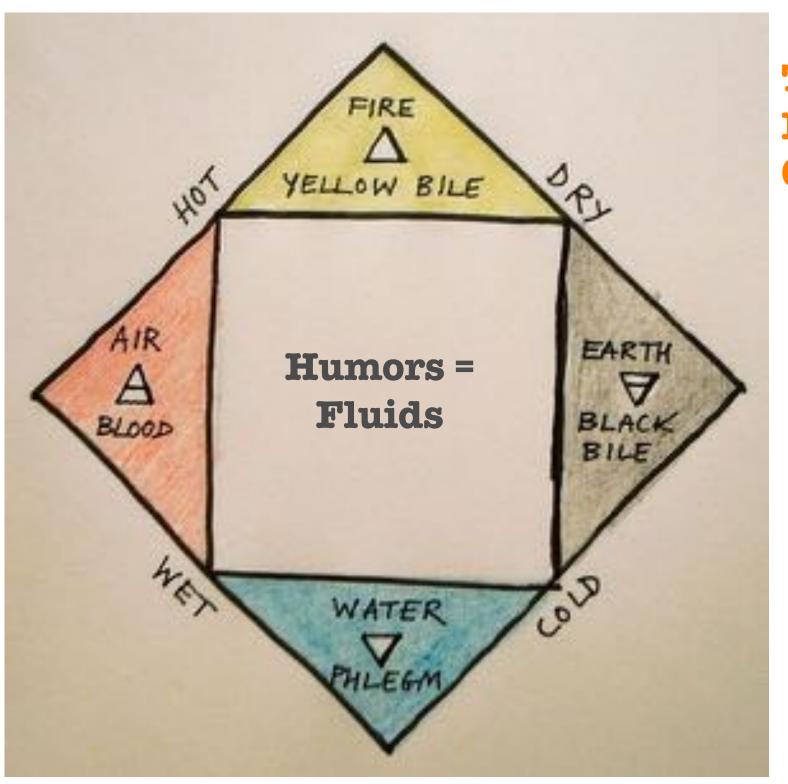
c585BCE to c528BCE



Heraclitus c535BCE to c475BCE

Fire

By Hendrick ter Brugghen, 1588 to 1629



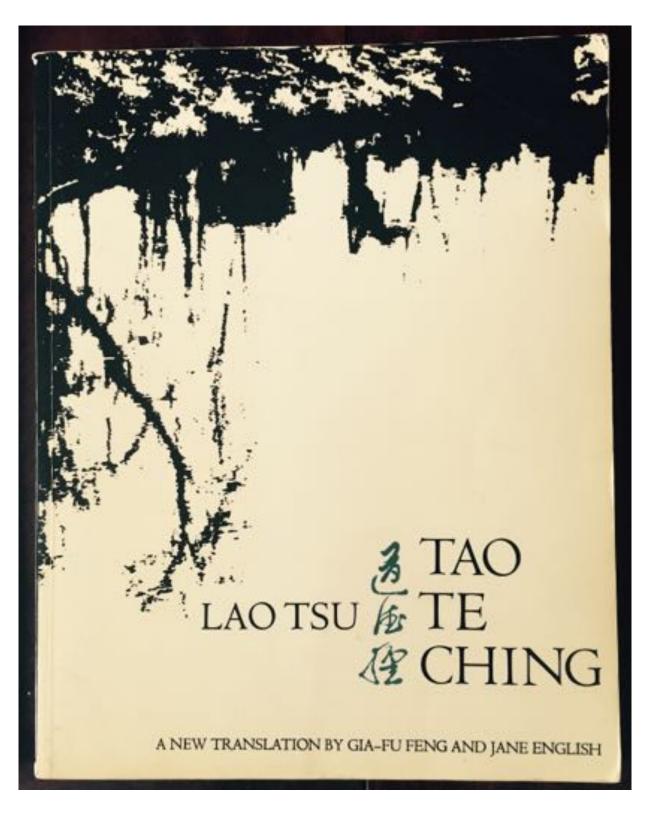
Traditional Medicine Cosmology



Four Humors

Temperament Constitution Personality

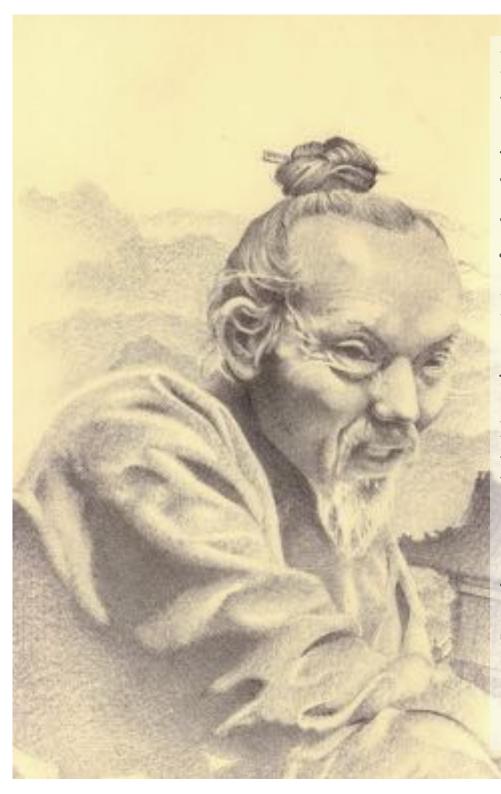




"Tao te Ching" (c500BCE) "The Tao begot one. One begot two. Two begot three. And three begot the ten thousand things. The ten thousand things carry yin and embrace yang. They achieve harmony by combining these forces."

Yin Yang Theory

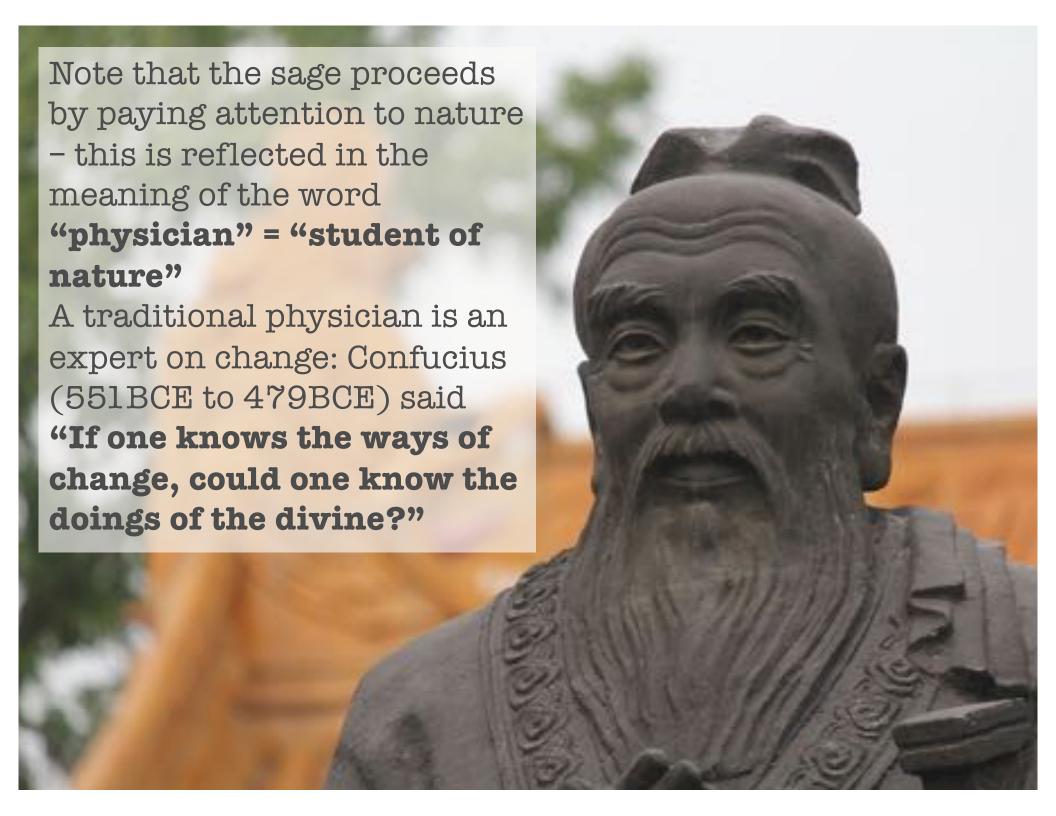
Yin	Yang
Earth	Sky (Heaven)
Descending	Ascending
Moon	Sun
Night	Day
Shade	Light
Winter	Summer
Coolness	Heat
Stillness	Movement



It is important to be clear that there is no complacency here. As Chuang Tzu said: "The torch of chaos and doubt, this is what the sage steers by"

It is "sagely" to not only be comfortable with uncertainty but to know that uncertainty is the source of creativity and knowing

The aim of the sage is an "understanding of how all things move in a total system" (Mou, B.; Ed. 2003. Comparative Approaches to Chinese Philosophy Ashgate)



Change in Ancient Greece:

By cosmic rule, as day yields night, so winter summer, war peace, plenty famine, All things change

The only thing that is constant, is change All is flux, Nothing stays still Panta rhei (everything flows)

Heraclitus (6th century BCE)



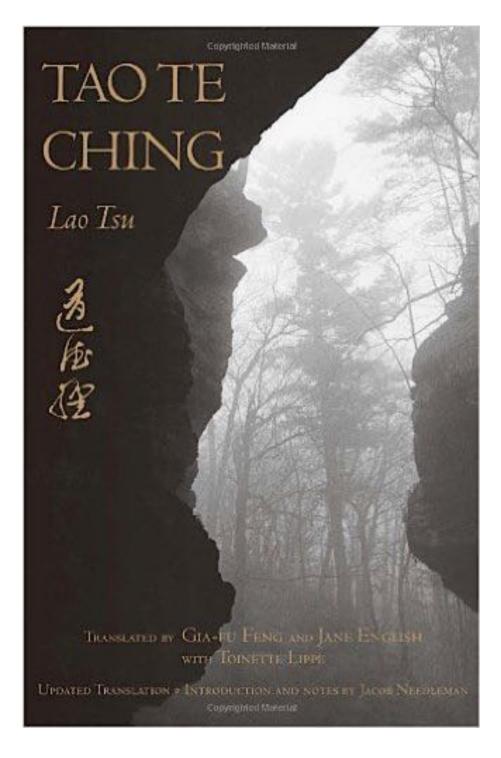
The Key Role of Change What is the nature of life? Change

What is the nature of death? Change

What is the nature of health?
The ability to cope with change
What is the nature of illness?
Fixity/disorder in the face of change
How do you enable change?
By learning

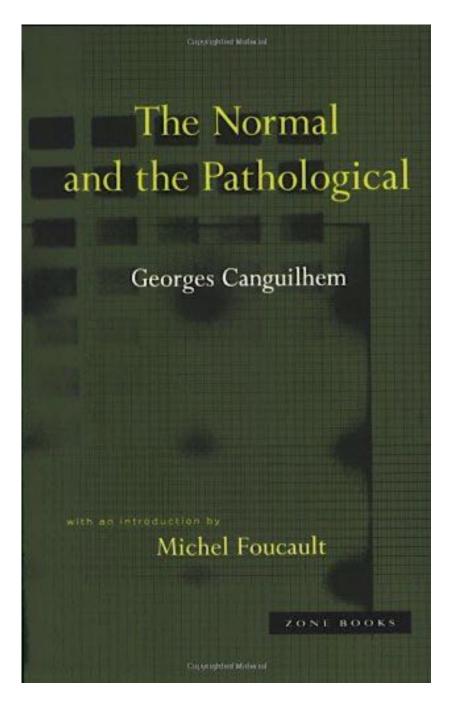
Remember:

"physician" means "student of nature" doctor" means "teacher"



The nature of illness then is stagnation (fixity in the face of change)

As it says in the Tao te Ching (by Lao Tzu) -"the stiff and unbending are the disciples of death"



Given that the nature of life is change then, as Georges Canguilhem (1904 to 1995) puts it: "health is the ability to cope with change"



Navigating Change:

The I Ching is the core foundational

text of Chinese philosophy

Imeans "change" and Ching means a classic text

I Ching = the classic text on how to deal with change



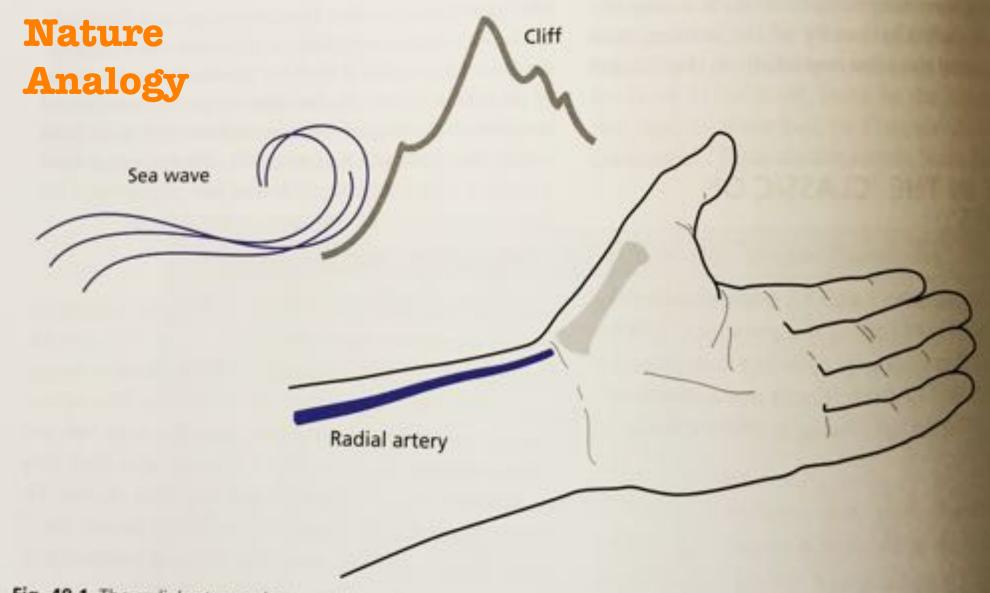
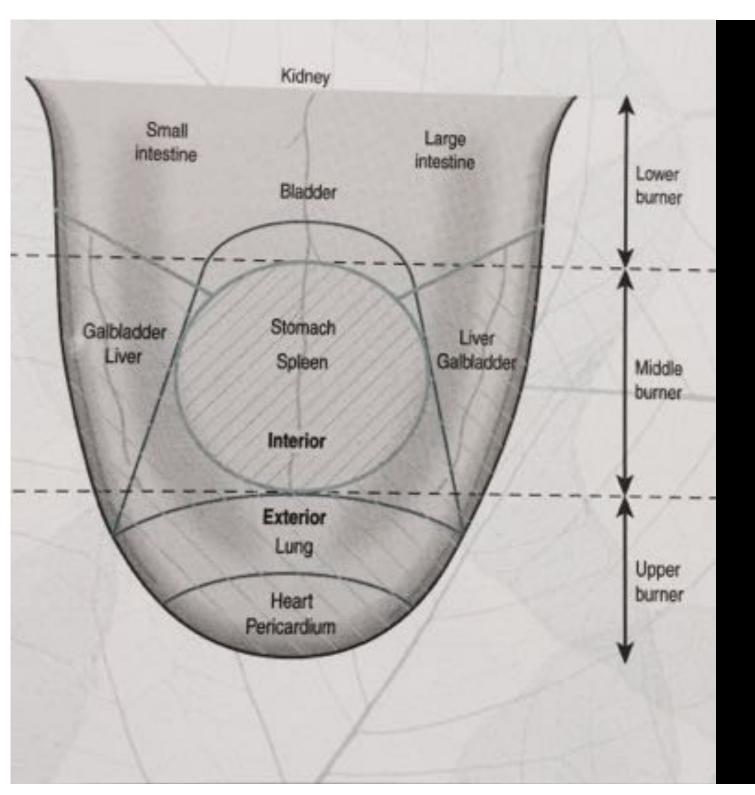
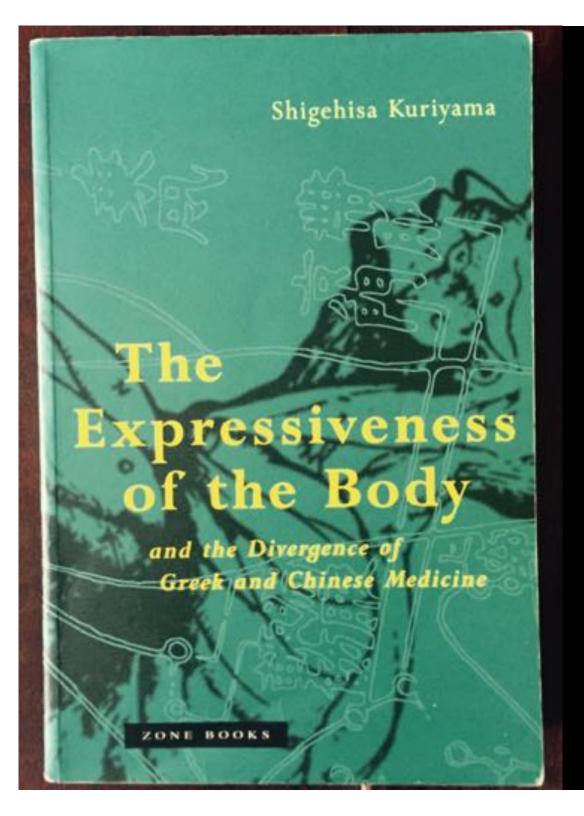


Fig. 49.1 The radial artery pulse according to Dr Shen

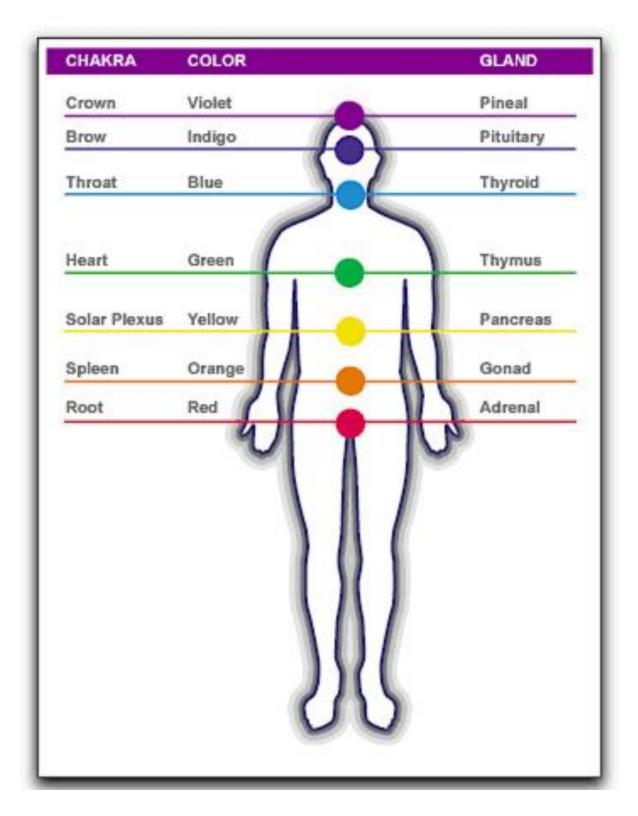


Microcosm Macrocosm









Traditional ways of seeing/being

Chakras & Hormonal Glands

Cosmological Schema

Table 1. Correspondences in Ancient Hippocratic-Galenic Medicine.

	Table 1. Comcopendences in 7 molent impresidue daterne medicine.				
Season	Spring	Summer	Autumn	Winter	
The 4	Air	Fire	Earth	Water	
elements					
The primary	Hot & moist	Hot & dry	Cold & dry	Cold & moist	
qualities		_	-		
The 4	Blood	Yellow bile	Black bile	Phlegm	
humours					
The 4	Sanguine	Choleric	Melancholic	Phlegmatic	
temperaments					
Development	Childhood	Youth	Middle age	Old age	
Direction	West	South	East	North	
Associated	Joy	Anger	Fear/worry/grief	Indifference	
emotion					

Adapted from: Tobyn, 1997.

Table 2. Correspondences in Chinese Medicine.

Category	Wood	Fire	Earth	Metal	Water
Season	Spring	Summer	Late summer	Autumn	Winter
Direction	East	South	Centre	West	North
Colour	Green	Red	Yellow	White	Black
Taste	Sour	Bitter	Sweet	Pungent	Salty
Odour	Rancid	Scorched	Fragrant	Rotten	Putrid
Sound	Shouting	Laughing	Singing	Crying	Groaning
Zang (yin	Liver	Heart	Spleen	Lungs	Kidney
organs)					
Fu (yang	Gallbladder	Small	Stomach	Large	Bladder
organs)		Intestine		Intestine	
Sense organ	Eyes	Tongue	Mouth	Nose	Ears
Emotion	Anger	Joy	Pensiveness	Sorrow	Fear
Development	Birth	Growth	Transformation	Harvest	Storage
Climate	Wind	Heat	Damp	Dryness	Cold

Adapted from: Dowie, 2009; and Ergil, 2001.

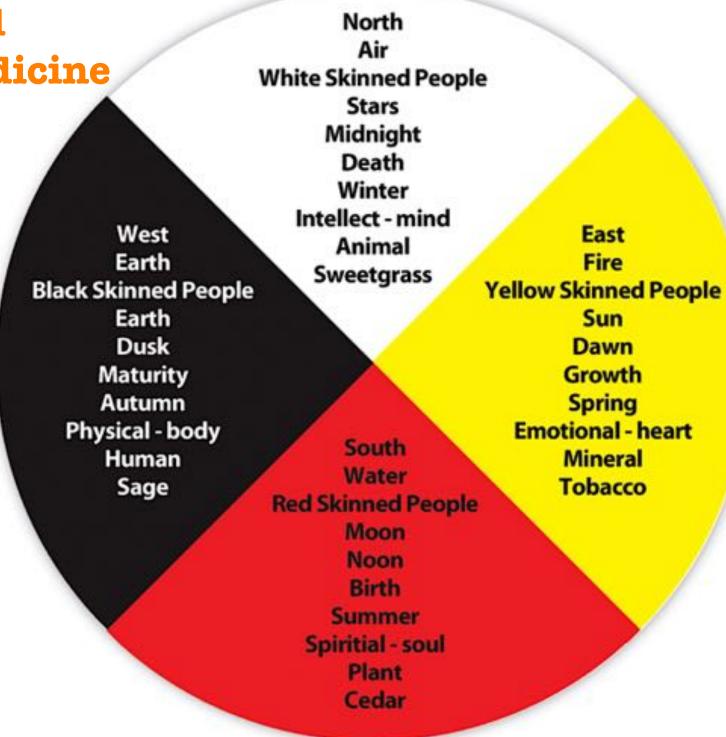
Table 3. Correspondences in Ayurvedic Medicine.

Characteristic	Vata	Pitta	Kapha
Elements	Air & Space	Fire & Water	Earth & Water
Qualities	Dry, cold, light,	Hot, light,	Heavy, unctuous,
	irregular, mobile,	intense fluid,	cold, stable,
	rough, abundant	liquid, putrid,	dense, soft,
		pungent, sour	smooth
Humour	Wind	Bile	Phlegm
Taste	Astringent &	Salty & bitter	Sweet & sour
	Pungent		
Principal Seat	Colon	Stomach	Lungs
Physiology	Responsible for	Governs	The principle of
	all bodily	enzymes and	cohesion and
	movement and	hormones and is	stability.
	nervous functions	responsible for	Responsible for
		digestion, etc	sexual power, etc

Adapted from: Zysk, et al, 2001; and Joshi, et al, 2006.

The Sacred
Hoop (Medicine

Wheel)



	Bedside Medicine	Hospital Medicine	Laboratory Medicine
Perception of the patient as	Person	Case	Cell complex
Conceptualisation of illness as	Total psychosomatic disturbance	Organic lesion	Biochemical process
Task of the medical investigator	Prognosis and therapy	Diagnosis and classification	Analysis and explanation
Subject matter of nosology	Total symptom complex	Internal organic events	Cellular function
Research methods	Speculation and inference	Statistically oriented clinical observation	Laboratory experiment according to scientific method
Diagnostic technique	Qualitative judgement	Physical examination before and after death	Microscopic examination and chemical tests
Mind/body relation	Integrated: psyche and soma seen as part of same system of pathology The disappearance	Differentiated: psychiatry a specialised area of clinical studies	Differentiated: psychology a separate scientific discipline

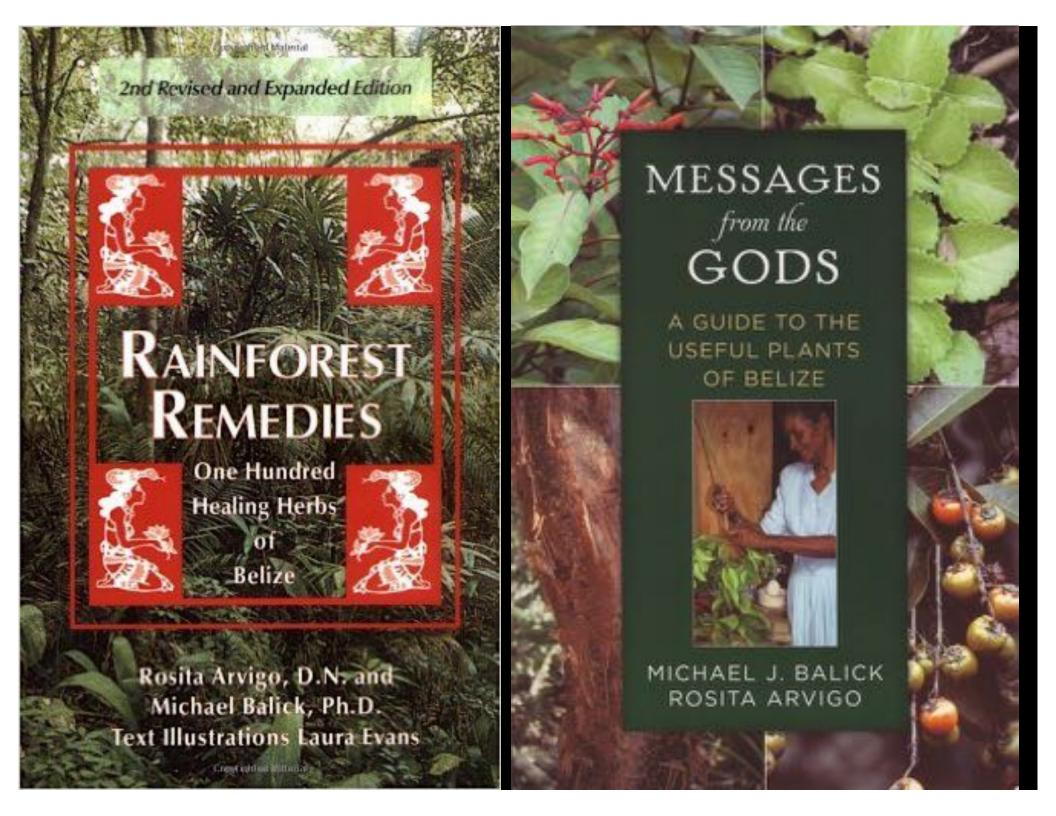
Jewson, N.D. 1976. The disappearance of the sick man from medical cosmology 1770-1870. In: Beattie, A.; Gott, M.; Jones, L.; Sidell, M. 1993. *Health and Wellbeing: a reader.* Macmillan/Open University.

Medical Cosmologies

Indigenous Origins of Medicine

An example from Belize







Dr Rosita Arvigo Polo Romero

A diversity of healers using herbs in Belize:

Doctor-priest/ priestess

Village healer

Grannie healer

Midwife

Massage therapist

Bone setter

Snake doctor

Of course none of the above is "complementary medicine"...

E.g. herbal medicine is pre-human (animals self-medicate with plants = zoopharmacognosy)

What is
"complementary
medicine"
complementary to?

This is a power relationship

To refer to our earliest forms of medicine as "complementary medicine" then is...

Disrespectful?
Ignorant?
?

Ancient Medicine now called "complementary medicine", e.g.

Herbal Medicine
Nutrition
Massage
Meditation
Acupuncture

More recent "complementary medicine", e.g.

Homeopathy

Samuel Hahnemann 1755 to 1843

Osteopathy

Andrew Taylor Still 1828 to 1917

Chiropractic

Daniel David Palmer 1845 to 1913

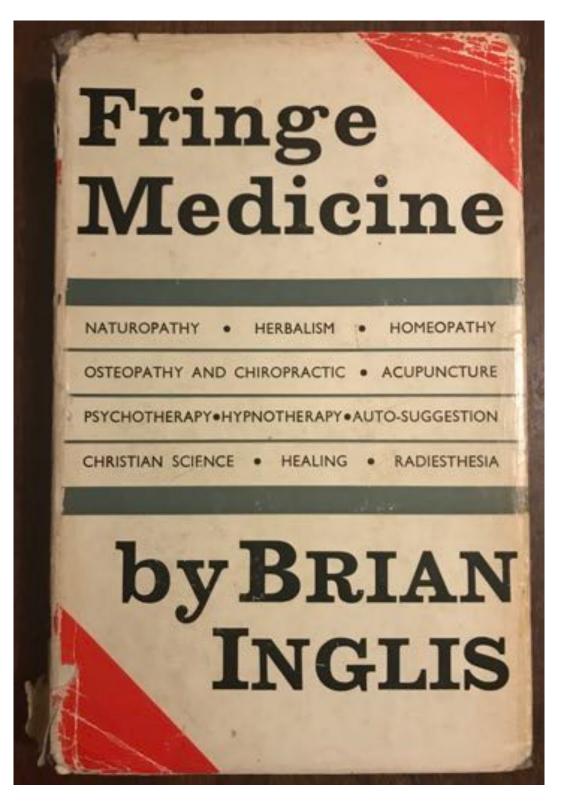
Alexander Technique

Frederick Matthias Alexander 1869 to 1955

Feldenkrais

Moshe Feldenkrais 1904 to 1984

Development of Terminology



Fringe Medicine 1964

Holistic Medicine 1960s **Natural Medicine 1970s Alternative Medicine** 1970s Complementary Medicine 1980s Complementary and **Alternative Medicine** (CAM) 1990s **Integrative Medicine** 2000s

What next? Medicine?

Why Do People Seek Out Complementary Medicine?







Simply because it works better: Exploring motives for the use of medical herbalism in contemporary U.K. health care

C.V. Little*

School of Health and Social Care, Bournemouth House, Bournemouth University, Christchurch Road, Bournemouth, BH1 3LH, United Kingdom Available online 9 September 2009

Common motive

Although participants reported the usual range of push and pull motives, these were subsequently found to conceal a more fundamental driver that was common to every participant: all had been searching for more effective health care.

This, they found in medical herbalism: "quite simply ... it just works better" (\$13.3).

Health care was deemed effective only when it met each of six essential criteria (Box 1), that were realised through three interdependent processes (incidental constituents): dealing with illness causation, patient—practitioner collaboration and the provision of authentic health care evidence. Herbalism was perceived as effective because it met these criteria more readily than conventional medicine.

Box 1 Participants' criteria for health care effectiveness.

Symptomatic relief
Repair and recovery at physical, emotional and psychological levels
Absence of side-effects
Collaborative patient—practitioner relationship
No recurrence of illness (unless unavoidable)
Minimal disruption to daily life

"Complementary and Alternative Medicine" is:

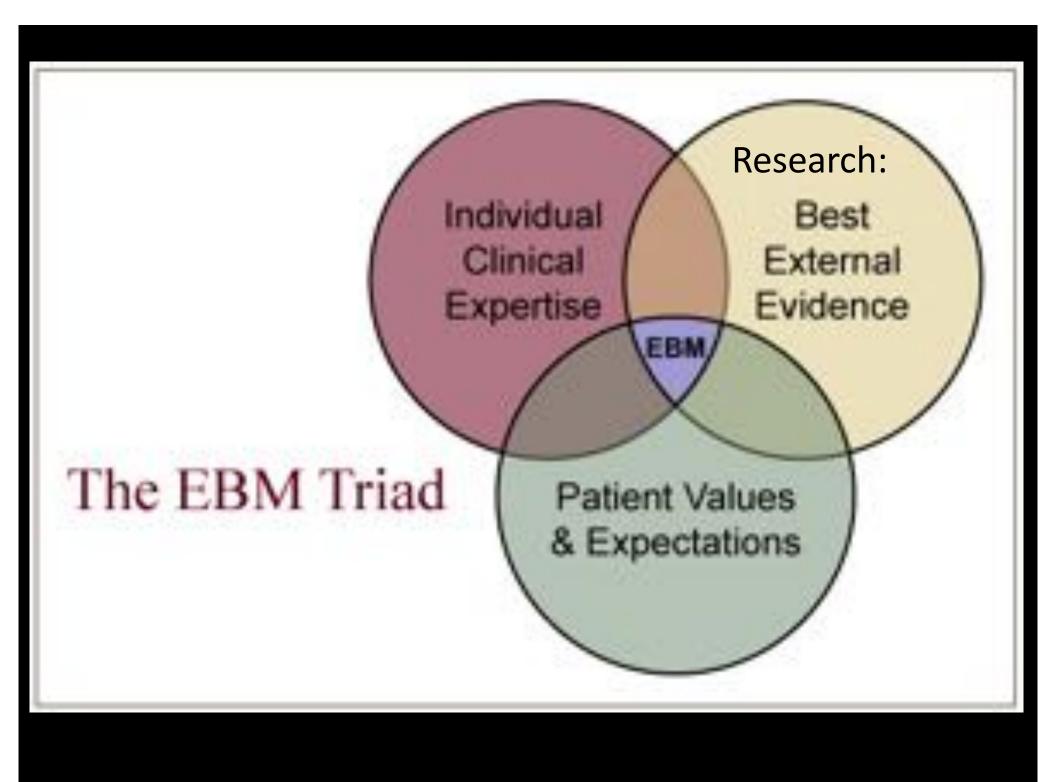
A sociological, not a medical, definition It refers to practices excluded from conventional medicine It is a means by which the dominant medical system protects its power

"Complementary and Alternative Medicine" is not:

A unified, homogenous, cohesive field

So why do we talk of it as such?

But, hey, nonetheless.... does "complementary medicine" work?

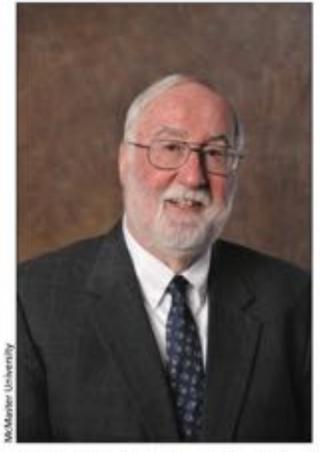


Dr. David Sackett, a giant among giants (1934–2015)

n his first day of medical school, Philip Devereaux learned from a tutor that his academic advisor was Dr. David Sackett. "Who is he?" Devereaux recalls asking. The tutor told him that Sackett was a famous clinical epidemiologist. But Devereaux had no interest in clinical epidemiology; he planned on returning home to Cape Breton and being a "real" doctor.

"My first thought was: how am I going to get rid of this guy and get a real advisor?" said Devereaux.

Then he met Sackett. And like so many other young physicians and researchers, his life was soon set on a whole new path. "He opened up my eyes to a world I didn't even know existed," said Devereaux, now an assistant professor in the department of clinical epidemiology and biostatistics at McMaster University, a department founded by Sackett in 1967. "He was a giant among giants."



Dr. David Sackett founded Canada's first department of clinical epidemiology and biostatistics, at McMaster University in 1967.

opinion, conventional wisdom or wish-

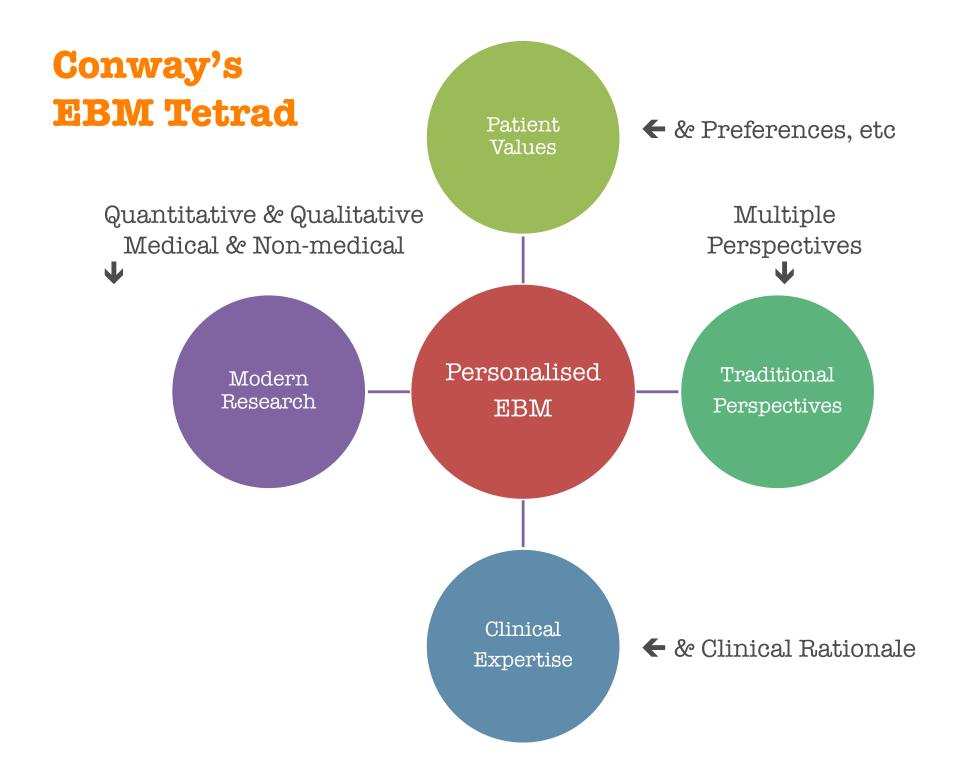
met Sackett — down to the minute, actually. It was July 1, 1975, 12:01 pm. Tugwell, who was planning to go on to practise rheumatology in British Columbia, had just arrived at McMaster University to take clinical exams and looked lost on his way to lunch. Sackett was behind him and struck up a conversation. In short order, Sackett had another mentee, and another medical career was redirected.

"He persuaded me to give up the lotus land of British Columbia for the excitement of academic medicine at McMaster," said Tugwell, now a senior scientist in the clinical epidemiology program at the Ottawa Hospital Research Institute.

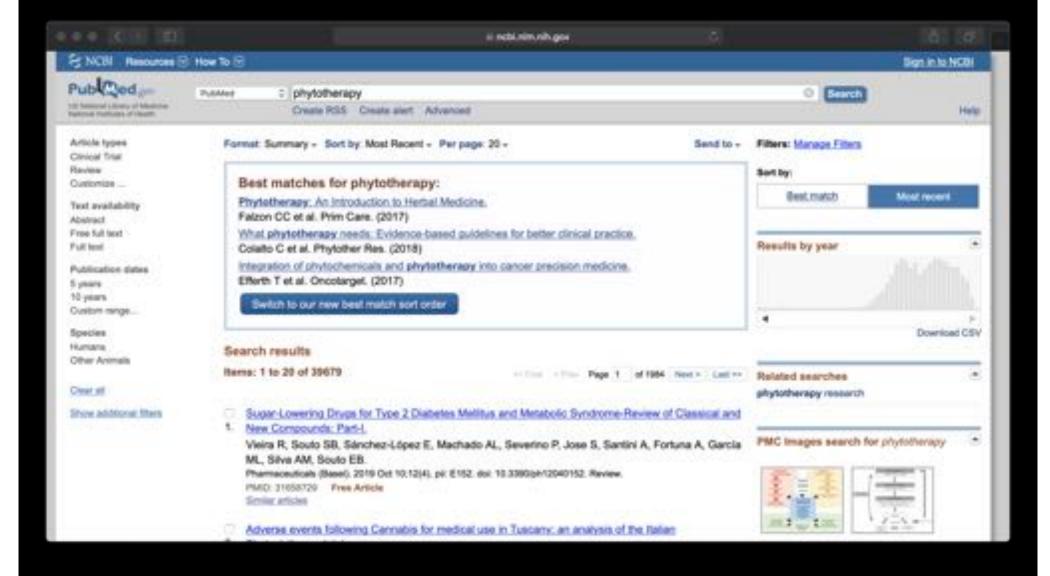
Sackett is lauded for setting up Canada's first department of clinical epidemiology and biostatistics at McMaster, but according to Tugwell he also deserves praise for discouraging the creation of another department. "He persuaded McMaster not to have an

"...we clinicians who accept the awful responsibility of caring for individual patients with their unique risks, responsiveness, values and expectations have simply failed to communicate key elements of our decisionmaking to some ethicists and methodologists who don't diagnose and treat individual patients... their definition of evidence-based healthcare stops with external evidence and ignores the other 2 of its 3 vital elements: clinical expertise and patient values."

Sackett, D.L. Equipoise, a term whose time (if it ever came) has surely gone. *Canadian Medical Association Journal* 2000;163(7):835-836



Research



postmenopeusal bone loss (Ostesporos Int. 2009)

dyspepsia with th (Aliment Pharmanis Ther. 2004).

See more...

Meta-analysis: phytotherapy of functional

Effects of levender on anxiety: A systematic review and meta-analysis.

Phytomedicine, 2019 Sep 20:65 153099; doi: 10.1016/j.phymed.2019.153099; (Epub shead of print) Review.

Effects and safety of herbal medicines on patients with overactive bladder: A protocol for a systematic

Donelli D, Antonelli M, Bellinazzi C, Gensini GF, Firenzuoli F.

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view and meta-analysis.

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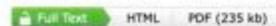
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Antinociceptive and Anti-Inflammatory Effects of Bixin, a Carotenoid Extracted from the Seeds of Bixa orellana



Cardiovascular Protective Effects of Centella asiatica and Its Triterpenes: A Review

Nur Nadia Mohd Razali, Chin Theng Ng, Lai Yen Fong

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Abstract

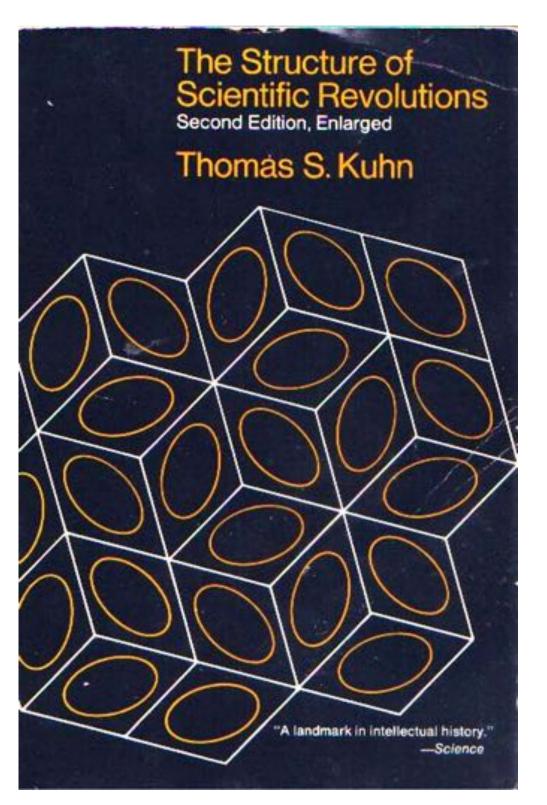
Centella asiatica, a triterpene-rich medicinal herb, is traditionally used to treat various types of diseases including neurological, dermatological, and metabolic diseases. A few articles have previously reviewed a broad range of pharmacological activities of C. asiatica, but none of these reviews focuses on the use of C. asiatica in cardiovascular diseases. This review aims to summarize recent findings on protective effects of C. asiatica and its active constituents (asiatic acid, asiaticoside, madecassic acid, and madecassoside) in cardiovascular diseases. In addition, their beneficial effects on conditions associated with cardiovascular diseases were also reviewed. Articles were retrieved from electronic databases such as PubMed and Google Scholar using keywords "Centella asiatica," "asiatic acid," "asiaticoside," "madecassic acid," and "madecassoside." The articles published between 2004 and 2018 that are related to the aforementioned topics

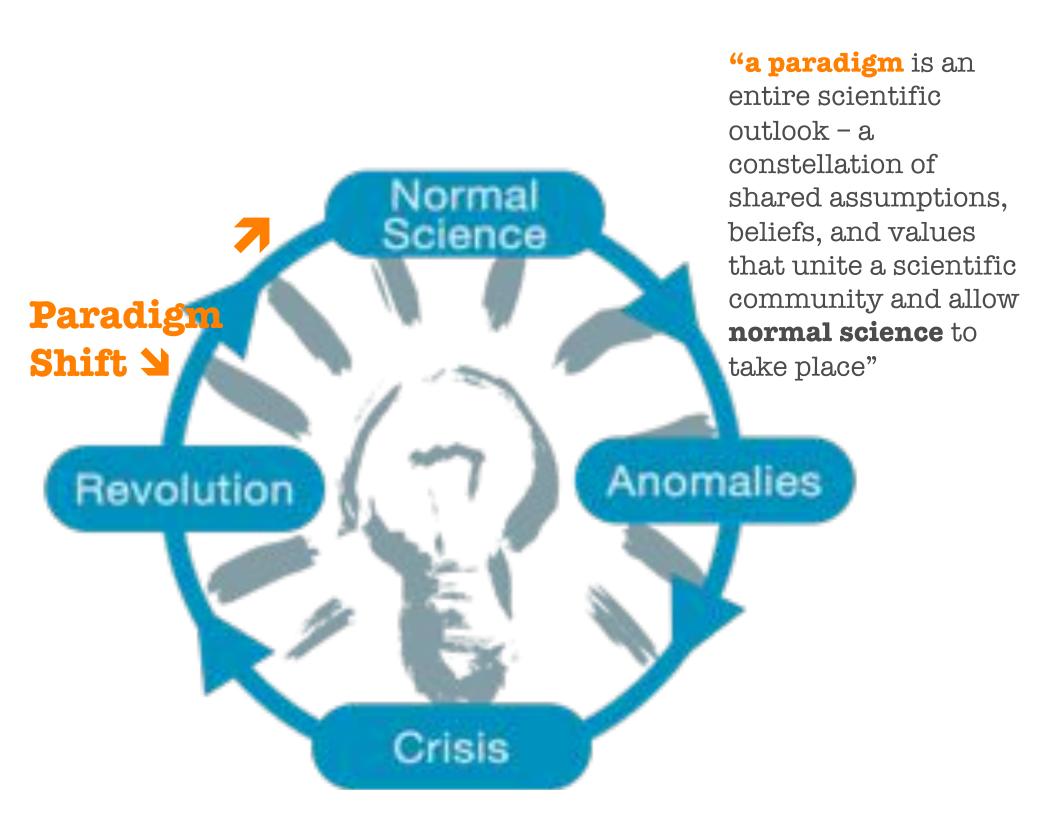


were selected. A few clinical studies published beyond this period were also included. The results showed that C. asiatica and its active compounds possess potential therapeutic effects in cardiovascular diseases and cardiovascular disease-related conditions, as evidenced by numerous in silico, in vitro, in vivo, and clinical studies. C. asiatica and its triterpenes have been reported to exhibit cardioprotective, anti-atherosclerotic, antihypertensive, antihyperlipidemic, antidiabetic, antioxidant, and anti-inflammatory activities. In conclusion, more clinical and pharmacokinetic studies are needed to support the use of C. asiatica and its triterpenes as therapeutic agents for cardiovascular diseases. Besides, elucidation of the molecular pathways modulated by C. asiatica and its active constituents will help to understand the mechanisms underlying the cardioprotective action of C. asiatica. Where is "complementary medicine" going?

Paradigm Shifter Thomas Kuhn (1922 to 1996)







"In searching for new and effective therapeutics, it might be useful to use a **systems-chemistry approach to modify integrated outcomes** rather than targeting single molecules with the hope that the desired systemic effect might be generated. In other words, it is likely that creating a 'new homoeostasis' will require the **modification of more than one target**"

Hotamisligil, G.S. *Inflammation and metabolic disorders*. Nature 2006;444(14):860-67

INSIGHT REVIEW

NATURE Vol 444/14 December 2006 doi:10.1038/nature05485

Inflammation and metabolic disorders

Gökhan S. Hotamisligil¹

Metabolic and immune systems are among the most fundamental requirements for survival. Many

The poet TS Eliot wrote:

We shall not cease from exploration, And the end of all our exploring, Will be to arrive where we started, And know the place for the first time 1942

But one more thing...

British Medical Journal (BMJ) 2016



Research Y Educ

Education Y News & Views Y

Campaigns *

Archive

Too much medicine



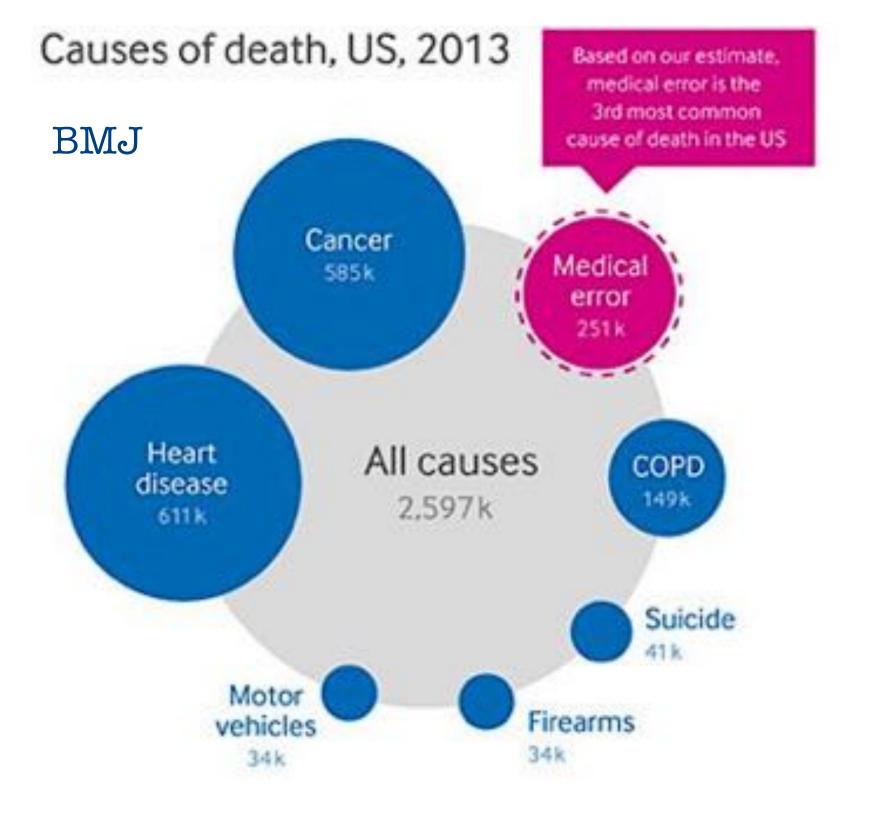
The BMJ's Too Much Medicine initiative aims to highlight the threat to human health posed by overdiagnosis and the waste of resources on unnecessary care. In July 2016 the journal joined forces with the overdiagnosis standing group of the UK's Royal College of General Practitioners (RCGP), whose campaign is Better Medicine: Shared decisions, best evidence.

Fiona Godlee (BMJ Editor)

(www.preventingoverdiagnosis.net). There is much to discuss: how should we define overdiagnosis and its ugly siblings overtreatment, medicalisation, and disease mongering; what do we know of their causes; and what evidence based solutions are available, both general and specific? Above all,

There is much to discuss:

how should we define
overdiagnosis and its ugly siblings
overtreatment, medicalisation,
and disease mongering; what do we
know of their causes; and what
evidence based solutions are
available, both general and specific?



A Final Modest/Radical Proposal:

"Complementary medicine" is safer, cheaper and creates less greenhouse gases than conventional medicine So shouldn't the roles of "conventional" and "complementary" medicine now be reversed?