



Vedantic Foundations of Ayurvedic Science and Technology

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Abstract

In its unifying hypothesis linking both living and non-living matter, the ayurvedic system considers humans and plants in the hierarchy of the cosmic evolution to consist of the same basic matter (*panchabhootas* or five elements - earth, water, air, fire, and ether). Consciousness (*satva*), motion or action (*rajas*), and the inertia that resists them (*tamas*) are the three omnipresent non-material qualities (gunas), which govern the structure and function of all material forms of the basic matter. The basic matter produces three life forces or energy known as doshas that pervade all existing matter. These three doshas - *vata*, *pitta*, and *kapha* - are the primary physiological forces which govern the biomotor, metabolic, and preservative (homeostasis) activities, respectively. Their combination defines the prakriti (nature and constitution) of human beings, which is determined by genes, environment, maternal diet and lifestyle, and age of transmitting parents. A living human body and sense organs operate with three gunas (sattva, rajas, and tamas) affecting the mind or psyche, and self consciousness (*Atma*) governing the entire life operation. A proper understanding of the basic principles of life provides knowledge of the basic principles of matter. Material Science and technology is thus produced from this knowledge of internal understanding of the forces that maintain the entire universe. The knowledge thus developed leads to verifiable universal science, including material science which leads to subsequent development technology.

Introduction

Ayurveda and Metallurgy

Foundational Difference in Vedantic & Modern Science

Lead, Mercury, and Arsenic in US- and Indian-Manufactured Ayurvedic Medicines Sold via the Internet
 Robert B. Saper, MD, MPH¹, Russell S. Phillips, MD,^{2,3} Anusha Sehgal, MD (Ayurveda),¹ Nadia Khouri, MPH,¹ Roger B. Davis, ScD,^{2,3} Janet Pappin, PhD,¹ Venkatesh Thupplli, PhD,¹ and Stefanos N. Kales, MD,¹ Correspondence

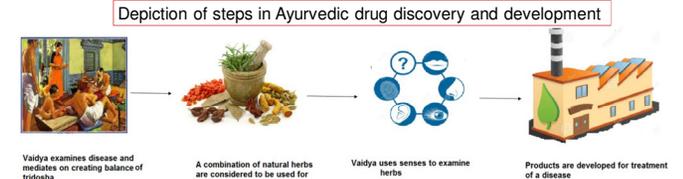
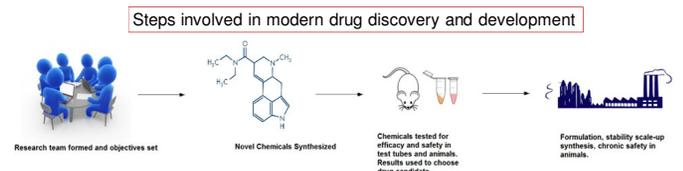
Heavy Metal Content of Ayurvedic Herbal Medicine Products
 Robert B. Saper, MD, MPH, Stefanos N. Kales, MD, MPH, Janet Pappin, PhD, Michael J. Burns, MD, and Stefan N. Kales, MD

Journal of Scientific & Industrial Research
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Ayurvedic Blasphemy: the most ancient application of nanomedicine
 Prasanta Kumar Sarkar¹ and Anand Kumar Choudhary^{2*}

National Ayurvedic Medical Association (USA)
 Ayurvedic Practitioners Association (UK)
 Verband Europäischer Ayurveda-Mediziner und -Therapeuten (Germany)

Joint Response to the August 2008 JAMA Article



Sweet — Earth and Water;
 Sour — Earth and Fire;
 Salty — Water and Fire;
 Pungent — Air and Fire;
 Bitter — Air and Space;
 Astringent — Air and Earth.

Ayurveda resorts to qualities of the substances rather than to their structure. Substances such as herbs are associated with taste, smell, color, and/or hardness, which can be perceived by human senses.

Modern drug discovery based on the taste would have an assumption of equilibrium between the taste and the level of an element of the *panchamahabhutas* through the process of reversibility.

Sweet ⇌ Earth and Water

2) That manufacturers, marketers, practitioners and consumers of herbal products stop importing, manufacturing, distributing, selling, recommending and using any product for which lead, mercury or arsenic have been intentionally added until such time as modern western science and medicine have proven the safety of such products.

Ayurveda and Nanomedicine

Ancient Technologies of India

The pillar is a solid shaft of iron sixteen inches in diameter and 33 feet high. What is most astounding about it is that it has never rusted even though it has been exposed to the wind and rain for centuries.

(source: *Technology of the Gods: The Science of the Ancient* By David Hatcher Childress p. 60).

Recent delivery observed nanoparticles in single laboratory. These are used in Ayurvedic medicines as effective treatment of many ailments.

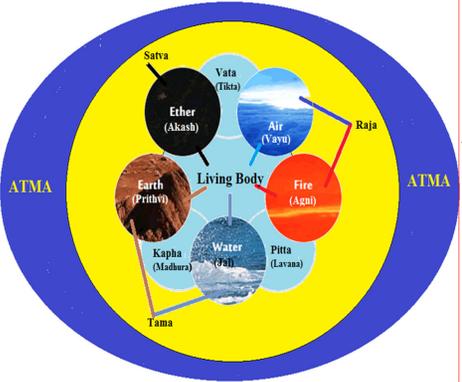
Ayurveda is a holistic medical treatment, which is affordable, sustainable, and energy without any effects.

C=1.09%
 H=0.56%
 N=0.28%
 S=14.4%
 Ag=65.84%
 Hg=1458 ppm

Total= 80%

Conclusions

1. Pranic energy as primordial energy expresses the one in many through the five elements, leading eventually to life.
2. Living and Non-living science has the same foundation, and thus the same knowledge can be approached from either.
3. Ayurveda balances tridosha (vata, pitta, and kapha) with five elements or *panchamahabhutas* by either behavioral changes, body/mind treatment, or with diets and herbal concoctions.
4. The drug development process in modern science involves structural chemistry where Ayurveda medicines are developed through functional chemistry.
5. Designing assays for functional chemistry will advance development of effective Ayurvedic treatments.



Schematics showing human life consisting of body and sense-organs are made from *pancabhutas*, which are influenced by *tridosas* (*vata*, *pitta*, and *kapha*) and *trigunas* (*satva*, *rajas*, and *tamas*). Atma (consciousness) pervades all to create human life.