Physiological Fire Alarm The concept of heat

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The Fire Element

According to Indian philosophy, the five elements Space, Air, Fire, Water and Earth play an equally important role in the manifestation of the physical universe. Yet Fire, centrally positioned among the five elements, is probably the most fascinating and awe-inspiring of them. Neither can it be touched nor may its fiery power be directly experienced except at a safe distance. When early humans discovered ways to control and make use of fire, civilisation took a revolutionary step forward. Every culture and religion since has appreciated the transformative nature of fire and employed it in ceremonies, rituals and celebrations of change.

Pitta Dosha

Ayurveda views the five elements and their vital expression in living beings through the concept of tridosha. Here, the fire dosha (pitta) is also centrally placed, similar to the five element theory, thus equally marking the transition point between spaciousness and physicality. However, pitta does not simply equate to the fire element, because it represents the combination of both fire and water. The harmonious amalgamation of such diametrically opposed and mutually extinguishing elements into one united force is nothing short of a 'miraculous' tantric samskar*. Pitta is thus imbibed with the power of transmutation and can be considered, symbolically, the alchemist among the doshas. As the interactive mediator between dense and subtle matter, pitta transforms the gross external universe into the delicate inner world of living beings, and in so doing maintains the perpetual exchange and interrelatedness of macrocosm and microcosm.

* Samskar = Sanskrit for a process of transmutation. Tantric practitioners employ occult rituals or practices to achieve astonishing transformative results, which may, to the uninitiated eye, appear 'miraculous'.

Pitta & Agni

In physiological terms, pitta represents the metabolising dosha. While kapha is responsible for all anabolic and vata for all catabolic processes. pitta ensures that the body's balance between the doshas of creation and destruction is maintained. In order to describe pitta's function on cellular levels more precisely, Ayurveda employs another fire concept: that of agni. It offers an understanding of specific metabolic activities in the GI tract, the liver and all other tissues. Agni represents a metabolising fire like pitta, but there is an important qualitative difference: while pitta is liquid due to its water element content, agni is dry. In other words, agni can be defined as that part of pitta, which is devoid of drava guna (fluid quality).

This simple distinction is of major significance in the clinical context, because it explains why a systemic rise of *pitta dosha* in the body causes *agni* dysfunction. It is often mistakenly assumed that increased *pitta* always leads to faster digestion or stronger metabolism, but the opposite is usually true. If *pitta* and its fluid quality are increased excessively, *pitta* acts like a 'hot liquid' that simply 'floods' *agni*. This deprives the latter of its inherent dryness and extinguishes it – just like a

bucket of hot water would if poured over a fire. Hence, excess *pitta* results in a decline of digestive capacity and is often associated with symptoms of gas, bloating, acidity, fullness or tiredness after food. It then leads to *ama* formation and the build up of undigested material in the GI tract, which diminishes *agni* even further.

Examples of foods that can cause a rise in liquid pitta are tomatoes, vinegar, oranges, mangoes, fish and fermented foods. Tomatoes, for instance, are hot and wet in nature and therefore pittaincreasing yet agni-depleting. They may well contain antioxidants, but because of their adverse effect on agni, they actually are best avoided. Chillies on the other hand are hot and dry, and should theoretically stimulate agni. They are, however, so extreme in action, that their regular intake leads to a drastic increase of vata, which in turn 'blows' out agni like a hot desert wind. In fact, chillies have such a strong potency, that they should be used medicinally rather than as a spice. In contrast, black pepper is also hot and dry, but its action is not drastic and therefore stimulating to all agnis in the body.

The concepts of *pitta* and *agni* are excellent for understanding all physiological functions governed by the fire element in a living organism. However, the fire element also has impacts on the body that cannot be sufficiently explained with these two concepts alone. The Ayurvedic classics do not mention it, but there is another fire concept, discovered by traditional *vaidyas* (doctors) through careful observation, that offers practical insights into further actions of the fire element and their clinical consequences.

The Concept of Heat

Being composed of mainly fire element, *pitta* naturally has a hot quality, which is transferred to all tissues in order to create the body's homoeostatic temperature of 37°C. It follows that any excess of *pitta* should therefore lead to an abnormal rise in body temperature. However, the temperature regulatory system in the brain prevents this by initiating mechanisms that dissipate excess heat, such as increased

excess pitta gradually heats up tissues without raising systemic body temperature. Obviously, this heat is not measurable with a thermometer, but can be easily detected through pulse reading as a sensation of abnormal warmth or actual heat radiation from the skin in the pulse area. The presence of tissue heat can also be deduced in people who wear light summer clothing in the winter without feeling cold. Although the Ayurvedic classics do not mention the concept of heat, it is an important practical concept that can help Ayurvedic practitioners understand and effectively deal with many complex health issues of today.

Causes for Heat

There are various aetiological factors that can lead to a build up of heat in tissues, such as external causes like global warming, chemical pollution, prolonged exposure to strong heat sources (ovens, furnaces etc.) and ingestion of heating substances (medical and recreational drugs, alcohol, cigarette smoke etc.). Pitta-increasing foods that deplete agni and raise acidity levels in the body are also heat inducers. Most sour foods fall into this category, with the notable exception of lemons: used in moderation, these tend to stimulate agni and do not cause heat due to their sweet post-digestive effect. The Indian fruit kokum (Garcinia indica) is another example of an excellent souring agent that does not increase heat; it actually is a pitta reducer and blood cleanser. Kokum was widely used in traditional Indian cooking, but unfortunately substituted when tomatoes were introduced to the subcontinent.

Suppressing or inappropriately expressing emotions is an internal cause for manifestation of heat. Although they may seem more subtle, feelings are equally powerful in producing physical heat in tissues. If 'hot' emotions like anger, fury or rage are not constructively dealt with, i.e. allowed to be fully felt and experienced, they get stuck deep inside and fester at the core of our being. According to Ayurveda, body, mind and emotions are an interrelated trinity, and so these trapped feelings confer their hot

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sweating, fluid intake, urination or heat radiation from the skin. Homeostatic temperature is thus maintained, but unless the excess of pitta is removed from the body, the excessive transfer of heat to the tissues continues, which in turn keeps the above-mentioned 'cooling' mechanisms continuously operative. This process drains considerable energy from other body systems. Also, tissues cannot function at optimum levels when they get too hot. Imagine being in a green house on a hot summer's day: after a short while you feel tired, drained and in need for cooling. Therefore, people with excess pitta ultimately experience lowered energy levels, fatigue, weakness and exhaustion. In order to keep up with the demands of their lives, they need to push themselves and often operate from will power rather than physical reserves.

In short, the concept of heat states the following:

qualities over time to both body and mind. This then leads to people turning into either hot-blooded individuals who easily end up in heated arguments, or overly kind and serene fellow beings who, out of fear of their own anger, simply disconnect from their feelings. In both cases, a specific heat sensation can be felt in the radial pulse, which indicates that emotional manipulation has been responsible for the heating up of body tissues.



Heat & Allergies

Kapha dosha represents stability, earthiness and grounding. It provides physical strength, resistance, ojas and immunity. Being cold in nature, kapha gets automatically diminished when pitta and heat are increased in the body. Hence, heat decreases immunity (which is why food keeps longer in the fridge than in the sun). The growing worldwide incidence of immunocompromised conditions like allergies is directly associated with the global rise in heat caused by environmental pollution and the use of chemical substances.

From an Ayurvedic point of view, two main factors are responsible for producing allergic responses in the body: heat and blood toxicity. When an increase of *pitta* results in *agni* depletion, a particular type of *ama* is created that is associated with *pitta* and *rakta dhatu* (blood). This so-called *samapitta* makes the blood impure, slightly thicker and sluggish. Chemical substances and their metabolites have a similar effect on the blood; they also create haemotoxicity. In conjunction with immunocompromising tissue heat, such 'hot' toxicity causes pathophysiological blood function and then leads to abnormal or allergic immune responses.

Allergies affecting the respiratory system have a third aetiological factor: mucus or *bhej* (for an explanation of the concept of *bhej* see Prana Issue 2 / Winter 2008). Whenever chronic mucus, which is improperly formed *kapha*, is present in the respiratory tract, conditions such as cough, cold, flu or bronchitis can easily develop. If

mucus, however, coincides with tissue heat and blood impurity, an allergic component is added, which results in the development of immunopathologies like hay fever or allergic asthma.

Treatment of Heat

The elimination of heat is essential in order to restore immunity, resistance, energy and stamina. Simple shamana (dosha-balancing) treatments are usually insufficient here, because the heat needs to be actually removed from the body, for which shodhana (expelling) methods are required. Obviously, virechana (purging) as part of panchakarma is the ideal solution, as it effectively eliminates heat and samapitta (toxic pitta) from tissues, swiftly returns pitta to normal levels and also restores the healthy function of agni. But if panchakarma is not possible, heat can also be reduced by means of nitya virechana: little by little. For this purpose, mild purgative remedies such as Avipattikara Churna should be given daily. These do not cause drastic eliminations and the elaborate panchakarma preparations are therefore not required. If such treatment is continued for long enough, tissue heat can be completely removed.

As a home remedy, 25 raisins soaked overnight in a cup of water, blended in the morning and enjoyed before breakfast are a system-cooling and refreshing start for the day. Fresh coriander leaves are also *pitta* and heat-reducing as well as *agni*-stimulating. Turmeric is the best blood cleanser and essential for the treatment of all allergic conditions. Another excellent remedy for *pitta* correction and heat reduction is fresh

organic Aloe Vera juice.

When physical heat has manifested as a result of suppressed or inappropriately expressed feelings, emotional process work in addition to virechana (purgation) is indicated. In order to remove the actual causative factors, any underlying issues or traumas need to be worked through, completed and healed. Otherwise the heat will continuously reoccur even though it is being removed from the tissues by physical means.

The correct diagnosis and effective treatment of tissue heat are important clinical aspects of Ayurvedic practice today. Our world – both internally and externally – is currently in a process of gradual heating up; the cooling of our life systems is therefore crucial in order to create health and sustainability.

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Trivrut (Opericulina turpethum), the major ingredient of avipattikar powder

Pukka product review



Our delicious organic Virgin Coconut oil is expressed from freshly harvested coconuts over 24 hours. The water separates from the oil which is then slightly heated to remove moisture, and filtered. The result is a clear coconut oil that retains the distinct scent and taste of the coconuts.

It consists of about 90% saturated fat with 5.8% monounsaturated fatty acids, and 1.8% polyunsaturated fatty acids. However, what is so wonderful about coconut oil is that it contains predominantly easy-to-digest medium chain fatty acids which are known to increase metabolism and promote weight loss. It is also very easy to digest, going directly to the liver where it is transformed to release energy. Interestingly it has been shown to reduce total cholesterol, triglycerides, phospholipids, LDL, and VLDL cholesterol levels and increase HDL cholesterol. This helps to protect the health of the arteries and the heart. Populations that eat large percentages of their diet as coconuts do not display elevated cholesterol levels.

Coconut oil promotes a healthy thyroid function, reduces oxidative damage, improves the quality of cell membranes, assists liver function and helps to heal the intestinal lining. It's anti-fungal, bacterial and viral properties help to clear Candida albicans infections as the caprylic, lauric and capryl acids all inhibit the yeast. It greatly improves the absorption of fat soluble Vitamins and also calcium and magnesium.

Coconut oil has a long shelf life lasting up to two years due to its resilience to high temperatures, because of this high smoke point coconut oil is excellent for cooking with.

Recipe

Sunny coconut fennel flapjacks

200g rolled oats 100g virgin coconut oil 50g maple syrup 50g sunflower seeds 50g dessicated coconut flakes 2 tablepoons fennel seeds

Melt virgin coconut oil over a low heat. Remove from heat and add rolled oats, maple syrup, coconut, sunflower seeds and fennel seeds. Place in oiled baking tray. Heat at 200C for 20-25 mins. Allow to cool, divide, share.

