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# PAMCA KOŚAS AND THE GAŅAPATI - ANNAMAYA KOŚA, AND ITS ROLE IN MANAGING HEALTH AND THE IMMUNE SYSTEM WITH SPECIAL REFERENCE TO HIV/AIDS

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#### **Abstract**

Paṁca kośas are the sum and substance of a being. Annamaya kośa is the grossest of the paṁca kośas. This paper deals with the annamaya kośa, and the message of the purāṇik character Gaṇapati in managing health and the immune system with special reference to HIV/AIDS. The paper starts with explaining the need for knowledge and explaining why the purāṇik stories were required and what they aimed at. Keeping in mind that purāṇik characters are symbolism of some concept, the paper explores the connection between Gaṇapati and the food, which is the maker of annamaya kośa. In the later part the paper, with the help of several references the paper explains the significance of food (nutrition) in managing, health and the immune system with special reference to HIV/AIDS.

Keywords: HIV/AIDS; Ganapati; Panchakośa; Annamaya Kośa; Malnutrition.

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#### 1. Introduction

Everyone wants to be knowledgeable. The English word 'knowledge' refers to two Indian words, (1) the '*jnāna*' and (2) the '*vidya*'. *Vidya* is something that we learn from the outside world. *Jnāna* is what we learn within ourselves through a process called spirituality.

Vidya is earned through the sense organs; as the sense organs interact with nature, institutions, peers, books, or anybody / anything else. In an attempt to gain *vidya*, the sense organs work within the velocity of light. The fastest of these senses are the eyes which work below the velocity or light or at the velocity of light. Hence the amount of *vidya* learnt in one's life's time is limited. The story of Bhāradvāja who took births after births to learn Vedas, the *vidya* route; and later realized that he needs thousands of births to learn completely, is worth noting here(Azzarito 2015). On the other hand, *Jnāna* is obtained when we travel inwards; within us

through a process called *tapas* or spirituality, where we surpass the velocity of light from within. Hence that which is learned through *jnāna route* is unlimited.

Jnāna requires tremendous amount of effort, the 'sādhana'. People who attain jnāna are called the jnānis or the dārshaniks. While with no barriers of caste, creed, colour, country, gender or whatsoever everyone can become a jnāni, it is not an easy sādhana to become a jnāni. Only a few people can make it up. These few jnānis, in the interest of upliftment of the society propagated the knowledge they gained through various forms. The highest form of knowledge are the Vedas. Over time, common man felt it difficult to understand even the Vedas, and hence came the various simpler explanations for the Vedas (Swaminathan 2016) in the form of Darshanas, Upanishads etc.

To further ease the understanding of the concepts, stories called the *purāṇas* came up. The personified characters in the *purāṇas*, their form and their activities either explained certain concepts of the world, or pass on certain messages for upliftment of humanity at large; all of which are available in a seed form in the higher Vedic literature. Hence *purāṇik* characters further elaborate the concepts in their higher forms the Upanishads, the Vedas etc. for understanding by the common man. One of such *purāṇik* characters is the 'Gaṇapati'. The Gaṇapati can be looked at in several dimensions. As such, the concepts explained in the Vedic literature can be understood in three dimensions, or can be applied to three levels:

- 1) Ādhibhoutika : Applicable to the brahmānda (solar system)
- 2) Ādhidaivika: Applicable to the human piṇḍāṇḍa (body)
- 3) Ādhyātmika: Applicable to the ātma (soul)

Macrocosm, or the solar system including all the nature surrounding us is called the *brahmāmḍa*. Application of Vedic knowledge to the *brahmāmḍa* is the *ādibhoutika* approach. Microcosm refers to the *piṇḍāṇḍa* or an individual. Yajur Veda says "yat brahmāmḍa, tat pinde", which means as is the solar system, so is the individual. This further means that the governing principles applicable to *brahmāmḍa* are also applicable to *piṇḍāṇḍa*. Thus Vedic literature is applicable to both *brahmāmḍa* and *piṇḍāṇḍa*.

Soul is the sum and substance of the microcosm. Hence, as is the body so is the soul. Hence the Vedic literature as applicable to the  $\bar{a}tma$  is referred to as the  $\bar{a}dy\bar{a}tmika$  approach.

The soul has five layers of existence or the five components, as the macrocosm is made of the five elements, the *panchabutas*. They are the *annamaya kośa*, *prāṇamaya kośa*, *manomaya kośa*, *vijñānamaya kośa* and *ānandamaya kośa*. Table 1 gives an overview of the three dimension of understanding of the Vedic literature.

Table 1: Three dimensions of understanding of the Vedic literature

Level: Based on Embodied energies*	Ādhibhoutika (brahmāṁḍa) Macrocosm	Ādhidaivika (Piṇḍā Microcosm	īṇḍa)	Ādhyātmika (Aṇḍāṇḍa/Ātma) Soul
1	Earth	Physical body		Annamaya kośa
2	Atmosphere	<i>Prāṇik</i> body		Prāṇamaya kośa
3	Moon	Mind		Manomaya kośa
4	Other planets and their	Intellect	(Budha),	Vijñānamaya kośa

	energies (Grahās)	understanding ( <i>Guru</i> vision ( <i>Śukra</i> ), etc.	),
5	Surya (Sun)	Soul	Ānandamaya kośa

<sup>\*</sup> In a relative ascending scale of 1 to 5.

Annamaya kośa is the grossest of the layers of existence. While there are several approaches with which people have tried to understand and apply Gaṇapati to, this articles takes the approach of the *panchakośa* concept explained elaborately in the Taittareya Upanishad. In particular, at the *ādhidaivika* level. Further, this paper only discusses Gaṇapati at the *annamaya kośa* layer of existence.

The hypothesis, this paper is centred around is that, 'Gaṇapati is the Lord of food', which is the most significant 'maker' of the *annamaya kośa*. This article attempts to prove the hypothesis based on several simple observations on the form of Gaṇapati and the ritual of Gaṇapati pūjā.

## 2. Ganapati, The Lord of Food

Human beings at the time of birth weights anywhere between 2.5 kg to 4 kg. As they grow, normally adults reach between 50 kg to 100kg, or even more. This add-on of the weight is mainly due to the food we eat. Thus we can comfortably attribute the physical body (annamaya kośa) to the food; and thus can also be comfortably attributed to the basic causing factor (kāraka) of annamaya kośa. Fig. 1 shows a typical Gaṇapati.

Gaṇapati is said to be the son Pārvati. Pārvati symbolizes water. As such, Pārvati is the daughter of Parvata Rāja (Mountains' king) (Ramachander n.d.), meaning the daughter of the king of hills,



Figure 1: Gaṇapati (Photograph by Author)

which further means birth of Pārvati is caused by hills. It is known that as clouds are moving, when they encounter hills. This encounter leads to fall of rain. This is symbolized as Pārvati.

Food is a product of earth and water. As such the dirt from Pārvati's body was used to make Gaṇapati, the story says. Dirt from Pārvati's body is nothing but the dirt carried by water as it flows. The leaves, the twigs etc. carried by water as it flows is the dirt, which is a source of manure. From manure grows the food. Hence Pārvati created Gaṇapati with the dirt of her body.

The word *gaṇa* means people. *Pata* means path. Hence Gaṇapati is the one who takes the people in the right path and protect them. *Pati* is one who takes people on the right path and protect them. Thus Gaṇapati means the protector of the people. That would mean, a king/lord. The basic duty of the king is to facilitate the basic needs of the people. The inevitable basic need of the people is the 'food'. Hence Gaṇapati is the lord of food. Let us see some of the features of Gaṇapati.

**Fat stomach:** Gaṇapati has a fat stomach. This form symbolizes that Gaṇapati has enough food to feed everyone. Fig. 2 shows a fat stomach of Ganapati.

**Snake around the belly:** Further, food is a treasure. Everyone needs it. In order to guard this treasure called food, Gaṇapati has a snake wound around his stomach. Fig. 2 shows a snake tied around the fat stomach of Ganapati.

**Rat as vehicle:** Rats are notorious, especially for the farmers. They are like pests in the fields and spoil, eat and contaminate the crops, fruits, vegetables, cereals, oilseeds or whatsoever. Hence control over the rats is important to avoid spoiling of



Figure 2: Gaṇapati – Fat belly with snake tied around (Photograph by Author)

food. Hence, Gaṇapati rides over the rate, with a whip symbolizing its control. The snake around the stomach also have the role of keeping rats under control. Fig. 3 shows Gaṇapati being seated on a rat.



Figure 3: Gaṇapati – Riding on the rat. (Photograph by Author)

First  $p\bar{u}j\bar{a}$  is for Gaṇapati: It is a practice that whatever pūjā we perform, the first  $p\bar{u}j\bar{a}$  would be for Gaṇapati. It is said that without this ritual, there could be lot of hurdles in whatever we perform. Also before starting any work for that matter, it is a practice that we invoke the blessing of Gaṇapati with a belief that hurdles are prevented.

This is very true. We have to face a lot of hurdles if we start any  $p\bar{u}j\bar{a}$  or programs without Gaṇapati  $p\bar{u}j\bar{a}$ . Basically, Gaṇapati being lord of food, Gaṇapati  $p\bar{u}j\bar{a}$  means  $p\bar{u}j\bar{a}$  for stomach, which means we have to consume food to have energy to do work. Without food, whatever we try to do, we fall short of energy to do

work, which is essentially a hurdle.

If a person avoids Gaṇapati  $p\bar{u}j\bar{a}$  his works would face lot of hurdles, which means that if one does not have food, he cannot do work, cannot involve properly in work, and has to face hurdles in work.

**Pillari:** Added to the above coincidences is the *Pillari* which further supports the hypothesis that Gaṇapati is lord of food. The *Pillari* is said to be the true original or root form of Gaṇapati. During the Gaṇapati festival on  $B\bar{a}drapada\ cauti$  (4<sup>th</sup> day from the new moon day), before doing  $p\bar{u}j\bar{a}$  for the elephant faced form of Gaṇapati, the '*Pillari*' is first offered the  $p\bar{u}j\bar{a}$ . *Pillari* is basically cow dung in the shape of a cone with a little grass pierced into the apex of the cone. Grass indicates the vegetation, which is the source of food. Grass family is the family of vegetation where we get the basic/staple food,



Figure 4: Pillari (Photograph by Author)

the rice, ragi, jowar, wheat etc. Cow dung being one of the best manures on earth, the grass comes out of the manure, which is what is indicated in *Pillari*. Fig. 4 show *Pillari*.



Figure 5: First pūjā for Pillari (Photograph by Author)

Sometimes turmeric is used in place of cow dung. Turmeric indicates protection. Since growth of vegetation requires both nutrition (given by cow dung) as well as protection, it is a practice that some use turmeric to make the conical form. Fig.5 shows  $p\bar{u}j\bar{a}$  having already been performed during the Gaṇapati festival on the 4<sup>th</sup> Day of the *Bhadrapada* month, for Gaṇapati in the form of *Pillari* before doing the  $p\bar{u}j\bar{a}$  for the typical Gaṇapati form.

**Pūjā with leaves:** Also, unlike any other pūjā for various gods, all kinds of green leaves are used during Gaṇapati pūjā which indicates vegetation. Figure 6 shows offering of leaves to Gaṇapati during Gaṇapati pūjā.

**Baski** or sit-ups: Another interesting coincidental practice to support the current hypothesis is performing sit-ups after the traditional Gaṇapati  $P\bar{u}j\bar{a}$ . Compared to several other festivals and  $p\bar{u}j\bar{a}s$ , that are performed, one thing special about the Gaṇapati  $p\bar{u}j\bar{a}$  is performing 'Baski', a



Figure 6: Offering of varieties of leaves to Gaṇapati (Photograph by Author)

Heaps of a variety of leaves during Gaṇapati pūjā

form of exercise with repeated sit-ups with hands crossed and holding the ears. This exercise is done after Gaṇapati  $p\bar{u}j\bar{a}$ . This symbolizes that after taking food one should work well to digest the food that is consumed.

Modaka: Modaka is a food that is said to be liked to most by Gaṇapati. Modaka is a sweet food that has an outer covering made of rice, and the actual sweet within it. The staple food basically comes in this form; a covering outside, and the actual food inside (Example: Rice and the paddy). Also, modaka (the sweet) means glucose. It is the desire of Gaṇapati that, whatever one has consumed as food, it is to be converted into glucose. Hence, Gaṇapati wishes for modaka; which means Gaṇapati wishes that the food we eat is converted into glucose.

**Tulsi and Gaṇapati:** The following is yet another interesting thing: Tulsi (Ocimum Sanctum) is not accepted for  $p\bar{u}j\bar{a}$  in a Gaṇapati temple(Iyengar et al. 2015). Tulsi has highly

medicinal values and helpful in curing several diseases(Joshi et al. 2011; Gupta et al. 2002; Prakash & Gupta 2005). Of several reasons, this is also another reason why a plant of Tulsi is kept in front of every Indian home. There is a saying 'one who knows his food, does not have a disease'. Since a person doing Gaṇapati  $p\bar{u}j\bar{a}$  rightly, does not become a victim of any disease. Hence, Tulsi is not required. As such, bringing Tulsi to Gaṇapati temple is an insult to Gaṇapati. Hence, Tulsi is not accepted for  $p\bar{u}j\bar{a}$  in Gaṇapati temples.

With all the above correlations between the form of Gaṇapati, practices during and after Gaṇapati  $p\bar{u}j\bar{a}$  it is quite evident that Gaṇapati is a symbolic purāṇik character, and is the lord of food; and Gaṇapati  $p\bar{u}j\bar{a}$  means having 'adequate and proper' food.

# 3. Nutrition & HIV/AIDS

Food, is the basic inevitable need of one and all. Lack of good quality and quantity of food leads to malnutrition. Malnutrition has been a global problem. **925 million people** do not have enough to eat and 98 percent of them live in developing countries (FAO 2010). It is so unfortunate that when we call today's world as the world of advancements, the world of science and technologies; with all the developments, we are unable to manage providing the basic need for all, the food by adopting suitable strategies. Quite obviously the state of health of these people with malnutrition have to face basic health problems, and with the body's defense mechanism not nourished, they are prone to several opportunistic diseases.

To give an analogy, any country's defence personnel (say, soldiers) guard the country from enemy's attack. It is a common sense that if these soldiers are not given food, the strength and the number of the soldiers reduces. Hence they will not be able to guard the country. On similar lines, it is a common sense that the number and the strength of the antibodies produced upon attack by harmful/poisonous agents depend upon the food a person takes. Hence, malnutrition (undernutrition) is a severe deficiency. Because of the deficiency the bodily dysfunction occurs and body becomes increasingly vulnerable, leading to infection of the host (Enwonwu, C 2006). Chandra R K makes is clear that malnutrition is the most common cause of immunodeficiency worldwide (Chandra 1991).

Children with malnutrition also have loss of the ability of killer lymphocytes to recognize and destroy foreign tissues (Enwonwu, C 2006). Malnutrition results in deficiency of macronutrients. A chronic deficiency of macronutrients lead to protein energy malnutrition(Morley 2007). Particularly in children, protein energy malnutrition is known to cause widespread atrophy of lymphoid tissues, particularly T-lymphocyte areas(Kumar et al. 2004). This leads to impairment of antibody production to T-dependent antigens. This further causes impairment in adaptive immunity and leads to reduced ability of the patients to ward off infections (Chandra 1999).

Malnutrition is considered to be a marker for poor prognosis among subjects infected with HIV (Nerad et al. 2003).

Nutritional management is considered to be an integral part of care for subjects infected with human Immunodeficiency Virus (HIV) (Nerad et al. 2003).

In both malnutrition and HIV there is reduced CD4 and CD8 T-lymphocyte numbers (Chandra 1999). CD4 and CD8 being the markers for HIV, malnutrition and HIV and coincidental and providing proper nutrition helps increase CD4 and CD8, and thus help fighting HIV.

Rosenberg et al. [9] observed that HIV-specific CD4+ T-cell responses were of high magnitude in individuals who were HIV infected but not showing progression over long periods (long-term nonprogressors). Also, in acute viral infections such responses could be seen but they were generally not present in patients with chronic progressive infections.

Along with education and counselling nutritional support is also on focus in improving the QOL of people living with HIV/AIDS. It is also to be noted that malnutrition further reduces the capacity of the body to fight infection. This is because of compromise of various immune parameters. Incorporating components of nutrition and its management goes a long way in improving QOL, and better survival in HIV-infected subjects (Duggal et al. 2012).

Hence, proper nutrition is the basic necessity for a person to keep themselves away from not only deadly diseases like HIV/AIDS, but also any disease for that matter.

As also, the first step in prevention, control and cure of AIDS is Gaṇapati pūjā. Here, Gaṇapati pūjā does not mean offering flower or garlands to the idol of Gaṇapati. Gaṇapati is the lord of food, product of light. Gaṇapati pūjā means the pūjā for the stomach. Again, pūjā for the stomach does not mean garlanding or offering flowers for the stomach; but having food for the stomach.

## 4. Conclusion

Puranic characters symbolize the aspects of working of the human body, the nature and help people understand the real purpose of life, explained in the vedas. Ganapati is a character which symbolizes one of the important aspects of working of the human body, the providing of proper nutrition which is the first step in the development of the *panchakoshas*. Proper nutrition is key to maintaining proper immune system, and inevitable to manage immune system and is specifically important for subjects with HIV.

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