Part I: A Comparative Study of Sat Karmas of Yogic Texts & Pancha karmas of Ayurvedic Texts

Part II: Effect of Kunjal Kriya on Heart Rate Variability Spectrum

By

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ABSTRACT

Part I: A Comparative Study of Sat Karmas of Yogic Texts & Pancha karmas of Ayurvedic Texts

The present study was conducted to have a comprehensive view of the concepts of two basic purificatory processes in *Yoga* and *Āyurveda*. Purificatory processes are mentioned in *Vedas*. The purification through *Ñat karmās* which isalso commonly known as *Ñat kriyäs*, is mentioned first in*Haöha yoga pradépika*. The *Ñat karmās*, the six cleansing techniques are named as *Dhauti*, *Basti*, *Neti*, *Trāöaka*, *Nauli*, and *Kapālabhati*. *Caraka*, the *Āyurveda Ācarya*, mentions the practice of different limbs of yoga for the prevention and cure of the diseases and maintenance of health along with other procedures of the *Āyurveda*. The *Āyurveda* texts describe the five purificatory processes called *Païca karmās*. They are *Vamana*, *Virecana*,

Vasti, Nasya and Rakta mokñana. Both the Ñat karmas and Païca karmās, the çodhana type of treatments, are based on same concepts of improving the health Each of the Ñat karmas can be compared with the Païca karmās either by the similarities with their procedure or by the similar effect over the body. For example Basti with Vasti, Neti withNasya, Vamana dhauti with Vamana karma, Värisära (Çaìkha prakñälana) with Virecana is compared with one another for the same reason. Variations in practice also have similarities. For exampleKarëa dhauti and Oiling of ears, Jihva müla dhauti and Oral gargling, Danta müla dhauti and Dantaprakñälana, daëòa dhauti and oral hygiene through gargling. Thus, in this study, an effort is made to explore the similarities between the Ñat karmās and Païca karmās relating to their basic

concepts and therapeutic effects. A combined approach of using herbs in various *Ñat karmās* is also listed with few commonly used herbs. Further research can be done on beneficial effects of use of herbs in *Ñat karmās*.

SUMMARY AND CONCLUSIONS

Beneficial effects of some of the Não karmas and Païcakarmas have been studied by modern science. Here a detailed study of this traditional knowledge is attempted in this dissertation. These practices have been incorporated in the Integrated approach of yoga therapy used in several Nature cure, Yoga and Äyurvedic hospitals in India and abroad, with beneficial effects. Não karmas of Yoga and Païca karmas of Äyurveda are life supporting processes with geater of similarities. Though they appear different they are complimentary to each other. They help to bring about a balance between physical laws and cosmic laws. Even in UK and USA several centers recommending *Neti* as a daily routine. By this the hypersensitivity disorders, migraine are very well prevented. It is said that the mouth breathing in children leads to poor memory, low concentration and impaired development. So, Neti clears off nasal passage. Like this yoga has become part and parcel of daily life. Even though it is not a system of medicine, its therapeutical effect is mesmorizing the people. Naö karmäs provide a unique opportunity for the system to repair and rejuvenate.

Use of herbs:

The use of drugs is not actually mentioned in yoga but references to the medical concepts are found. Païca karmäs make use of many herbs to get the desired effect. The use of herbs in Ñaö kriyäs is mentioned in ancient text like Gheraëòa samhita, Haöha yoga pradépika, Haöha ratnävali. Gheraëòa samhita states that different herbs can be used in kriyäs. In mūla çodhanam turmeric root can be used to clean the bowels in stead of small finger. Gheraëòa samhita alsomentions the use of plantain stalk or a stalk of turmeric or a stalk of sugar cane can be used to thrust the esophagus inDaëòa dhauti. Danta müla dhauti is practiced with the help of catechupowder. Haöha ratnävali states that jaggery water, coconut water or milk can be used in vamana dhauti. So, the purification was done by the use of herbs. The herbs can be used for kriyäs as follows:

	a)Jalaneti	Küñmänòa rasa
1.Neti:		Apävarga
(Here <i>neti c</i> an also be		Dürva kaçäya or svarasa
performed by immersing	b)Sütra neti	Haridra kaçäya
süträs in these kaçäyas at least		Snuhi rasa
for twenty four hours.)		
2.Dhauti.	a)Vamana	Madana phal rasa
		jyeñöa madhu
		Ékñu Rasa
	b)Vastra	Tämbüla rasa
		Droëa pushpi
	c)Daëòa	Haridra Nāla
3.Basti	Jala Basti	Til taila
		Airaëòa taila
		Indra väruni
		Sonä mukhi withtil taila or honey
4.Träöaka	Bahir t <u>räöaka</u>	Kadira taila
(The oil is used to lit the		Açvatta taila
lamp)		

Lifestyle modifications maximize the success of treatment. The life supporting activities include meditation, proper rest, moderate exercise, purificatory *kriyäs*, *Präëayama*, seasonal routine and daily routine along with dietary considerations. Undue physical and mental stress can be avoided using these techniques. Hence the suggestions to maintain good Health according to Integrated approach of yoga therapy (IAYT) and *Äyurveda* includes cleaning as an essential component of life style modification.

- 1. Clean the teeth and gums as a regular practice.
- 2. Use Jala Neti or nasal cleaning with water daily.
- 3. Go for rubbing of the tongue with the fingers daily.
- 4. Eat only when there is appetite.
- 5. Always leave a little room in stomach at the end of each meal. *Haöha yoga pradépika* says, only half of the stomach should be filled with solid food. One fourth should be filled with water and one fourth should be left for air. (Verse -1.58)
- 6. Eat in a calm atmosphere.
- 7. Avoid foods which are deep fried, spicy and high caloric.
- 8. Practise *Präëayama* daily for balancing the *nadis*.

- 9. Practise one pointed gazing or *Träöaka* along with palming. Near and distant gazing is advised especially for persons with computer work.
- 10. Drink water abundantly at least two liters a day.
- 11. Avoid stress and strain as far as possible.
- 12. Practice relaxation in the form of meditation which brings stillness and silence to the mind and senses.

When a man lives in tune with the laws and cycles of nature, nature supports the state of health and wellbeing. This support can be facilitated by using simple *Kriyä*. This facilitates a harmony between man and nature.

Part II: Effect of Kunjal Kriya on Heart Rate Variability Spectrum

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SUMMARY AND CONCLUSIONS

The matched case control study was aimed to determine the effect of kuijala *krivä* on autonomic nervous system using heart rate variability. The two groups of healthy subjects (38 & 32) were studied. The experienced group (Ex) had practised kuijala kriyä at least four times before, the novices (Nv) practised kuijala kriyä for the first time. The HRV recorded for five minutes immediately before and after the kriyä. Design was matched case control. As data was normally found to be distributed (Shapiro- Wilk test), paired t-test was done for analysis. The result showed decrease in the HRV spectrum in experienced subjects rather than novices. There was more increase in heart rate in novices subjects rather than exposed subjects. The genderwise comparison (Independent t- test) between experienced and novices showed that there is significant change in the males of the novices group and there was no females significant difference in between the of two groups. The result of this study can be summarized that the sympathetic stimulation as shown by heart rate variability spectrum is less in the subjects who are experienced to kuijala kriyä earlier when compared to those who are novices.

Keywords:Sat Karmas, Pancha karmas, Kunjal Kriya, Heart Rate Variability Spectrum.