# Dynamic And Static Practice Of Surynamskara

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#### Abstract

There are two possible methods in the practice of surynamskar Static and dynamic. Static here means maintaining the final position of surynamskara for a period of time and dynamic would imply move in and out of the final pose in quick succession. In exercises also, we have these two ways of carrying out an exercise regimen. While exercise, physiologists recommend different ways of executing exercises based on a person's requirements similar consideration should also steer what types of position a person should carry out and whether to do them statically or dynamically Each has specific benefit with respect to neuromuscular rehabilitation. The main component of surynamskara practice is stretch of muscles. Muscle physiology has much to offer in terms of understanding benefits of muscle stretch. Here again, the stretch could be either slow or fast further, the stretch could be maintained for a short period or not. These combinations are of interest for achieving the goal of rehabilitation. Even for maintaining proper muscle control, these practices are important as presented hereunder.

#### **Muscle Stretch:**

Muscles are built for weight bearing and movement. Thus stretching a muscle is going against its grain, so to say. If the stretch is beyond normal, the muscle or more likely, the tendon connecting the muscle to a bone, could rupture. Tendon rupture is difficult to repair, self-repair is slow since blood supply to the tendon is poor. Hence, the muscle or tendon pair tries to protect itself from overstretching and rupture. This is achieved through feedback mechanism within both the muscle and the tendon.

Usually, muscle is activated by a group of nerve fibers arising from the brain and spinal cord that sends a volley of electrical impulses to act in a coordinated and smooth fashion. The efferent fibers originate in the brain and terminate in the spinal cord and then travel from spinal cord to neuromuscular junction There are also many nerve fibers that take information back to the brain via the spinal cord regarding the status of the muscle. This feedback provides information to the brain regarding the amount of stretch of the muscle, how fast it stretches, and how long the stretch is maintained. All these three aspects of muscle activity could be accomplished in the practice of Surynamskara.

If coordination is lost due to some trauma the muscle could exhibit one of three distinct problems It could become flaccid or has decreased strength it could become rigid or it could lose coordinated function. In the case of muscle weakness, we need to strengthen the muscle. This is called facilitation. In the case of muscle rigidity, we need to reduce the activity of the muscle. This is known as inhibition. In the case of erratic behavior, the muscle should be brought under smooth control.

All these could be achieved through proper utilization of surynamskara practices. These are guidelines available for such modulations in surynamskara practice, and one should resort to a qualified therapist for accurate results, since muscle impairment could be complicated due to multiple factors.

Feedback mechanisms in the muscle fibers and in the tendon connecting the muscle to the bones are activated through stretch achieved in surynamskara practice. Thus, it is seen that asana practice is important in achieving rehabilitation of neuromuscular problems. This might seem simple however, the physiology is fairly complex. The amount of stretch could also be monitored through H-reflex monitoring that is seen as a late component in electro myogram studies. Studies conducted to examine muscle stretch through H-reflex gives an idea of the amount of reflex recruitment and the integrity of the feedback mechanisms in the muscle. A muscle without any feedback is, fortunately rare such a muscle is very difficult to manipulate through the methods of a stretch.

Stretch could be passive or active. Active stretch is always more effective even if carried out minimally by the patient. Perhaps poor from dback rising ctrical Terent d and cre are in via dback stretch stch is uld be in some severe cases, it is necessary to carry out the procedure in a passive manner and then, when the muscle has improved in its ability to contract, let the patient recruit the muscle in question without the therapist's help. In normal exercises and even in sports one aims to develop strength of the muscle through contraction of the muscle. In Yoga, in contrast, the muscle is stretched fast or slow in a systematic manner. In Yoga, further, many skeletal museles undergo stretch, thus providing a global improvement in control. In sports, usually, only certain muscles pertaining to that sports are activated in preference to others. Sports medicine is realizing the importance of stretch of a muscle for protecting it from damage due to overuse. There is, a fundamental difference between exercise and Yoga practices. Surynaskara is great activity related to yoga.

Further, it is important to perform asanas in surynamskara bilaterally this means the person should perform as an using both left and right limbs is important because an at a time. This interhemispheric connection in the brain. Brain is always "awake" to all types of input from the periphery. Muscles are grouped according to their ability to move joints in a particular direction. Muscles in the front are called extensors, those in the back are called flexors on the other hand, adductors are located on the inner aspect and abductors on the outer aspect. These group of muscles either straighten, bend, move joints inward or outward, respectively It is important to stretch these various groups of muscles to prevent imbalance. Hence, a proper sequence of recruitment of skeletal muscle is important for rehabilitation. In short, it may be said

that muscle stretch as practiced in Yoga asanas provide control to the muscle; muscle activity in sports provides muscle strength. Needless to say, muscle prowess without control could be selfdefeating muscle control without strength is a weakness that should be avoided. Thus, the role of surynamskara in rehabilitation and as a complement to strength building measures such as exercises cannot be overemphasized.

## Proprioceptive Neuromuscular Facilitation and Suryanamskaa Practice:

Proprioceptive neuromuscular Facilitation (PNF) is an interesting technique of stretching a group of museles for enhancing the range of motion as well as for improved motor activity in a person. The target muscle is stretched through contraction of the opposing muscle. This is followed by isometric contraction of the target muscle. This technique can easily be incorporated in surynamskara practice also.

There are some interesting applications of PNF. The facilitation and inhibition methods, suggested in the earlier paragraph, are related to the applications of PNF techniques. Integrating these ideas into a Yoga therapy program is important. This method facilitates one to relax a stiff muscle and carry out the pose more completely The author says, "Facilitated stretching involves contracting a muscle that you are lengthening. This increases the tension at the muscle and tendon junction and recruits more Golgi tendon organs than does stretching a muscle alone. Facilitated stretching causes the spinal cord to signal the muscle to relax, in essence, creating 'slack' in the muscle. You can then take up the slack to move deeper into the pose.

## Conclusion

Therapeutic Surynamskara is an interesting combination of asana, pranayama, and meditation practices that could bring much needed homeostasis to the body-mind complex. There is a saying eating ould be in Sanskrit that is summarized as follows: Performance of dharma is possible through the activity of the body alone. This means that the bodymind should be in good shape to carry out our designated dharma. Dharma, in its turn, sustains our material substratum so that we could proceed further in this question for the infinite.

Some may say, it is necessary to go one step

at a time. This could be an impractical approach, especially when one has pain in body and mind. We have seen often that when a person practices some Surynamskara sincerely, there is an automatic readjustment in the insight and outlook of the practitioner. Realigning the subtle energies in the body, developing equanimity, and compassion through meditation seems to give feedback to the brain and body so that there is an overall reorganization of our thinking and attitude. This is the observation of many Yoga teachers over the surynamskara practiced years. Thus in an enthusiastic and dedicated manner seems to help a

person in attaining peace and spread this peace and Ananda around him/herself

#### References

- Harris FA. Basmajian JV. Therapeutic Exercises.
  5th ed. NY: Williams and Wilkins; 1990. Facilitation techniques in therapeutic exercise.
- Srinivasan TM. Bangalore, India: Swami Vivekananda Yoga Prakashana; 2011. Yoga Sagara Saram.
- 3) Capaday C, Stein RB. Difference in the amplitude of the human soleus H reflex during walking and running. J Physiol. 1987. [PubMed]

