ISSN: 2349 - 4891



# International

# Journal of Recent Research and Applied Studies

(Multidisciplinary Open Access Refereed e-Journal)

# Studying Efficacy of Yoga Therapy: Individual Centric Approach

# D. Dwarakanath<sup>1</sup> & Dr. V. Duraisami<sup>2</sup>

<sup>1</sup>Research Scholar, Department of Yoga, Karpagam University, Coimbatore, Tamilnadu, India.

Received 5th June 2016, Accepted 5th August 2016

#### Abstract

Research in Yoga Therapy is largely focussed on studying the benefits of a fixed intervention commonly for all participants. Though the subjects may be homogeneous in several aspects, despite training each and every one may not have the ability to do the practices at the expected level. Similarly, all practices may not be appropriate for the subjects. At the constitutional level each person is unique in body structure, attitudes, mental status. This paper is an effort to evolve an individualised methodology while maintaining the rationale of commonality of practices. To examine the feasibility of individualised methodology in yoga therapy studies. Also to discover the basis and practicability of such an individualised approach.

Keywords: Individualised studies, Specific intervention, Dosage of yoga, Sub-class of practices.

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#### Introduction

The customary pattern of Randomised Controlled Trials (RCTs) in yoga therapy is to employ a set of yoga techniques on homogeneous group of subjects with common health conditions. Evaluation of a scientific study is by invoking a standardised protocol. There is abundant body of research work in yoga proving effectiveness of yoga in one ailment or other, through RCTs, where a set of yogic practices are uniformly deployed on the experimental subjects. The trend is that all participants go through the rituals and resultant findings pave the way for anointing those practices as the most effective therapeutic intervention for a particular health condition. During the experimental period the subjects will continue to be given the medications prescribed as per individual requirements. However the accepted norm is, all subjects need not be given the same medication but can be exposed to similar generic class of drugs. Additionally one must note that, the potency as well as the frequency of drug administered is in accordance with the individual requirements. Thus, the medical intervention is completely on a personalised basis. Yet, the trials for yoga therapy is on the premise, 'one size fits all' principle deploying a pre-determined set of techniques. This is thrust on the experimental subjects in the garb of maintaining uniformity of yoga therapy intervention as an essential requirement for a scientific study. Is it not necessary that a methodical study of the effects of yoga therapy intervention also needs to be

# Correspondence

Dr.V.Duraisami

E-mail: durai\_udaya@yahoo.co.in, Ph. +9198427 08648

administered by varying potency specific to the individual. Secondly, a systematic study warrants that yoga therapy techniques need to be classified on a generic basis, so that alternatives are available to satisfy the vital aspects of appropriateness and suitability. Otherwise, the findings can only reflect the influence of certain yoga techniques on subjects who possess ability to do the practices selected for the study. Also, such a study can only project the outcome of common yoga practices in experimental subjects with personalised medications.

# **Need for Specificity**

Practice of yoga bestows one or the other wellness factors is universally recognised. The above broad spectrum benefits would anyway accrue in RCTs as well. In the circumstances, would it not be necessary to eliminate this latent positive influence in a structured study. By deploying generalised common practices for a particular health condition in the guise of uniformity, validation with regard to specificity of practices is lost. The effort could at best be termed an attempt to award labels and establish standardised yoga protocols for specific conditions.

Yoga therapy is not limited to a set of predetermined group of techniques. There are broadband tools. Moreover, the results in a yoga study do not merely project the outcome of a bio-chemical interactions in passive participant. The subject play an active part during the term of study. In this context, one must remember that in a yoga study we are dealing with influences of unfathomable factors like prana and mind, which are not yet within the realms of definitive science. A methodical study needs to be precise and much more

<sup>&</sup>lt;sup>2</sup>Research Guide, Department of Yoga, TNPESU, Chennai, Tamilnadu, India.

exactness is necessary in establishing influences concerning health and wellbeing.

# **Individualised Studies**

If we consider a group of normal individuals participating in yoga as a fitness activity (assuming homogeneous in all aspects), all are not blessed with the same constitutional make up to do the practices at the expected level. Even a casual observation of the sessions would reveal that while some of the participants replicate what is taught, yet many would be struggling to attain the goal, while a few give up without even attempting. One can very well imagine the scenario in a group comprising subjects with ailments.

There is enough scientific evidence to prove that the effects of a particular illness is not the same in Manifestation of symptoms persons. complications varies according to the inherent constitutional composition of each individual. Medical science recognises that most health conditions bear a psycho-somatic undercurrent and mind has a significant role to play in nurturing one from illness to wellness. Primarily, yoga seeks to invoke the dynamics of interplay in the integrated circuit of mind, body and breath. Limiting yoga therapy to a set of techniques would mean that we choose to gloss over the intrinsic potentialities of rich set of tools that are available in yoga therapy. Obviously, studying effects of voga therapy requires a overhaul to circumvent the aforesaid incongruence. Research in yoga therapy should certainly migrate closer to actuality of therapeutic settings and cannot blindly adopt the pattern prevalent in efficacy of drug studies. A pragmatic move would be to incorporate in the study, yoga practices classified on functional aspects. Thus, broadband of techniques within the same genre can be grouped as a unit, to facilitate wider choice for individualisation without compromising uniformity of functional effect.

#### **Basis for Individualised Approach**

Patanjali's Yoga Sutras, fountainhead of yoga philosophy, enunciate in the following verse the principles of application of yoga:

"Tasya bhumisu viniyogah"- Yoga Sutra III.6

'tasya' - that/according; 'bhumisu' - capacity or level or stages;

'viniyoga' - giving out, sharing, distributing, applying or employing

It implies that application of yoga needs to be appropriate to the individual. The most important aspect of 'viniyoga' is giving out appropriate to one's need. Incidentally, this very terminology is currently in usage to describe individualised yoga applications. The renowned Yogacharya Krishnamacharya propagated this unique methodology of application. The great master who placed abundant faith in orthodox texts and diligently followed ancient teachings held that, yoga is always meant to be adapted to suit the individual be it therapy or otherwise. He believed that it is incumbent

upon the teacher to make most of its versatility and scope. Ayurveda, considered a close cousin of Yoga, prescribes 'Dinacharya' the daily activities one is supposed to follow from the moment of waking to the point of rest at end of the day, to lead a healthy life. The regulations clearly state that one's lifestyle and food habits have to be 'hitam' (appropriate) and 'mitam' (just as much needed) according to one's constitution. Thus, yoga practices that constitute a part of one's lifestyle have to be personalized.

Ancient text 'Yoga Rahasya' amplifies the cause of individualised practice especially in the context of illness:

"dehabhedat desabhedat vrttibhedacca naikadha rtubhedacca jayante rogassangena sarvada" Yoga Rahasya, I.24

Due to the many types of differences in body structure, place of residence, avocations and changing seasons, diseases arise in humans as a result of association. "This sloka emphasises the importance of individualised application by taking into account the person's body, the place of practice, occupation and also variations of the seasons. Yoga will not yield its best benefits if these aspects are not taken into consideration." (Nathamuni's Yoga Rahasya, Krishnamacharya Yoga Mandiram, p.39).

Yoga texts reiterate the fact that all practices are not suitable for everyone. As per ancient wisdom, therapeutic approach has to be fundamentally individual centric. Therefore, yoga therapy efficacy studies must be devised to incorporate this vital aspect. When certain pre-conceived practices are imposed without considering the ability, age, health condition, medical history etc. of a person there is a possibility of causing harm. This leads to creation of yet another type of health problem viz., Yoga injury, which is quite unfortunate.

#### **Individualised Methodology**

In the bygone days, yoga was taught duly considering the individual constitution as well the immediate day to day living environment. Yoga Rahasya clearly delineates the methodology to be observed by a teacher in individualised application of yoga:

"kala desa vayo vritti saktir vikshya vicaranat; yoga prayogam kurvita

jnani, mouni, jitatmavan" "Yoga Rahasya" I.30

A teacher must enquire, time and place of practice, age, occupation, ability of the individual, thereafter, reflect in silence with a detached state of mind before adapting yoga practices. A thorough holistic assessment of a person is a preliminary pre-requisite. Modern medicine whole heartedly acknowledges the fact that any variation in the health of an individual has a profound impact on the state of mind. Given the pressures of modern day life, 'psycho-somatic' connection is even more intensified playing a significant part in containing the vagaries of an illness. The vital role of psyche in the healing process cannot be glossed over. As per Patanjali's Yoga Sutra I.2, the very definition

of yoga is 'cessation of mental fluctuation'. In verse I.30, Patanjali lists sickness as one among the nine obstacles that one encounters in the journey. Evidently, respecting this 'psycho-somatic' connection is an essential ingredient in a yoga therapy intervention. Mind stuff referred as 'chitta', is a fascinating organ of the yogic constitution. Great seers of yogic lore explored the mind apparatus and its modifications. No doubt, Ayurveda notably enlists a blissful state of mind, as one of the noble virtues that signify absence of disease. Sage Vyasa in his commentary on the Yoga Sutras, classified the stages of mind as follows:

- > Kshipta or distracted
- ➤ *Mudha* or infatuated
- Vikshipta or occasionally steady
- Ekagra or one-pointed
- Niruddha or restrained

Therefore, in the light of above position, a homogeneous group of subjects does comprise of individuals with varying stages of mind accounting for their inherent limitations. In all fairness, it is imperative that a yoga therapy study offers intervention by distinguishing this facet. There is an imperative need to recognise that each one tends to develop uniqueness of constitution and personality in the process of growth. This is largely influenced by the genetic factors, vocation, attitudes, environment and physical activity. One must also note that the above aspects are considered in case of medical intervention. In therapeutic application of yoga getting a holistic view by examining these aspects is critical to develop individualised practice.

#### **Practice Course Plan**

It would be pertinent to refer to the principles of yoga practice presented by the acclaimed yoga guru and healer Desikachar, son of Krishnamacharya: "The way we develop our session will depend on our immediate needs, our long-term goals, and what activities are going to follow our practice. A course of asanas designed to prepare the body for playing tennis will be different from one meant to help someone remain alert in a mentally taxing environment, and that will differ from a practice meant to help someone with chronic insomnia to relax deeply before going to bed." ('The heart of yoga: developing a personal practice' by Desikachar TKV, p.27). In terms of the above statement it is obvious that one needs to assess a person in a comprehensive manner and prescribe a practice that is tailor-made to suit the individual in all respects. Depending upon the soil and other conditions prevailing, a farmer decides the crop. Similarly, yoga practice has to be appropriate to the individual in all respects.

# **Starting Point**

In RCTs the subjects are usually novices to yoga practices. In fact, in most cases the population recruited would not have had the opportunity of getting exposed to any form of exercise or occasion to examine their breath.

One can very well visualise the situation, when such subjects are exposed to certain pre-determined set of practices identified as yoga intervention. A set of loosening exercises precede the specified yoga practices. Most of the time, beginners will be able to do warming up practices at the expected level than the yoga intervention. Of course, one cannot expect a first time participant to perform postures or breathing practices precisely replicating the instructions. For the sake of uniformity, when yoga intervention is administered emphasising on achieving the form, participants who are not able to carry out the instructions tend to get demotivated. Their further continuance in the trials will be only with an attitude of participation rather than any personal conviction or involvement. Mostly, this could be one of the major reasons for the considerable volume of dropouts witnessed<sup>7</sup> in RCTs for yoga intervention.

It would further the reliability of any study if we can take pro-active steps to prevent the above scenario. The crucial requirement is to get acquainted with the baseline condition of a participant by recognising the abilities and limitations. The initiative is ensure that yoga therapy intervention duly acknowledges the basic status and accommodates the inherent characteristics. Yoga therapy always commences from the point where the individual stands. Any intervention in yoga therapy is goal oriented and has to mitigate hardship specific to the help seeker. Moreover, yoga therapy is not a mere application of a technique. To produce the desired result, the voga therapist has to establish a rapport with the help seeker. In certain conditions, it would also be vital to interact closely with the support group as well. Each individual is unique at all levels. Manifestation of ill-health also occurs in a distinctive manner. Hence, persons with the same pathological findings need not have identical issues in the discomfort experienced. Further, in most conditions when medications are administered to alleviate medical problems it could produce certain secondary issues that need to be contained.

It is essential to start yoga therapy at the comfort level of the individual. Already one is experiencing discomfort and to add more agony by way of unsuitable yoga practices would be against the fundamental principle of Ahimsa. Hence, it is critical to assess the appropriateness of the yoga therapy be it as a standalone practice or as adjunct therapy. In order to conclude whether the practices are appropriate the therapist has to be guided by (i) ability and comfort level of individual and (ii) suitability to lessen the suffering. Ultimate goal of yoga therapy is to remove any distortions and restore the equilibrium in wellness. To accomplish this, one cannot be guided by pre-conceived notions or practices. Key resource in enriching knowhow of yoga therapist is through the process of developing insights as a result of adhering to personal practices. Therapist must proceed with the firm conviction that yoga practices must not only be appropriate but also be adapted according to the needs of

the individual.

#### Adaptation

Any intervention in yoga therapy cannot be simply thrust on the help seeker. As to the methodology of teaching yoga practices, legendary yoga guru Tirumalai Krishnamacharya firmly observed that, "Individual is not for Yoga, it is Yoga for individual". Traditional texts have enlisted a wide variety of practices consisting of asana, pranayama, meditation, mudras, chants, breath ratios etc. The gamut of tools available are abundant and these are further fortified when employed in combination. It depends upon the therapist to make appropriate choices bringing forth the resources of experience and competence. Further, the practices so chosen are usually classical in nature requiring extensive preparation and ideal for learning by a normal person. In the context of dealing with infirmity or illness, there can be several limitations in terms of capability and necessity. To illustrate, a help-seeker may be reporting with excruciating pain or another could be mentally agitated. Does it mean one has to wait for normalcy to return as the conditions are unsuitable to do classical yoga practices. In so far as yoga therapy is concerned, the techniques available for acute conditions are aplenty by virtue of proper adaptations. Therefore, it is vital for the therapist to extract and employ only the functional aspect of practices so chosen. This would help pave way for simplifying the therapy needs and also facilitate ease of implementation by the help-seeker.

Such a tailor made practice would be specifically catering to the needs of the individual. The underlying stance is that, one is already suffering and the path chosen to alleviate anguish has to be easily navigable. Conventional yoga practices constitute several steps involving repetitive practice to attain perfection in form. Often these are time consuming and are not entirely necessary to satisfy therapeutic needs. Whereas, yoga therapy practices prescribed need to be for a short time frame addressing specific goals of help-seeker. Also, one must factor in the frame of mind in sickness. Complicated and time consuming practices will certainly de-motivate, depriving wholehearted involvement of the help-seeker or forcing people to quit. Role of yoga therapist is to lay the road and monitor the journey. It is the potential already in the help-seeker that is fortified leading to one's healing through one's own faithful participation. Moreover, in a study it is critical to contain the factors leading to drop outs. Thus, adaptation of practices provides for appropriateness, ease of practice, addresses specific needs requiring short time frame motivating one to pursue the journey.

### **Progression in Therapy**

Therapist is obliged to evaluate the practices periodically as this provides the pathway to progression. It is critical to verify whether the help seeker is in fact implementing practice in the manner intended. Feedback provided by the individual is crucial in this regard. Also

further progression in yoga therapy will be guided by the short term and long term goals of the therapeutic intervention. Once the acute phase is surmounted, efforts will be directed towards sustaining the relief. Thereafter, the process of strengthening will be the road map. According to the stage, dosage of yoga, intensity of the techniques prescribed need to be used. It would not be appropriate on the part of yoga therapist to confine oneself to a set of rigid pre-determined techniques and evaluate the efficacy of yoga therapy. This would amount to belittling the immense potentials of wide ranging yoga tools. In reality it reflects only the inadequacy of the therapist. Hence, yoga therapist must be innovative enough to offer simple solutions appropriate to the needs of the help-seeker. Moreover, periodical evaluation by medical professional serves as an index of efficacy when yoga therapy is offered in the complementary mode. This would go a long way in reinforcing faith of help-seeker and serve as a fillip to adhere to the practices over a long period of time.

# **Dosage of Yoga Intervention**

Most often one notices that in RCTs for evaluation of yoga intervention, the study envisages the participants to adhere to a set of identified practices during the period of study. Each session of intervention will last 50 to 75 minutes. The participants are provided assisted training for a few sessions, thereafter the subjects are required to do independent practice and report compliance. It would be interesting to note that even in case of persons enrolling for yoga as fitness activity, out of self motivation, each session would be around 50 minutes with intermittent periods of rest. Sustaining the interest of subjects enrolled for health study for around 50 minutes each session could be a tough ask. Indispensable is a favourably inclined mind set on the part of the subject.

Given the health condition it would be challenging to sustain interest for more than 30 minutes. Particularly, one needs to visualise the situation when the participant completes training and embarks upon independent practice. A wholehearted effort is expected from the subject to elicit a reliable result. In yoga study, the subjects are required to be active participants throughout the period of study unlike passive participation in a drug trial. Generally, the span of attention would be anything between 20 to 30 minutes. Hence, voga intervention in the study needs to recognise this aspect. Ideally, yoga intervention should not last more than 30 minutes per session. Longer duration of session can lead to de-motivation resulting in drop outs, which is already a bane of yoga studies. In the present day living, demands on time is a big stressor and our effort must be in the direction of preventing yoga intervention to add on to this. Yoga intervention needs to be packaged as a short term intervention program with elements of objectivity according to the needs of the individual. This can sustain interest in the participant so as to give it a fair trial during the period of study.

#### Lack of Follow Up

Presently, we find that efficacy of yoga therapy studies are restricted to the pre-defined limited period. There is hardly any evidence of outcomes of long-term follow up. No doubt it is a nascent area of study. It is high time that effects of continuing yoga intervention need to be ascertained. Yoga therapy, as elaborated in aforesaid paragraphs is an objective intervention. There are short-term and long-term goals as targets of intervention besides the process is an evolving one. Even as complementary therapy its impact - on the needs of medication, whether it facilitates in scaling down the potency or dosage of medication, role in containing secondary damages of particular health condition, most importantly how it shapes the psyche of the individual with a problem etc. can be understood only through a long-term study. Though the intervention addresses primarily the specified health condition, its outcome can permeate through layers of constitution influencing the wellness factors. The roles of yoga intervention can be unearthed in myriad ways viz., capacity building in lifestyle conditions, post surgical recuperation, trauma, palliative care. To comprehend this, certainly an individualised approach could be a plausible medium.

# **Uniformity in Intervention**

The indispensable goal of an experimental research study is to accomplish standardised protocols of intervention with eventual means of replication. To this end, the ingredients of intervention need to be factored into reducible units. Yoga therapy interventions can certainly satisfy these fundamental requirements of a dependable scientific study. This ancient has evolved many traditions and many more are sprouting. Each tradition gets identified with a set of distinctive practices. It is also common to notice that between traditions, though practices are identical they differ in nomenclature. Furthermore, we also see identical different nomenclature assigned to practices. Consequently, in such a diverse arena, one may get the impression that yoga practices may not be suited for a scientific classification. As such, there is a possibility that most RCTs in yoga therapy incorporate a predetermined set of yoga interventions applicable across the board to all participants. Largely, such protocols constitute of practices that are in vogue and universally adopted by general populace for non-therapeutic purposes. No doubt the element of standardisation is secured by harnessing such practices into a rigid protocol. However, the vital aspect of implementation within yoga therapy subjects is itself certainly compromised. Admittedly, one must recognise that the subjects are not only novices to yoga but also bear the vagaries of health condition. These inherent limitations may not always facilitate the standardised practice by each and every member in a study group. It would culminate into a setting where the results reflect the efficacy of a protocol implemented according to the best of each one's ability. In the circumstances, how can one

envisage replication. Validation of a scientific study also warrants that the results must reflect effects of chosen intervention at a uniform dosage among all participants. Presently, this is not wholly satisfied. Nevertheless, one can observe positive outcomes largely attributable to the broad-spectrum benefits.

A paradigm shift in research involving efficacy of Yoga therapy is vital. The standpoint must move from normative to individual perspective. Of course, without any disregard to the primary prerequisite of uniformity of intervention. The yoga therapy intervention employed in a study is with the objective of working on specific areas of the human constitution. Hence, what we are observing is the functional outcome of the intervention. This being the case, what if the units in the intervention are designed and classified on functional basis. Thereby, for each unit within the specified class of intervention, we may develop and fit in sub-class of units to accommodate the aspect of suitability and need of subjects. The sub-class will consist of standardised replacement options in case the subject is not able to practice the unit specified in the intervention. For eg., if a standing forward bending posture is classified to work on the abdominal region, we may provide for a sub-class of options wherein an obese person can be asked to do a half-way forward bend, while a person with stiffness may be encouraged to keep his knees bent and so on. Functionally, these options will fall within the same class but also facilitate implementation by each one of the subject according to the limitations. This would also smoothen the process of replication. All said and done in case of pharmaceutical trials variations in potency and dosage is an accepted norm. Hence, a rational sub-class within a classified protocol for a given condition, is not alien to research.

#### Conclusion

Research studies on the efficacy of yoga therapy either as a adjunct therapy or stand alone intervention needs to be pursued encompassing the scope for individualisation. This could be achieved by developing broad framework of classified intervention for a given condition, with possibilities to have options within the classification to meet individual needs. Thus, uniformity is achieved facilitating evaluation in a systematic manner. Medical specialists world over hold the view that need of the hour is integrated approach to holistic health management. By studying efficacy of yoga therapy in a most practical perspective let us hope to open up new vistas in wellness management.

# Acknowledgement

We are very grateful to Dr Latha Satish, Trustee & Head, Research Department, Krishnamacharya Yoga Mandiram, Chennai for her erudite guidance and unstinted support.

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