

स्वामी विवेकानन्द योग अनुसंधान संस्थान

Swami Vivekananda Yoga Anusandhāna Samsthāna

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956)

Eknath Bhavan, # 19, Gavipuram Circle, Kempegowda Nagar, Bangalore - 560 019 Ph: 080 - 2661 2669, Telefax: 080 - 2660 8645 E-mail: svyasa@svyasa.org Website: www.svyasa.org

Certificate

The doctoral committee confirms that this is an authentic and approved copy of the thesis and it has been reviewed and approved by two experts.

The doctoral committee recommends the award of PhD degree to the research scholar as follows:

Name of the Research Scholar: Mrs. Sunanda Rathi

Registration No: Ph.D./Cat3/20/Aug 2013

Title of the Thesis: Effect of integrated approach of yoga therapy on adolescent obesity (11 to 17 years age group): a randomised control study. Viva-Voce Examination Details: Date: 25th July, 2020.

Day: Saturday, Time: 2:30 pm to 3:30 pm. Thesis Presentation: Online through Google meet

Link: https://meet.google.com/srh-kgrj-jux

J.

Dr. Raghavendra M Rao Reviewer – National & Examiner Director, Central Council for Research in Yoga & Naturopathy, New Delhi.

Dr. Padmini Tekur Research Supervisor Division of Yoga & Life Sciences S-VYASA, Bengaluru.

Dr. R. Chandrasekhar Dean of Academics S-VYASA, Bengaluru.

Prof. Lu Fang Reviewer - International India-China Yoga College School of South Asian Languages & Cultures, Yunnan Minzu University, China.

नागे-दुः

Dr. H. R. Nagendra Co- Research Supervisor Chancellor, S-VYASA, Bengaluru.

Dr. B.R. Ramakrishna Vice-Chancellor S-VYASA, Bengaluru.

CERTIFICATE

This is to certify that **Dr Sunanda S Rathi** is a Ph.D. scholar bearing university registration no.Ph.D./Cat3/20/Aug 2013, with effect from Aug, 2013 under the Division of Yoga and Life Sciences.She has successfully completed the prescribed course work and training in acquiring the relevant background knowledge related to the effect of Yoga on Adolescent Obesity. This thesis entitled "EFFECT OF INTEGRATED APPROACH OF YOGA THERAPY ON ADOLESCENT OBESITY (11 TO 17 YEARS AGE GROUP)

A RANDOMISED CONTROL STUDY" is based on the bonafide work carried out by her as per the regulations of the University.

Further it is declared that the subject matter of this thesis has not formed the basis for the award of any degree, diploma, associate-ship, fellowship or similar titles previously.

Dr.Padmini Tekur M.B.B.S., Ph.D.

Designation: Assistant Professor (Guide)

Date: 25th July,2020 Place: Bangalore Dr Hongasandra.R.Nagendra M.E., Ph.D.

Chanceller: Svyasa University (Co-Guide)

> Date:25th July,2020 Place: Bangalore

DECLARATION

I, Dr.SUNANDA S RATHI hereby declare that this study was conducted by me at Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA), Bengaluru, under the Guidance of Dr. Padmini Tekur M.B.B.S., Ph.D & Dr. Hongasandra. R. Nagendra, M.E., Ph.D, Chancellor, S-VYASA University Bengaluru.

I also declare that the subject matter of my thesis entitled "EFFECT OF INTEGRATED APPROACH OF YOGA THERAPY ON ADOLESCENT OBESITY (11 TO 17 YEARS AGE GROUP) A RANDOMISED CONTROL STUDY" has not previously formed the basis of the award of any degree, diploma, associate-ship, fellowship or similar titles.

Sunanders Rathi.

Date: 25th July,2020

Dr SUNANDA S RATHI

Place: Bangalore

(Candidate)

ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have got this all along the completion of my project. All that I have done is only due to such guidance and assistance and I would not forget to express.

Ph.D. is the culmination of long years of academic education. I would like to take this opportunity to thank one and all who have contributed to my learning process.

Firstly I thank the Lord Almighty for the abundant Grace in my life, giving me an opportunity to undertake this project and His Grace in seeing its completion.

I wish to convey my sincere gratitude to my University SVYASA, an esteemed and sacred Institution, to have given me a divine opportunity to learn this ancient wonderful wisdom of YOGA.

I express my respectful gratitude to Dr. H.R. Nagendra. Whatever I learnt in this journey, is because of him. His support throughout my research period was unimaginable & encouraging. Only because of his inspiration, suggestions and care, I stand where I am. I am always thankful to him for his experienced guidence, giving me an opportunity to work with him & his trust on my abilities.

I express my gratitude to Dr. Padmini Tekur, my Ph.D guide for her constant guidance, support and encouragement. She was always there just behind me at every crucial juncture, giving the perfect advice, during the whole project and reviewing all the subject matter.

I owe my heart felt gratitude to Dr.R Nagaratna, Medical Director, S-VYASA for all the support, valuable suggestions & love I have received from her. Her vast experience has guided throughout journey of my research. It was a continuous learning process for me.

A very special heartfelt gratitude to my mentor Mr.Ramkumar Rathi, I am grateful to him and fortunate enough to get his constant encouragement, support, guidance and inspiration without which the project would not take off. Also, I would like to extend my sincere esteems to all staff & directors of Rathi Tech Services Pvt.ltd Heartfelt thanks goes to Dr. Ravindra Acharya & Dr Shatrughan Singh for their invaluable insights, suggestions and help in design of the module of the study. My special thanks to subject matter expert of Svyasa, who helped me to design module of IAYT.I am really greatful to Dean of Acedemic Mr.R Chandrashekhar for his guidance.

I am also grateful to the following university faculties & staff for their unfailing support and assistance Dr Amit Singh, Dr Raghvendra Bhat, Dr.Rajesh SK,

Dr. Judu Ilavarasu, Smt. Shardaji Shankar, Dr Balram Pradhan and Dr Kashinath Methri.

I would not forget to remember the timely support, encouragement and guidance till the completion of the project work given by Dr. Subramanya Piloor, Dr.Sowbhayalaxmi and Dr Natesh Babu. I express my thanks to Dr Vijaya Kauri, Hom Bahadur, Dr Divya K., Venktesh, and Mr.Narendra & Devashish Vashistha.

I would be doing injustice if I forget to convey my gratitude to Dr. Sanjay Malpani Chairman of Dhruv Academy, who helped us for our pilot study to use the campus of Dhruv Academy, residential School at Sangamner, Maharashtra. Big thanks to Principal of the school, staff & Dr Jitesh Chudiwal for providing support.

I am extremely thankful to Smt. Malti Kalmadi of Kaveri Education, Pune for permitting us to conduct our main study at Dr Shyamrav Kalmadi School at Pune, & to the Principal & staff for their help for pre & post data collection for main study and conduction of our intervention in the school premises.

I will always remain thankful to Dr.Ruchira Joshi Academic Head of Chiranjiv Foundation for being a wonderful help in handling the project with utmost sincerity & Special mention is necessary for my staff of Chiranjiv Foundation & Arena Animation Tilak Road, Pune.

I have learnt a lot from my parents & especially from my late father, who was my first "Guru" who taught me the importance of education, self study, values and ethics who was a researcher in Ayurveda and an Astrologer.

I am grateful to my husband Dr Surendra and my mother Leeladevi, who have provided me through moral and emotional support in my life. I am also grateful to my children & family members, friends & well wishers for the great support & strength.