

Faculty Name: Mr.T.Senthil Kumar

Degree: MPT.,Cardiopulmonary sciences

Designation:Associate Professor

Areas of Research Expertise: Cardiac and Pulmonary Rehabilitation, Renal Rehabilitation, Cancer Rehabilitation

Research projects

1. Study on Physical activity and Quality of Life after Renal transplantation (2014)
2. Study on the changes in sympathovagal regulation of heart and functional capacity in patients following CABG (2015)
3. A Study on Cardiovascular risks and its correlates following Kidney Transplantation (2016)
4. A Study on changes in Pulmonary function after Kidney Transplantation (2017)
5. Role of bicycle ergometer training in phase-I among heart valve surgery patients (2018)
6. An Analytical Study on Physical Activity, Functional Capacity and Sleep Health in patients with Type 1 and Type 2 Diabetes (2018)
7. The effect of MET bicycle ergometer training on functional outcomes in phase-I following Cardiac surgery (2019)
8. Influence of Electronic media- support in exercise training among the patients with type 2 Diabetes (2019)
9. Effects of graded exercise training on functional capacity & Quality of Life in post renal transplantation patients (2011-2018)

Awards & Recognitions of faculty

1. Awarded **II prize** for the scientific paper presentation titled “**The Physiological responses during Exercise training following renal transplantation**” at Colloquium on exercise, science and Health promotion, EXPRO Sep-2013 at MAHE, Manipal, Karnataka
2. Panelist for Physiotherapy component on Multidisciplinary approach in CKD management, SRU, 08.05.2014(**World Kidney Day**)
3. A paper titled “**Effects of graded exercise training on functional capacity and quality of Life in post renal transplantation patients**” was presented at International Symposium on Exercise Science Research in February 2015 at MAHE, Manipal, Karnataka and was awarded **II Place** in the Platform presentation
4. Resource person, Ergonomics for ICU nurses on 13.01.16 (In house training program) at SRU
5. Resource person, SPREE Feb 2016, SRU
6. Resource person, SPREE, 2017, SRU

Conferences, Seminars, Workshop, training undergone by faculty

1. CPE in research methodology & scientific writing for physiotherapists
2. Seminar on Chronic Kidney disease, April 2013
3. International conference on ethics & Biostatistics, SRU
4. EXPRO 2013-Colloquium on exercise science and health promotion at Manipal, september 2013
5. Workshop on exercise testing & prescription, 2013
6. International conference on Musculoskeletal & manual Physical therapy, 3rd -5th July 2014
7. International conference on Ethics & Responsible conduct of research: Basics & beyond, CITI-india & SRU, 11th-12th Nov, 2014
8. Attended Workshop on Interpretation of JCI standards on 18.11.14
9. National conference on "Rehabilitation for solid organ transplantation", KMCH, 24.1.2015
10. International symposium on exercise science & Health promotion, Manipal, 6th -7th Feb, 2015
11. CME on "Cling the Counsellors", SRU, 24.02.2015
12. Workshop on "Guide lines on Quality Publication, SRU, 08-04-2015
13. Coordination-NIAHS workshop on Curriculum planning for AHS,
14. Ministry of Health & family welfare, India on 20.05.15
15. Laser safety, SRU on 04.08.15
16. Indian citation index, SRU on 13.08.15
17. Workshop on "Grant/Article writing" by Dr. Caven Mccloughlin, 14th Sep, 2015, SRU
18. Sri Ramachandra Rapid Review Education Program (SPREE)-2016
19. International workshop on Cardiovascular & pulmonary competencies as a component of physical therapy practice across specialities: An evidence to practice Update at Manipal hospital, Bangalore (11th & 12th March 2016)
20. Workshop on RESEARCH CAPACITY BUILDING, 17th Sep- 6TH October 2016
22. INFER-CME 2017
23. Workshop on Yoga for Health (IDY)
24. 1st National conference on CardioPulmonary Rehabilitation, Cardiac Wellness center & The TN Dr.MGR Medical University
25. International workshop on Cardiovascular & pulmonary competencies as a component of physical therapy practice across specialities: An evidence to practice Update at Manipal hospital, Bangalore (11th & 12th March 2016) Workshop on RESEARCH CAPACITY BUILDING, 17th Sep- 6TH October
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27. INFER-CME 2017
28. Workshop on Yoga for Health (IDY)
29. 1st National conference on CardioPulmonary Rehabilitation, Cardiac Wellness center & The TN Dr.MGR Medical University

30. Exercise evaluation & prescription
31. Vestibular Rehabilitation, SRU
32. Yoga for Well- being (IDY)-One week workshop,SRU
33. National Conference on Renal Rehabilitation, SRU
34. Research Methodology Workshop ,SRU
35. National Workshop on Cardiac Rehabilitation, SOAHS, MAHE, Bengaluru
36. Updates on Yoga & ANS, SRIHER
37. 2nd National Conference on CardioPulmonary Rehabilitation, Cardiac Wellness center & The TN Dr.MGR Medical University

Membership in Committees etc., (Internal/ External)

1. CPE in research methodology & scientific writing forphysiotherapists
2. Seminar on Chronic Kidney disease, April2013
3. International conference on ethics & Biostatistics, SRU
4. EXPRO 2013-Colloquim on exercise science and health promotion at Manipal, september2013
5. Workshop on exercise testing & prescription,2013
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26. CAPACITY BUILDING, 17th Sep- 6TH October
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35. National Workshop on Cardiac Rehabilitation, SOAHS, MAHE, Bengaluru
36. Updates on Yoga & ANS, SRIHER
37. 2nd National Conference on CardioPulmonary Rehabilitation, Cardiac Wellness center & The TN Dr.MGR Medical University

List of Publications

1. N.Venkatesh, T.Senthil Kumar, S.Sridevi , Physiotherapy In Metabolic Dysfunctions In Icu: An Upraising Need - Physiotimes :Sept 2010:2(2),pp 40-41
2. N. Venkatesh, S.Thanikachalam, J.Sathynarayana.Murthy, Arun G Maiya, T.Senthil Kumar, S. Sridevi, Six minute walk test A Literary Review. Sri Ramachandra Journal of Medicine, Vol. 4 Issue 1 (Jan - June 2011), 30 -34.
3. N.Venkatesh, T.Senthil kumar, S.Sridevi, Supervised Exercise Training Improves Functional Capacity During Phase II Cardiac Rehabilitation In Post CABG Patients. Sri Ramachandra Journal Of Medicine, Vol-6,issue-1, (Jan-June 2013), 30-34
4. T.Senthil Kumar, Physiotherapy in Chronic diseases: Adding life to years. Physiotimes, July 2013:5(1),pp 6-12
5. ThillaiGovindarajan SenthilKumar, Soundararajan Periyasamy, Ravi Annamalai., 2018. The Physical and Physiological responses during exercise training following Renal Transplantation: A case series. *Manipal Journal for Health Professionals*, 1(1): 47-51
6. A.Shanker Ganesh, Senthil Kumar. T, N.Venkatesh, The Role Of Chest Physiotherapy On Pulmonary Outcome In Patients With Renal Dysfunction.Indian Journal of Public Health Research and Development, September, 2018
7. Govindarajan, S.K.T., Periyasamy, S., Maiya, A.G., Annamalai, R. and Natarajan, V., 2018. A Structured Exercise Training Protocol after Renal Transplantation in Indian Population. *Indian Journal of Public Health Research & Development*, 9(10): 249-54
8. **Thillaigovindarajan Senthikumar**, Soundarajan Periasamy, Ravi Annamalai. The physical and physiological responses during exercise training following renal

transplantation: A Case series. Manipal Journal of Health professionals. 2019Jan;1(1):15–8.

9. **Vijayalakshmi V, Sridevi S, Venkatesh N, Kumar TS.** Relationship Between Body Composition, Physical Activity and Functional Capacity. 2019Aug;10(8):601–6. [Scopus].
10. **Venkatesh N, T.Senthil Kumar ,Sridevi SR.Yogeswari.** The effects of Exercise on the sympathovagal regulation of heart functional capacity in patients following Coronary Artery Bypass Surgery. Indian Journal of Public Health Research & Development.2019Nov;10(11),519-523.
11. **Prithiha V, Kumar T, Senthil kumar,** Venkatesh N, Sridevi S. An Analytical Study on Physical Activity, Functional Capacity and Sleep Health in Patients with Type 1 and Type 2 Diabetes. Indian Journal of Public Health Research & Development. 2019Dec;10(10):559–63. [Scopus].