

Qualification:

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Madras Medical College, India	MBBS	1962	Medicine
Madras Medical College, India	MD	1967	General Medicine
Christian Medical College, India	DM	1971	Cardiology
TUFTS University, Boston, USA	Skill Development	1985	Skill development in Doppler, Color Doppler and transesophagealechocardiography

Positions and Employment:

- 1967-1968 Tutor in Medicine - Kilpauk Medical College.
- 1968-1969 Assistant Professor of Medicine-Chengalpet Medical College.
- 1969-1971 Registrar in Cardiology - Christian Medical College, Vellore.
- 1971-1973 Assistant Prof. of Cardiology -Madras Medical College.
- 1973-1975 Reader in Cardiology - Madras Medical College.
- 1975-1988 Additional Professor of Cardiology -Madras Medical College.
- 1988-1994 Professor of Cardiology - Kilpauk Medical College.
- 1994-2005 Professor of Cardiology – Sri Ramachandra Medical College & Research Institute (SRMC & RI) (Deemed University), Porur, Chennai
- 1994-2002 Director - Cardiac Care Center / Professor & Head - Sri Ramachandra Medical College & Research Institute (SRMC & RI) (Deemed University), Porur, Chennai
- 1998-2002 Dean of Faculties -SRMC & RI, Chennai
- 2002- 2005 Vice-Chancellor -SRMC & RI, Chennai
- 2005-till date Chairman & Director of Cardiac Care Centre-SRMC & RI, Chennai
- 2005-till date Prof. Emeritus in Cardiology
- 2007-till date Director - Centre for Toxicology and Developmental Research
- 2010-till date Adjunct Professor – Indian Institute of Technology, Chennai.
- 2007-till date Principle Investigator – Purse His Epidemiological Study – sponsored by Department of

Science & Technology

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS:

Past President - Indian Academy of Echocardiography.

Past President - Madras Chapter of Cardiological Society of India.

Past President - Madras Central Branch - IMA.

Past Chairman- Scientific Committee - Institute of integrated medicine.

Past Secretary - Anti - Tobacco forum

Member - Editorial board - Indian Heart journal.

Past President – Tamil Nadu& Pondicherry Chapter of Cardiological Society of India 1998.

Past President - South Asian Society for Atherosclerosis & Thrombosis (SASAT INDIA) - 2003-06

Member - Executive committee - Indian Council of Medical Research (07.02.2005 – 19.02.2006)

Member - Instrumental in creating the Association of private medical Indian Universities as representative of Medical Faculty of Indian Universities - Governing body of the Indian Council of Medical Research, New Delhi (13.09.2003 – 12.09.2006).

Past President – Tamil Nadu Branch of Cardiological Society of India

Past Member – Golden Triangle Project – Indian Council Medical Research (Govt. of India) NEW DELHI

Past President – Indian Society of Hypertension - 2006 - 2009

Past Editor in Chief – Indian Society of Hypertension - 2012

Member – National Centre for Disease Information & Research

President – City branch of cardiological society of India

Past Member – Governing board Finance Committee,SRMC – From 2005 to 2008

Past Member - Planning committee, SRMC – From 2005 to 2008

Member – Institutional Ethics committee, SRMC - From 2016 to till date

Member –Institutional Board for research, SRMC – From 2015 to till date

HONORS

1997 Sadhana Award

1998 Outstanding Teacher of the Decade Awards –K G Hospital, Coimbatore

2000 Awards for Excellence for the year 1999-2000, Lions Club of Madras Cathedral

2001 Conferment of the Honorary Degree of Doctor of science (HONORIS CAUSA) by the Esteemed premier University of Tamil Nadu – The Tamil Nadu DR MGR Medical University

2003 For the Sake of Honour Award – Rotary Club of Madras Shakti

2003 For the Sake of Honour Award – Rotary Club of Salem

2003 Dr. B. C. Roy National Award for best teacher by the Honorable President of India

2009 “Padma Shri Award”, presented by the Honorable President of India

2011 "Life time Achievement Award", presented by The Tamil Nadu Dr. MGR Medical University, on the eve of Teachers Day.

2011 "Life time Achievement Award", presented by The Tamil Nadu Dr. MGR Medical University

for the contributions in the field of Cardiology and service to the society.

CONTRIBUTIONS TO SCIENCE

1. The effect of long term smoking and large quantity of beer drinking on left ventricular function
2. Prevalence of rheumatic heart disease, congenital heart disease in school going children
3. Prevalence of multiple risk factors large cohort more than 8000 people in southern India
4. Evaluating vascular stiffness in urban and rural population correlating with intima medial thickness and also validating IIT evaluated and hand held unit to assess vascular stiffness with PURSE HIS modality assessment of vascular stiffness
5. The impact of atmospheric pollution with particulate matter 1 to 5.00 pm on systemic hypertensive from urban centre throughout rural centre a distance of > 35 km to emphasize the role atmospheric pollution after eliminating other risk factors.

RESEARCH SUPPORT

ONGOING RESEARCH SUPPORT

DR. S. THANIKACHALAM (PI)

4th June 2012–Till

Date

Population Study of Urban, Rural and Semi-urban regions for the detection of Endovascular disease and prevalence of risk factors and Holistic Intervention Study (Phase II)

The goal of this study is to concentrate on pre-diabetics, by eving a strategy for intervention to reverse the metabolic abnormality to normal to reduce the incidence of diabetic complications especially vascular complication

Role: PI

DR. S. THANIKACHALAM (PI)

14th September 2011-Till

Date

Café India study

The goal of this study is to identify people with established systemic hypertension and observe them on ACE inhibitors and calcium channel blocker after initial assessment of vascular stiffness and periodic observation of indices of vascular stiffness for the period 2 years to find the regression of arterial stiffness

Role: PI

DR. S. THANIKACHALAM (PI)

2nd July 2012 – Till

Date

Vascular stiffness, its components and its relation to multiple risk factors

The goal of this study is to identify the impact of chronological age on vascular stiffness which is known to initiate vascular disease earlier in life in both sexes

Role: PI

DR. S. THANIKACHALAM (PI)

2nd July 2012 – Till

Date

Vascular stiffness, assessment in different age group and sex with identifiable risk factors

Role: PI

DR. S. THANIKACHALAM (PI)

2nd July 2012 – Till

Date

Vascular stiffness, assessment in different age group and sex without identifiable risk factors

To glean difference between Caucasian and Indian population pattern of arterial stiffness and different age group and sex

Role: PI

DR. S. THANIKACHALAM (PI)

1st October 2012- Till

Date

Diet, Air Pollution, and Cardiovascular risk factors: prevalence and associations

The goal of this study is to identify the role of atmospheric pollution, especially outdoor pollution, and its impact as risk factor for vascular diseases. The study also correlates the intensity of micro particulate density and the prevalence of vascular disease

Role: PI

DR. S. THANIKACHALAM (PI)

2nd November 2012-Till

Date

Arterial Stiffness Evaluation for Noninvasive Screening - ARTSENS

The goal of this study is to validate a noninvasive screening created by Indian Institute of Technology with vascular stiffness study methodology used in assess central vascular stiffness.

Role: PI

DR. S. THANIKACHALAM (Co-PI)

2nd November 2012-Till

Date

Genome Wide Association Study to Identify Genetic Variants Conferring Risk to Cardiovascular Disease – Indian Population

The goal of this study is to identify the genetic cause on diabetic in special ethnic population southeast region of India called Dravidian race since the prevalence of diabetes is observed to increase two fold in the last two decades.

Role: Co-PI

COMPLETED RESEARCH SUPPORT

DR. S. THANIKACHALAM (PI)

April 2007 - 31st December

2011

Population Study of Urban, Rural and Semi-urban regions for the detection of Endovascular disease and prevalence of risk factors and Holistic Intervention Study (Phase I)

The goal of this study was to identify the prevalence of risk factors conducive to endovascular disease and to identify overt and subclinical peripheral vascular disease, neurovascular disease and cardiovascular disease.

Role: PI

DR. S. THANIKACHALAM (PI)
2012

10th October 2011 - 21st December

Intima Medial Thickness, Flow Mediated Dilatation of Peripheral arteries and Arterial Stiffness Analysis in Healthy Population in age group of 18-30 years and >65 years

The goal of this study: The manifesting coronary artery disease occur acutely after progressive change for decades. Hence early intervention is needed to prevent acute vascular events producing mortality and morbidity. Identifying the markers like IMT, Flow mediated response and arterial stiffness independently and correlate with risk factor manifesting disease and to eve a strategy at population level.

Role: PI

DR. S. THANIKACHALAM (PI)
2016

From 2015 to

Study of Traditional medicine, water extract of Madhume-gachooram for the potential to lower the plasma glucose and plasma lipids by in-vivo animal study and in-vitro study (already patent application is accepted by Indian patent authority)

DR. S. THANIKACHALAM (PI)
2016

From 2015 to

Study of DM6, newly eved herbal compound for potential in plasma glucose lowering, anti-oxidant property, anti-inflammatory potential. A preclinical study already completed (already patent application is accepted by Indian patent authority)

SCHOLASTIC PERFORMANCE

Experience : Teaching- undergraduates, post graduates sub specialty cardiology fellows, physiotherapist, Allied Health and Sciences students, Nurse, guiding Ph. D students

Ph. D. Candidates Guide ship:8 candidates on various subjects related cardiovascular system

Books : 2

Organizational : Organised 22 -CME Programs Both (National & International)
18 Workshops – on vascular intervention, Good Clinical practice, Good Laboratory Practice),

PUBLICATIONS

1. Associations between Greenness, Impervious Surface Area, and Night time Light son Biomarkers of Vascular Aging in Chennai, IndiaKevin. Lane, Eleanor C. Stokes, Karen C. Seto, **SadagopanThanikachalam**, Mohan Thanikachalam, and Michelle L.Bell1, 2017Environmental Health Perspectives, AUGUST 2017 | 125, 8
2. Sodium Intake, Blood Pressure, and Dietary Sources of Sodium in an Adult South Indian Population, Sri-priya Ravi, MS Odilia I. Bermudez, , VijayakumarHarivanzan, Kwan Ho Kenneth Chui, PreethiVasudevan, Aviva Must, **SadagopanThanikachalam**, Mohan Thanikachalam, Annals of Global Health, March–April, 2016Volume 82, Issue 2, 234–242
3. Population Study of Urban, Rural, and SemiurbanRegionsfor the Detection of Endovascular Disease and Prevalence of Risk Factors and Holistic Intervention Study (PURSE-HIS) Rationale,

Study Design, and Baseline Characteristics
SadagopanThanikachalam*, VijayakumarHarivanzan*, Murugappapillai V. Mahadevany, J. S. N. Murthy*, ChandrasekarAnbarasi*, Chidambaram S. Saravanababuz, Aviva Mustx, Ragavendra R. Baligak, William T. Abrahamk, Mohan Thanikachalam Chennai, India; Boston, MA, and Columbus, OH, SA, GLOBAL HEART © 2015 World Heart Federation (Geneva). 10(4), 281-289

4. Effects of rolipram and roflumilast, phosphodiesterase-4 inhibitors, on hypertension-induced defects in memory function in rats, Sobhana George, SuginLalJabaris. RamadassSateshKumar .ShridharNarayanan. **SadagopanThanikachalam**. Chidambaram SaravanaBabu, European Journal of Pharmacology Volume 746, 5 January 2015, 138-147
5. Phosphodiesterase-4 inhibitors ameliorates cognitive deficits in deoxycorticosterone acetate induced hypertensive rats via cAMP/CREB signaling system, SuginLalJabaris, HaridassSumathy, Ramesh Girish, Shridhar Narayanan, Mani Sugumar, Chidambaram SaravanaBabu, **SadagopanThanikachalam**, Mohan Thanikachalam Brain Research - 2015, Volume 1622, Issue null, Pages 279-291 S.
6. Prevalence, treatments and outcomes of coronary artery disease in Indians: A systematic review, MangalaRao, Denis Xavier,* , Padmini Devi, AlbenSigamani, AtiyaFaruqui, Rajeev Gupta, PrafullaKerkar, Rajendra Kumar Jain, Rajnish Joshi, N. Chidambaram, DayaSagarRao, **S. Thanikachalam**, S.S. Iyengar, KironVerghese, V. Mohan, PremPais, , Indian Heart Journal 67(4), 2015-302-310.
7. Venthamaraichooranam, a polyherbal Siddha medicine, alleviates hypertension via AT1R and eNOS signaling pathway in 2K1C hypertensive rats Chidambaram S Babu, PeriyathambiKalaivani, VijayanRanju, SekarSathiya, ChandrasekarAnbarasi, Murugappa pillaiV Mahadevan, HarivanzanVijayakumar, Adoor G Sunil, **SadagopanThanikachalam**, Experimental Biology and Medicine- 2014, 239 (6), 758-769
8. Cuminumcyminum, a Dietary Spice, Attenuates Hypertension via Endothelial Nitric Oxide Synthase and NO Pathway in Renovascular Hypertensive Rats, PeriyathambiKalaivani, Ramesh BabuSaranya, GanapathyRamakrishnan, VijayanRanju, SekarSathiya, VeeraraghavanGayathri, Lakshmi KanthamThiyagarajan, JayakothandaRamaswamyVenkatesh, Chidambaram SaravanaBabu&**SadagopanThanikachalam**, Clinical and Experimental Hypertension Vol. 35 , Iss. 7, 2013, 534-542
9. Prevalence, risk factors and awareness of hypertension in India: a systematic review, P Devi, M Rao, A Sigamani, A Faruqui, M Jose, R Gupta, P Kerkar, R K Jain, R Joshi, N Chidambaram, D S Rao, **S Thanikachalam**, S Slyengar, K Verghese, V Mohan, P Pais and D Xavier, Journal of Human Hypertension 27 (5), 281-287 (May 2013)

10. Acute toxicity and the 28-day repeated dose study of a Siddha medicine NunaKadugu in rats, Ramaswamy Selvaratnam Ramaswamy, Nettam Prathyusha, Ruthiramoorthi Saranya, Haridass Sumathy, Kutuva Tulasi Mohanavalli, Raju Jyothi Priya, JayakothandaRamaswamy Venkhatesh, Chidambaram SaravanaBabu, Kumarasamy Manickavasakam and **Sadagopan Thanikachalam**, BMC Complementary and Alternative Medicine -2012, 12:190
11. Polyphenols in madhume gachooranam, a Siddha medicine, ameliorates carbohydrate metabolism and oxidative stress in type II diabetic rats, Chidambaram SaravanaBabu, SekarSathiya, ChandrasekaranAnbarasi, NettamPrathyusha, GanapathyRamakrishnan, PeriyathambiKalaivani, RajuJyothiPriya, KrishnamoorthySelvarajan, Kesavanarayanan, MurugappapillaiVerammalMahadevan, **SadagopanThanikachalam**, Journal of Ethnopharmacology 142 (2) – 2012, 331–336
12. Adult coarctation of aorta with post-stenotic calcified aortic aneurysms. Jayavelan, R., Saldanha, R., Muthukumar, S., Nerlikar, A.G., Karthekeyan, R., Vakamudi, M., **Thanikachalam, S**, The Annals of thoracic surgery, Volume 91, Issue 3, March 2011, Page 930
13. Numerical simulation of cardiac valve flow velocity patterns in normal and abnormal conditions, Hemalatha, K., Manivannan, M., **Thanikachalam, S.**, 2010-IEEE International Conference on Communication Control and Computing Technologies, (ICCCCT) 2010, 5670610, pp. 536-539
14. A strategy to cross radial fore-arm loop during coronary angiogram using trans radial approach. Sengottuvelu, G., **Thanikachalam, S.** Indian heart journal Volume 62, Issue 2, March 2010, Pages 168-169
15. Treatment and outcomes of acute coronary syndromes in India (CREATE): a prospective analysis of registry data, Xavier, D., Pais, P., Devereaux, P., Xie, C., Prabhakaran, D., Reddy, K.S., Gupta, R., Joshi, P., Kerkar, P., **Thanikachalam, S.**, Haridas, K., Jaison, T., Naik, S., Maity, A., Yusuf, S. (2008) The Lancet, 371 (9622), pp. 1435-1442.
16. Iatrogenic left main coronary artery stenosis, Sengottuvelu, G., Garg, A., **Thanikachalam, S.** (2007) Indian Heart Journal, 59 (4), 386
17. Percutaneous transluminal coronary angioplasty by right transradial approach in a patient with arterialusoria, Gunasekaran, S., Kallarakkal, J.T., **Thanikachalam, S.** (2006) Indian Heart Journal, 58 (4), 365-367.
18. Plain radiographic anticipation of adequacy of left ventricular size in patients with tetralogy of fallot by studying the level of diaphragmatic domes a new sign. A catheter correlated study on hundred patients, Rajaram, P.C., Lakshmikanthan, **Thanikachalam, S.**, Vaidyanathan, S., Subramanian, N. (2005) Indian Journal of Radiology and Imaging, 15 (1), 99-102.
19. Effect of Glucose-Insulin-Potassium Infusion on Mortality in Patients With Acute ST-Segment Elevation Myocardial Infarction The CREATE-ECLA Randomized Controlled Trial, Mehta, S.R., Yusuf, S., Díaz, R., Zhu, J., Pais, P., Xavier, D., Paolasso, E., Ahmed, R., Xie, C., Kazmi, K., Tai, J., Orlandini, A., Pogue, J., Liu, L., Cronin, L., Gupta, R., Haridas, K.K., Jaison, T.M., Joshi, P.P., Kerkar, P.G., Maity, A.K., Manchanda, S.C., Naik, S., Prabhakaran, D., Reddy, S., Singh, B.,

Thanikachalam, S., January 26, 2005, JAMA. 2005;293(4):437-446. doi:10.1001/jama.293.4.437.

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23. Catheter intervention in valvular obstruction and long-term results, Murthy, J.S.N., **Thanikachalam, S.** 2003 - Journal of the Indian Medical Association - 101(2), 82-84+122
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25. Role of mitral valve morphology in trans mitral flow in patients with mitral stenosis undergoing PTMC, Kumar, M.S., George, S., Murthy, J.S.M., **Thanikachalam, S.**Heart 83 (SUPPL. 2), June 2000. A29
26. Assessment of myocardial viability by using low dose dobutamine infusion, Shivakumar, R.V., Sengottuvel, G., George, S., Ranjan, S., Moorthy, A., **Thanikachalam, S.** 2000 - Heart 83(SUPPL. 2), A29
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29. Color Doppler Flow Imaging in Cardiac Diagnosis, PANDIAN, N.G.KUSAY, B.S, CALDEIRA, M, SIMONETTI, J., ELANGO VAN, D., **THANIKACHALAM, S**, 1989 - Echocardiography 6(2), 99-117
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31. Value of computerised ST-integral analysis in the diagnosis of coronary artery disease. Lakshmikanthan, C., Ramamurthi, B., Hussain, A.T., **Thanikachalam, S.**,Jaganathan, V. 1983 Indian Heart Journal 35(6), 314-316
32. Right ventricular volume estimation by single plane method--in vitro-cast study. **Thanikachalam, S.**,Ravindran, G., Jayaraman, G., Viswanathan, T.R., Elangovan, D., Ranjan, S., Lakshmikanthan, C., Rajaram, P.C. (1983) Indian Heart Journal, 35 (4), pp. 218-223.
33. Lakshmikanthan, C., Alagesan, R., Ayyappan, B.S., Hussain, A.T., **Thanikachalam, S.**,Sankaran, A., Vaidyanathan, D. M-mode and two-dimensional echocardiographic features of atrial myxomas. (1982) Indian Heart Journal, 34 (6), pp. 396-400.
34. Double outlet right ventricle controversies & review of literature, Indian Journal of Thoracic and Cardiovascular Surgery , Ganga Prabhakar, M. P. Naresh Kumar **S. Thanikachalam**, Solomon Victor, October 1982, Indian Journal of Thoracic and Cardiovascular Surgery 1(1), 45-53
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38. The immediate effect of furosemide **Thanikachalam, S.**,Lakshmikanthan, C., Alagesan, R. (1980) Journal of Molecular and Cellular Cardiology, 12 (SUPPL. 1), p. 167.
39. Long term effects of yoga on hypertension and/or coronary artery disease. Lakshmikanthan, C., Alagesan, R., **Thanikachalam, S.**,Ramamurthi, B., Elangovan, D., Viswanathan, T.R., Kumar, S. (1979) The Journal of the Association of Physicians of India, 27 (12), 1055-1058.
40. Left ventricular function in chronic smokers, **Thanikachalam, S.**, Lakshmikanthan, C., Elangovan, D., Alagesan, R. (1978) Journal of Molecular and Cellular Cardiology, 10 (SUPPL.1), p. 122.
41. Lymphatic drainage of the heart muscle and pericardial sac in the dog. **Thanikachalam, S.**,Rajaram, P.C., Namachivayam, A., Elangovan, D., Viswanathan, T.R., Lakshmikanthan, C. (1978) Indian Heart Journal, 30 (5), 287-292.
42. Pyopericardium in infants and children. Etiology, diagnosis, prognosis and management. Joseph, M., Thirugnanasambandam, C., Hussain, A.T., Lakshmikanthan, C., **Thanikachalam, S.**,Vasudevan, S. (1978) Indian Heart Journal, 30 (1), pp. 57-61. Cited 5 times.

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45. Selective cine coronary arteriography. Cherian, G., Munsu, S.C., McArthur, J.D., Sukumar, I.P., Krishnaswami, S., **Thanikachalam, S.** (1971) The Journal of the Association of Physicians of India, 19 (11), 759-764.
46. Congenital absence of the left pericardium. (A case report). **Thanikachalam, S.**, McArthur, J.D., Cherian, G. (1971) The Journal of the Association of Physicians of India, 19 (7), 495-497.
47. Selective left atrial cineangiography in the recognition of atrial thrombus. Cherian, G., Munsu, S.C., Krishnaswami, S., McArthur, J.D., **Thanikachalam, S.**, Sukumar, L.P., Johnson, C., John, S. (1971) The Journal of the Association of Physicians of India, 19 (7), 491-494.
48. Results of total correction of tetralogy of Fallot in twentyone cases. (1970) The Journal of the Association of Physicians of India, Munsu, S.C., John, S., Joseph, T.M., Thomas, D.W., Bhati, B.S., Sukumar, I.P., Krishnaswami, S., Mc Arthur, J.D., **Thanikachalam, S.**, Cherian, G. 18 (7), 585-589.