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### **Education**

- Ph.D. Health Economics and Demography, International Institute for Population Sciences, Mumbai, (India) May 2005
- MPS Population Studies, B Grade, First Class  
International Institute for Population Sciences, Mumbai, (India) May 1997
- M.Phil. Economics, 73.5% First Class, School of Economics,  
Madurai Kamaraj University, Madurai, (India) April 1995
- M.A. Economics, 72.6% First Class, School of Economics,  
Madurai Kamaraj University, Madurai, (India) April 1994
- B.A. Economics, 72.2% First Class, Vivekananda College,  
Thiruvadakam, Madurai Kamaraj University, Madurai, (India) April 1992
- PGDMSM Marketing and Sales Management, 77% Distinction  
Management Studies Promotion Institute, New Delhi, (India) April 1996
- PGDCA Computer Applications,  
Madurai Kamaraj University, Madurai, (India) 1995

### **Overseas Education**

- Understanding Cost-Effectiveness.  
The Johns Hopkins Bloomberg SPH, Baltimore, USA, 25<sup>th</sup> October – 21<sup>st</sup> December 2007.
- Measurement, Design, and Analysis Methods for Health Outcomes Research  
Harvard School of Public Health, Boston, MA, USA, August 2008
- Fundamentals of Epidemiology  
University of Michigan School of Public Health, Ann Arbor, MI, USA, (Graduate Summer Session) July, 2007

### **Research & Development Experiences**

- April 2015 Scientist (Department of Health Economics), ICMR-National Institute for Research in Tuberculosis, Formerly: Tuberculosis Research Centre, Indian Council of Medical Research, Chennai.

- May 2017 Core Committee Member, Medical Technology Assessment Board (MTAB), India, Department of Health Research, Ministry of Health and Family Welfare, GoI, New Delhi.
- May 2012-15 Scientist (Department of Health Economics), ICMR-National Institute for Research in Tribal Health Formerly: Regional Medical Research Centre for Tribals, Indian Council of Medical Research, Jabalpur, Madhya Pradesh.
- 1999-2012 Health Economist (Technical Officer) in Tuberculosis Research Centre, Indian Council of Medical Research, Chennai.
- 2007 Research Fellow (Medicine), The Miriam Hospital, Brown University, Providence, RI, USA [July-December 2007]
- 1999-2007 Health Economist in Tuberculosis Research Centre, Indian Council of Medical Research, Chennai.
- 1998-1999 Research Associate in JRD TATA Eco-technology Centre, Centre for Research on Sustainable Agriculture and Rural Development, M.S.Swaminathan Research Foundation, Tharamani Institutional area, Chennai.
- 1997-1998 Health Economist (Senior Technical Assistant) in the project entitled "Economic Impact of Tuberculosis on Patients and Family" sponsored by World Health Organisation in Tuberculosis Research Centre (Indian Council of Medical Research) Chennai.
- 1997 Project undertaken as a MPS student "An Insight into the Obstetric Problems During Four Stages of Reproduction - A Study conducted in Cheetah Camp" and "Utilisation of Health Care Services in India".
- 1995 Project undertaken as a M.Phil student "Health Care Services in Rural Village - A Case Study of Thevaram".
- 1994 Chief Investigator in the project titled "Grass Root Organisation" sponsored by Karl Kubel Stiftung (Germany) in Sivagangai.
- 1992-1995 Teacher cum Deputy Warden at Vivekananda College, Thiruvedakam, Madurai.

### **Other professional roles**

1. Teaching Faculty Member for the course on "Master of Applied Epidemiology" conducted by National Institute of Epidemiology (ICMR), Ayapakkam, Chennai
2. Visiting Faculty for the short term course on "Health Economics" conducted by Community Health Department, Christian Medical College in Vellore.
3. Consultant (Health Economics) in M S Swaminathan Research Foundation (MSSRF), World Health Organisation (WHO), Sri Kannabiran Educational and Charitable (SKECH) Trust, National Institute of Epidemiology (NIE)

4. Mentoring Ph.D. students from University of Madras, Manonmaniam Sundaranar University and Post Graduate (MD) students from Madras Medical College.

### **Core Professional Training undergone**

#### **Health Economics**

7. Gained knowledge on Health Technology Assessment (HTA) by participating in the training programme on **Health Technology Assessment** organised by Department of Health Research (DHR), Ministry of Health and Family Welfare, Government of India, during 8-13<sup>th</sup> May 2017 at Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram. Kerala.
6. Participated in the National Workshop entitled “**Economic evaluation in Health care**” organised by School of Public Health, Post Graduate Institute of Medical Education and Research (PGIMER), during 30<sup>th</sup> November to 4<sup>th</sup> Dec 2015 at Chandigarh in collaboration with Public Health Foundation of India, New Delhi.
5. Participated in the Workshop entitled “**Pharmaceutical Policies in India: Balancing Industrial and Public Health Interests**” organised by the Institute for Studies in Industrial Development (ISID), Indian Council of Social Science Research (ICSSR) and Public Health Foundation of India (PHFI) during 03-07<sup>th</sup> March 2014 at New Delhi.
4. Participated in the Workshop entitled “National Health Accounting” organised by the Indian Institute of Technology, Chennai and co-sponsored by Health Economics Association of India (HEAI), Public Health Foundation of India (PHFI) and Health Systems Research India Initiative (HSRII) during 21-25 January 2013 at Indian Institute of Technology, Chennai.
3. Completed six months (June-November 2007) of advanced training in TB and HIV/AIDS Health Economics in Brown Alpert Medical School, Brown University, Providence Rhode Island, USA
2. Participated in the Workshop entitled "Costs and Benefits of Early Childhood Care and Development Programmes in Tamilnadu" organised by the M.S.Swaminathan Research Foundation, Taramani Institutional area, held during 30<sup>th</sup> Sep – 1<sup>st</sup> Oct 1999 in Chennai.
1. Participated in the Workshop entitled "Economic Basis of Health Care Interventions" organised by the Community Health Department in collaboration with Clinical Epidemiology unit, Christian Medical College held during 7-9<sup>th</sup> December 1998 in Vellore.

#### **TB control programme**

3. I gained knowledge on operational research on TB in India by participating in the National Operational research Dissemination Workshop organised by International Union Against Tuberculosis & Lung Disease, USAID and treat TB, August 26-27, 2014 in New Delhi.
2. I gained knowledge on management of TB control programme by participating in the International Course in “Management, Finance and Logistics for TB control” organised by International Union Against Tuberculosis & Lung Disease and Indian Institute of Health Management, February 7-20, 2005 in Jaipur.

1. I gained knowledge on Revised National Tuberculosis Control Programme (RNTCP) by participating “Training for Senior Treatment Supervisor” organised by Tuberculosis Research Centre (ICMR), April 15-24<sup>th</sup> 2002 in Chennai.

### **Analytical skills**

1. Learned using SPSS package for statistical analysis during my Master course in Population Studies (MPS) in International Institute for Population Sciences, Mumbai, 1997.
2. Learned using SAS package for statistical analysis by participated in the Workshop entitled "Advance in statistical computing” organised by Tuberculosis Research Centre, July 2002 in Chennai.
3. Participated in the Workshop entitled "Epi-Info and Survey, Design and Analysis” organised by World Health Organisation at Tuberculosis Research Centre, held during 8<sup>th</sup> 13<sup>th</sup> December 1999 in Chennai.
4. Gained ability to analyse RNTCP data by EPI-Centre by participating in the Workshop entitled "Epi-Centre Training” organised by World Health Organisation at Tuberculosis Research Centre, held during 10<sup>th</sup> 12<sup>th</sup> November 1999 in Chennai.
5. Familiar with the platform of NE, Word Perfect, Lotus1-2-3, Harvard Graphics. I am also using MS Office for more than 5 years. I use MS Word for writing reports, Microsoft Excel for small calculations, table & figures and PowerPoint for making slides for presentations.
6. Familiar with the following statistical packages for data analysis: Epi-Info, Epi-Info 2000, Epi-Centre, SPSS, SAS, CEPAC

### **Allied professional training undergone**

5. I gained knowledge on ‘**Data Collection Instrument Development**’ in Chennai conducted during November 2-4, 2015 organised by Samarth, Chennai.
4. I gained knowledge on ‘**Protocol Development for Systematic Reviews**’ in Delhi conducted during April 11-15, 2016 organized by the International Union Against TB and Lung Diseases, South-East Asia office, New Delhi.
3. I gained knowledge on “**Impact Evaluation of Public Health Programs**” organised by National Institute of Epidemiology, 11-15 July 2011 in Chennai.
2. I gained knowledge on “**Planning, Capacity building and performance management for human resources in the public health system**” organised by Catalyst Group of Institutions (CMS, Swati, Vrutti), Bangalore, December 2-3, 2011 in Bangalore.
1. I obtained proficiency in scientific writing through participating in the Workshop entitled “**Excellence in science writing**” organised by World Health Organisation at Tuberculosis Research Centre, March 2002 in Chennai.

## Membership in Professional Bodies

Name of the Society	Date of start	Valid till
1. Life member in Indian Public Health Association (IPA)	2022	Life member
2. Life member in Indian Economic Association (IEA)	2000	Life member
3. Life member in Health Economics Association of India (HEAI)	2007	Life member
4. Life member in Indian Health Economics and Policy Association (IHEPA)	2012	Life member
5. Life member in Indian Society for Medical Statistics (ISMS)	2007	Life member
6. Life member in Indian Association of Social Science and Health (IASSH)	2012	Life member
7. Life member in International Institute for Population Sciences Alumni Association (IIPSAA)	2019	Life member
8. Member in International Union Against Tuberculosis and Lung Diseases (IUATLD)	2012	-
9. Member of Editorial Board, Indian Journal of Tuberculosis, Tuberculosis Association of India (TAI), New Delhi.	2017	2020
10. Associate Editor in BMC Infectious Diseases, open access, peer-reviewed Journal, London	2018	2020
11. Associate Editor in the Editorial Board of Infectious Diseases–Surveillance, Prevention and Treatment specialty section of Frontiers in Medicine and Frontiers in Public Health	2021	-
12. Core Committee Member, Health Technology Assessment in India (HTAI), India, Department of Health Research, Ministry of Health and Family Welfare, GoI, New Delhi.	2018	-
13. Editorial Board Member, Plos Global Public Health, San Francisco, United States	2021	-
14. Institutional Ethics Committee Member, ICMR-National Institute for Research in Tuberculosis, ICMR, Chennai since 2017	2017	-

## Awards

2007	Fogarty Fellowship for International AIDS Training programme at Brown University, USA.
1996-97	Government of India Fellowship, International Institute for Population Sciences, Mumbai
1994	First Rank in Master's Degree in Economics in Branch III(b) at School of Economics, Madurai Kamaraj University.
1994	Professor S Krishnaswamy Labour Economics conference Endowment Fund prize for having secured the highest number of marks only in University Department, School of Economics, Madurai Kamaraj University.
1994	Professor S Krishnaswamy Labour Economics conference Endowment Fund prize for having secured the highest number of marks in paper "Labour Economics" at School of Economics, Madurai Kamaraj University.
1994	Sri Bhaktavatsalam 69 <sup>th</sup> Birthday Commemoration Prize for having secured the highest number of marks in Economics, Madurai Kamaraj University.
1993	First Place winner in Quiz competition held at Lady Doak College, Madurai.
1992	Best Behaved Student, Vivekananda College (A Gurukula Institute of Life Training), Tiruvedakam, Madurai

**Publications**

124. **M Muniyandi**, Karikalan N. Economic aspects of shortening the duration of tuberculosis treatment. *Lancet Global Health* 2024 (Accepted for publication)
123. GBD 2021 Demographics Collaborators. Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024 Mar 8;S0140-6736(24)00476-8.
122. Vasantha Mahalingam, Ramesh Santhanakrishnan, Ponnuraja Chinnaiyan, Adhin Bhaskar, Muniyandi Malaisamy, Mythily Venkatesan, Venkatesan Perumal. Latent factors affecting smoking cessation among TB and HIV patients: Bayesian Structural Equation Modeling Approach. *International Journal of Pulmonary & Respiratory Sciences* 2024; 7(1): 555703.
121. Karikalan Nagarajan, Karthikeyan Kumarswamy, Rehana Begum, Vikas Panibatla, Anil Singarajipura, Rajesham Adepu, Joseph Francis Munjattu, Senthil Sellapan, Stephen Arangba, Amrita Goswami, Reuben Swamickan, Javeed Basha, Pearl Maria Dsouza, **Malaisamy Muniyandi**. Self-driven solutions and resilience adapted by people with drug-resistant tuberculosis and their caregivers in Bengaluru and Hyderabad, India: a qualitative study. *The Lancet Regional Health Southeast Asia* 2024; 22: 100372.
120. **Muniyandi M**, Karikalan N, Kavi M, Prathiksha G, Kannan T, Rajendran K. The Predicted Potential Impact of COVID-19 Pandemic on Tuberculosis Epidemic in Tamil Nadu, South India. *Trop Med Infect Dis* 2024; 9, 12.
119. Meenu Singh, Ragini Bhatia, Madhuri Devaraju, Malkeet Singh Ghuman, **Malaisamy Muniyandi**, Anil Chauhan, Kulbir Kaur, Monika Rana, Pranita Pradhan, Shivani Saini. Cost-Effectiveness of TrueNat as Compared to GeneXpert as a Diagnostic Tool for Diagnosis of Pediatric Tuberculosis/MDR Tuberculosis under the National Tuberculosis Elimination Program of India. *Journal of Pediatric Pulmonology* 2023; 2(1): 12-17.
118. Laura Rosu, Jason Madan, Gay Bronson, Jasper Nidoi, Mamo G. Tefera, **Muniyandi M**, Bertel S Squire, Eve Worrall. Cost of digital technologies and family-observed DOT for a shorter MDR-TB regimen: a modelling study in Ethiopia, India and Uganda. *BMC Health Serv Res* 23, 1275 (2023).
117. Giridharan P, Rebecca P, Devaleenal B, Chelladurai E, Chinnaiyan P, Malaisamy M. Time elapsed from onset of symptoms to antituberculosis treatment in children with central nervous system tuberculosis in a tertiary hospital in South India: A mixed-methods pilot study. *Indian J Public Health* 2023;67:301-4
116. CK Dolla, Bhaskar D, C Padmapriyadarsini, **Muniyandi M**, T Kannan, Pradeep A Menon, Rajendran K, Kumaravel P, Vijayalakshmi R, Devika K, SP Tripathy. Prevalence of Tuberculosis Infection and Disease Among Homeless Persons Staying in NGO Shelters in Chennai. *Journal of Health Management* 2023; 25(4): 870–873.
115. Vasantha M, C Ponnuraja, **Muniyandi M**, Adhin Bhaskar, M Tamizhselvan, M Muthu Vijayalakshmi, P Venkatesan. Bayesian Structural Equation Modeling to Identify Factors Influencing Tuberculosis Treatment Adherence. *International Journal of Pulmonary & Respiratory Sciences* 2023; 6(4): 1-8.

114. **Muniyandi M.** Families affected by catastrophic costs due to tuberculosis. *Lancet Global Health* 2023; 11(10): e1492-e1493.
113. Thiruvengadam K, Krishnan R, **Muniyandi M.** The Prevalence of Self-Reported Tuberculosis in the Andaman and Nicobar Islands, India: Evidence from the NFHS-IV and V. *Trop Med Infect Dis* 2023; 8: 464.
112. Inbaraj LR, Daniel J, Rajendran P, Bhaskar A, Srinivasalu VA, Narayanan MKS, Shewade HD, Kirubakaran R, Scandrett K, **Muniyandi M**, Takwoingi Y, Padmapriyadarsini C. Truenat MTB assays for pulmonary tuberculosis and rifampicin resistance in adults. *Cochrane Database of Systematic Reviews* 2023, 1: Art. No.: CD015543.
111. Karikalan N, **M Muniyandi**, Senthil S, Srimathi K, Keerthana S, Bharathidasan P, Lavanya J, Rajendran K. A study on tuberculosis disease disclosure patterns and its associated factors: Findings from a prospective observational study in Chennai. *PLoS One* 2023; 26;18(1) :e0280812.
110. Brar S, Kaur G, **Muniyandi M**, Karikalan N, Bano H, Bhansali A, Sanjay Jain, Savita Kumari, Shankar Prinja. Cost of screening, out-of-pocket expenditure & quality of life for diabetes & hypertension in India. *Indian Journal of Medical Research* 2023; 157(6), 498-508.
109. **Muniyandi M**, Ramesh PM, Wells WA, Alavadi U, Sahu S, Padmapriyadarsini C. The Cost-Effectiveness of the BEAT-TB Regimen for Pre-Extensively Drug-Resistant TB. *Tropical Medicine and Infectious Disease* 2023; 8(8): 411.
108. Laura R, Jason JM, Ewan MT, **M Muniyandi**, Jasper N, Mamo G, Valentina V, Priyanka B, Rajdeep D, Adamu BK, Daniel MK, Narendran G, R Solanki, Anuj KB, Elena T, Bruce K, Sarah M, Andrew N, Gay B, ID Rusen, SB Squire, E Worrall. Within-trial economic evaluation of shortened, bedaquiline-containing treatment regimens for MDR/RR-TB evaluated in STREAM Stage 2. *Lancet Global Health* 2023; 11 (2), e265-e277
107. Brittney SS, Lindsey H, Hannah H, ..., **M Muniyandi**, et al. Global, regional, and national burden of hepatitis B, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The lancet Gastroenterology & hepatology* 2022; 7(9): 796-829.
106. Nagarajan K, Kumarsamy K, Begum R, Panibatla V, Reddy R, Adepu R, Munjattu JF, Sellapan S, Arangba S, Goswami A, Reuben S, **M Muniyandi**. A Dual Perspective of Psycho-Social Barriers and Challenges Experienced by Drug-Resistant TB Patients and Their Caregivers through the Course of Diagnosis and Treatment: Findings from a Qualitative Study in Bengaluru and Hyderabad Districts of South India. *Antibiotics* 2022, 11, 1586.
105. **M Muniyandi**, N Karikalan, Banurekha V, Kavitha Rajsekar, C Padmapriyadarsini. Cost Effectiveness of a Shorter Moxifloxacin Based Regimen for Treating Drug Sensitive Tuberculosis in India. *Trop Med Infect Dis* 2022; 7: 288.
104. **M Muniyandi**, Pravin Kumar Singh, Yamini A, N Karikalan, C Padmapriyadarsini. A national-level analysis of life expectancy associated with the COVID-19 pandemic in India. *Front Public Health* 2022; 10:1000933.
103. Karuna D Sagili, **M Muniyandi**, Kalpita Shringarpure, Kavita Singh, Richard Kirubakaran, Raghuram Rao, Jamhoih Tonsing, K S Sachdeva, Prathap Tharyan. Strategies to detect and manage latent tuberculosis infection among household contacts of pulmonary TB patients in high TB burden countries: a systematic review and meta-analysis. *Tropical Medicine & International Health* 2022; 1-22.

102. Sriram Selvaraju, **Malaisamy Muniyandi**, Chandra Kumar Dolla, Lakshmi Murali, Nagarajan Karikalan, Balakrishnan Saravanan, Ayyakannu Sivaprakasham Tholkappian, Srikanth Prasad Tripathy. Application of mobile phone technology as intervention for management of tuberculosis patients diagnosed through community survey. *Indian Journal of Medical Research* 2022; 155(2): 301-305.
101. Bhat J, Yadav R, Sharma RK, **Muniyandi M**, Rao VG. High incidence of pulmonary tuberculosis in an indigenous Saharia tribe in Madhya Pradesh, central India—A prospective cohort study. *PLOS Glob Public Health* 2022; 2(6): e0000039.
100. Karikalan N, Bharathidasan P, Javeed B, Lavanya J, **Muniyandi M**. A social networks-driven approach to understand the unique alcohol mixing patterns of tuberculosis patients: reporting methods and findings from a high TB-burden setting. *Humanities and Social Sciences Communications* 2022; 9: 171.
99. Rajendran K, Kannan T, Lavanya J, Sriram S, Basilea W, **Muniyandi M**, Karikalan N, S P Tripathy, Ponnuraja C, Padmapriyadarsini C. An influence of dew point temperature on the occurrence of *Mycobacterium tuberculosis* disease in Chennai, India. *Scientific Reports* 2022; 12: 6147.
98. Kaur G, Chauhan AS, Prinja S, Teerawattananon Y, **Muniyandi M**, Rastogi A, Jyani G, Nagarajan K, Lakshmi P, Gupta A, Selvam JM, Bhansali A, Jain S. Cost-effectiveness of population-based screening for diabetes and hypertension in India: an economic modelling study. *Lancet Public Health*. 2022; 7(1):e65-e73.
97. **M Muniyandi**, Senthil S, Vidya C, Karunya R, Sananthya K, KannanT, Jerard Maria Selvam, N Karikalan. Diagnostic accuracy of mercurial versus digital blood pressure measurement devices: a systematic review and meta-analysis. *Scientific Reports* 2022; 12: 3363.
96. Karikalan N, **Muniyandi M**, Bharathidasan P, Senthil S. Tracing the potential extra-household contacts of TB patients: findings from a personal social network survey in a high TB burden setting in India. *Trans R Soc Trop Med Hyg* 2022; 0: 1–3.
95. **Muniyandi M**, Karikalan N, Ravi K, Sengodan S, Krishnan R, Tyagi K, Rajsekar K, Raju S, Selvavinayagam TS. An economic evaluation of implementing a decentralized dengue screening intervention under the National Vector Borne Disease Control Programme in Tamil Nadu, South India. *Int Health* 2022: ihab045.
94. Dolla CK, Dhanaraj B, Chandrasekaran P, Selvaraj S, Menon PA, Thiruvengadam K, Rajendran K, Rajesh Mondal, **Muniyandi M**, Srinivasa BM, Lakshmi Murali, Srikanth Prasad T. Prevalence of bacteriologically confirmed pulmonary tuberculosis and associated risk factors: A community survey in Thiruvallur District, south India. *PLoS ONE* 2021; 16(10): e0247245
93. **M Muniyandi**, Malkeet Singh, Manjula Singh, Kavitha Rajshekhar, Kiran Katoch. Cost-effectiveness of incorporating *Mycobacterium indicus pranii* vaccine to multidrug therapy in newly diagnosed leprosy cases for better treatment outcomes & immunoprophylaxis in contacts as leprosy control measures for National Leprosy Eradication Programme in India. *Indian J Med Res* 2021; 154: 121-131.
92. Selvaraju S, Thiruvengadam K, Watson B, Thirumalai N, **Muniyandi M**, Vedachalam C, Swaminathan S, Padmapriyadarsini C. Long-term Survival of Treated Tuberculosis Patients in Comparison to a General Population In South India: A Matched Cohort Study. *Int J Infect Dis* 2021; 110:385-393.
91. **Muniyandi M**, Nagarajan K, Kirti T, Malkeet S, Venkatesan P, Senthilkumar S, et al. Economic evaluation of implementing a rapid point-of-care screening test for the identification of hepatitis C



- virus under National Viral Hepatitis Control Programme in Tamil Nadu, South India. *J Global Infect Dis* 2021; 13: 126-32.
90. Rao VG, **Muniyandi M**, Sharma RK, Yadav R, Jyothi Bhat. Long-term survival of patients treated for tuberculosis: a population-based longitudinal study in a resource-poor setting. *Tropical Medicine and International Health* 2021; 1-7.
  89. Vasantha M, **Muniyandi M**, Ponnuraja C, Srinivasan R, Venkatesan P. Bayesian structural equation modeling for post treatment health related quality of life among tuberculosis patients. *PLoS ONE* 2021; 16(5): e0252205.
  88. **M Muniyandi**, J Lavanya, N Karikalan, B Saravanana, S Senthil, S Sriram, Rajesh Mondal. Estimating TB diagnostic costs incurred under the National Tuberculosis Elimination Programme: a costing study from Tamil Nadu, South India. *International Health* 2021; 0: 1–9
  87. **Muniyandi M**, Kirti T, Malkeet S, Prakash V, Karikalan N, Senthilkumar S, Sananthya K, Rajendran K, Kavitha R, Vivekanandan S, Selvavinayagam TS. Economic evaluation of implementing a decentralised Hepatitis B virus diagnostic intervention under National Viral Hepatitis Control Programme in Tamil Nadu, South India. *Tropical Medicine and International Health* 2021;
  86. Laura Rosu, Jason Madan, Eve Worrall, Ewan Tomeny, Bertel Squire, on behalf of STREAM Study Health Economic Evaluation Collaborators (Mamo Girma, Vanita Patel, Makwana Mukesh, **Malaisamy Muniyandi**, Shravan Kumar, Sangeetha Subramani, Saleem Ahmad, Jasper Nidoi, Irina Pirlog, Mariana Macarie, I.D. Rusen, Gay Bronson, Meera Gurumurthy, Karen Sanders, Sarah Meredith, Andrew Nunn, Ben Spittle, Wendy Dodds, Robyn Henry-Cockles, Rachel Bennett, Elisa Giallongo, Danni Maas, Rachel Bennett, Ruth Goodall, Saiam Ahmed, Claire Cook, Katharine Bellenger, Gopalan Narendran, Bruce Kirenga, Elena Tudor, Rajesh Solanki, Daniel Meressa, Adamu Bayissa, Anuj Bhatnagar, STREAM community advisory boards). Economic evaluation protocol of a short, all-oral bedaquiline-containing regimen for the treatment of rifampicin-resistant tuberculosis from the STREAM trial. *BMJ Open* 2020; 10:e042390.
  85. Thiruvalluvan E, Sellappan S, Watson B, **Muniyandi M**. Intervention Strategies to Mitigate Psychosocial Challenges and Improve the Quality of Life of MDR-TB Patients – An Evaluation Study. *SAARC Journal of Tuberculosis, Lung Diseases & HIV/AIDS* 2020; 18(1): 22-29.
  84. Karikalan N, **Muniyandi M**, Bharathidasan P; Senthil S. Social network analysis methods for exploring SARS-CoV-2 contact tracing data. *BMC Medical Research Methodology* 2020; 20:233: 1-10.
  83. **M Muniyandi**, N Karikalan, T Kannan, B Saravanan, P. Vidhya, K Rajendran. TB diagnostic cascade among patients registered under the Revised National TB Control Programme in Chennai, South India. *Tropical Medicine and International Health* 2020; 25(5): 612-617.
  82. **M Muniyandi**, Beena E Thomas, N Karikalan, T Kannan, K Rajendran, B Saravanan, Vikram Vohra, Tuoyo Okorosobo, Knut Lönnroth, Srikanth Prasad Tripathy. Association of Tuberculosis With Household Catastrophic Expenditure in South India. *JAMA Network Open* 2020; 3(2): e1920973.
  81. **M Muniyandi**, Beena E Thomas, N Karikalan, T Kannan, K Rajendran, C K Dolla, B Saravanan, A S Tholkappian, Srikanth Prasad Tripathy, Soumya Swaminathan. Catastrophic costs due to tuberculosis in South India: comparison between active and passive case finding. *Transactions of Royal Society of Tropical Medicine & Hygiene* 2020; 1–8
  80. Jyothi Bhat, Rajiv Yadav, Ravendra K Sharma, **M Muniyandi**, Vikas G Rao. Tuberculosis elimination in India's Saharia group. *The Lancet Global Health* 2019; (7): e1618.

79. **Muniyandi M**, Rajeswari R. No families affected by tuberculosis face catastrophic costs by 2020: India's new strategic plan to eliminate tuberculosis. *Indian Journal of Tuberculosis* 2019.
78. Rao VG, Bhat J, Yadav R, Sharma RK, **Muniyandi M**. Declining tuberculosis prevalence in Saharia, a particularly vulnerable tribal community in Central India: evidences for action. *BMC Infectious Diseases* 2019; 19:180
77. Chandra Kumar Dolla, Baskaran Dhanraj, **Muniyandi Malaisamy**, C Padma Priyadarshini, S Syeed Hissar, Mohan Natrajan, Rajendran Krishnan, Srikanth Prasad Tripathy. Burden of pulmonary tuberculosis in modern prison: A cross sectional prevalence survey from south India. *Indian Journal of Tuberculosis* 2019; 66: 189-192.
76. Rohit Sarina. Vikram Vohra, Neeta Singla, Beena Thomas, Rajendran Krishnan, **Malaisamy Muniyandi**. Identifying costs contributing to catastrophic expenditure among TB patients registered under RNTCP in Delhi metro city in India. *Indian Journal of Tuberculosis* 2019; 66(1): 150-157.
75. Karuna DS, **M Muniyandi**, Kayzad SN, Kalpita SS, Srinath S, Richard K, Sarabjit SC, Prathap T. Cost-effectiveness of GeneXpert and LED-FM for diagnosis of pulmonary tuberculosis: A systematic review. *PLoS ONE* 2018; 13(10): e0205233.
74. Rajeswari Ramachandran, **M. Muniyandi**. Towards Improved Treatment Outcomes for Tuberculosis Meningitis - Rethinking the Regimen. *J Neurol Neurosurg* 2018; 8(2): 1-6.
73. VG Rao, J Bhat, R Yadav, RK Sharma, M Muniyandi; A comparative study of the socio-economic risk factors for pulmonary tuberculosis in the Saharia tribe of Madhya Pradesh, India, *Transactions of The Royal Society of Tropical Medicine and Hygiene* June 2018; 00:1-7.
72. Dolla CK, Padmapriyadarsini C, Pradeep Menona A, **Muniyandi M**, Srividya Adinarayanan, Gomathi Sekar, D Kavitha, Srikanth Prasad Tripathy, Soumya Swaminathan. Tuberculosis among the homeless in Chennai city, South India. *Trans R Soc Trop Med Hyg* 2018; 00: 1–3.
71. Rao VG, **Muniyandi M**, Bhat J, Yadav R, Sharma R. Research on tuberculosis in tribal areas in India: A systematic review. *Indian Journal of Tuberculosis* 2018; 65: 8-14.
70. Jyothi Bhat, VG Rao, RK Sharma, **M Muniyandi**, Rajiv Yadav, MK Bhondley. Investigation of the risk factors for pulmonary tuberculosis: A case–control study among Saharia tribe in Gwalior district, Madhya Pradesh, India. *Indian J Med Res* 2017; 146: 97-104.
69. Rajeswari Ramachandran, **M. Muniyandi**. Rapid molecular diagnostics for multi-drug resistant tuberculosis in India. *Expert Review of Anti-infective Therapy* 2017; 1-8.
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17. R Balasubramanian, Rajeswari R, **M Muniyandi**. Investigation of tuberculosis outbreaks including MDR. Chapter-42 in the book titled *Manual on tuberculosis HIV and lung diseases: A practical approach*, Published by JAYPEE, New Delhi, 2006. (Edited by VK Arora, Raksha Aroa)
16. **M Muniyandi**, Rajeswari R, R Balasubramanian. An economic commentary on the occurrence and control of HIV/AIDS in developing countries: special reference to India. *Expert Opinion on Pharmacotherapy [Editorial]* 2006; 7(18): 2447-54.
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11. **M Muniyandi**, Rajeswari R, R Balasubramanian. Estimating provider cost for treating patient with tuberculosis under Revised National Tuberculosis Control Programme (RNTCP). *Indian Journal of Tuberculosis* 2006; 53: 12-17.

10. Mohanarani Suhadev, Soumya Swaminathan, S Rajasekaran, Beena E Thomas, N Arunkumar, **M Muniyandi**, D Meenalochani. Feasibility of community DOT providers for tuberculosis treatment in HIV infected individuals – A pilot study. *Indian Journal of Tuberculosis* 2005; 52: 179-183.
9. **M Muniyandi**, Rajeswari Ramachandran, Rani Balasubramanian. Costs to patients with tuberculosis treated under DOTS programme in south India. *Indian Journal of Tuberculosis* 2005; 52: 188-196.
8. Beena E Thomas, Suryanarayanan D, **Muniyandi M**, Meenalochani Dilip, Rajasekaran S, Soumya Swaminathan. Is awareness of HIV enough to alter high-risk behaviour? What do HIV positive individuals have to say? A study from South India. *SAARC Journal of TB, Lung Diseases & HIV/AIDS* 2005; 1(2):1-9.
7. Geetharamani Shanmugam, **M Muniyandi**, Kalaiselvi Mani. Perceptions on tuberculosis and its cure among the government welfare sector providers in Chennai city, South India. *SAARC Journal of TB, Lung Diseases & HIV/AIDS* 2005; 1(2):39-45.
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4. Thomas BE, Rehman F, **M Muniyandi**, Dilip M, Suhadev M, Priyadarsini P, Purushotham NK, Swaminathan S. A study of condom acceptability among men in an urban population in South India. *AIDS and Behaviour* 2004; 8(2): 215-220(6).
3. **M Muniyandi**, R Rajeswari. Tuberculosis and poverty. *ICMR Bulletin* 2002; 32(3).
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### *Manuscripts under review*

1. M Vasantha, S Ramesh, M Muniyandi, C Ponnuraja, P Venkatesan. Randomised Clinical Trial on Smoking Cessation among persons infected with Tuberculosis or Human Immunodeficiency Virus: Bayesian Structural Equation Model Approach. *Statistics in Medicine*
2. Anna Salomi K, Karunya R, Manickam P, Muniyandi M, Bhavani Shankara B, Krushna Chandra Sahoo, Madan Mohan Pradhan. Cost-effectiveness analysis of malaria elimination and control strategies in Odisha, India.
3. Jyothi Bhat, RK Sharma, Rajiv Yadav, Muniyandi M, Prashant Mishra, Samridhi Nigam, Mercy Aparna Lingala, Vikas G Rao. Reducing TB prevalence through community-based approaches: Observations from a pre- and post-intervention survey in high TB burden disadvantaged community in central India.

### **Book published**

1. Malaisamy Muniyandi. Economic and health status of TB patients covered under TB programme. LAP LAMBERT Academic Publishing AG & Co. KG, Germany 2010. ISBN: 978-3-8383-4271-9.

## **Presentations**

### ***Invited papers/presentations***

40. M. Muniyandi. Economic aspects of Tuberculosis Control in India Invited as a resource person to deliver lecture in the Student Orientation Programme for medical student organised by ICMR-National Institute for Research in Tuberculosis Chetput, Chennai on 17<sup>th</sup> November 2023.
39. M. Muniyandi. Role of Economic Theories & Policies and Econometric Models in the Acceleration of Economic Development Invited as a resource person to deliver lecture in the Refresher Course in Economic and Econometrics organised by Department of Economics, University of Madras, Chepauk, Chennai on 27<sup>th</sup> November 2023.
38. M. Muniyandi. Health Technology Assessment and its role decision making in India Invited as a resource person for the national seminar on Health Technology Assessment organised by P.G. & Department of Economics, Presidency College Chepauk, Chennai on 4<sup>th</sup> October 2023.
37. M. Muniyandi. Health Technology Assessment for evidence based decision making Invited as a resource person for Prof. A. M. Nalla Gounden Endowment Lecture 2022-23 organised by Department of Economics, University of Madras, Chepauk, Chennai on 27<sup>th</sup> March 2023.
36. M. Muniyandi. Costing and measurement of costs, Cost adjusting and reporting of results Invited as a , a resource person/speaker at the National Conference on Research in Health and Biomedical Sciences organised by the Faculty of Health Sciences, Symbiosis International Deemed University, Lavale, Pune on 3rd November 2023.
35. M. Muniyandi. The tools and procedures used to collect data. Invited as a resource person for Research Protocol writing workshop organised by Dr.Kamakshi Institute of Medical Sciences and Research, Chennai on 1<sup>st</sup> May 2022.
34. M. Muniyandi. Cost effectiveness of population based screening for diabetes and HTN in India. Invited as a resource person for national seminar on Consequences of pandemic outbreak on Indian economy organised by the Department of Economics, Vivekananda College, Thiruvudkam West, Madurai on 29<sup>th</sup> March 2022.
33. M. Muniyandi. Participated 11<sup>th</sup> National Conference on One Health Initiative on the prevention and control of emerging and re-emerging zoonotic diseases organised by Millennium India Education Foundation (MIEF), Vardhman Mahavir Medical College & Safdarjung Hospital New Delhi and Seth G S Medical College & KEM Hospital Mumbai held on 6<sup>th</sup> July 2021.
32. M. Muniyandi. Invited as a Chairperson in the World Population Day Students Seminar organised by the Department of Economics, Vivekananda College, Tiruvudakam West, Madurai District on 12<sup>nd</sup> July 2021.
31. M. Muniyandi. **“Economic dimensions of TB and MDR TB in India”** invited to deliver a lecture in a virtual symposium on **“Leveraging social sciences in the global fight against Tuberculosis: Sharing experiences from across the Globe”** jointly organised by ICMR-NIRT, Chennai and Sonar Global, a network of social science researchers Institute Pasteur, Paris on 19<sup>th</sup> April 2021.



30. M. Muniyandi. **“Economic aspects of TB control in India”** invited to deliver a lecture in Vivekananda College, Thiruvedakam, Madurai on 20 February 2021.
29. M. Muniyandi. **“Economic Consequences due to COVID-19 Pandemic in India”** invited to deliver a lecture in Vivekananda College, Thiruvedakam, Madurai on 20 February 2021.
28. M. Muniyandi. **“Health Economics studies under the Model DOTS Project”** Research Dissemination Workshop on “Operational Research findings from the Model DOTS project (1999-2014)” Jointly organised by WHO, USAID in National Institute for Research in Tuberculosis, ICMR, Chennai during 2-3 September 2014.
27. M. Muniyandi. **“Risk factors and social determinants of TB”**. Workshop on “Tuberculosis: Tribal Perspective” Jointly organised by International Union Against TB and Lung Diseases, Central TB Division, Ministry of Health and Family Welfare, Government of India, Indian Council of Medical Research in Regional Medical Research Centre for Tribals, ICMR, Jabalpur during 21-22 June 2014.
26. M. Muniyandi. **“Addressing tuberculosis control in the context of promoting economic growth”**. Third Conference on “Health for all to universal health coverage: Journey so far and challenges ahead” organised by Indian Health Economics and Policy Association in Gokhale Institute of Politics and Economics, Pune during 6-7 January 2014.
25. M. Muniyandi. **“Economic benefits of DOTS strategy to patients with tuberculosis after five years of implementation of RNTCP”**. Second National conference on health system organised by Health Economics Association of India and SRM University, Chennai during 29-31 May 2013.
24. M. Muniyandi. **Status of Madhya Pradesh’s Revised National Tuberculosis Control Programme**. National Seminar on “Population, Health and Environment” organised by International Institute for Population Sciences (IIPS), Mumbai and Indian Institute of Forest Management (IIFM), Bhopal during 21-23 March 2013 in Bhopal.
23. M. Muniyandi. **Economics of tuberculosis Control**. International seminar on “Health Economics, perspectives, awareness and challenges” at PG Department of Economics and Research Centre, Pope’s College, Sawyerpuram 7-8<sup>th</sup> February 2013 in Thoothukudi, Tamilnadu.
22. M. Muniyandi. **Health Economics: Status, Perspectives and Challenges in India**. International seminar on “Health Economics, perspectives, awareness and challenges” at PG Department of Economics and Research Centre, Pope’s College, Sawyerpuram 7-8<sup>th</sup> February 2013 in Thoothukudi, Tamilnadu.
21. M. Muniyandi. **Empowerment of tribal women for health development: An Indian perspective**. 9<sup>th</sup> conference of Indian Association for Social Sciences and Health on “Health, Gender and inclusive development” at centre for Development studies, Tata Institute of Social Sciences, 24-26<sup>th</sup> November 2011 in Mumbai.
20. Vidya Ramachandran, M. Muniyandi, K Kanagasabai, V Selvaraj1, MD Gupte. **Impact of Chikungunya virus infection on health related quality of life (HRQoL) assessed with the SF-36: A case control study from south India**. 29<sup>th</sup> Annual conference of Indian Society for Medical Statistics organised by National Institute for Research in Tuberculosis, 3-5<sup>th</sup> November

2011 in Chennai.

19. M. Muniyandi. **Role of computers in Research.** Invited speaker for the Science writing workshop for Ph.D Scholars, conducted by the research department of Saveetha University, Poonamallee, Chennai, during 6-7 December 2010.
18. M Muniyandi. **Linkage between tuberculosis and alcoholism.** Invited speaker for the Second International Conference on Alcohol and HIV: Insights from Interventions organized by The International Center for Research on Women, Institute for Community Research, Public Health Foundation of India and National Institute on Alcohol Abuse and Alcoholism during September 28 – 30, 2010, New Delhi.
17. M. Muniyandi. **Social determinants of tuberculosis - Experiences from Tuberculosis Research Centre, Chennai, India.** Invited speaker for the National Conference on “Demographic Convergence, Demographic Dividend, Population Ageing and Implications for Health and Socio-Economic Transformations: Special focus on South Indian States” organized by International Institute for Population Sciences, Mumbai, during 25-27 March 2010 in Chennai, Tamil Nadu.
16. M. Muniyandi. **Social consequences of tuberculosis: Review of Tuberculosis Research Centre studies.** Invited speaker for the Golden Jubilee National Seminar on “Human Rights and Social Policy in India” organised by Udaipur School of Social Work, Janardan Rai Nagar Rajasthan Vidyapeeth (Deemed-to-be-University) Udaipur Pratapnagar, Udaipur during 19-20 February 2010.
15. M. Muniyandi. **Ensuring equity and access for new TB diagnostics.** Invited speaker for the 40<sup>th</sup> Union World Conference on Lung Health, 3–7 December 2009, Cancun, Mexico
14. M. Muniyandi. **Tuberculosis among Adolescents and Youth in India.** National Seminar on "Adolescents and Youth: Perspectives and Emerging Issues" organised by Bharathiar University, Coimbatore during January 24-25, 2007.
13. M. Muniyandi. **Socio-economic dimensions of tuberculosis control in India.** International conference on Emerging Population Issues in the Asia-Pacific Region: Challenges for the 21<sup>st</sup> Century organised by International Institute for Population Sciences, Mumbai during December 10-13, 2006.
12. M. Muniyandi. **Prevalence of Tuberculosis in different Economic strata – estimates based on community survey from south India.** 23<sup>rd</sup> Annual national conference of Indian Society for Medical Statistics (ISMS) organised by JN Medical College, January 20-22, 2006 in Belgaum, Karnataka.
11. M. Muniyandi. **Revised National Tuberculosis Control Programme (DOTS) in India.** International Course in “Management, Finance and Logistics for TB control” organised by International Union Against Tuberculosis & Lung Disease and Indian Institute of Health Management, February 7-20, 2005 in Jaipur.
10. M. Muniyandi. **Patients’ costs in DOTS India.** Second Research Dissemination Workshop organised by World Health Organisation and Tuberculosis Research Centre (ICMR), Chennai during 19-20 January 2005.

9. M. Muniyandi. **Indian population policy 1950-2000 with special reference to health care.** 87<sup>th</sup> Annual conference of the Indian Economic Association held at Banaras Hindu University, Varanasi during 21-23 December 2004.
8. M. Muniyandi. **Impact of external aid on tuberculosis control programme in India.** 8th East Asia Regional Scientific Meeting of International Epidemiological Association held at Jhansi (UP), India on 5-8<sup>th</sup> December 2004.
7. M. Muniyandi. **Economic impact of tuberculosis on patients and families in India.** 2<sup>nd</sup> International Conference of Economics and Human Biology, Organised by University of Munich, Germany during 2-6 June 2004, Munich, Germany.
6. M. Muniyandi. **Environmental risk factors for tuberculosis in Tamil Nadu.** Annual Conference of Indian Association for the study of Population, Organised by Annamalai University, Chidambaram during 09-11 February 2004, Chidambaram.
5. M. Muniyandi. **Estimating unit provider cost for treating patient with tuberculosis treated under RNTCP.** 58th National Conference on Tuberculosis and Chest Diseases, Organised by TB Association of India and K J Somaiya Hospital and Research Centre, Ayurvihar, Mumbai during 01-04 January 2004, Mumbai.
4. M. Muniyandi. **Role of TB control programme in alleviating poverty in India.** 21<sup>st</sup> Annual conference of Indian Society for Medical Statistics (ISMS), Organised by Indian Council of Medical Research (ICMR) & Desert Medicine Research Centre, Jodhpur, during 28-30 November 2003, Jodhpur.
3. M. Muniyandi. **DOTS - costs saving to patients with tuberculosis in south India.** XX<sup>th</sup> Annual conference of Indian Society for Medical Statistics (ISMS), Organised by Institute for Research in Medical Statistics (ICMR) & Dept of Bio statistics, All India Institute for Medical sciences, New Delhi, during 19-22 Dec 2002, New Delhi.
2. M. Muniyandi. **An assessment of costs to patients with tuberculosis in a DOTS area of south India.** 57<sup>th</sup> National conference on TB & Chest diseases, Organised by TB Association of India, New Delhi and TB Association of Goa, during 26-29 Sep 2002, Goa.
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## DECLARATION

I hereby declare that all the particulars given above are authentic and to the best of my belief and knowledge.

**(M.MUNIYANDI)**