

CURRICULUM VITAE

SUMMARY:

A brief sketch (of Dr. S.B.Sarmukaddam) : He is M.Sc. in Biometry from Department of Statistics, University of Pune; D.B.S. (P.G. Diploma in Biostatistics) from ICMR's Institute for Research in Medical Statistics, New Delhi; M.P.S. (Master of Population Studies) from International Institute for Population Sciences, Bombay; and **Ph.D. in Biostatistics** (topic: Some Inferential Problems in Epidemiology) from School of Health Sciences, University of Pune. He has taught Biostatistics in many Medical Colleges/institutions & Universities (including National Institute of Mental Health and Neuro Sciences, Bangalore and Institute for Research in Medical Statistics [presently known as National Institute of Medical Statistics], New Delhi, as permanent faculty member for 3 years each & at Pune University as guest faculty for 5 years). On special invitation, he also lectured at Lawrence Education Center of Borgess Medical Center (arranged by Department of Community Health) of University of Michigan, USA in their 'grand rounds'. His presentation during International Biometric Conference (16-21 July 2006) held at McGill University, Montreal, Quebec, Canada and at many places of academic interest in London, UK (on "Need For and Modifications in Clinical Trial Methodology for Evaluation of Indigenous Treatments/Medicinal Drugs") was appreciated. He also participated on invitation in symposium on "Controversies in Clinical Trials" (2-3 August, 2010) and in 11th International Congress of Behavioral Medicine (4-7 August, 2010) organized by NIH's National Heart Lung and Blood Institute with Rush University Medical Center at Grand Hyatt Washington, USA.

He has more than 50 scientific publications in peer reviewed international journals (including Lancet, i, 14th January 1989, pp85-88; Acta Psychiatrica Scandinavica, vol.74, 1986, pp183-186; Annals of Natl. Acad. Med. Sci., vol.32, 1996, pp177-184; Medical Teacher, vol. 23, No. 1, 2001, pp 102-103; Soc. Psychiatry and Psychiatric Epidemiology, vol. 42, 2007, pp 561-572; The British Journal of Psychiatry, vol.195, 2009, pp368-371; Transcultural Psychiatry, vol. 48, No. 3, 2011, pp 257-283; Oxford Journal for the British Society for Rheumatology, vol. 299, 2013, pp 258-268; Clinical Rheumatology, doi:10.1007/s10067-011-1809-z; Evidence-Based Complementary and Alternative Medicine, doi:10.1155/2011/724291; etc) and has more than 80 total number of publications/conference presentations to his credit. He reviewed articles for journals like Bulletin of WHO, Int. Jr. eCAM, AJP, IJMR, Clinical Rheumatology, etc. A co-authored book entitled "**Medical Biostatistics**" is published in 2001 by a New York (USA) based publisher Marcel Dekker, Inc. [later taken-over by Taylor & Francis group]. This book consisting of 664 pages has ISBN: 0-8247-0426-6. As only author, a famous medical books publisher namely Jaypee Brothers Pvt. Ltd., New Delhi, published a book entitled "**Fundamentals of Biostatistics**" in 2006. This book/volume being very different from the earlier one consisting of 266 pages has ISBN: 81-8061-814-5. Another book consisting of 412 pages entitled "**Biostatistics - Simplified**" is published in 2010 by the same publisher has ISBN: 978-81-8448-748-0. A new book entitled "**Clinical Biostatistics**" is published in 2013 by New Age International Publishers, New Delhi, with ISBN: 978-81-224-3047-9, pp287. Completed working on a new book titled as "**Methods & Controversies in Clinical Trials**" and to be published by Centre for Behavioral Medicine, Pune very soon.

He has been awarded a gold medal and Prof. B.G.Prasad award-1987 " by the Indian Society for Medical Statistics, for best published paper (of the year) on Statistics applied to Epidemiology. He is a member/member secretary of many of the 'Institutional Ethics

Committee', member of 'Scientific/Research Advisory Committee', Ph.D. Advisory Committee and many 'DSMBs'. He has also worked in a tribal area for 2 years. He was involved in planning, monitoring, analyzing and report writing activities of many national level studies/trials and sample surveys. He has developed and used many innovative gazettes/models for teaching few difficult concepts in statistics to medical fraternity. Two workbooks prepared by him are in use at a medical college and University's School of Health Sciences for Biostatistics/Biometry practical. He participated in relevant activities of Indian Statistical Institute, Calcutta (a premier institute of statistics in world) like workshop on population genetics (1980), summer school on recent advances in computerized methods of data analysis (1982), A data analysis workshop for medical scientists (1985, as invited consulting biostatistician), Genetic Epidemiologic Methods for Dissection of Complex Human Traits (2009, in collaboration with University of Pittsburgh, USA).

Recently (31.07.2015) retired from Maharashtra Institute of Mental Health, B.J. Medical College & Sassoon Hospital Campus, Pune, India. For any more information, please see his web site: <http://sites.google.com/site/sanjeevsarmukaddam/>

E-mail ID : sanjeev.sarmukaddam@gmail.com

CURRICULUM VITAE (in more detail)

BIOGRAPHICAL

NAME : SANJEEV BALWANT SARMUKADDAM
DATE OF BIRTH : JULY 30, 1957
ADDRESS : 25, SANGEET SADHANA
KRISHNA COLONY, 11TH LANE
PARAMHANS NAGAR, OFF PAUD ROAD
PUNE - 411 038, INDIA
(Phone : +91-020-25394484)
MARITAL STATUS : MARRIED

EDUCATIONAL

| DEGREE / DIPLOMA | YEAR OF PASSING | INSTITUTION/ UNIVERSITY | SUBJECT (S) | GRADE / % OF MARKS | RANK / MERIT POSITION |
|---------------------------------------|-----------------|-------------------------|--------------------------------|--------------------|-----------------------|
| Ph.D. | 1999 | PUNE UNI. | BIOSTAT.* | - | - |
| MPS (Master of Population Studies) | 1997 | IIPS MUMBAI | POPULATION SCIENCES | - | - |
| DBS Diploma in Biostat. | 1981 | ICMR NEW DELHI | BIOSTAT.** | “A” Grade | I ST |
| M.Sc. | 1980 | PUNE UNI. | BIOMETRY | 64.7 % | II ND |
| B.Sc. | 1978 | NAGPUR UNI. | Botany Zoology Chemistry | 53.0 % | - |
| S.S.C. | 1973 | NAGPUR BOARD | Mathematics Science | 71.0 % | - |

BIOSTAT. = Biostatistics

* Topic : Inferential Problems in Epidemiology

Title : Some Biostatistical Applications to Important Problems in Health Sciences

** A project report, entitled “Application of Linear Programming in Nutrition” and a dissertation, entitled “Ecological Determinants of some Indicators of Health and Growth of Indian Population - A Biometric Exposition” submitted as a part of course work of Diploma in Biostatistics.

AWARD

Awarded “PROF. B.G. PRASAD AWARD - 1987” (which includes **Gold Medal**) by the Indian Society for Medical Statistics, for the following paper :

“A Comparison of Statistical Tests for Seasonality”
NIMHANS Journal, Vol.5, No.1, January 1987, pp 53-58.

This award is given to the best published paper (of the year) on Statistics applied to Epidemiology.

ACADEMIC APPOINTMENTS

| PERIOD | PLACE | POSITION |
|---|---|--|
| 15 TH Dec. 1981 to 17 TH Aug. 1983 | Institute for Research in Medical Statistics (ICMR), New Delhi. | Asst. Research Officer |
| 22 ND Aug. 1983 to 13 TH Aug. 1986 | National Institute of Mental Health And Neuro Sciences, Bangalore. | Lecturer (Assistant Professor) in Biostatistics |
| 1 ST Sept. 1986 to 10 TH Aug. 1988 | Society for Education, Action and Research in Community Health, Gadchiroli. | Biostatistician |
| 16 TH Aug. 1988 to 31 ST Mar. 1990 | Indian Institute of Education, Pune. | Research Officer |
| 2 ND Apr. 1990 to 31 ST Sept. 1990 | Foundation for Research in Community Health, Pune. | Research Officer |
| 1 ST Oct. 1990 to 31 ST Dec. 1990 | International Leprosy Union, Pune. | Research Officer |
| 1 ST Jan. 1991 to 30 TH June 1995 | Bharti Vidyapeeth’s Medical College, Pune. | Lecturer in Biostatistics |
| 1 ST July 1995 to 31 ST July 2015 | Maharashtra Institute of Mental Health, B.J.Medical College & Sassoon Hospital Campus, Pune. | Biostatistics Consultant |

Note: Recently (31.07.2015) retired from Maharashtra Institute of Mental Health, B.J.Medical College & Sassoon Hospital Campus, Pune, India.

Membership of Professional Societies

1. International Biometric Society
2. Indian Statistical Institute
3. Indian Society for Medical Statistics
4. Bhandarkar Oriental Research Institute
5. International Epidemiological Association (IEA)

Participation in Workshops / Summer Schools / Symposia / Conferences

1. Workshop on “Statistical Methods in Human Population Genetics” at Indian Statistical Institute, Culcutta (Sept. / Oct. 1980).
2. Summer School on “Recent Developments in Computerised Methods of Data Analysis” organised by Indian Statistical Institute, Culcutta at Mysore University, Mysore (May / June 1982).
3. Second Annual Conference of the Indian Society for Medical Statistics at K.G.’S Medical College, Lucknow (Nov. 1984).
4. Workshop on “Data Analysis for Medical Sciences” at Indian Statistical Institute, Culcutta (Nov. 1985). Participated as invited consulting Biostatistician.
5. Symposium on “Medical Statistics Teaching and Research” at National Institute of Mental Health And Neuro Sciences, Bangalore (Nov. 1986).
6. Fourth Annual Conference of the Indian Society for Medical Statistics at National Institute of Mental Health And Neuro Sciences, Bangalore (Nov. 1986).
7. Symposium on “ Statistics in Mental Health Research” at National Institute of Mental Health And Neuro Sciences, Bangalore (Nov. 1986).
8. Workshop on “Use of Micro-Computers in Primary Health Care” at Indian Institute of Management, Ahmedabad (Sept. 1987).
9. Fifth Annual Conference of the Indian Society for Medical Statistics at Govt. Medical College, Srinagar (Sept. 1987).
10. Sixth Annual Conference of the Indian Society for Medical Statistics at National Institute of Nutrition, Hyderabad (Oct. 1988).
11. Eleventh Annual Conference of the Indian Society for Medical Statistics at Andhra University, Visakhapatnam (Oct. 1993).
12. Workshop on “Case-Control Studies” at Christian Medical College, Vellore (December 1996).
13. Workshop on “Health Oriented Medical Education” at Dept. of PSM, B.J. Medical College, Pune (March 1992).
14. Joint Conference of International Biometric Society (Indian Region) & ISMS, at NIMHANS, Bangalore (Dec. 1999).
15. Workshop on “Epidemiology and Public Health” at Interdisciplinary School of Health Sciences, University of Pune, Pune (November 2001).
16. International Biometric Conference held at McGill University, Montreal, Quebec, Canada (July 2006).
17. Workshop on “Clinical Trials, Diagnostic Tests & Cluster Design” at Christian Medical College, Vellore (June 2008).

18. Workshop on “Genetic Epidemiological Methods for Dissection of Complex Human Traits” at TCG-ISI Centre for Population Genomics, Kolkata (February 2009).
19. Symposium on “Controversies Clinical Trials” at Grand Hyatt Washington, Washington DC, USA, organised by NIH’s National Heart Lung and Blood Institute and Rush University Medical Center (2-3 August 2010).
20. International Congress of Behavioral Medicine at Grand Hyatt Washington, Washington DC, USA, (4-7 August 2010).

PUBLICATIONS

Out of many scientific publications (more than 50 in peer reviewed international journals, total Publications/Presentations being more than 80), only major publications are listed below:

1. **Sarmukaddam S.** (2001)
Sample size versus choice of appropriate sampling design
Medical Teacher, Vol. 23, No. 1, pp 102-103.
2. Parlikar V., **Sarmukaddam S.**, Agashe M. and Weiss M.G. (2007)
Diagnostic concordance of neurasthenia spectrum disorders in Pune, India
Soc. Psychiatry and Psychiatric Epidemiology, 42, pp 561-572.
3. **Sarmukaddam S.**, Chopra A, Tillu G. (2010)
Efficacy and safety of Ayurvedic medicines: Recommending equivalence trial design and proposing safety index.
Int J Ayurveda Res 2010;1:175- 80.
4. **Sarmukaddam S.** (2012)
Interpreting “statistical hypothesis testing” results in clinical research.
Journal of Ayurveda & Integrative Medicine; 3 (2):65-69.
5. **Sarmukaddam S.** and Garad S.G. (2004)
On Validity of Assumptions while Determining Sample Size
Indian Journal of Community Medicine, Vol. XXIX, No.2, pp 87-91.
6. Paralikar VP, Weiss MG, Agashe M, and **Sarmukaddam S.** (2009)
Diagnosing chronic fatigue syndrome, Br J Psychiatry, 195(4), pp 369.
7. Indrayan A. and **Sarmukaddam S.** (1996)
Statistical Assessment of Quality of Medical Care in a Hospital
Annals of Natl. Acad. Med. Sci., Vol. 32, pp 177-184.

8. Chopra A, Saluja M, Tullu G, **Sarmukaddam S.**, Venugopal A, et al. (2012)
Ayurvedic medicine offers a good alternative to glucosamine and celecoxib in the treatment of symptomatic knee osteoarthritis: a randomized double blind controlled equivalence drug trial.
Rheumatology 2012; doi: 10.1093/rheumatology/kes414.
9. Bang R.A., Bang A.T., Baitule M., Chaudhary Y. and **Sarmukaddam S.** (1989)
High Prevalence of Gynaecological Diseases in Indian Rural Women
The Lancet , i, 14TH January 1989, pp 85-88.
10. **Sarmukaddam S.** and Rao S. (1989)
Statistical Tests for Seasonality and Their Efficiencies
In : Biostatistics - Issues in Medical Research,
NIMHANS, Bangalore, pp 29-36.
11. Sahu R.N. and **Sarmukaddam S.** (1987)
Evidences on Prevalence, Sex and Age Difference in Tardive Dyskinesia
(On Meta Analysis)
NIMHANS Journal, Vol. 5, No.1, pp 47-52.
12. Roy D.K., Rao P.S.S.N.V.P., Chaturvedi D.K., Gupta B., Roy B.K.
and **Sarmukaddam S.** (1986)
A Control Study with Di-glycine containing Oral Rehydration Solution in
Infantile Diarrhoea
In : Proceedings of the Data Analysis Workshop for Medical Sciences,
Indian Statistical Institute, Culcutta, pp 57-67.
13. Chaturvedi S.K. and **Sarmukaddam S.** (1986)
Prediction of Outcome of Depression by Negative Symptoms
Acta Psychiatrica Scandinavica, Vol. 74, pp 183-186.
14. Paralikar V, Agashe M, **Sarmukaddam S.**, et al. (2011)
Cultural epidemiology of neurasthenia spectrum disorders in four general
hospital outpatient clinics of urban Pune, India.
Transcultural Psychiatry, 48(3), pp 257 - 283.
15. Chopra A, Saluja M, Lagu-Joshi V and **Sarmukaddam S.** (2008)
Leflunomide (AravaTM) is a useful DMARD in Indian (Asian) patients: a
clinic-based observational study of 1-year treatment
Clinical Rheumatology, DOI 10.1007/s10067-008-0897-x
16. **Sarmukaddam S.** (2001)
On Potentials of PRE
In : Statistical Methods and Applications in Biology and Medicine
NIMHANS, Bangalore, pp 167-177.

17. **Sarmukaddam S.** and Kharshikar A.V. (1990)
Sample Size for Pre-Measure and Post-Measure Panel Type Prevalence Study
In : Statistics in Health and Nutrition,
National Institute of Nutrition, Hyderabad, pp 402-406.
18. Paralikar V, **Sarmukaddam S**, Patil K, Nulkar A, & Weiss M (2015)
Clinical value of the cultural formulation interview in Pune, India
Indian J Psychiatry 2015;57:59-67.
19. Singh H, Dahale A, **Sarmukaddam S** & Chaturvedi S. (2013)
Readmission of psychiatric patients in India: sociodemographic factors
International Journal of Culture and Mental Health
<http://dx.doi.org/10.1080/17542863.2013.835330>
20. Chopra A, Saluja M, Tillu G, Venugopalan A, **Sarmukaddam S**, et al. (2011)
A Randomized Controlled Exploratory Evaluation of Standardized Ayurvedic
Formulations in Symptomatic Osteoarthritis Knees:
A Government of India NMITLI Project
Evidence-Based Complementary and Alternative Medicine,
DOI:10.1155/2011/724291
21. Tillu G, Chopra A, **Sarmukaddam S**, Tharyan P. (2015) Ayurveda interventions
for rheumatoid arthritis (Protocol). Cochrane Database of Systematic Reviews
2015, Issue 3. Art. No.: CD011569. DOI: 10.1002/14651858.CD011569. [Link:
<http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD011569/full>]

BOOKS

1. A co-authored book entitled “Medical Biostatistics” is published in 2001 by a world famous New York (USA) based publisher Marcel Dekker, Inc. [later taken-over by Taylor & Francis group]. This book consisting of 664 pages has ISBN: 0-8247-0426-6.
2. A book (only author) entitled “Fundamentals of Biostatistics” is published by a medical publisher namely Jaypee Brothers Pvt. Ltd., New Delhi in 2006. This title is entirely different from the earlier one and has ISBN: 81-8061-814-5.
3. Another book consisting of 412 pages entitled “Biostatistics - Simplified” is published by the same publisher (Jaypee Brothers Pvt. Ltd., New Delhi), has ISBN: 978-81-8448-748-0.
4. A book entitled “Clinical Biostatistics” is published by New Age International Publishers, New Delhi, in 2013 has ISBN: 978-81-224-3047-9, pp287.

5. A new book tentatively titled as “Methods & Controversies in Clinical Trials” is shortly to be published by Centre for Behavioural Medicine, Pune.

Following three chapters are authored in “Biostatistics: A Manual of Statistical Methods for Use in Health, Nutrition and Anthropology” Editor: K Visweswara Rao” to be published shortly

1. Principles and practice of Statistics in Epidemiology
2. Trends in applications of Biostatistical Methods in Epidemiology
3. On Bias, Confounding, Interaction and Effect Modification in Medical Research

Chapters in “Biostatistics in Brief” to be published by Society for Advancement in Statistics, Hyderabad

1. Efficiency of chi-square test and alternatives — some case studies
2. Some quantitative aspects of clinical reasoning

OTHER ACADEMIC QUALIFICATIONS / ACTIVITIES

1. Successfully completed a course in “case-control study designs” conducted by Epidemiology Resource Centre, Christian Medical College, Vellore.
2. Used to teach at School of Health Sciences, University of Pune. Examiner, Paper-setter, and Evaluator for M.Sc. (Health Sciences).
3. Prepared a “Workbook of Biostatistics” for medical students. It is in use at B.V.Medical College, Pune.
4. Completed course on “Statistical Quality Control” from Indian Statistical Institute, SQC & OR Unit, Pune.
5. Demonstrated (in ISMS conference at Andhra University, Visakhapatnam) the utility of gazettes/models in teaching few difficult concepts in Biostatistics. Practised using these gazettes/models several times.
6. Experience in handling computers for data entry, data processing & data analysis. Proficiency in using following statistical computer packages - EPI-STAT, SLM, EPI-INFO (all versions), Bio-Medical Data Processing i.e. BMDP (all versions including window based New System). Acquaintance/Familiarity with some computer languages, programming and FOX-PRO as well as with old version of SPSS (Statistical Product and Service Solutions, formerly known as Statistical Package for the Social Sciences). But can handle any version of any statistical computer package.
7. Prepared a “Workbook of Biometry Practical” for health sciences students. It is in use at School of Health Sciences, University of Pune, Pune.
8. Experience in design and analysis of large scale / medium scale / small scale Studies / Investigations / Clinical Trials.
9. Administrative Experience in controlling many co-workers simultaneously (presently charge of Chief Administrative Officer).
10. Completed an Information Technology Certificate Course on “On-line Searching of Bibliographic Database (MED-LARS & MED-LINE)” conducted by National Informatics Centre, New Delhi.
11. Experience of handling a very large data set (on computer) including ‘qualitative data’ in a project entitled “Health Consequences of Earthquake Disaster (Marathwada 1993) with special reference to Mental Health”.

12. Inclusion of biographical sketch in “Who’s Who in the World” (in a book published by Marquis, New Jersey, U.S.A.).
13. Interested in all aspects of “Epidemiology” (specially risk analysis, treatment evaluation, and cultural Epidemiology), possible modifications in clinical trials methodology for evaluation of alternative therapies, ancient evidence in research methodology, etc. Done some work in this direction.
14. Member of ‘Institutional Ethics Committee’ of Tilak Ayurved Mahavidyalaya, Pune and Member Secretary of ‘Ethics Committee’ of Centre for Behavioural Medicine, Pune. Member of ‘Scientific/Research Advisory Committee’ of Centre for Rheumatic Diseases, Pune. Member of several ‘DSMBs (Data Safety Monitoring Board)’.
15. On special invitation, lectured at Lawrence Education Center of Borgess Medical Center (organized by Department of Community Health) of University of Michigan, USA in their ‘grand rounds’.
16. Presentation during International Biometric Conference (16-21 July 2006) held at McGill University, Montreal, Quebec, Canada and at Lawrence Education Center of Borgess Medical Center, Department of Community Health, University of Michigan, USA in their ‘grand rounds’ as well as at many places of academic interest in London, UK (on “Need for and Modifications in Clinical Trial Methodology for Evaluation of Indigenous Treatments/Medicinal Drugs”) was highly appreciated.
17. Participated in a series of debates on issues in clinical trials during a satellite symposium at Grand Hyatt Washington, Washington DC, USA, organised by NIH’s National Heart Lung and Blood Institute and Rush University Medical Center (2-3 August 2010).