

Curriculum Vitae

Name :

Dr Ananda Perera

MD, DFM, MBBS, FCGP

Board Certified Specialist in Family Medicine

Consultant in Family Medicine

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RESUME

1. Board Certified specialist in Family Medicine
2. Practicing as a primary care physician for last 30 years
3. Had been a winner of 2 Gold Medals from Sri Lanka Medical Association and College of General Practitioners Sri Lanka, NorthWestern Branch
4. IEEE scholar : A. Perera, "Demonstration and Validation of an Advanced Symptom Checker," in the IEEE Xplore: 11 June 2020 edition. (DOI: 10.1109/NITC48475.2019.9114500)
5. Active researcher in the field of Medical Informatics in Sri Lanka for last 30 years
6. Presented many papers on the subject of Computerized Decision Support Systems in Medicine at national and international conferences
7. Reviewer of scientific papers submitted to the American Medical Informatics Association scientific sessions consecutively for 5 years until 2020
8. Examiner in the postgraduate institute of Medicine of the University of Sri Lanka for Doctorate of Medicine (MD) examinations for last 10 years
9. Principal investigator and the software developer for the following projects - Sri Lanka Drug Index committee IMPA, Sri Lanka National Formulary Project IMPA, Morbidity Registration System for Primary Care in Sri Lanka, Primary Care Diabetes Group Web Application for Diabetes in Primary Care
10. Copyright ownership for Digital Health Camp of IMPA Sri Lanka, Drug index and National Formulary and Drug Information Apps

WORK

Primary Care Physician, Consultant in Palliative Care Nightingale Nursing Home Negombo

Biomedical Informatician - Biosoft Services Pvt Ltd – Negombo August 2020 to Present

Biomedical Informatician – Mobios Pvt Limited

I have been in active clinical practice up to date as a General Practitioner/Family physician in Negombo, Sri Lanka for well over 30 years (1991 - Now). All my research listed in the CV have been done in my primary care practice in Negombo. In the year 2000 I converted my solo practice to a multispecialty practice and started a secondary health care practice. I have been always interested in computers and computing which resulted in development of my own computerized decision support systems (CDSS) including 2 major medical record systems - Primary Care Medical Records System and a Personal Health Record system. All my CDSSs are listed in the CV and location for perusal is given. Again almost all these programs have been used by me in my own practice for the benefit of large number of patients. At the end of 2018 I retired from my practice and joined the Nightingale Nursing Home in Negombo as a Palliative Care Consultant. At the same time I joined 2 software development companies in Sri Lanka as medical content provider as well as a medical informatician. This team work resulted in yet another series of academic research and awards from Computer Society of Sri Lanka, Local Branch of British Computer Society and from the department of Obstetrics and Gynecology of the Faculty of Medicine, University of Sri Lanka.

SKILLS AND COMPETENCIES

1. Clinical Skills - Diagnostic, reasoning, therapeutic skills, communication and skills as relevant for primary care and General Practice
2. Teaching skills - graduate, postgraduate and post doctoral and research students, community health workers with very basic education
3. Team work skills - evidence software development with computer engineers, multi specialty work environments with Specialist Obstetricians, Endocrinologists, Perinatologists, Onco-gynecologists
4. Moodle skills - evidence website at 245econsult help files and research documentation
5. Telemedicine and digital health skills
6. Digital Health application development skills - diet programs and diagnostic systems showcase
7. Writing skills - 247econsult.com blog, docPHONE (series of chatbots simulating medical consultation deployed for the primary care patients) content, MEDICA 1 (an Electronic Medical Record developed by MOBIOS in consultation with me), MEDICA 2 (an Electronic Bed Head Ticket for hospital admitted patients), content provider and application development support (URLs for these software are given under **ELECTRONIC PUBLICATIONS WITH FULL COPYRIGHT OWNERSHIP** below)
8. Academic writing skills – All the publications shown in **RESEARCH AND PUBLICATIONS** have been written by me
9. Medline search skills - Use of PICO and modified PICO or PICOTTS model for refining the Medline search strategy
10. Prompt Engineering Skills - Use of AI as supportive tools in chatGPT and Perplexity for medical content writing, having beginners skills of prompt engineering for AI interactions
11. EBM skills - defining the problem, conversion of the ill defined problems into answerable well defined questions, USE of PICO model for structuring the search strategy, application of the research findings into the current context based on relevant factors, monitoring the outcome

PROEFSSIONAL AWARDS

1. E.M.WIJERAMA Award - at the 103 rd Annual Scientific Sessions of the Sri Lanka Medical Association 1990.

2. SIR FRANK GUNASEKARA AWARD - at the 104th Annual Scientific Sessions of the Sri Lanka Medical Association 1991.

3. AWARD OF 1992 GOLD MEDAL OF SRI LANKA MEDICAL ASSOCIATION for BATTERED WOMAN SYNDROME : A PERSPECTIVE FROM GENERAL PRACTICE.

4. DR. CYRIL WAAS MEMORIAL ORATION GOLD MEDAL for the paper on DEPRESSION IN GENERAL PRACTICE : PRESENTING SYMPTOMS.

5. ICBBMB 2023: XVII. International Conference on Bioinformatics, Biostatistics and Medical Informatics hereby certifies that ANANDA PERERA has presented an outstanding work entitled "A Comparison of Dietary Quality and Nutritional Adequacy of Meal Plans of a Diet Prescription Generator Web App against the Australian Guidelines to Healthy Eating"

HONORARY APPOINTMENTS

1. Visiting Lecturer in the Department of Family Medicine Kelaniya Campus University of Sri Lanka from 2005 - 2010
2. Visiting Lecturer for the DFM trainees from year 2005 - 2010
3. Visiting Lecturer for the MD trainees from year 2008 - 2015
4. Council member of the Primary Care Respiratory Group Sri Lanka
5. Council member of the Primary Care Diabetes Group Sri Lanka
6. Current President of the Primary Care Diabetes Group Sri Lanka
7. Represented Sri Lanka Medical Association as an Expert on Domestic Violence
8. Designer, developer and webmaster of the PCDG web site at PRIMARY CARE DIABETES GROUP HOME
9. Designer, developer and webmaster of the PCRG web site at PRIMARY CARE RESPIRATORY GROUP HOME
10. Designer, developer and webmaster of the web site at PRIMARY CARE POINT OF CARE SOFTWARE
11. Designer, developer and webmaster of the web site at FREE 8 ONLINE COURSES FOR PGIM TRAINEES
12. Designer AND developer of an Electronic Medical Record for Primary Care in Sri Lanka - ongoing research project
13. Designer AND developer of an Electronic Medical Record for Hospital Practice - Electronic Bed Head Ticket - ongoing research project
14. Examiner for DFM examination conducted by the PGIM from year 2005 to 2020
15. Examiner for MD examination conducted by the PGIM from year 2005 to 2020
16. Member of the Board of Study for Family Medicine from 2011 - 2018
17. Member of the curriculum committee of the BOS of FM for the new curriculum for DFM trainees of the PGIM

18. Member of the curriculum committee of the BOS of FM for the new curriculum for MD trainees of the PGIM
19. Member of the curriculum committee of the BOS of FM for the new curriculum for DFM Online of the PGIM
20. Course Coordinator for the Diploma in Family Medicine Online program conducted by the Postgraduate Institute of Medicine University of Colombo Sri Lanka
21. Ex-CO member of the Independent Medical Practitioners' Association of Sri Lanka from 2015 uptodate
22. Secretary of the Independent Medical Practitioners' Association of Sri Lanka 2018-2019
23. President of the Independent Medical Practitioners' Association of Sri Lanka 2019-2021
24. Immediate Past President of the Independent Medical Practitioners' Association of Sri Lanka
25. Honorary Digital Health Advisor to the Ex-Co of the Independent Medical Practitioners' Association of Sri Lanka.
26. Honorary Digital Health Advisor to the MOBIO (Pvt) Limited
27. Honorary Digital Health Advisor to the BIOSOFT SYSTEMS (Pvt) Ltd.
28. Invited reviewer of the scientific papers at the annual scientific conference of the American Medical Informatics Association for last 3 years in succession
29. Member of the WHO Expert Group: POST - COVID - CONDITION (PCC) case definition for children and young persons initiated by the World Health Organization from Sept 12th 2022

RESEARCH AND PUBLICATIONS

1. Psychosocial problems : Their extent and nature in primary care - Paper presented at the 12th Annual Scientific Sessions of the Kandy Society of Medicine.
2. Depressive thoughts in general practice attenders - Paper presented at 103rd Anniversary Scientific Sessions of the Sri Lanka Medical Association.
3. Somatoform disorders : Their extent and nature in general practice - Paper presented at 103rd Anniversary Scientific Sessions of the Sri Lanka Medical Association.
4. Morbidity data of an urban general practice in Sri Lanka - Paper presented at the 104th Annual Academic Sessions of the Sri Lanka Medical Association.
5. Social correlates of general practice attenders - Paper presented at the 104 Annual Academic Sessions of the Sri Lanka Medical Association.
6. Reliability and factorial structure of the Sinhala version of GHQ-S - Paper presented at the 104th Annual Academic Sessions of the Sri Lanka Medical Association.
7. A correlational analysis of primary care morbidity - Paper presented at the 104th Annual Academic Sessions of the Sri Lanka Medical Association.
8. A survey of the type of care provided in an urban general practice in Sri Lanka - Paper presented at the 16th Anniversary Sessions of the College of General Practitioners in Sri Lanka.
9. Common ethical problems encountered in General Practice - Paper presented at the 16th Anniversary Sessions of the College of General Practitioners in Sri Lanka.
10. Abnormal illness behavior : The concept and its clinical relevance - Paper presented at the 14th WONCA World Conference.
11. PROFYLAX - Presentation of a computer program to deliver preventive care at the 14th WONCA World Conference.
12. PRESCRIBER - Presentation of a computer program to help family physicians to prescribe rationally at the 14th WONCA World Conference.

13. VERTIGO - Presentation of a computer program to help family physicians diagnose the cause of vertigo at the 14th WONCA World Conference.
14. HEADACHE Presentation of a computer program to diagnose the cause of headache in patients at the 14th WONCA World Conference.
15. Can computerized ICPC be used in the routine daily work family practice ? - Paper presented at The 3rd European Congress on Family Medicine.
16. Definition of a family physician : Critique of WONCA statement - Paper presented at The 3rd European Congress on Family Medicine.
17. Royal College of General Practitioners Symposium on International Perspectives in Medical Education - As the Sri Lankan representative in September 1996 London.
18. Simulation of medical consultation using PROLOG - A case study in expert systems - Paper presented at the 17th IT Conference of Sri Lanka 1998.
19. Hypothesis Generator and a tester - A case study in expert systems - Paper presented at the 1st Scientific sessions of the Health Informatics Society of Sri Lanka 1999.
20. Causes of headache in a Sri Lankan General Practice - The Ceylon Medical Journal 2001;46;2;71
21. Ananda Perera. Demonstration of a Telemedicine Application Which Helps People To Diagnose A Medical Problem And Then Take Appropriate Health Care - Paper Presented at the INFOTEL Lanka 2002.
22. Ananda Perera. Validation and Reliability of a Internet based primary care diagnostic system - Paper presented at WONCA-MESAR Conference 2002
23. Ananda Perera. Relevance of Telemedicine in the context of primary care in developing countries - Paper presented at WONCA-MESAR Conference 2002
24. Ananda Perera and KNAP De Silva. Feasibility of using electronic medical records in a rural private general practice, Sri Lanka. Paper presented at the International Symposium at Kothalawala Defence Accademy 2015
25. Perera KCP, Perera BA, De Silva AP. Frequency and nature of the cause of headache in children attending a primary care physician. Paper presented at SLMA Scientific Sessions 2016
26. Perera A, Peries TJS, Perera AAMMSL. Demand for Respiratory Care in Sri Lankan Primary Care. Paper presented at 1st IPCRG South Asian Scientific Conference Held at Galadari Hotel Sri Lanka.
27. Perera A, Peries TJS, Perera AAMMSL. Morbidity Spectrum of Respiratory Diseases seen in Primary Care. Paper presented at 1st IPCRG South Asian Scientific Conference Held at Galadari Hotel Sri Lanka.

28. Perera A, Peries TJS, Perera AAMMSL. Diagnostic Reasoning of Sri Lankan Primary Care Doctors in the Diagnosis of Respiratory Diseases. Paper presented at 1st IPCRG South Asian Scientific Conference Held at Galadari Hotel Sri Lanka.
29. Perera A, Peries TJS, Perera AAMMSL. How to Improve the Diagnosis of Respiratory Diseases in Primary Care Doctors. Paper presented at 1st IPCRG South Asian Scientific Conference Held at Galadari Hotel Sri Lanka.
30. Perera A, Peries TJS, Perera AAMMSL. Validation of a Expert System for Respiratory Disease Diagnosis in Primary Care. Paper presented at 1st IPCRG South Asian Scientific Conference Held at Galadari Hotel Sri Lanka. (Submitted for Publication in npj International Primary Care Respiratory Journal)
31. Arsakula Perera, Ananda Perera. Evaluation of willingness to use mobile phones and mobile phone based health applications in healthcare in a primary care patient population in Sri Lanka. Paper selected for presentation at the 50th Anniversary Society of Teachers of Family Medicine USA Annual Spring Conference, San Diego, California 2016.
32. Rupasinghe PJKMS, Perera A, Vithane C, Senarath U. Factors affecting adherence to inhaled corticosteroids use at general practice in Gampaha District – A descriptive cross sectional study. Sri Lankan Family Physician 2017;33;1-7
33. Perera A. CAMEOS - Computer Assisted Medical Evaluation of Symptoms. Submission shortlisted for the Commonwealth Digital Health Award under the category of Telemedicine by the Health Informatics Society of Sri Lanka on 11th and 12th October 2018 at the Cinnamon Grand Hotel, Colombo, Sri Lanka.
34. Ananda Perera. DIAGNOSTIC ACCURACY AND VALIDATION OF AN ADVANCED SYMPTOM CHECKER FOR MEDICAL SELF CARE. Abstract ID: 1018. Paper selected for the APAMI 2018 - 10th Biennial Conference of the Asia Pacific Association for Medical Informatics Transforming healthcare through innovation in Digital Health Cinnamon Grand, Colombo, Sri Lanka on 11th and 12th October 2018.
35. Jayasundara, DMCS1. Perera, AAMBA2. Senanayake, HM1. Colonne, S.1 REDUCING EMERGENCY CAESAREAN SECTIONS - IS IT A POSSIBILITY ? 52nd Annual Scientific Congress of the Sri Lanka College of Obstetricians and Gynaecologists held at Galadari Hotel, Colombo, Sri Lanka on 9th-11th August 2019.
36. Jayasundara, DMCS1. Perera, AAMBA2. Senanayake, HM1. Colonne, S.1 IS CAESAREAN SECTION SAFER THAN NORMAL VAGINAL DELIVERY. 52nd Annual Scientific Congress of the Sri Lanka College of Obstetricians and Gynaecologists held at Galadari Hotel, Colombo, Sri Lanka on 9th-11th August 2019.
37. Jayasundara, DMCS1. Perera, AAMBA2. Senanayake, HM1. Colonne, S.1 FREQUENCY OF MATERNAL REQUEST AS A CAUSE FOR REPEAT CAESAREAN SECTION IN PAST ONE SECTION WOMEN. 52nd Annual Scientific Congress of the Sri Lanka College of Obstetricians and Gynaecologists held at Galadari Hotel, Colombo, Sri Lanka on 9th-11th August 2019.

38. Jayasundara, DMCS1. Perera, AAMBA2. Senanayake, HM1. Colonne, S.1 DESIGN OF AN INFORMATION TECHNOLOGY TOOL FOR QUALITY IMPROVEMENT IN OBSTETRICS 52nd Annual Scientific Congress of the Sri Lanka College of Obstetricians and Gynaecologists held at Galadari Hotel, Colombo, Sri Lanka on 9th-11th August 2019.
39. Jayasundara, DMCS1. Perera, AAMBA2. Senanayake, HM1. Colonne, S.1 AUTOMATION OF OBSTETRIC AUDITS IN A TEACHING OBSTETRIC UNIT OF A TERTIARY CARE HOSPITAL IN SRILANKA 52nd Annual Scientific Congress of the Sri Lanka College of Obstetricians and Gynaecologists held at Galadari Hotel, Colombo, Sri Lanka on 9th-11th August 2019.
40. A. Perera. Demonstration and Validation of an Advanced Symptom Checker. In the IEEE Xplore : 11 June 2020 edition. (DOI: 10.1109/NITC48475.2019.9114500)
41. De Silva MP, Jayasundara DMCS, Jayawardena IA, Perera AAMBA. Use of Robsons Classification in Understanding and Improving Caesarean Section Rates in a Tertiary Care Unit in Colombo Sri Lanka. Sri Lanka Journal of Obstetrics and Gynaecology Supplement Issue September 2022.
42. Chandana Jayasundara, Ananda Perera et al. Ongoing research project : ERC reference number EC-22-051 (Version 3.0) A Personal Health Record for every mother baby DYAD- A growth oriented PHR (GO-PHR): an Implementation and Feasibility study”
43. Chandana Jayasundara, Ananda Perera et al. Ongoing research project ERC reference number EC-22-054 (Version 2.0) Electronic Healthy Life Clinic: A multisite descriptive study on feasibility and implementation through the use of a Personal Health Record.
44. Chandana Jayasundara, Ananda Perera et al. Ongoing research project. EC-22-055 An electronic bed head ticket (eBHT) for Sri Lankan hospitals – a study to assess its feasibility and implementation fidelity at the Dental Institute, Colombo.
45. Ananda Perera. A Comparison of Dietary Quality and Nutritional Adequacy of Meal Plans of a Diet Prescription Generator Web App against the Australian Guidelines to Healthy Eating. Paper presented at the Conference: Bioinformatics, Biostatistics and Medical Informatics, February 2023 in Melbourne.
46. Ananda Perera. Proof of Concept Design and Development of a Computer-Aided Medical Evaluation of Symptoms Web App: An Expert System for Medical Diagnosis in General Practice. Paper presented at the Conference: Bioinformatics, Biostatistics and Medical Informatics, February 2023 in Melbourne.

EDUCATION

1. Board Certification as a Specialist in Family Medicine, Postgraduate Institute of Medicine, University of Colombo, Sri Lanka December 1992
2. Certificate of Fellowship from the College of General Practitioners' of Sri Lanka, September 2000
3. Doctorate in Medicine from University of Colombo, Sri Lanka July 1993
4. Postgraduate Diploma in Family Medicine from University of Colombo, Sri Lanka, July 1988
5. Certificate of Registration as a Medical Practitioner from June 1980
6. Degree in Medicine and Surgery - MBBS from the University of Colombo, Sri Lanka July 1974

ELECTRONIC PUBLICATIONS WITH FULL COPYRIGHT OWNERSHIP

1. Long Corona Expert System developed for the LCOMR project. Access at -
<https://247econsult.net/dhc/qn.php#loncor> (Password is not required to run the program)
2. Corona Convalescent Diet for Recovery developed for the LCOMR project. Access at -
<https://247econsult.net/dhc/easyDiets-AID-1600.php>
<https://247econsult.net/dhc/easyDiets-AID-2200.php>

3. Emotional Intelligence Expert System. Access at -

<https://247econsult.net/dhc/qn.php#meheas>

4. Symptom Checker for community residents. Access at -

<https://247econsult.net/sc/comeosSC.php>

5. A Personal Health Record. Access at -

<https://247econsult.net/phr/phr.php>

6. Personal Risk Profiler. Access at

https://247econsult.net/sx_chkr/hrds.php

7. Calculate your risk of Death according to the WHO/ISH risk calculators. Access at -

https://247econsult.net/sx_chkr/havasa.php

8. Assessment of All Cause Mortality. Access at -

https://247econsult.net/sx_chkr/ayubo.php

9. Chronic Disease Manager - Self Assessment. Access at -

https://247econsult.net/sx_chkr/cdmmp.php

10. Dieting Selfcare - easyDiet program. Access at -

<https://247econsult.net/diets/easyDiets.php>

ALL THE ABOVE PROGRAMS ARE LOCATED AT THE FOLLOWING GENERAL URL :

<https://247econsult.net/dhc/digiHealth.html>

11. CAMEOS - P Computer Assisted Medical Evaluation of Symptoms for Physicians. Access at

<https://247econsult.net/dhc3/cocam.php>

This is a diagnostic system for General Practitioners

12. Antibiotic Expert. Access at -

<https://247econsult.net/dhc3/cameosBI.php>

This is a diagnostic system for the most common bacterial infections in Community where an antibiotic is indicated. Expected users are General Practitioners

13. Surgical Problems Evaluator - Access at -

<https://247econsult.net/dhc3/cameosSur.php>

Diagnostic system to help General Practitioners diagnose common surgical problems in General Practice

14. CAMEOS - Child. Access at -

<https://247econsult.net/dhc3/cameosPaed.php>

Differential Diagnosis of pediatric problems in primary care

15. Development Screener. Access at -

<https://247econsult.net/dhc3/cameosDS.php>

Assessment of the development milestones of children

16. Pediatric Psychiatric Differential Diagnosis. Access at -

<https://247econsult.net/dhc3/cameosPaedPsy.php>

17. Mental Health Expert System. Access at -

<https://247econsult.net/dhc3/comeosPsych.php>

18. Pregnancy Symptom Checker. Access at -

<https://247econsult.net/dhc3/comeosPG.php>

19. RobsApp. Access at -

<https://digayu.com/anachanrob.php>

This is a webApp designed based on an algorithm described by the WHO to classify all women admitted a obstetric unit for delivery. This program generates a audit report for the unit where the data entry was done. Currently this program in being used in a multisite study conducted by the Department of Obstetrics and Gynecology of the Faculty of Medicine of the University of Colombo Sri Lanka.

20. Drug Index and Drug Formulary. Access at -

<https://247econsult.net/dfpi/isdtForm.php#avasanpit> (In development still)

21. docPhone application for simulation of medical consultation

<https://247econsult.com/>

This program comprises series of trilingual (Sinhala, English, Tamil) chatbots simulating the diagnostic process of General Practitioners. docPHONE can diagnose currently many of the common symptoms for which medical self care and self medication is sought.

22. Help Files for all the digital health products designed and developed by me :

<https://247econsult.net/edu/>