

Dr. Liyanaarachchige Neranga Prabhath**(Neranga Liyanaarachchi)**

MBBS (Colombo), MSc-Biomedical Informatics (Colombo), HDIT (Colombo), TOGA9.1

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1. Profile

Master of Medical Informatics graduate and concentrating on public health informatics, health systems implementation, health human resource development and data analysis. Currently a registrar in Health Informatics. Certified Enterprise Architect (TOGAF 9.1). Health informatician and a health informatics trainer. Carried out both domestic and international training coordination. Researcher in health information systems implementation. Health Information Systems evaluator. Carrying out health data analysis for decision making. Involved in planning of health human resource development at the national level. Value academic growth, dissemination of knowledge, data4development, teamwork and professional collaborations. Fluent in English and Sinhala.

2. Education

a. Primary and Secondary

College: Richmond College, Galle, Sri Lanka

Examination	Results	Remarks
Ordinary level examination – (1998)	Distinction (D) passes for all the subjects	
Advanced level examination – (2001)	Physics: A Chemistry: A Biology: A English: A (A= 75+)	Z-score: 2.5897, All island rank: 03 District rank: 01 Darrel Medal for the best overall performance in Science stream for the college in 2001

b. University/ Professional: Completed

Course	University/ Institution	Achievements
Masters in Biomedical Informatics (February 2015)	Postgraduate Institute of Medicine, University of Colombo-Sri Lanka	Gold medal for the best performance in Public Health Informatics stream
MBBS (July 2008)	Faculty of Medicine - University of Colombo-Sri Lanka	Community Medicine stream and Applied Sciences stream: Second Class (Lower), Cumulative MBBS: Pass
Post Graduate Diploma in Health Economics, Health Care Financing and Policy (January 2018)	Indian Institute of Public Health- Delhi (Public Health Foundation of India)	Cumulative Grade A (83% Marks)
Higher Diploma in Information Technology (December 2013)	School of Computing, University of Colombo-Sri Lanka	Pass

c. University/ Professional: Current

Course	University/ Institution	Progress	Core content
MD in Health Informatics (Ranked 6 th in the selection examination)	Postgraduate Institute of Medicine, University of Colombo-Sri Lanka	Commencement: January 2017 Pre MD- 2 years Post MD- 2 years Part II examination is due in January 2019 Currently in the second year rotations as per the prospectus	<ul style="list-style-type: none"> – Public Health informatics – Information literacy – Health/medical statistics and advanced data analysis – Information management – Information system governance and management – Health IT programme management – Information for action in health – Information Technology governance and enterprise architecture – Health communication – Medical/health education informatics – Information Technology laws and regulations
Masters of Public Health in Epidemiology	Faculty of Medicine, University of Kelaniya- Sri Lanka	Part-time, 2 years 60 credits All module examinations successfully completed Currently on the extension of the duration of the degree. Pending research thesis submission (ongoing)	<ul style="list-style-type: none"> – Social and behavioural sciences – Biostatistics – Public health systems and population-based programmes – Environmental health – Research methods – Health communication – Community practice and health – Disease surveillance – Health policy development – Epidemiology of chronic diseases – Epidemiology of infectious diseases – public health planning and evaluation
Diploma in Public Procurement and Contract Administration for Health Sector	Miloda Academy of Financial Studies, Ministry of Finance	Part-time, Weekend (ongoing) (Enrolled and funded by the Ministry of Health as essential training for the practice in public health programmes and the units of the Department of Health)	<ul style="list-style-type: none"> – The essence of public procurement for the health sector – Procurement planning & bidding documents – Selection of consultants – Supply chain management in health – IT& e-procurement – Bid evaluation & documentation for public procurement – Law of contract – Contract administration – Special public procurement methods

3. Academic awards/ medals

- a. Gold medal for the best performance in Masters in Biomedical Informatics (Public Health Informatics Stream), Postgraduate Institute of Medicine, University of Colombo: Convocation 2015
- b. Darrel medal for the best performance in Science stream in A/L for Richmond college, annual prize giving 2001
- c. Merit scholarship: Mahapola Trust Fund in 2002

4. Qualifications – main

- a. MBBS (University of Colombo)– 2008
- b. Masters in Science-Biomedical Informatics (University of Colombo)– 2015
- c. Higher Diploma in Information Technology (University of Colombo) – 2013
- d. Postgraduate Diploma in Health Economics, Health Care Financing and Policy - 2018
- e. TOGAF 9.1: Certified Enterprise Architect - 2018

5. Qualifications – other

- a. Certificate course in GIS and applications for medical professionals - Faculty of Graduate Studies, University of Sri Jayewardenepura

6. Professional certifications

- a. TOGAF 9.1: Certified Enterprise Architect by Open Group Certifications (2018)
- b. Certified in Archimate 2.0 part I, by Open Group Certifications – 2015

7. Memberships and affiliations

Sri Lanka Medical Council (SLMC): Registration No 26034

Sri Lanka Medical Association (SLMA): Membership No L 3859/3

Asia eHealth Information Network(AeHIN)

Health Informatics Society of Sri Lanka (HISSL)

Member of the ethical review committee of HISSL: 28-04-2016 to 28-04-2019

8. Professional experience

Position	Organization	Duration	Core duties/ areas of work
Project officer	Non-communicable Disease Prevention Project, JICA Sri Lanka	April 2008- July 2009	Non-Communicable Disease health information system, health promotion and health check-up subgroups (3) coordination, Health promotion activity planning and national coordination, project management assistance to national level officers and monitoring and evaluation, documentation management, conduction of training on trainers programmes for public health staff, worked with a panel of international experts
Intern and residential medical officer	Base Hospital - Puttalam, Sri Lanka	July 2009 - October 2010	First contact medical officer in ward settings in General Medicine, Obstetrics and Gynaecology. Involved in ward statistics management and short term trend assessments. Ward quality improvement as a residential medical officer. Partnered with preventive health institutions in the locality to improve community health
Medical officer in charge	Divisional Hospital - Tabbowa, Puttalam, Sri Lanka	October 2010 - November 2012	Involved in outpatient clinical management, hospital administration, hospital health information management, community health activities and hospital quality improvement. Furthermore developed close collaboration with MOH-Karuwalagaswewa on case detection and planning response activities to early outbreaks (ex. Leptospirosis early detection in January 2011), participated in MOH monthly review with hospital data

Trainee medical officer- Health Informatics	Ministry of Health, affiliated to the Postgraduate Institute of Medicine	November 2012- November 2014	Enrolled in the Masters in Biomedical Informatics programme; Please refer to the section 2.b.
Medical officer- Health Informatics and training	Education Training and Research Unit- Ministry of Health – Sri Lanka	December 2014 – January 2017	Establishment of a transformative education framework for the HRH development for the Ministry, designing the web for National Health Research Council and the ETR unit, development of e-Learning system and content for the basic schools, information system development/implementation for workplace based research data management, collaboration with the national and international health authorities, development partners and training school stakeholders, ETR unit planning activities to achieve SDGs and to improve national indicators through HR development, monitoring and Evaluation system for the ETR unit to monitor the training programmes, coordination and technical development of the transformative education action plan for the Ministry, statistical data analysis with regards to the quantitative and qualitative research/studies carried out by the Unit/Ministry, in-service training management system process development, development of second Health Sector Development Project funded overseas training plan for 2015-16, lecturing the tutors on e-learning management systems, statistics, data management, online collaboration etc. technical coordination of the curriculum development/revision of the pre-service training programmes to cater evolving needs by incorporating current concepts like health IT
Registrar in Health Informatics	affiliated to the Postgraduate Institute of Medicine	January 2017 to present	Enrolled in the MD- Health Informatics programme; Please refer to the section 2.c

9. Professional training programmes

a. Local

Name	Type	Conducted by	Year
Trainer capacity building programme on health professionals' education	10 session training programme on pedagogy	Ministry of Health in collaboration with the Forum of Medical Educationist of Sri Lanka	2015
Introduction to qualitative methods for health and social care research	4 th annual international course	Institute for Research & Development, Sri Lanka in collaboration with the University of Cambridge-UK, Keele University-UK, Institute of Psychiatry-Kings College-London and South Asian Hub for Advocacy, Research and Education on Mental Health	2016

Advanced data analysis & visualization for Annual Health Bulletin	Training programme	Ministry of Health in collaboration with Vital Strategies, Bloomberg Philanthropies and Data for Health Initiative	2017
Clinical guideline development, dissemination and implementation	Training programme	College of Community Physicians in collaboration with the South Asian Cochrane Network	2017
Applied statistics for Health Information Management	Training programme	Institute of Applied Statistics Sri Lanka	2017
How to get your research published	Training programme	Postgraduate Institute of Medicine, University of Colombo	2013
Computer-aided project management	Workshop on Microsoft Project	National Institute of Business Management	2014
Certificate course on GIS and application for medical professionals	Certificate course	Faculty of Graduate Studies, University of Sri Jayewardenapura	2013
Speech Craft Programme	10 session workshop	Toastmasters International – Millenium Toastmasters club (TMC-7595)	2017
Global Health Diplomacy programme for Healthcare Professionals	2-day workshop	Global Health Centre at the Graduate Institute for International and Development Studies in collaboration with the WHO-Sri Lanka Office	2016
Basic Training Programme on Health Economics and Health Technology Assessment	Training programme	Ministry of Health	2015
The system of Health Accounts by WHO	Workshop	Second Health Sector Development Project of the Ministry of Health in collaboration with the WHO	2015
Workshop on Health Economics and Health Technology Assessment	Workshop	Ministry of Health	2015

a. Foreign

Name	Type	Conducted by	Year & place
e-Learning and ICT for Health Education & Management	10-day residential short course	Asian Institute of Technology – Extension, Thailand	2016, Thailand
DHIS2 customization for medical practitioners	05-day training programme	HISP India As part of the MSc- Biomedical Informatics	2013, India
Enterprise Architecture – TOGAF 9.1	10-day residential short course leading into the certification in TOGAF 9.1 by the OPEN GROUP	Malaysian Institute of Management	2017, Kuala Lumpur, Malaysia
Specialists Programme on Healthcare Leadership	Training programme	Tan Tock Seng Hospital in collaboration with the Temasek Foundation, Singapore	2016, Singapore

a. Online/ Virtual

Name of the programme/ course	Type	Conducted by	Year
Short course on data quality	Online self-paced	Global Health eLearning Centre by USAID and School of Public Health – Johns Hopkins Bloomberg	2018
Social Media for Health and Development	Online self-paced	Global Health eLearning Centre by USAID and School of Public Health – Johns Hopkins Bloomberg	2018

10. Publications and academic presentations

- a. Alwis SAB, Hewageegana NSR, Perera HSR, Ranasinghe T, Jagoda AI, Widanapathirana N, Wellapulli NT, [Liyanaarachchi NP](#), Sinha VP: Report on the National Consultation to develop two-year action plan for strengthening the Human Resources for Health in Sri Lanka: 2015; ISBN 978-955-0505-83-08
- b. Kumarapeli V., [Liyanaarachchi NP](#)., Sooriyarachchi U, Alwis SAB; Transforming and scaling-up health professionals training to meet the healthcare needs: Paper published in the weekly epidemiological review; Epidemiology Unit, Ministry of Health-Sri Lanka. 2016, Vol 43: No 3
- c. Kasturiachchi SK, Senanayake SDPS, Liyanage PC, Amarakoon PM, [Prabhath LAN](#), Piyasena GY, Liyanagama M, Dimal DA, Hariaram J, Hewapathirana R, Jayathilae AU; Electronic reproductive management information system (eRHMS) for reproductive, maternal, child, adolescent, youth health programme information flow in Sri Lanka; abstract published in the abstract book of the National Health Research Symposium 2017; OP62, page 117
- d. [Liyanaarachchi NP](#), Hewapathirana R; Modified process for the development of clinical dataset to improve data quality: Oral presentation at the eHealth Asia conference 2015 (International conference)
- e. [Liyanaarachchi NP](#), Process of automating administrative data using a customizable software: Oral presentation at the eHealth Asia conference 2015 (International conference)
- f. [Liyanaarachchi NP](#), Hewapathirana R; Customization of the Clinic Management Information System of the Cancer Early Detection Centre Using DHIS2: Oral presentation at the eHealth Sri Lanka 2014 (International conference)
- g. [Liyanaarachchi NP](#), Sri Ranganathan S, Fernandopulle R: Adverse drug reaction database for Info_vig, Department of Pharmacology, Faculty of Medicine, Colombo; Abstract published in the abstract book of the scientific sessions of the Health Information Society of Sri Lanka, 2008; FP07, page 20
- h. Dharmagunawardene, P.V.D.S., Alwis, A.K.S. D., Liyanaarachchi, N.P., Sooriyarachchi, M.B.U.D., Wijekoon, W.M.A., Rajapaksa, A.W., 2018. Case study: Integrating eHealth into basic training curricula to transform allied health professionals' education in the government health sector of Sri Lanka. Presented at the Asia Pacific Association of Health Informatics, APAMI-2018, Colombo, p. 89.
- i. Liyanaarachchi, N.P., Silva, P.D., Siriwardena, N., Ranathunga, P., Promod, H., 2018. Perceived improvement of the process of patient care by digitalization of primary health care encounters in OPD set-up of a tertiary care hospital through the lenses of the health professionals. Presented at the Asia Pacific Association of Medical Informatics 2018, APAMI-2018, Colombo, p. 77.
- j. Siriwardena, N., Silva, M.G.P.D., Liyanaarachchi, N.P., Wickramasinghe, W.A.S., B.Ranatunga, P.E.K., 2018. Sharing experiences of development, implementation and maintenance of Hospital Information Management System(HIMS) to government hospitals in Sri Lanka. Presented at the Asia Pacific Association of Health Informatics 2018, APAMI-2018, Colombo, p. 68.

11. Teaching and academic work

a. Curriculum development

Activity	For Whom	Contribution	Year
Generic module for on Health Information System and general ICT for workplace-based management for all the schools under the Ministry of Health.	For the use of all the schools under the Ministry of Health	Drafting the module and coordinating and leading the review process with multiple experts, finalizing the module curriculum, integrating it gradually to curricula being revised and facilitated the decision to include the module as a core competency in all the curricula under the Ministry of Health-Sri Lanka	2015-2016
Module on Public Health Information System and ICT for workplace management for PHFOs, PHLTs and EEG training programmes	<ol style="list-style-type: none"> 1. Diploma programme for the Public Health Field Officers (PHFO) 2. the Public Health Laboratory Technologists (PHLT) 3. Diploma programme for the EEG 	Key member and the main coordinator for the module development. Drafting the module, coordinating the review process with multiple experts, finalizing the module curriculum, integrating to curriculum	2016
Member of the panel of examiners for the Ministry of Health	School of EEG technologists, School of PT/OT, School of EEG	Member of the panel of examiners under the Ministry of Health: Under the departmental examination law	2014-2016

b. Course development and coordination

Programme	For Whom	Contribution	Year
Clinical Leadership training for Sri Lanka health professionals in Singapore (International)	Hospital staff: selected 3 member team from 12 hospitals	<p>Coordination of bilateral discussions. Developed the training model.</p> <p>Drafted the Memorandum of Understanding and managed bilateral negotiations on behalf of the Sri Lanka counterpart.</p> <p>Coordinated the implementation of the foreign training for the first batch of teams in 2015.</p> <p>Carried out post training monitoring of the projects implemented by the first batch of teams.</p>	2014-2015
Study visit programme for delegates from DPR Korea on MCH care (International)	Participants from DPR-Korea	<p>Development of the programme.</p> <p>Coordinated with the trainers and participants.</p> <p>Coordinated the programme in Sri Lanka.</p>	2015

c. Teaching/training/examination related activities

Activity	For whom	Subject area/ contribution	Year
Visiting lecturer	BSc- in Software Engineering with Health IT specialization, Faculty of Science, University of Kelaniya	Health Informatics Health Information Systems Management	2018
Conducting lectures, practical-based sessions, setting examination questions	University College of Health Studies, Sri Jayewardenapura General Hospital: Joined as a visiting lecturer for undergraduate and diploma students	ICT for workplace management, ICT for effective communication, Managing workplace information	2016 to present
Training of trainers programme on eLearning Management System for Pharmacy training programme (02-day programme)	School of Pharmacy, National Institute of Health Sciences (Diploma level students)	Online collaboration, eLearning Management System installation, maintenance, e-Material development	2015
Acted as a panel of trainers of trainers for the Education Training and Research Unit, Ministry of Health	All schools under the Ministry of Health for allied health sciences (Trainers with Diploma or above levels)	<ol style="list-style-type: none"> 1. Training on eLearning 2. Training on professional communication 3. Training on ICT for education and management 4. Training on simple data analysis 	2015-2016
International review board member	In-Site International conferences 2014 and 2015 Informing Science Institute, New South Wales, Australia	Reviewed assigned articles as an international board of reviewers	2014 and 2015
Faculty member/trainer for the Diploma students under the Ministry of Health	School of EEG, School of Ophthalmic technology, School of Cardiology technologists	Health Information System and ICT	2014-2016

12. Ongoing and completed projects/ programmes

Project/ programme	Institution/ primary stakeholder	Contribution	Status of the engagement	Year
HIMS – Hospital Information Management System Project	Ministry of Health	A member of the management team with special interest in primary care/OPD care module implementation	Ongoing	2017 onwards
Research project to develop a country-specific ICPC-2 code set to capture coded primary care health encounters	Ministry of Health	Principal investigator	Ongoing	2018 onwards
Enterprise architecture framework for the training arm of the Ministry of Health	Ministry of Health	Enterprise architect for the project	Ongoing	2018 onwards

Enterprise architecture framework for a leading private hospital chain in SL	A leading private hospital chain	Member of the team of consultants on the project: one of the two enterprise architects involved	Ongoing	2018 onwards
Online recruitment system for allied health sciences trainees for 2018	Ministry of Health	Member of the technical evaluation team, certifying officer, member of the management team	Ongoing	2018 onwards
HIMS based secondary data analysis to identify diagnosis coding practices and provide recommendations	HIMS implemented hospitals	Principal Investigator	Ongoing	2018 onwards
National Standards for the Training Programmes under the Ministry of Health	Education Training and Research Unit	Technical inputs and reviewing the output with special emphasis on training programme governance and quality improvement	Completed	2015-2016
eLearning management system: Moodle based	Education Training and Research Unit	Designed, customized Moodle and deployed in the Ministry of Health server and conducted a course on trainer capacity development on education principles	Completed	2016
Development of a Research information system to capture the research allowance data using an open source solution called REDCap (Research Electronic Data Capture)	Education Training and Research Unit	Designed, customized REDCap and deployed in the Ministry of Health local server principles. Currently in use.	Completed	2014
Writing a concept paper on "Referrals and patient information systems" for the next world bank project (Chaired by Prof. Rajitha Wickremasinghe)	Ministry of Health	Facilitation the Ministry to develop the next World bank funded health sector development plan by formulating a concept paper on the thematic area under the concern of the committee	Completed	2017
Revamping project of the National Annual Health Bulletin 2016	Ministry of Health	Member of the editorial committee. A project facilitated by the Data4Health Initiative	Publication pending	2017-18
Development of the Annual Health Bulletin for the western province for 2017	Provincial Directorate of Health - Western	Member of the editorial committee. A project funded by the local government	Published document	2017-18
Electronic Reproductive Health Information Management System (eRHMS)	Family Health Bureau	Member of the team implemented the first phase of the project including software system customization and island-wide training of users	Completed	2017
Foreign training needs analysis and development of the training plan	Second Health Sector Development Project – Ministry of Health	Conducted the training needs analysis Drafted the training plan, coordinated the process and finalized the plan for 2015	Completed	2015
National Health Research Symposium – 2017	Ministry of Health	Lead the NRHS-2017 symposium web development: In-house development of the web portal and the online submission system	Completed	2017

13. Extra-curricular work

- Mindfulness training: self-trained on mindfulness and keep practising, registered for the induction programme on mindfulness for health sector by the "Satipasala" non-profit organization.
- Volunteer services: Community development programmes/ rural development programmes especially in low resource areas i.e. Puttalam as a trainer/ instructor/ resource person

14. References

Professional

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