

MADUWAGE Kalana Prasad

MBBS, MPhil, Ph.D. (Newcast. Aust.), FRSPH (UK)
Professor / University Academic / Biomedical Researcher

<http://med.pdn.ac.lk/departments/biochemistry/staff/kalana.html>
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https://www.researchgate.net/profile/Kalana_Maduwege
<https://www.linkedin.com/in/kalana-maduwege-a4556536/?originalSubdomain=lk>



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E.mail: kalanapm@gmail.com
Date of birth: 5th November 1980
Sex: Male
Residence: 55A. Galkanda Road, Aniwatta, Kandy, 20000, Sri Lanka
Marital status: Married
Contact: +94 7 1414 5738

CAREER SUMMARY

I have a Ph.D. in Clinical Pharmacology from the University of Newcastle, Australia, and am now working as a Professor in Biochemistry at the Faculty of Medicine of the University of Peradeniya, Sri Lanka. I teach both undergraduate and postgraduate medical students in addition to preparing relevant teaching / learning material. In addition to being the founder-coordinator and chief examiner for the Integrated Applied Medicine modules of our M.B.,B.S. programme, I have nine years of experience in medical teaching, including three years' teaching experience in the School of Medicine and Public Health of the University of Newcastle, Australia. I was made a full professor at 37 (a record for my university) in 2018, and have been working also as the chief scientific officer for Sri Lanka's first antivenom production initiative, while also developing a bedside kit for detecting and identifying snake venom in patients' blood: work that promises to transform outcomes in a major public-health challenge.

My Ph.D. dissertation was on the coagulant effects of Sri Lankan snake venoms and the efficacy of antivenoms. This built on my M.Phil. programme ("Systematics, venom characteristics and clinical features following envenomation by Sri Lankan hump-nosed vipers") and M.B.,B.S at the University of Peradeniya. I have 56 publications in SCI journals and have won 6 international awards for research and 21 national awards for research. I am focused and hardworking, and am familiar with clinical, pathophysiological and treatment aspects of snake envenomation. I am confident in in-vitro, in-vivo and clinical research methodologies in snake venom toxinology, antivenom research (including isolation and pharmacological characterization of toxins) and research methods associated with the efficacy, safety and effectiveness of antivenom treatment. Exploration of pharmacologically active biomolecules from animal venoms is my future research interest.

CURRENT AFFILIATIONS

- Professor in Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Scientific Director, Project of Development of New Polyvalent Snake Antivenom for Sri Lanka.
- Secretary, Higher Degree Committee, Faculty of Medicine, University of Peradeniya, Sri Lanka
- Chairman, Technical Evaluation Committee, Faculty of Medicine, University of Peradeniya, Sri Lanka
- Faculty Representative of the International Relations Office, University of Peradeniya, Sri Lanka
- Faculty Representative of BLII-TTO (Business Linkage, Innovation, Incubation and Technology Transfer Office) University of Peradeniya, Sri Lanka.
- Faculty Representative of the Multidisciplinary National Invention Centre, University of Peradeniya, Sri Lanka.
- Member of Ethical Review Committee, Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Member of Snakebite Expert Committee, Sri Lanka Medical Association, Sri Lanka.

EDUCATION

- **Ph.D. (Clinical Pharmacology) 2012-2016**

University of Newcastle (Australia)

Thesis: Investigation of coagulant effects of venomous Sri Lankan snake venoms and efficacy of antivenoms. Supervisors: Prof. Geoff Isbister (Newcastle University, Australia) and Prof. Wayne Hodgson (Monash University, Australia).

- **M.Phil 2008-2011** University of Peradeniya (Sri Lanka)

Thesis: Systematics, venom characteristics and clinical features following envenomation by Sri Lankan hump-nosed vipers. Prof. Indika Bandara Gawarammana (University of Peradeniya, Sri Lanka), Prof. Geoff Isbister (Newcastle University, Australia) and Mr Rohan Pethiyagoda (Australian Museum, Sydney).

- **MB.BS. Bachelor of Medicine and Bachelor of Surgery 2001-2007**

University of Peradeniya (Sri Lanka).

Second Class in 2nd MBBS, 3rd MBBS with distinctions in Parasitology and Pathology. B. H. Aluvihare Prize in Surgery for Final MBBS examination.

- **Fellow of Royal Society of Public Health (UK) 2000**

- **Sri Lanka Medical Council Registration 2008** (SLMC: 24586)

ACADEMIC AWARDS AND SCHOLARSHIPS - INTERNATIONAL

- **Global Young Physician Leaders' award 2016** (Awarded by the Intra Academy Medical Panel and the World Academy of Sciences for 20 outstanding physician leaders in the world aged under 40 years–Berlin, Germany).
- 2016. Finalist of **Aspirin Social Innovation Award**, Bayer Foundations, Berlin, Germany.
- 2014 **Informa Health Care Award** for the Best Platform Presentation paper presented at North American Conference of Clinical Toxicology (NACCT 2014), New Orleans, Louisiana, USA. “Diagnosis of snake envenoming using simple phospholipase A₂ assay”.

- 2014 **John Morris Scientific Award** for the Best Overall Scientific Poster Presentation at the Australian Society for Medical Research (ASMR) Satellite Scientific Meeting, Newcastle, Australia for “Diagnosis of snake envenoming using simple phospholipase A₂ assay”.
- 2014 **ASMR Award for the Best Overall Scientific Poster** Presentation at the Australian Society for Medical Research (ASMR) Meeting, Sydney, Australia for “Diagnosis of snake envenoming using simple phospholipase A₂ assay”.
- 2012 **Australian Leadership Award**, offered by Government of Australia. Four years full scholarship for PhD studies at University of Newcastle. Australia. (AU\$ 226,468.00).

ACADEMIC AWARDS AND SCHOLARSHIPS - NATIONAL

- 2021. **Tire 4. Research Award (The highest)**, University of Peradeniya, Sri Lanka.
- 2016. **CVCD (Committee of Vice-Chancellors and Directors) Award** for the most outstanding young researcher in the field of medicine, dental, veterinary and allied sciences field in Sri Lanka offered by the HE president of Sri Lanka. I was the youngest awardee of this award who received it at the age of 36 years.
- 2018. **Award of the Best Pre-Clinical Teacher**, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2017. **KSM (Kandy Society of Medicine) Health Research Prize** of the year 2017.
- 2017 **Three President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2016 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2015 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2014 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2013 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2008 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2005 **President’s Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2005 **Presidential Award for the best new invention of 2004**: Invention of a Microscopic Slide Projector (Patent No: 12460).
- 2014. **Award for the Best publication by the Physician** at 48th Annual Academic Sessions, Colombo, for the publication titled “Revisiting Russell’s Viper (*Daboia russelii*) Bite in Sri Lanka: Is Abdominal Pain an Early Feature of Systemic Envenoming?”
- 2005 **National Science Foundation Award for Young Scientists, 2005** (Undergraduate Category): Invention of a Microscopic Slide Projector (Patent No: 12460).

- 2012. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2011. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2010. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2014. Research Publications Award, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2015. Research Publications Award, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2016. Research Publications Award, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2017. Research Publications Award, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2019. Research Publications Award, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 2007 Ministry of Social Services and Social Welfare Award for outstanding performance as a young scientist, Sri Lanka.
- 2007 Awarded the B. H. Aluvihare Prize in Surgery for Final MBBS.
- Travel Grant 2011. Asia Pacific Association of Medical Toxicology, Penang, Malaysia (US\$ 750)
- Travel Grant 2015. Asia Pacific Association of Medical Toxicology, Perth, Australia. (US\$ 1000)

LEADERSHIP TRAINING

As an **Australian Leadership Award** recipient in 2012, I completed the Leadership for Development Program conducted by Australian Educational and Leadership Centre, Canberra, Australia. The training programme includes Leadership for Development Forum (Canberra), Leadership workshop (NSW), Leadership for Development conference (Canberra) and Leadership Coaching Module.

Global Young Physician Leaders' award 2016: Awarded by Intra Academy Medical Panel and the World Academy of Sciences for 20 outstanding young physician leaders in the world aged under 40 years – Berlin, Germany. Under this selection, I completed their leadership training programme.

TEACHING AND CURRICULUM DEVELOPMENT EXPERIENCE AND CONTRIBUTIONS

- Twelve years of teaching experience of cellular, nutritional, systematic, experimental and clinical biochemistry and other basis sciences for medical undergraduate at Faculty of Medicine, University of Peradeniya, Sri Lanka. 2009 - present
- Continuous three years teaching experience of clinical medicine teaching for second and third year medical undergraduate at University of Newcastle, Australia as a casual BPL tutor. 2012 - 2015.
- Examiner for clinical medicine examinations at University of Newcastle, Australia. 2012 - 2015
- Conduct lectures, small group discussions, practicals, problem based learning and examinations for medical undergraduates, Faculty of Medicine, University of Peradeniya, Sri Lanka. 2009 - 2012 and 2016 - present

- Conduct lectures, practicals and examinations for Master of Science, Clinical Biochemistry students at Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. 2016 - present
- Lectures, problem based learning sessions, examination on snake envenoming and management for medical undergraduates at Faculty of Medicine, University of Peradeniya. 2016 - present
- Designer and Module Coordinator: Integrated Applied Medicine 1 and Integrated Applied Medicine 2 Module, MBBS Course, Faculty of Medicine, University of Peradeniya. Coordination of all pre, para and clinical academics of the faculty and developed this new module / course including aims, intended learning. Developed a novel student centred clinical case based integration sessions new curriculum of MBBS. 2016 - 2020.
- Developed of new biochemistry curriculum relating to the major curriculum revision occurred in 2016 in the MBBS degree programme. I was actively engaged with the designing of aims, allocation of credits, intended learning outcomes, course contents, structure of assessments and timing were revised by many discussion and meeting in the department. 2017
- As the initiator and the coordinator of the novel teaching / learning method / concept “Display Boards” at the department, I was actively engaged with the development of Biochemistry display boards to summarize the course contents of the curriculum. The novel concept resulted by initial development of 10 display board under various course contents and this tool facilitates the regular exposure of students to teaching material and quick review before the assessment.
- Developed a comprehensive toxinology laboratory in the Department of Biochemistry, Faculty of Medicine, Peradeniya. I was instrumental in designing and implementing basic infrastructure, procurement and installation of equipments and optimization for the toxinology assay procedures.
- Initiation and coordination of Journal Club meeting at Department of Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Designer of the basic medical sciences undergraduate curriculum at the Faculty of Medicine, Wayamba University of Sri Lanka. Sri Lanka.
- Visiting lecturer at Sri John Kothalawala Defence University, Sri Lanka. 2016 and 2017

RESEARCH SKILLS AND EXPERIENCE

- Clinical and Experimental Toxinology (snake envenoming)
- Randomized controlled clinical trials (snake envenoming)
- Cochrane systematic reviews (intervention reviews)
- Pharmacology of snake antivenoms (efficacy, effectiveness, pharmacokinetics and adverse effects)
- Coagulopathy of snake envenoming and toxins
- Manufacturing of Snake antivenoms
- Isolation and characterization of pharmacologically active compounds from animal venom
- Systematics of venomous snakes
- Systematics of freshwater fishes and lizards

LABORATORY SKILLS AND EXPERIENCE

- Enzyme Linked Immunosorbant Assay (ELISA)
- Development and quality control of snake antivenom

- Western Blotting
 - High Performance Liquid Chromatography
 - In-vitro characterization of toxins
 - Pre-clinical efficacy testing of immunoglobulin based medications
 - Cell culture studies
 - Randomised clinical trials
- Development of snake antivenom in Institute of Clodomiro Picado, Costa-Rica (2017).
 - Department of Clinical pharmacology and Toxicology, Newcastle Calvary Mater hospital, University of Newcastle, NSW, Australia (2010).
 - Monash venom Group, Department of Pharmacology, Monash University, Melbourne, Australia (2008).
 - Monash venom Group, Department of Pharmacology, Monash University, Melbourne, Australia (2009).
 - Isolation and In-vitro characterization of snake venom toxins (2009 - present).
 - Clinical trials on interventions for snake envenoming (2012-2016).
 - Training on Cochrane Systematic Reviews for interventions, Sydney, Australia (2013).
 - Laboratory experience on SDS-PAGE, Western blotting, High Performance Liquid Chromatography, Enzyme link Immunosobant assay, *in-vitro* efficacy of snake antivenoms, lyophilization, clotting assays and *in-vitro* neuromuscular studies (2009 - present).
 - Six weeks training of equine based snake antivenom production and quality control at Institute of Clodomiro Picado, Costa-Rica under the supervision of Professor Jose Maria Gutierrez.
 - Six workshop training on Australian Highly venomous snake handling and collection of venom conducted by John Mostyn (Manager, Venom Collection Devision, Australian Reptile Park, Gosford, NSW, Australia).
 - Clinical and epidemiological studies on snake bites in Sri Lanka (2012 to present).
 - Contributions to several systematic ichthyological and herpetological studies based on Sri Lankan and South Indian fauna, which led to discoveries of several new taxa (2007 - present).
 - Fieldwork experience during leading biodiversity explorations (freshwater fish, snakes and lizards) underwent in rainforests of Sri Lanka, since year 2000.

CONTRIBUTIONS TO THE ACADEMIC/SCIENTIFIC JOURNALS AS A REVIEWER

- Toxicon (Elsevier Publications)
- PLoS Neglected Tropical Diseases
- Transactions of the Royal Society for Tropical Medicine and Hygiene (Elsevier Publications)
- Wilderness and Environmental Medicine
- Complementary Therapies in Medicine
- Journal of Venomous Animals and Toxins Including Tropical Diseases
- Toxicological Reports
- Asian Pacific Journal of Tropical Medicine
- Acta Tropica
- Clinical Toxicology
- Journal of Mechanical Behaviour of Biomedical Materials
- Frontiers in Immunology
- Neurotoxicity Research (Elsevier Publications)

- Thrombosis Research (Elsevier Publications)
- Journal of Infections and Public Health (Elsevier Publications)
- Sri Lanka Journal of Medicine (SJM)
- Ceylon Journal of Science

INVENTIONS AND PATENTS

- 2004 Patent number 13388: A simple instrument for measuring distance and height.
- 2004 Patent number 13389: Compound light microscope converted to a projector.
- 2001 Patent number 12460: Microscopic Slide Projector.

PUBLICATIONS IN SCIENCE CITATION INDEXED JOURNALS

1. **K Maduwage**, P Karunathilake, JM Gutiérrez 2021. Web-based snake identification service: A successful model of snake identification in Sri Lanka - **Toxicon**, 2021.11.11 <https://doi.org/10.1016/j.toxicon.2021.11.007>
2. J Le Geyt, S Pach, JM Gutiérrez, AG Habib, **KP Maduwage**... Paediatric snakebite envenoming: recognition and management of cases. **Archives of disease in childhood**, 2021. <http://dx.doi.org/10.1136/archdischild-2020-319428>
3. K Chamara, R Higgoda, K Ellepola, B Premarathne, **K. Maduwage** et al 2021. Angel's Trumpet (*Brugmansia suaveolens*) Poisoning Presenting with Anticholinergic Toxidrome. **J Clin Toxicol. S**, Vol. 11 Iss. S18 No: 1000004 .
4. José MaríaGutiérrez, **Kalana Maduwage**, Garba Ilyasu, Abdulrazaq Habib. (2021). Snakebite envenoming in different national contexts: Costa Rica, Sri Lanka, and Nigeria. **Toxicon X**. <https://doi.org/10.1016/j.toxcx.2021.100066>.
5. Subhankar Sarkar, Rajiv Sinha, Arpita Ray Chaudhury, **Kalana Maduwage**, Asiri Abeyagunawardena, Niladri Bose, Subal Pradhan, Nilzete Liberato Bresolin, Blenda Avelino Garcia, Mignon McCulloch (2021) Snake bite associated with acute kidney injury **Pediatr. Nephrol.** 2021 Feb 9. doi: 10.1007/s00467-020-04911-x.
6. **Maduwage KP**, Gawarammana IB, Gutiérrez JM, Kottege C, Dayaratne R, Premawardena NP, et al. (2020) Enzyme immunoassays for detection and quantification of venoms of Sri Lankan snakes: Application in the clinical setting. **PLoS Negl Trop Dis** 14(10): e0008668. <https://doi.org/10.1371/journal.pntd.0008668>.
7. **Maduwage K**, Buddika H, Ranasinghe J, Wijesooriya K. (2020). Second case report of slender coral snake (*Calliophis melanurus sinbaleynus*) envenomation of Sri Lanka. **Toxicon**. 2021 Jan 15;189:7-9.
8. Sophie Pach, Jacqueline Le Geyt, José María Gutiérrez, David Williams, **Kalana Prasad Maduwage**, Abdulrazaq Garba Habib, Rafael Gustin, María Luisa Avila-Agüero, Kyaw Thu Ya, Jay Halbert (2020). Paediatric snakebite envenoming: recognition and management of cases. **Arch Dis Child** 2020-319417. doi: 10.1136/archdischild-2020-319417.
9. Jacqueline Le Geyt, Sophie Pach, José María Gutiérrez, Abdulrazaq Garba Habib, **Kalana Prasad Maduwage**, Timothy Craig Hardcastle, Roger Hernández Diaz, María Luisa Avila-Aguero, Kyaw Thu Ya, David Williams, Jay Halbert. (2020). Paediatric snakebite envenoming: recognition and management of cases. **Arch Dis Child** 2020-319428. DOI: 10.1136/archdischild-2020-319428.

10. Sudasinghe H, Pethiyagoda R, Meegaskumbura M, **Maduwage K**, Britz R. *Channa kelaartii*, a valid species of dwarf snakehead from Sri Lanka and southern peninsular India (Teleostei: Channidae) **Verteb. Zool.** 2020. 70(2): 157–170 2020.
11. Ratnayake I, Mohamed F, Buckley NA, Gawarammana IB, Dissanayake DM, Chathuranga U, Munasinghe M, **Maduwage K**, Jayamanne S, Endre ZH, Isbister GK. (2019). Early identification of acute kidney injury in Russell's viper (*Daboia russelii*) envenoming using renal biomarkers. **PLoS Negl Trop Dis.** 2019 Jul 1;13(7):e0007486. doi: 10.1371/journal.pntd.0007486.
12. Villalta M, Sampaio TL, de Menezes RRPPB, Lima DB, Jorge ARC, Alves RS, Monteiro HSA, Gawarammana I, **Maduwage K**, Malleappah R, León G, Martins AMC, Gutiérrez JM. (2019). Nephrotoxicity induced by the venom of *Hypnale hypnale* from Sri Lanka: Studies on isolated perfused rat kidney and renal tubular cell lines. **Toxicon.** 2019 Jul;165:40-46. doi: 10.1016/j.toxicon.2019.04.014.
13. Sudasinghe H, Pethiyagoda R, **Maduwage K**, Meegaskumbura M. (2019). The identity of the Sri Lankan *Amblypharyngodon* (Teleostei, Cyprinidae). **ZooKeys** 820: 25–49. <https://doi.org/10.3897/zookeys.820.29632>
14. Ratnayake I, Shihana F, Dissanayake DM, Buckley NA, **Maduwage K**, Isbister GK. (2017). Performance of the 20-minute whole blood clotting test in detecting venom induced consumption coagulopathy from Russell's viper (*Daboia russelii*) bites. **Thromb Haemost.** 2017 Feb 28;117(3):500-507. doi: 10.1160/TH16-10-0769.
15. Isbister GK, Jayamanne S, Mohamed F, Dawson AH, **Maduwage K**, Gawarammana I, Lalloo DG, de Silva HJ, Scorgie FE, Lincz LF, Buckley NA. (2017). A randomized controlled trial of fresh frozen plasma for coagulopathy in Russell's viper (*Daboia russelii*) envenoming. **J Thromb Haemost.** 2017 Apr;15(4):645-654. doi: 10.1111/jth.13628.
16. **Maduwage, K.** O'Leary, M. Silva, A. Isbister, GK. (2016). Detection of Snake Venom in Post-Antivenom Samples by Dissociation Treatment Followed by Enzyme Immunoassay. **Toxins:** 28: 8(5), E130.
17. **Kalana Maduwage**, Anjana Silva, Margaret A O'Leary, Wayne C Hodgson, Geoffrey K. Isbister. (2016). Efficacy of Indian polyvalent snake antivenom against Sri Lankan snake venoms: lethality studies or clinically focussed *in vitro* studies. **Nature Scientific Reports.** 6.26778.
18. **Maduwage K**, Scorgie F, Lincz, O'Leary, M. Isbister, GK. (2015). Procoagulant snake venoms have differential effects in animal plasmas: Implications for antivenom testing in animal models, **Thrombosis Research**, 137, 174-177.
19. **Maduwage. K.** Buckley, NA. de Silva, HJ. Lalloo, DG. Isbister, GK. (2015). Snake antivenom for snake venom induced consumption coagulopathy. **Cochrane Database of Systematic Reviews** Issue. 6 Art.No.:CD011428.DOI: 10.1002/14651858.CD011428.pub2.
20. **Maduwage, K.** O'Leary, MA. Scorgie, FE. Shahmy, S. Mohamed, F. Abeysinghe, C. Karunathilake, H. Lincz, L. Gnanathanan, CA. Isbister, GK. (2014). Detection of Venom after Antivenom Is Not Associated with Persistent Coagulopathy in a Prospective Cohort of Russell's Viper (*Daboia russelii*) Envenomings. **PLoS Neglected Tropical Diseases** 8(12): e3304. doi:10.1371/journal.pntd.0003304.
21. **Maduwage, K.** Isbister, GK. (2014). Current Treatment for Venom-Induced Consumption Coagulopathy Resulting from Snakebite. **PLoS Neglected Tropical Diseases.** 8 (10): e3220. doi:10.1371/journal.pntd.0003220.
22. **Maduwage K**, O'Leary M, Isbister GK. (2014). Diagnosis of snake envenomation using a simple Phospholipase A2 assay. **Nature Scientific Reports** 4 (4827): DOI:10.1038/srep04827 (2014).

23. **Kalana Maduwage**, Fiona E. Scorgie, Seyed Shahmy, Fahim Mohamed, Chandana Abeysinghe, Harendra Karunathilake, Lisa F. Lincz, Christeine A. Gnanathan, Geoffrey K. Isbister. (2013). Factor deficiencies in Hump-nosed pit viper (*Hypnale hypnale*) envenoming. *Clinical Toxicology* 51: 527-31.
24. **Kalana Maduwage**, Geoffrey K. Isbister, Anjana Silva, Sunil Bowatta, Suresh Mendis, Indika Gawarammana. (2013). Epidemiology and clinical effects of Hump-nosed pit viper (Genus: *Hypnale*) envenoming in Sri Lanka *Toxicon* 61: 11-15.
25. **Maduwage, K.** Kularatne, K. Wazil, A. Gawarammana, I. (2011). Coagulopathy, acute kidney injury and death following *Hypnale zara* envenoming – The first case report from Sri Lanka. *Toxicon*, 58: 641–643.
26. **Maduwage, K.**, A. Silva, K. Manamendra-Arachchi & R. Pethiyagoda. (2009). A taxonomic revision of the South Asian hump-nosed vipers (Squamata: Viperidae: Crotalinae: *Hypnale*). *Zootaxa* 2232:1–28.
27. **Maduwage, K.**, M. Meegaskumbura, A. Silva & R. Pethiyagoda. (2008). Phylogenetic utility of hemipenial morphology in Sri Lankan agamid lizards. *Current Science* 95: 838–840.
28. Silva A, Johnston C, Kuruppu S, Kneisz D, **Maduwage K**, Kleinfeld O, Smith AI, Siribaddena, S, Buckley, NA, Hodgson, WC, Isbister, GK. (2016). Clinical and Pharmacological Investigation of Myotoxicity in Sri Lankan Russell's Viper (*Daboia russelii*) Envenoming. *PLoS Neglected Tropical Diseases* 10(12): e0005172. doi:10.1371/journal.pntd.0005172.
29. Silva A, **Maduwage K**, Buckley NA, Laloo DG, de Silva HJ, Isbister GK. Antivenom for snake venom-induced neuromuscular paralysis. *Cochrane Database of Systematic Reviews* 2017, Issue 3. Art. No.: CD012604. DOI: 10.1002/14651858.CD012604.
30. Sudasinghe H, R. Pethiyagoda, K. **Maduwage, M.** Meegaskumbura. (2016). *Mystus nanus*, a new striped catfish from Sri Lanka (Teleostei: Bagridae) *Ichthyological Explorations Freshwaters*, Vol. 27, No. 2, pp. 163-172.
31. Sudasinghe H, Pethiyagoda R, **Maduwage K**, Madhava Meegaskumbura. (2019) The identity of the Sri Lankan *Amblypharyngodon* (Teleostei, Cyprinidae). *Zookeys*. 2019 Jan 28;(820):25-49. doi: 10.3897/zookeys.820.29632.
32. Senanayake Kularatne, Kosala Weerakoon, Anjana Silva, **Kalana Maduwage**, Chamara Walathara, Ishani Rathnayake, Senal Medagedara, Ranjith Paranagama, Suresh Mendis, P.V.R. Kumarasiri. (2016). Efficacy of intravenous hydrocortisone administered 24 h prior to antivenom as prophylaxis against adverse drug reactions to snake antivenom in Sri Lanka: An open labelled randomized controlled trial *Toxicon* 120: 159-165.
33. Anjana Silva, **Kalana Maduwage**, Michael Sedgwick, Senaka Pilapitiya, Prasanna Weerawansa, Niroshana J Dahanayaka, Nicholas A. Buckley, Sisira Siribaddana, Geoffrey K. Isbister. (2016). Neurotoxicity in Russell's viper (*Daboia russelii*) envenoming in Sri Lanka: A clinical and neurophysiological study. *Clinical Toxicology* DOI: 10.3109/15563650.2016.1143556).
34. Anjana Silva, **Kalana Maduwage**, Michael Sedgwick, Senaka Pilapitiya, Prasanna Weerawansa, Niroshana Dahanayake, Nicholas A. Buckley, Sisira Siribaddana, Geoffrey K. Isbister. (2016). Common Krait (*Bungarus caeruleus*) envenoming in Sri Lanka: a clinical and neurophysiological study. *PLoS Neglected Tropical Diseases* 10(2): e0004368. doi:10.1371/journal.pntd.0004368.
35. Isbister GK, **Maduwage K**, Scorgie FE, Shahmy S, Mohamed F, Abeysinghe C, Karunathilake, H. Gnanathan, CA. Lincz, LF. (2015). Venom Concentrations and Clotting Factor Levels in a Prospective Cohort of Russell's Viper Bites with Coagulopathy. *PLoS Negl Trop Dis* 9(8): e0003968. doi:10.1371/journal.pntd.0003968.

36. Isbister GK, **Maduwage K**, Saiao A, Buckley NA, Jayamanne SF, Seyed S. Mohamed, F. Chathuranga, U. Mendes, A. Abeysinghe, C. Karunathilake, H. Gawarammana, I. Laloo, DG. De Sliva HJ. (2015). Population Pharmacokinetics of an Indian F(ab')₂ Snake Antivenom in patients with Russell's Viper (*Daboia russelii*) Bites. *PLoS Neglected Tropical Diseases* 9(7): 0003873. doi:10.1371/journal.pntd.0003873.
37. Kularatne, S. A. M., Sivansuthan, S, Medagedara, S. C., **Maduwage, K.**, de Silva, A. (2011). Revisiting saw-scaled viper (*Echis carinatus*) bites in the Jaffna Peninsula of Sri Lanka: ecology, epidemiology and clinical manifestations. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 105 (2011): 591–597.
38. O' Leary MA, **Maduwage K**, Isbister GK. (2015). Detection of venom after antivenom administration is largely due to bound venom. *Toxicon*. 93: 112-11.
39. Kularatne SAM, Silva A, Weerakoon K, **Maduwage K**, Walathara C, Paranagama R, Mendis S. (2014). Revisiting Russell's Viper (*Daboia russelii*) Bite in Sri Lanka: Is Abdominal Pain an Early Feature of Systemic Envenoming? *PLoS One* 9(2): e90198. doi: 10.1371/ journal.pone. 0090198.
40. Kularatne SAM, Silva A, **Maduwage K**, Ratnayake I, Walathara C, Ratnayake C, Mendis S, Parangama R. (2014). Victims' Response to Snakebite and Socio-epidemiological Factors Of 1018 Snakebites in a Tertiary Care Hospital in Sri Lanka. *Wilderness and Environmental Medicine* 25, 35-40.
41. Kularatne SAM, Hettiarchchi R, Dalpathadu J, Mendis ASV, Appuhamy PDSAN, Zoysa HDJ, **Maduwage K**, Weerasinghe VS, de Silva A. (2013). *Enhydrina schistosa* (Elapidae: Hydrophiinae) the most dangerous sea snake in Sri Lanka: Three case studies of severe envenoming *Toxicon* 77, 78-86.
42. Isbister KG, **K. Maduwage**, S. Shahmy, F. Mohamed, C. Abeysinghe, H. Karunathilake, CA Ariaratnam, NA Buckley. (2013). Diagnostic 20-min whole blood clotting test in Russell's viper envenoming delays antivenom administration. *Quarterly Journal of Medicine* doi:10.1093/qjmed/hct102.
43. O'Leary M, **Maduwage K**, Isbister, GK. (2013). Use of immunoturbidimetry to detect venom antivenom binding using snake venoms. *Journal of Pharmacology and Toxicological Methods* 67: 171-181.
44. Isbister GK, **Maduwage K**, Page CB. (2014). Antivenom cross neutralisation in a suspected Asian pit viper envenoming causing severe coagulopathy. *Toxicon* 90: 286-90.
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2. Iresh Chaminda Kandauda, Sachini Lakmini Manatunga, **Kalana Maduwage**, Pushpa Manel Rathnayake, Sampath Tennakoon, Chiran Thejana Gunathilake (2020). Prevalence, Aetiology, Maternal and Neonatal Outcome of Term Mothers with Anaemia, Presenting to a Tertiary Care Unit for Confinement in Sri Lanka. *Advances in Reproductive Sciences* 8 (4): 221-233.
3. Iresh Chaminda Kandauda, Sampath Tennakoon, Pushpa Manel Rathnayake, **Kalana Maduwage**, Thejana Gunathilake (2020). Prevalence and aetiology of anaemia in pregnant women attending a tertiary care unit in sri lanka, and its effect on the mother and newborn. *Sri Lanka Journal of Medicine*. 22 (2); 37-44.
4. Chamara KVDR, Bowattage S, **Maduwage K**. Severe local envenoming and mild coagulopathy following green pit viper (*Trimeresurus trigonocephalus*) bite in Sri Lanka. *Sri Lanka Journal of Medicine* 29 (2): 86-89.
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9. **Maduwage, K.** Hodgson, WC. Konstantakopoulos, N. O'Leary, MA. Gawarammana, I. Isbister, GK. (2011). The in vitro toxicity of venoms from South Asian Hump-nosed pit vipers (Viperidae: *Hypnale*). *Journal of Venom Research* 2: 17–23.
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- **Maduwage, K***. O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A₂ assay. North American Congress of Clinical Toxicology (NACCT), New Orleans, USA. 17-21 October 2014. Oral Presentation no 10.
- **Maduwage, K***. O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A₂ assay. Australian Society for Medical Research (ASMR) 23rd Annual Scientific Meeting, Powerhouse Museum, Sydney, Australia. 2nd June 2015. Presentation no: 91.
- **Maduwage, K***. Buckley, NA. de Silva, HJ. Lalloo, DG. Isbister, GK. (2015). Snake antivenom for snake venom induced consumption coagulopathy – A Cochrane Review. (2014). Australian Society for Medical Research (ASMR) 23rd Annual Scientific Meeting, Powerhouse Museum, Sydney, Australia. 1st June 2014. Presentation no: 31.
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- Silva, A*. **Maduwage, K.** Siribaddana, S. Isbister, GK. (2015). Adult snakebite patients admitted to a tertiary care centre in rural Sri Lanka: A Cohort Study. Asia Pacific Association of Medical Toxicology (APAMT), University of Western Australia, Perth, Australia. Presentation no: 05. 14th APAMT Conference Proceedings.
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- O'Leary, MA*. **Maduwage, K.** Isbister, GK. Detection of venom post-antivenom (Venom antigemaemia) is largely due to Vavaemia. Scientific Meeting of Toxicology And Poisons Network Australasia (TAPNA) 2014. Newcastle, Australia. 30th April – 3rd May 2014. Conference proceedings p. 31.
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- 2011. Sivansuthan, S. Kularatne, S. **Maduwage, KP.** Ratnayake, I*. Peranagama, R. Mendis, S. Medegedera, SC. Walatara, C. Ratnayake, RIS. (2011). A Descriptive Study of Offending Species and Epidemiology of Snake Bites of Two areas in the Dry Zone of Sri Lanka: Anuradhapura and Jaffna. Proceedings of the Peradeniya University Research Sessions. Sri Lanka. Vol 16, p 99.
- Pushpakumara, PHGJ*. Priyashantha, AG. **Prasad, MK.** Prasad, MKM. Prasanna, AA. Pandian, R. Ranaraja, RMRD. Ranasingha, Y. Ranaweera, UPNP. (2011). Effects of environmental temperature on visual and auditory reaction time in healthy young adults. *The Kandy Society of Medicine, 33rd Annual Academic Sessions.* p. 36-37.
- Medegedara, SC*. Kularatne, SAM. **Maduwage, K.** Sivansuthan, S. de Silva, A. (2011). Epidemiology of snake bites in Jaffna Peninsula: A hospital based study. *The Kandy Society of Medicine, 33rd Annual Academic Sessions.* p. 130.
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- **Maduwage, K*.** O’Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A₂ assay. Australian Society For Medical Research (ASMR) Satellite Scientific Meeting, 21st March 2014. Hunter Medical Research Institute. Newcastle, Australia. Presentation no 54.
- **Maduwage, K*.** O’Leary, MA. Scrogie, F. Shahmy, S. Abeysinghe, C. Isbister, G. (2013). Venom Recurrence in Russell’s Viper (*Daboia russelii*) Envenoming in Sri Lanka. Asia Pacific Association of Medical Toxicology (APAMT), Dubai. 21st – 23rd November 2013. Presentation no: 34. 12th APAMT Conference Proceedings p. 94.
- Silva A*, Gunawardena P, , **Maduwage K,** Gawarammana I, Weilgama D. 2011. Comparison of in-vivo toxicity of venoms from south Asian hump-nosed pit vipers (Viperidae: *Hypnale*) 10th Asia Pacific Association of Medical Toxicology Conference, Penang, Malaysia. Presentation no: 11
- Silva A,* Gunawardena P, Weilgama D, Gawarammana I, **Maduwage K.** 2011. Comparison of in-vivo nephrotoxicity caused by the venoms of south Asian hump-nosed pit vipers (Viperidae: Crotalinae: *Hypnale*) 2nd Annual Research Session, Rajarata University of Sri Lanka. Page 149-152.

RESEARCH FEATURED IN INTERNATIONAL / NATIONAL MEDIA

- <http://www.abc.net.au/science/articles/2014/06/05/4018712.htm?site=tv&topic=latest>
- <https://www.sbs.com.au/news/aussies-develop-rapid-test-for-snake-venom>
- <https://www.novabiostorage.com/sample-storage-news/blood-test-developed-to-detect-venom-in-snakebites>
- <https://www.9news.com.au/health/2014/06/02/14/17/aussies-develop-rapid-test-for-snake-venom>
- <http://scientist.lk/2016/11/18/a-sri-lankan-innovation-short-listed-for-aspirin-social-innovation-awards-2016/>
- <http://www.sundaytimes.lk/180715/news/how-to-keep-our-serpents-in-paradise-302412.html>
- <https://www.dailymail.co.uk/news/article-2645716/Aussies-develop-rapid-test-snake-venom.html>

- <https://window2nature.wordpress.com/2016/10/01/study-shows-problems-with-snake-antivenom/>
- <https://www.research.bayer.com/en/snake-venom-antidote-research.aspx>
- <http://scientist.lk/2016/11/18/a-sri-lankan-innovation-short-listed-for-aspirin-social-innovation-awards-2016/>

DISSEMINATION OF RESEARCH AND TEACHING EXPERIENCE

Orations

- 2017. **SLMA Oration; Dr. S. Ramachandran Oration at Sri Lanka Medical Association 130th International Sessions.** July 2017 at Hotel Galadari, Colombo, Sri Lanka. Title of the Oration is “Diagnosis of snake envenoming: A challenge of 21st century in tropics”.
- 2017. **Bibile Memorial Oration,** 39th Annual Academic Sessions at Kandy Society of Medicine, Kandy, Sri Lanka. Title of the oration: “Snakebite coagulopathy, Controversies on understanding and management”.
- 2017. **KSM (Kandy Society of Medicine) Health Research Prize and the Oration.** “Evidence Based Clinical Practice; A Paradigm shift of snake envenoming management”. National Agricultural Information and Communication Centre, Gannoruwa, Kandy, Sri Lanka.

Keynote speeches, invited speeches, resource persons at scientific conferences and workshops

- Invited speech World Health Summit October 2017, Berlin, Germany. Rapid Venom Test Device – Solving a Medical Dilemma. Invited Speaker. At Kosmos, Karl-Marx-Allee. Berlin Germany.
- Invited speech at Institute of Clodomiro Picado (ICP), University of Costa-Rica. 22.03.2017. Guest Lecture “Potentials and Limitations of snake antivenoms in the management of snake envenoming”.
- Invited speech at academic staff of Division of Biology and Biological Engineering, California Institute of Technology (Caltech), California, USA. 11.04.2017. Guest Lecture “Snake envenoming: burden, challenges. Antivenom and beyond”.
- Invited speech at the 12th International Conference of Asia Pacific Association of Medical Toxicology (APAMT), Dubai. 2013. Keynote Speaker “Assessment of efficacy and effectiveness of snake antivenoms”.
- Conference of Toxicology and Poisoning network of Australasia (TAPNA), Newcastle, Australia. 2013 “Assessing the efficacy of antivenoms for Sri Lankan venomous snakes”. Keynote speaker and
- Invited speaker at the Sri Lanka Emergency Medical Congress, Water’s Edge, Colombo. November 2017.
- Annual Academic Sessions, Ceylon College of Physicians (CCP), Cinnamon Grand Hotel, Colombo. 22.09.2016. Workshop “Management of snake envenomation based on latest evidence from Sri Lanka”.

- Invited talk based on original research findings from the faculty alumni at The 50th Anniversary Celebrations, Faculty of Medicine, University of Peradeniya. January 2012. “Hump-nosed pit vipers: Species specific toxicity and clinical profile following a taxonomic revision”, .
- Seminar at Veterinary Teaching Hospital, Faculty of Veterinary Medicine, University of Peradeniya. 23.03.2015. Invited symposium lecture on “Effectiveness of antivenom against snakes in Sri Lanka”.
- Guest Lecture at Centre For Research in Tropical Medicine (CRTM), Faculty of Medicine, University of Peradeniya. 17.03.2015 “Effectiveness of antivenom against snakes in Sri Lanka”.
- Annual Scientific Sessions 2017- Batticaloa Medical Association. Seminar on “Better outcomes of snake envenoming management based on recently uncovered knowledge”.
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Faculty of Medicine, General Sir John Kotelawala Defense University, Colombo. December 2018.
- Annual Academic Sessions, Ceylon College of Physicians (CCP), Cinnamon Grand Hotel, Colombo. 22.09.2016. Workshop “Management of snake envenomation based on latest evidence from Sri Lanka”.
- Colombo Conference on Medical Education. 10th and 11th November 2017, Colombo, Sri Lanka.
- Foundation Sessions of the Sri Lanka Medical Association (SLMA) 2016, Lionel Memorial Auditorium of SLMA, Colombo. 22.10.2016. “Management of snakebites”.
-
- Library User Seminar sponsored by the WHO through the Ministry of Health and conducted by the Health Literature Library and Information Services (HaLLIS) Network. Nursing Training School, Kandy. 29.09.2016. “EndNote Reference Manager”.
- Workshops of Human structure and function organize by the Department of Anatomy, Faculty of Medicine, University of Peradeniya. 4 workshops during 2017.
- Post graduate Ms Gyn/Obs course (Gynaecology and Obstetrics part 1) conducted by the Department of Gynaecology and Obstetrics, Faculty of Medicine, Peradeniya. 2016.
- Post graduate Ms Gyn/Obs course (Gynaecology and Obstetrics part 1) conducted by the Department of Gynaecology and Obstetrics, Faculty of Medicine, Peradeniya. 2017.
- Workshop. “Understanding your higher degree: Things you wont’s find in books” for the higher degree candidates of the Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka on 13th December 2017.
- Snakes and the Epidemiology of snake bites. “global Health Seminar on snakebites and Management” Cross-disciplinary Course on Global Health and Research. Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka on 11th August 2017.
- 2017. Re-integration workshop for newly returned Australia Awards Scholars held on the 8th of December 2017, Australia Awards Sri Lanka.

- Invited speech at the Sri Lanka Emergency Medicine Congress, 2017. At Water's Edge, Colombo on 12th November 2017. "How many vials of antivenom do we need"
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Faculty of Medicine, General Sir John Kotelawala Defense University, Colombo. 08.04.2016 "Better outcomes of Sri Lankan snake envenoming with recently uncovered knowledge",
- Resource person at The toxicology workshop adjoining to Sri Lanka Emergency Medicine Congress, 2017. At Kothalawala Defense University on 6th November 2017.
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Waters Edge, Colombo, 04.12.2016. "Management of snake envenoming based on latest evidence from Sri Lanka",
- Workshop of Toxicology And Poisons Network Australia (TAPNA), APAMT 2015 pre congress symposium, University of Western Australia, Perth, Australia. 02.12.2012. "Better outcomes of Asian snake envenoming with recently uncovered knowledge".

MEMBERSHIPS AND AFFILIATIONS

- International Society of Toxicology (IST)
- Australian Society for Medical Research (ASMR)
- Asia Pacific Association of Medical Toxicology (APAMT)
- Member of the Snakebite Experts Committee, Sri Lanka Medical Association. Sri Lanka.
- Referee of the Sri Lanka Journal of Medicine (SJM).
- Viper specialized group, IUCN (International Union for Conservation of Nature)
- Member, Centre for Research in Tropical Medicine (CRTM), University of Peradeniya, Sri Lanka
- Member of Ethical Review Committee, Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Secretary - Higher Degree Committee, Faculty of Medicine, University of Peradeniya

ACADEMIC BOOKS PUBLISHED

- **Snake Fauna of Sri Lanka with special Reference to Skull, Dentition and Venom.** Co-authored with Dr. P. H. D. H. De Silva. S. Godage publishers, Colombo. 452 pp. ISBN: 978-955-30-9024-9 <http://www.godage.com/book-details/environment/9645-snake-fauna-of-sri-lanka-with-special-reference-to-skulldentiton-and-venomrevised-edition.html>
- Editor of textbook "**Tropical Medicine with Special Reference to Sri Lanka**" 1st Edition, 315 pp. Published by Centre for Research in Tropical Medicine. ISBN: 978-955-589-295-7.
- Book Chapter: Maduwage K, Kularatne SAM. **Snake Envenomation in Tropics**" in Tropical Medicine with Special Reference to Sri Lanka" 1st Edition, 292-306 pp. Published by Centre for Research in Tropical Medicine. ISBN: 978-955-589-295-7.
- Expert Review of **First Aid Manual (English), St John Sri Lanka.** 1st Edition. 184 pp. ISBN: 978-955-9200-04-8.
- Expert Review of **First Aid Manual (Sinhala), St John Sri Lanka.** 1st Edition. 184 pp. ISBN: 978-955-9200-06-2.

OTHER SCIENTIFIC CONTRIBUTIONS

Free web based snake identification service for Sri Lanka. <https://snakesidentification.org/>

Any one can submit their query of snake identification (details and images) to this website and the team identifies the snake and respond to the person immediately.

Youtube lecture series of snake envenoming. Nine vocalized lecture series “Snakebites; the Whole Story”. e-Learning material for undergraduate and post-graduate medical students. https://www.youtube.com/watch?v=1YBKgp2Luq4&list=PLbK1TKLi_KNWZ5J-MskTeKrL2z1UetujF

ACADEMIC REFERENCES

Professor Wayne C. Hodgson

Deputy Dean (Education) in the Faculty of Medicine, Nursing and Health Sciences at Monash University and a Professor of Pharmacology.

Monash University, Victoria, Australia

Telephone: +61 3 9905 4861

E.mail: wayne.Hodgson@monash.edu

Professor Indika Bandara Gawarammana

Senior Professor, Department of Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka

Telephone: +94 7 1422 5081

Mr Rohan Pethiyagoda

Ichthyology Section, Australian Museum, 1 College Street, Sydney, NSW 2010, Australia

E.mail: rohanpet@gmail.com

+94 7 7227 6426

Emirates Professor José María Gutiérrez Gutiérrez Ph.D

Institute of Clodomiro Picado (ICP)

University of Costa-Rica

Costa-Rica

Telephone +506 2511-7865

E mail: josemorama@gmail.com

VERIFICATION STATEMENT

I verify that the information contained within this Curriculum Vitae is true and correct as at 12th January 2022.



Maduwage Kalana Prasad