

CURRICULUM VITAE

Professor Michael Philip Eddleston ScD FRCPedin FEAPCCT

Professor of Clinical Toxicology & Lister Research Prize Fellow
Pharmacology, Toxicology & Therapeutics, Centre for Cardiovascular Science, University of Edinburgh
Honorary Consultant in Clinical Toxicology & Pharmacology, Royal Infirmary, Edinburgh
Director and Consultant, National Poisons Information Service - Edinburgh, Royal Infirmary, Edinburgh
Guest Professor of International Health, University of Copenhagen

Personal Statistics

Place of birth: Clitheroe, Lancashire
Date of birth: 23rd March 1969

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Education

ScD	University of Cambridge, November 2014
FBPharmacolS	November 2014
FEAPCCT	January 2014 (Inaugural Fellow)
FRCP Edin	November 2010
CCT	November 2008 in Clinical Pharmacology and Therapeutics
MRCP	March 2001
BM	University of Oxford, Christ Church, July 1998.
PhD	The Scripps Research Institute, La Jolla, USA and University of Cambridge, 1994.
BA	(1st Class with Honours) University of Cambridge, Fitzwilliam College, 1990.

Substantial Comparability to an Australian-trained Specialist in Clinical Pharmacology and Therapeutics
granted after interview by RACP, Mar 2012

GCP March 2014
ALS update August 2012

Competitive Fellowships

- Lister Research Prize Fellowship 2011
- Scottish Senior Clinical Research Fellowship 2009
- Wellcome Trust Career Development Fellowship 2002
- Foulkes Fellowship 1994

Awards and Honours

- Runner up, Edinburgh Bioquarter Innovation Competition, 2013
- Lister Research Prize Fellowship, Lister Institute for Preventative Medicine, 2011
- GSK Prize for Research in Clinical Pharmacology, British Pharmacological Society, 2008
- Best Emerging Medical Researcher in the UK, BUPA Foundation, 2008
- 35th Croom Lecturer, Royal College of Physicians of Edinburgh, 2008
- IUTOX International Congress of Toxicology Inaugural Triennial Early Toxicologist Award, 2007
- Foulkes Foundation Travelling Fellowship, 2007
- Ernest Foulkes Research Prize, 2006
- Invited Keynote Address, 1st Joint Academic Sessions of the Faculties of Medicine and Science, Colombo University, June 2004
- Merit Award, Nuffield Department of Clinical Medicine, Oxford University, 2003
- Representative of the Oxford Centre for Tropical Medicine, Queen's Anniversary Prizes for Higher and Further Education, Buckingham Palace, February 2001
- Clinical Scholarship, University of Oxford Medical School, 1994 - 1997
- Ida Mary Henderson Scholarship, Christ Church, 1994 - 1997
- Foulkes Fellowship, 1994 - 1997
- Wolfson Scholarship, 1994 - declined
- Instituto Juan March de Estudios e Investigaciones Fellowship, Spain, 1994
- Society of Fellows Travel Award, The Scripps Research Institute, 1993
- Student Travel Award, American Society for Virology, 1992
- G Fulton-Roberts Prize for Immunology, University of Cambridge, 1990
- Tripos Prize, Fitzwilliam College, 1990
- Senior Scholarship, Fitzwilliam College, 1990
- Wellcome Trust Vacation Research Scholarship, 1990
- Nuffield Foundation Vacation Research Scholarship, 1990 - declined
- H E Durham Bursary, Kings College, 1990
- Gent Prize for Medical Sciences, 1989
- Scholarship, Fitzwilliam College, 1989
- Council of Senate, University of Cambridge, 1989-1990
- Scholarship to the Summer Science Course, Weizmann Institute of Science, Israel, 1986

Membership of Professional Societies

- Association of Physicians of Great Britain and Ireland (from April 2010)
- Royal College of Physicians of Edinburgh
- Asia-Pacific Association of Medical Toxicology - *board member 2007-12, scientific chair 2010-12*
- Royal Society of Tropical Medicine and Hygiene
- European Association of Poisons Centres and Clinical Toxicologists - *journal editorial board 2010*
- British Toxicology Society
- British Pharmacology Society

- **Chair of the Scientific Committee** for the Annual Congresses of the Asia Pacific Association of Medical Toxicology, Penang 2011 and Hong Kong 2012.

Academic Positions

- Guest Professor, Department of International Health, Immunology and Microbiology (ISIM), University of Copenhagen, Denmark. Dec 2013 - current
- Visiting Professor, Department of International Health, Immunology and Microbiology (ISIM), University of Copenhagen, Denmark. Aug 2011 - Jul 2013
- Reader, Clinical Pharmacology Unit, University/BHF Centre for Cardiovascular Science, University of Edinburgh. Aug 2011 - July 2013
- Scottish Senior Clinical Research Fellow, Clinical Pharmacology Unit, University/BHF Centre for Cardiovascular Science, University of Edinburgh. Dec 2009 - Nov 2013
- Clinical Lecturer, Clinical Pharmacology Unit, Centre for Cardiovascular Science, University of Edinburgh. Nov 2007 - Nov 2009

- Wellcome Trust Career Development Fellow, Clinical Pharmacology Unit, Centre for Cardiovascular Science, University of Edinburgh. Nov 2006 - Oct 2007
- Wellcome Trust Career Development Fellow, Centre for Tropical Medicine, University of Oxford, and Department of Clinical Medicine, University of Colombo, Sri Lanka. Nov 2001 - Nov 2006.

Clinical Positions

- Director, National Poisons Information Service - Edinburgh unit, Royal Infirmary of Edinburgh. Apr 2012 - current
- Consultant in Clinical Toxicology and Pharmacology, National Poisons Information Service, Royal Infirmary, Edinburgh. Dec 2009 - current
- Locum Consultant in Clinical Pharmacology and Toxicology, Regional Drug and Therapeutics Centre, Newcastle upon Tyne NHS Foundation Trust, & Royal Infirmary of Edinburgh. Sep 2008 - Nov 2009
- Specialist Registrar in GIM/CPT, Royal Infirmary, Edinburgh. Nov 2005 - Aug 2008
- SHO jobs in Neurology, Tropical Infectious Disease, and Medicine. Brighton and London, 1999 - 2001. HO jobs in Brighton and Paisley, 1998 - 1999

WHO Adviser

- Joint Meeting on Pesticide Management of the FAO and WHO, Oct 2014
- WHO Evidence & Policy on Environmental Health. Presentation at the 8th Congress of Toxicology in Developing Countries, Sept 2012, Bangkok
- WHO Evidence & Policy on Environmental Health, Sub-regional workshop on Poisons Centres and Management of Poisoning June 2010, Accra, Ghana
- WHO Dept of Mental Health, Management of Pesticide Poisoning, Dec 2007, Bangkok.
- WHO Dept of Mental Health, Prevention of Pesticide Suicides, Nov 2003, Geneva.

Scientific Interactions with the Public

Canadian Broadcasting Corporation. The Fifth Estate: *Death in Paradise*. Transmitted on 25th January 2013. Consultant. (<http://www.cbc.ca/fifth/2012-2013/2013/01/death-in-paradise.html>; <https://vimeo.com/58476002> password 'paradise7627')

Medical Detectives lecture series, University of Edinburgh, Oct 2011
(<http://www.youtube.com/watch?v=n1W4ioJyOQU>)

Podcast - British Pharmacological Society <http://www.youtube.com/user/BritPharmSoc>, Dec 2009

Me and my Poison: Oleander Poisoning. **BBC Radio 4**. Transmitted on 11th April 2006 at 09.30.
(<http://news.bbc.co.uk/1/hi/health/4888840.stm>)

The Month of October. Documentary film on pesticide poisoning. **Purple House Productions, Colombo, Sri Lanka**. Completed April 2006

Interactions with Policy Makers

Mental Health Innovation Network (MHIN) online repository (produced for delegates at the World Innovation Summit for Health, Qatar, December 10-11, 2013.

See http://mhinnovation.net/innovations/pesticide-regulation-suicide-prevention#.U-sEs_IdWul

Committees

- Phase I/First-into-Human Study Scientific Review Committee, University of Edinburgh & NHS Lothian, Dec 2009 - current.
- Department of Health Expert Advisory Group on Antivenoms, Nov 2010 - current
- Clinical Standards Group, National Poisons Information Service, UK, Apr 2012 - current
- Toxbase Editing Group (Chair), National Poisons Information Service, UK, Apr 2012 - current
- MHRA Committee on Implementation of Changes to the Management of Paracetamol Overdose, Commission on Human Medicines, May - Jun 2012

Editorial Boards

- Clinical Toxicology, 2010 - current
- Anuradhapura Medical Journal, 2013 - current

RESEARCH**Aims**

My work's major aim is to reduce deaths from pesticide and plant self-poisoning in rural Asia, a cause of over 350,000 premature deaths each year and the number one global means of suicide. To do this, I perform clinical trials in South Asian district hospitals to better understand the pharmacology and effectiveness of antidotes and community-based controlled trials to identify effective public health interventions. This work is complemented by translational studies of antidotes in minipig models of poisoning in a large animal critical care laboratory that I have established in Edinburgh, work with sociologists and anthropologists to better understand the meaning of self-harm, and work with the World Health Organisation to aid implementation. I also perform clinical and animal research in Edinburgh to improve treatment of other forms of poisoning (such as from cyanide, alcohol, and contrast media) by developing novel antidotes.

Grants - current

A large animal critical-care laboratory with 24/7 specialist anaesthesia support - a UK national resource for scientists working in translational research 2015-2020. Principal investigator. Wellcome Trust, ref 104972, £1,247,533.

A pilot study of neuromuscular blocking agents to reduce the need for long term ventilation in Sri Lankan patients with organophosphorus insecticide poisoning 2014. Principal investigator. Association of Physicians Links with Developing Countries Scheme, £13,300. [NCT02147054]

Does acute poisoning with organophosphorus insecticides increase the risk of developing diabetes mellitus? 2014-15. Project Grant. Principal investigator. Novo Nordisk Foundation, DKK 250,000.

Preventing pesticide suicides by restricting access through vendors 2014-16. Distinguished Investigator Project Grant. Principal investigator. American Foundation for Suicide Prevention, \$99,905.

National Poisons Information Service Pesticide Surveillance Project 2013-15, continuation of project funding. Principal investigator. UK Department for Environment, Food and Rural Affairs, £176,178.

Development of a bioartificial liver therapy in acute liver failure 2012-15. Co-investigator. European Union FP7, €5,996,200.

A mouse model of OP pesticide poisoning. PhDship for Kosala Dissanayake 2011-14. Charles Darwin Scholarship, £42,000; Cheminova, £12,000.

Prevention of deaths from late respiratory failure in organophosphorus pesticide poisoning 2011-16. Prize winner. Lister Institute of Preventative Medicine, £200,000.

A community trial to determine whether 'Safe Storage' reduces pesticide self-poisoning in rural Asia 2010-15. Principal investigator. Wellcome Trust, ref 090958, £1,021,368. [NCT01146496]

Mechanisms for an effect of N-acetylcysteine on renal function after exposure to radiographic contrast material; 2007-14. Principal Investigator. CSO, Scotland; ref 4/459. £407,352 [NCT00558142]

Grants - past

Prophylactic efficacy of cyanide antidotes to cyanide exposure in minipigs 2011-13. Co-investigator. Dstl, UK, £158,467

Novel therapies for respiratory complications of organophosphorus pesticide poisoning in a minipig model 2010-13. Principal investigator. Wellcome Trust, ref 090886, £425,591.

A cluster RCT of educational interventions to improve the treatment of acute poisoning in rural Asian hospitals; 2010-13. Co-investigator. National Health & Medical Research Council, Australia, ref 630650. Aus\$724,090.

Project manager for cluster randomized controlled trial of 'safe storage' to prevent pesticide self-poisoning in Sri Lanka 2010-12.. Principal investigator. University of Copenhagen, £68,979.

Antidote pharmacokinetics following intraosseus administration in minipigs 2010-11. Co-investigator. Home Office, UK,. £265,000

Scottish and Newcastle antiemetic pre-treatment for paracetamol poisoning study 2010-12. Co-investigator (deputy Chief Investigator). Chief Scientist's Office, Scotland; ref CZB/4/722. £189,478. [NCT01050270]

Studies of the organophosphorus hydrolase enzyme OpdA – moving into clinical development; 2009-11. Principal Investigator. Chief Scientist's Office, Scotland; ref SCD/05. £88,250.

Pathophysiology and management of organophosphorus pesticide poisoning; 2009-13. Scottish Senior Clinical Research Fellowship. Chief Scientist's Office, Scotland. £390,000.

Development of a minipig model of organophosphorus pesticide poisoning; 2008-9. Principle investigator. Wellcome Trust, ref 085979. £123,837.

Use of an organophosphorus hydrolase for acute organophosphorus poisoning; 2007-9. Co-investigator. National Institutes of Health, USA. US\$437,187.

Role of immunosuppression in the treatment of acute paraquat self-poisoning – a randomized controlled trial; 2005-10. Co-Investigator. Syngenta Corporation. US\$380,000.

Safe storage and disposal of pesticide containers at community level – feasibility and impact; 2005-6. Co-Investigator. Council for Development Research, Danish Ministry of Foreign Affairs. 724,457 Danish Krona

Effect of paraquat formulation change on morbidity and mortality; 2004-9. Co-Investigator. Syngenta Corporation. US\$600,000.

Reducing deaths from pesticide poisoning - establishing a regional toxicology research centre in Sri Lanka; 2004-9. Co-writer and Associate Investigator. Wellcome Trust and National Health & Medical Research Council, Australia, ref 071669. £1,250,000.

Acute organophosphorus pesticide poisoning in Sri Lanka - management, complications and pharmacogenetics; 2001-7. Intermediate Fellowship. Wellcome Trust, ref 063560. £699,801.

Total grants to Jan 2014: £ 11,541,735

PI Grants to Jan 2014: £ 3,371,831

Students

E Sandilands (2008-2011, MD), C Plunkett (Wellcome Trust Vacation Scholar 2009), K Dissanayake (2011-2014, Charles Darwin PhD scholar), J Ivy (BPS Vacation Scholar 2011), C Bowbeer (BPS Vacation Scholar 2011), E Hulse (2012-2015, Royal Navy PhD), Lizell Madsen (2012-2015, University of Copenhagen PhD), Viktoriia Starokozhko (2012-2013, Erasmus program MSc), Lisa Konickx (2013, Erasmus program MSc), Bhavini Mistry (2013, Lister Institute Summer Student).

Key journal articles

1. Hulse EJ, Davies JOJ, Simpson AJ, Sciuto A, *Eddleston M*. Respiratory complications of organophosphorus nerve agent and insecticide poisoning - implications for respiratory and critical care. **American Journal of Respiratory & Critical Care Medicine** 2014, 190, 1342-1354.
2. Bateman N, Dear JW, Thanacoody HKR, Thomas SHL, *Eddleston M*, Sandilands EA, Coyle J, Cooper JG, Rodriguez A, Butcher I, Lewis SC, Vliegenthart ADB, Veiraiah A, Webb DJ, Gray A. Reducing adverse effects from intravenous acetylcysteine treatment of paracetamol poisoning: a randomised controlled trial. **Lancet** 2014, 383: 697-704.

3. Eddleston M, Street JM, Self I, Thompson A, King T, Williams N, Naredo G, Yu L-M, Dissanayake K, Worek F, John H, Smith S, Thiermann H, Harris JB, Clutton RE. A role for solvents in the toxicity of agricultural organophosphorus pesticides. **Toxicology** 2012, 294: 94-103. (Google citations: 7)
4. Dawson AH*, Eddleston M*, Fahim M, Senarathna L, Gawarammana I, Bowe S, Manuweera G, Buckley NA. A prospective cohort study of the acute human lethal toxicity of agricultural pesticides - implications for improving regulation and reducing global suicide. **PLoS Medicine** 2010, 7:e1000357 (* co-first author). (Google citations: 35)
5. Eddleston M, Eyer P, Worek F, Juzszczak E, Alder N, Mohamed F, Senarathna L, Hittarage A, Azher S, Jeganathan K, Jayamanne S, von Meyer L, Dawson AH, Sheriff MHR, Buckley NA. Pralidoxime in acute organophosphorus insecticide poisoning - a randomised controlled trial. **PLoS Medicine** 2009, 6: e1000104. (Google citations: 39)
6. Wilks MF, Fernando R, Ariyananda PL, Eddleston M, Berry DJ, Tomenson JA, Buckley NA, Jayamanne S, Gunnell D, Dawson AH. Improvement in survival after paraquat ingestion following introduction of a new formulation in Sri Lanka. **PLOS Medicine** 2008, 5: e49. (Google citations: 43)
7. Eddleston M, Buckley NA, Senarathna L, Mohammed F, Dissanayake W, Hittarage A, Azher S, Jeganathan J, Jayamanne S, Sheriff MHR, Warrell DA, for the Ox-Col Poisoning Study collaborators. Multiple dose activated charcoal in acute self-poisoning - a randomised controlled trial. **Lancet** 2008, 371: 579-586. (Google citations: 87)
8. Eddleston M, Buckley NA, Eyer P, Dawson AH. Medical management of acute organophosphorus pesticide poisoning. **Lancet** 2008, 371: 597-607. (Google citations: 253)
9. Eddleston M, Eyer P, Worek F, Mohamed F, Senarathna L, von Meyer L, Juzszczak E, Hittarage A, Azher S, Dissanayake W, Sheriff MHR, Szinicz L, Dawson AH, Buckley NA. Differences between organophosphorus insecticides in human self-poisoning - a prospective cohort study. **Lancet** 2005, 366: 1452-59. (Google citations: 169)
10. Eddleston M, Senarathna L, Mohammed F, Buckley N, Juzszczak E, Sheriff R, Ariaratnam A, Rajapakse S, Warrell DA, Rajakanthan K. Deaths due to absence of an affordable antitoxin for plant poisoning. **Lancet** 2003, 362:1041-1044. (Google citations: 36)
11. Eddleston M, Karalliedde L, Buckley N, Fernando R, Hutchinson G, Isbister G, Konradsen F, Murray D, Piola JC, Senanayake N, Sheriff S, Singh S, Siwach SB, Smit L. Pesticide poisoning in the developing world - a minimum pesticide list. **Lancet** 2002, 360:1163-1167. (Google citations: 222)
12. Eddleston M. Patterns and problems of deliberate self-poisoning in the developing world. **Quarterly Journal of Medicine** 2000, 93:715-731. (Google citations: 384)
13. Eddleston M, Rajapakse S, Rajakanthan K, Jayalath S, Sjostrom L, Santharaj W, Thenabadu PN, Sheriff MHR, Warrell DA. Anti-digoxin Fab fragments in cardiotoxicity induced by ingestion of yellow oleander: a randomised controlled trial. **Lancet** 2000, 355:967-972. (Google citations: 78)
14. Eddleston M, Sheriff MHR, Hawton K. Deliberate self-harm in Sri Lanka - an overlooked tragedy in the developing world. **British Medical Journal** 1998, 317:133-135. (Google citations: 165)
15. Eddleston M, Mucke L. Molecular profile of reactive astrocytes - implications for their role in neurologic disease. **Neuroscience** 1993, 54:15-36. (Google citations: 1269)

All journal articles (total citations October 2014: 5831, h-index 36 [Scopus] ; 8195, h-index 42 [Google])

1. Hulse EJ, Davies JOJ, Simpson AJ, Sciuto A, Eddleston M. Respiratory complications of organophosphorus nerve agent and insecticide poisoning - implications for respiratory and critical care. **American Journal of Respiratory & Critical Care Medicine** 2014, 190, 1342-1354.
2. Kamour A, James D, Lupton DJ, Cooper G, Eddleston M, Vale AJ, Thompson JP, Thanacoody HK, Hill SL, Thomas SHL. Patterns of presentation and clinical features of toxicity after reported use of ([2-aminopropyl]-2,3-dihydrobenzofurans), the 'benzofuran' compounds. A report from the National Poisons Information Service. **Clinical Toxicology** 2014, in press.

3. Kamour A, Gwynnette D, George N, Cooper G, Lupton DJ, *Eddleston M*, Thompson JP, Vale AJ, Thanacoody HK, Hill SL, Thomas SHL. Increasing frequency of severe clinical toxicity after use of 2,4-dinitrophenol in the UK: a report from the National Poisons Information Service. **Emergency Medicine Journal** 2014, in press.
4. Bateman DN, Dear JW, Carroll R, Pettie J, Yamamoto T, Elamin MEMO, Peart L, Dow M, Coyle J, Gray A, Dargan PI, Wood DM, *Eddleston M*, Thomas SHL. Impact of reducing the threshold for acetylcysteine treatment in acute paracetamol poisoning: the recent United Kingdom experience. **Clinical Toxicology** 2014, 52: 868-872.
5. Knipe DW, Metcalfe C, Fernando R, Pearson M, Konradsen F, *Eddleston M*, Gunnell D. Suicide in Sri Lanka 1975-2012: Age, period and cohort analysis of police and hospital data. **BMC Public Health** 2014, 14:839.
6. Knipe DW, Pearson M, Borgström R, Pieris R, Weerasinghe M, Priyadarshana C, *Eddleston M*, Gunnell D, Metcalfe C, Konradsen F. Challenges and opportunities of a paperless baseline survey in Sri Lanka. **BMC Research Methods** 2014, 7:452.
7. Bateman DN, Carroll R, Pettie J, Yamamoto T, Elamin MEMO, Peart L, Dow M, Coyle J, Cranfield KR, Hook C, Sandilands EA, Veiriah A, Webb DJ, Gray A, Dargan PI, Wood DM, Thomas SHL, Dear JW, *Eddleston M*. Effect of the UK's revised paracetamol poisoning management guidelines on admissions, adverse reactions, & costs of treatment. **British Journal of Clinical Pharmacology** 2014, 78:610-618.
8. Perry L, Adams RD, Bennett A, Lupton DJ, Jackson G, Good AM, Thomas SH, Vale JA, Thompson J, Bateman DN, *Eddleston M*. National toxicovigilance for pesticide exposures resulting in healthcare contact - an example from the UK's National Poisons Information Service. **Clinical Toxicology** 2014, 52: 549-55.
9. Konickx LA, Bingham K, *Eddleston M*. Is oxygen required before atropine administration in organophosphorus or carbamate pesticide poisoning? - a cohort study. **Clinical Toxicology** 2014, 52: 531-7.
10. Thompson J, Watson I, Thanacoody H, Morley S, Thomas S, *Eddleston M*, Vale J, Bateman D, Krishna C. Guidelines for laboratory analyses for poisoned patients in the United Kingdom. **Annals of Clinical Biochemistry** 2014, 51: 312-25.
11. Hulse EJ, Clutton RE, Drummond G, *Eddleston M*. Translational toxicological research: investigating and preventing acute lung injury in organophosphorus insecticide poisoning. **Journal of the Royal Army Medical Corps** 2014, 160 :191-2.
12. Weerasinghe M, Pearson M, Peiris R, Dawson AH, *Eddleston M*, Jayamanne S, Konradsen F. The role of private pesticide vendors in preventing access to pesticides for self-poisoning in rural Sri Lanka. **Injury Prevention** 2014, 20: 134-7.
13. Kamour A, James D, Spears R, Cooper G, Lupton DJ, *Eddleston M*, Thompson JP, Vale AJ, Thanacoody HK, Hill SL, Thomas SH. Patterns of presentation and clinical toxicity after reported use of alpha methyltryptamine in the United Kingdom. A report from the UK National Poisons Information Service. **Clinical Toxicology** 2014, 52: 192-7.
14. *Eddleston M*. Progress with reducing mortality from organophosphorus insecticide poisoning. **Anuradhapura Medical Journal** 2014, 8: 1-4.
15. Hulse E, Reed F, *Eddleston M*, Etherington R, Clutton E. Experiences with a bronchial blocking device for pulmonary aspiration studies in the Gottingen Minipig. **Laboratory Animals** 2014, 48: 164-169.
16. Bateman N, Dear JW, Thanacoody HKR, Thomas SHL, *Eddleston M*, Sandilands EA, Coyle J, Cooper JG, Rodriguez A, Butcher I, Lewis SC, Vliegthart ADB, Veiriah A, Webb DJ, Gray A. Reducing adverse effects from intravenous acetylcysteine treatment of paracetamol poisoning: a randomised controlled trial. **Lancet** 2014, 383: 697-704.
17. Williams H, Coulson J, *Eddleston M*, Thomas SHL, Thompson JP, Scott RAH, Vale JA. Reported toxicity in 1486 liquid detergent capsule exposures to the UK National Poisons Information Service 2009-2012, including their ophthalmic and CNS effects. **Clinical Toxicology** 2014, 52: 136-140.

18. Konickx LA, Worek F, Jayamanne S, Thiermann H, Buckley NA, *Eddleston M*. Reactivation of plasma butyrylcholinesterase by pralidoxime chloride in patients poisoned by WHO Class II toxicity organophosphorus insecticides. **Toxicological Sciences** 2013, 136:274-83.
19. Sandilands E, Crowe J, Cuthbert H, Jenkins PJ, Johnston NR, *Eddleston M*, Bateman DN, Webb DJ. Histamine-induced vasodilatation in the human forearm vasculature. **British Journal of Clinical Pharmacology** 2013, 76: 699-707.
20. Li B, Eyer P, *Eddleston M*, Jiang W, Schopfer LM, Lockridge O. Protein tyrosine adduct in humans self-poisoned by chlorpyrifos. **Toxicology & Applied Pharmacology** 2013, 269: 215-225.
21. *Eddleston M*. Applied clinical pharmacology and public health in rural Asia - preventing deaths from organophosphorus pesticide and yellow oleander poisoning. **British Journal of Clinical Pharmacology** 2013, 75:1175-1188.
22. Thanacoody HK, Gray A, Dear JW, Coyle J, Sandilands EA, Webb DJ, Lewis S, *Eddleston M*, Thomas SH, Bateman DN. Scottish and Newcastle antiemetic pre-treatment for paracetamol poisoning study (SNAP). **BMC Pharmacology and Toxicology** 2013, 14: 20.
23. Clutton RE, Dissanayake K, Lawson H, Simpson K, Thompson A, *Eddleston M*. The construction and evaluation of a device for mechanomyography in anaesthetized Göttingen minipigs. **Veterinary Anaesthesia and Analgesia** 2013, 40: 134-141.
24. Carroll R, Metcalfe C, Gunnell D, Mohamed F, *Eddleston M*. Diurnal variation in probability of death following self-poisoning in Sri Lanka - evidence for chronotoxicity in humans. **International Journal of Epidemiology** 2012, 41: 1821-1828.
25. Murray DB, *Eddleston M*, Thomas S, Jefferson R, Thompson A, Dunn M, Vidler D, Clutton REC, Blain PG. Rapid and complete bioavailability of antidotes for organophosphorus nerve agent poisoning and cyanide in minipigs after intraosseous administration. **Annals of Emergency Medicine** 2012, 60: 424-430.
26. Chang SS, Lu TH, *Eddleston M*, Konradsen F, Sterne JAC, Lin JJ, Gunnell D. Factors associated with the decline in suicide by pesticide poisoning in Taiwan: a time trend analysis, 1987-2010. **Clinical Toxicology** 2012, 50: 471-80.
27. *Eddleston M*, Dawson AH. Triage and clinical management of patients with acute pesticide self-poisoning presenting to small rural hospitals. **Clinical Toxicology** 2012, 50: 455-7.
28. *Eddleston M*, Yang CC. Abstracts from the 10th Annual Congress of the Asia-Pacific Association of Medical Toxicology (APAMT), Penang, Malaysia, November 2011. **Journal of Medical Toxicology** 2012, 8:192-237.
29. Chang SS, Lu TH, Sterne JAC, *Eddleston M*, Lin JJ, Gunnell D. The impact of pesticide suicide on the geographic distribution of suicide: a spatial analysis in Taiwan. **BMC Public Health** 2012, 12:260.
30. *Eddleston M*, Street JM, Self I, Thompson A, King T, Williams N, Naredo G, Yu L-M, Dissanayake K, Worek F, John H, Smith S, Thiermann H, Harris JB, Clutton RE. A role for solvents in the toxicity of agricultural organophosphorus pesticides. **Toxicology** 2012, 294: 94-103.
31. Sandilands EA, Cameron S, Paterson F, Donaldson S, Briody L, Crowe J, Donnelly J, Thompson A, Johnston NR, Mackenzie I, Uren N, Goddard J, Webb DJ, Megson IL, Bateman DN, *Eddleston M*. Mechanisms for an effect of acetylcysteine on renal function after exposure to radio-graphic contrast material: study protocol. **BMC Clinical Pharmacology** 2012, 12: 3.
32. *Eddleston M*, Adhikari S, Egodage S, Ranganath H, Mohamed F, Manuweera G, Azher S, Jayamanne S, Juszczak E, Sheriff R, Dawson AH, Buckley NA. Effects of a provincial ban of two toxic organophosphorus insecticides on pesticide poisoning hospital admissions. **Clinical Toxicology** 2012, 50: 202-209.
33. *Eddleston M*, Bateman DN. Pesticides. **Medicine** 2011, 40: 147-149.

34. Pearson M, Konradsen F, Gunnell D, Dawson AH, Pieris R, Weerasinghe M, Knipe DW, Jayamanne S, Metcalfe C, Hawton K, Wickramasinghe AR, Atapattu W, Bandara P, de Silva D, Ranasinghe A, Mohamed F, Buckley NA, Gawarammana I, *Eddleston M*. Community-based cluster randomised trial of safe storage to reduce pesticide self-poisoning in rural Sri Lanka: study protocol. **BMC Public Health** 2011, 11: 879.
35. Clutton R, Schoeffmann G, Chesnil M, Gregson R, Reed F, Lawson H, *Eddleston M*. Reducing the oxygen concentration of gases delivered from anaesthetic machines unadapted for medical air. **Veterinary Record** 2011, 169: 440.
36. John H, *Eddleston M*, Clutton RE, Worek F, Thiermann H. Quantification of pralidoxime (2-PAM) in urine by ion pair chromatography-diode array detection: application to *in vivo* samples from minipig. **Drug Testing and Analysis** 2012, 4: 169-178.
37. Plumb J, Craig S, *Eddleston M*, de Beer T. Prolonged refractory hypotension following combined amlodipine and losartan ingestion responsive to metaraminol. **Case Reports in Medicine** 2011, 2011: 283672.
38. *Eddleston M*, Buckley NA. A strategy for changing plasma pralidoxime kinetics and - perhaps - effect in organophosphorus insecticide poisoning. **Critical Care Medicine** 2011, 39: 908-909.
39. Mohamed F, Perera A, Wijayaweera K, Kularatne K, Jayamanne S, *Eddleston M*, Dawson A, Konradsen F, Gunnell DG. The prevalence of previous self-harm amongst self-poisoning patients in Sri Lanka. **Social Psychiatry and Psychiatric Epidemiology** 2011, 46: 517-20.
40. Qureshi Z, *Eddleston M*. Adverse effects of activated charcoal used for the treatment of poisoning. **Adverse Drug Reaction Bulletin** 2011, 266:1023-1026.
41. *Eddleston M*, Bateman DN. Major reductions in global suicide numbers can be made rapidly through pesticide regulation without the need for psychosocial interventions. **Social Science & Medicine** 2011, 72: 1-2.
42. Buckley NA, *Eddleston M*, Li Y, Bevan M, Robertson J. Oximes for acute organophosphate pesticide poisoning. Cochrane Database of Systematic Reviews 2011, Issue 2. Art. No.: CD005085.
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Annual Report 2011/2012 for the National Poisons Information Service of the United Kingdom. Editors: L Gordon, M Eddleston. London: Health Protection Agency, 2012

Journal referee

Lancet, PLoS Medicine, Lancet Neurol, Crit Care Med, PLoS Neglected Tropical Diseases, BMJ Point of Care, BMJ Clinical Evidence, QJM, Ann Emerg Med, Clinical Toxicology, Drug Safety, Int J Epidemiol, Brit J Psychiat, Euro J Clin Pharmacol, Indian J Med Sci, Neurol India, Soc Sci Med, BMC Hlth Servi Res, Alc & Alcoholism, J Toxicol, Toxicon, Respiriology, Regulat Toxicol Pharmacol.

Chair of the Scientific Committee

11th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2012, Hong Kong

10th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2011, Penang

Session chair

10th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2011, Penang

European Association of Clinical Toxicologists International Congress, May 2010, Bordeaux

7th Congress of the Asia Pacific Association of Medical Toxicology, Dec 2008, Chandigarh

Congress of the European Association of Clinical Toxicologists, May 2008, Sevilla.

6th Congress of the Asia Pacific Association of Medical Toxicology, Dec 2007, Bangkok.

International Congress of Toxicology XI, July 2007, Montreal
 5th Congress of the Asia Pacific Association of Medical Toxicology, August 2006, Colombo.
 International Chemical Medical Defense Conference, April 2004, Munich.

Abstract reviewer

EAPCCT, APAMT, HPA UK.

Invited Speaker

- European Association of Clinical Toxicologists International Congress, May 2014, Brussels
- 10th Summer School of the European Association of Clinical Pharmacology & Therapeutics, July 2013, Edinburgh
- European Association of Clinical Toxicologists International Congress, May 2013, Copenhagen
- Toxicology and Poisons Network Australasia annual meeting, May 2013, Newcastle Australia
- Nasjonalt folkehelseinstitutt, Oslo, April 2013
- Caledonian Society of Clinical Pharmacology, Nov 2012, Dundee
- 11th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2012, Hong Kong
- Grand Round, Clinical Pharmacology, University of Toronto, Oct 2012, Canada
- Grand Round, Emergency Medicine, Queens, Ontario, Oct 2012, Canada
- Symposium on Neurology, Royal College of Physicians of Edinburgh, Oct 2012
- 8th Congress of Toxicology in Developing Countries, Sept 2012, Bangkok
- 11th International Meeting on Cholinesterases, Jun 2012, Kazan, Russia
- European Association of Clinical Toxicologists International Congress, May 2012, London
- Norwegian National CBRN medical seminar, March 2012, Oslo
- Clinical Toxinology Short Course, February 2012, Adelaide
- 10th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2011, Penang
- Clinical Toxicology Counter Terrorism National Symposium IV, Oct 2011, Birmingham
- Medical Detective Series, University of Edinburgh, Sept 2011, Edinburgh
- 5th Conference of the Parties of the Rotterdam Convention, June 2011, Geneva
- European Association of Clinical Toxicologists International Congress, May 2011, Dubrovnik
- 9th Congress of the Asia Pacific Association of Medical Toxicology, Nov 2010, Hanoi
- XVII Brazilian Congress of Toxicology, Nov 2010, Florianópolis
- American Academy of Clinical Toxicology International Congress, Sep 2010, Colorado
- British Pharmacology Society Winter meeting, Dec 2009, London
- XVI Brazilian Congress of Toxicology, Oct 2009, Belo Horizonte, Brasil
- EuroTox 2009, Sep 2009, Dresden, Germany
- 10th International Meeting on Cholinesterases, Sep 2009, Sibenik, Croatia
- European Association of Clinical Toxicologists International Congress, May 2009, Stockholm
- Hong Kong Hospital Authority Toxicology Service Scientific Conference, Mar 2009
- Royal Infirmary of Edinburgh Emergency Department Research Day, Mar 09, Edinburgh
- National Poisons Information Service Update in Medical Toxicology, Nov 08, Cardiff
- University of Massachusetts Emergency Medicine Grand Round, Sep 08, Worcester
- American Academy of Clinical Toxicology International Congress, Sep 08, Toronto
- Ontario Poison Control Centre Inaugural National Grand Round, Sep 08, Toronto
- Harvard School of Public Health, Sep 08, Cambridge, MA
- Tropical Medicine Institute of the Military Health Service Congress, Sep 08, Marseilles
- European Association of Clinical Toxicologists International Congress, May 08, Sevilla
- 6th Congress of the Asia Pacific Association of Medical Toxicology, Dec 07, Bangkok
- European Association of Clinical Toxicologists International Congress, May 07, Athens
- 40th American Association of Suicidology Annual Conference, Apr 07, New Orleans
- 5th Singapore International Symposium for Protection against Toxic Substances, Nov 06.
- 5th Congress of the Asia Pacific Association of Medical Toxicology, Aug 06, Colombo
- 2nd New York Symposium on International Emergency Medicine, May 05, New York
- European Association of Clinical Toxicologists International Congress, May 05, Berlin

- South Asian Confederation of Anesthesiologists 6th Congress, Feb 05, Kandy
- Symposium on *Toxicoepidemiology and Antidotes*, VIII World Congress of Clinical Pharmacology and Therapeutics, Aug 04, Brisbane
- Keynote Address, 1st Joint Academic Sessions of the Faculties of Medicine and Science, Colombo University, Jun 04
- International Chemical Medical Defense Conference, Apr 04, Munich
- Symposium on *Antidote Discovery, Development and Use*, Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, Dec 03, Sydney
- Department of Mental Health & Substance Dependence, WHO, Nov 03, Geneva
- European Association Clinical Toxicologists International Congress, May 03, Rome
- Workshop on *Pesticides: Health Impacts and Alternatives*, January 02, Colombo
- International Toxinology Short Course, July 01, Adelaide
- Meeting on *Poisoning in South East Asia*, September 00, London

Trial monitoring

Giriraj Hospital, Baramati, Maharashtra, India. Review of a clinical trial established to test the effectiveness of two regimens of pralidoxime chloride in OP pesticide poisoning, on behalf of the *Lancet* journal, July 2005.

Hospital Vozandes del Oriente, Shell, Ecuador, and Hospital Barros Barrato, Belem, Brasil. Review of two clinical trials established to identify effective antivenoms for the treatment of *Bothrops* snake bites amongst Amazonian indians, April-May 1998.

Referees

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