Division of Medical Toxicology

AT THE UNIVERSITY OF VIRGINIA

Our research interests span a broad range of research including collaborative studies on new antidotes, criminal poisonings, toxic contamination of products, and projects studying the use of patient simulators for training. Furthermore, we also investigate the trends associated with clinical epidemiology, pharmacoepidemiology, and injuries. Specific topics include snake envenomations, emerging drugs of abuse, accidental and intentional abuse of prescription medications, utilization of hemodialysis of poisonings, and drug-facilitated sexual assault.

COLLABORATIONS FOR RESEARCH

| American Association of Poison Control Centers | Critical Incident Analysis Group | University of Virginia Medical Reserve Corps |
| American College of Medical Toxicology | Drug Enforcement Agency | University of Virginia Office of Health Promotion |
| Center for Substance Abuse Research/National Drug Early Warning System | Federal Bureau of Investigation's Critical Incident Response Group (CIRG) | University of Virginia Student Health |
| Centers for Disease Control and Prevention, Epidemiological Intelligence Service | National Social Norms Institute | University of Virginia School of Medicine Department of Public Health Sciences |
| College Health Surveillance Network | Rocky Mountain Poison and Drug Center | Virginia Department of Health (VDH) |

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RESEARCH TEAM

Director
Christopher Holstege, MD

Fellowship Director
Nathan Charlton, MD

Medical Toxicology Fellows
2012-2014
Luke Hardison, MD
Will Rushton, MD
2013-2015
Josh King, MD
2014-2016
Jennifer Parker-Cote, MD

Epidemiologist
Priyanka Vakkalanka, ScM
- Vakkalanka JP, Hardison LS, Holstege CP. Trends in Electronic Cigarette Exposures Reported to the National Poison Center Database.

North American Congress of Clinical Toxicology, 2014, New Orleans, Louisiana
- Sibbald KN, Rushton WF, King JD, Charlton NP. Adulterants in tablets sold as “Ecstasy” in the US from 2009-2013.
- King JD, Khan SF, Charlton NP. Methandrostenolone abuse associated with cholestatic liver injury and acute kidney injury treated with plasma exchange.
- King JD, Cathro HP, Bali A, Arora R, Cain JS, Sundararaman S, Charlton NP. Thrombotic Microangiopathy due to Intravenous Oxymorphone ER Abuse with Variable Findings on Kidney Biopsy.

- Sibbald KN, Rushton WF, King JD, Charlton NP. Adulterants in tablets sold as “Ecstasy” in the US from 2009-2013.
- Vakkalanka JP, Hardison LS, Holstege CP. Accidental Pediatric Electronic Cigarette Exposures Reported to the National Poison Data System.
- Sibbald KN, Rushton WF, Vakkalanka JP, Charlton NP. A Review of Pediatric Cases Exposed to Unknown Xenobiotics.
- Rushton WF, Charlton JR, Charlton NP. Arsenic elimination in the urine after crustacean ingestion.
- Streich HT, Rushton WF, Charlton NP. Death by spice: A case report of mortality following synthetic cannabinoid use.

12th Annual Neurocritical Care Society Meeting, September 2014, Seattle Washington
- Hedrick JN, Bledsoe KA, Charlton NP, Mallow-Corbett S. Valproic Acid as a Triggering Factor for Propofol Infusion Syndrome in Critically Ill Patients.

American College of Medical Toxicology Annual Scientific Meeting. 2014, Phoenix, Arizona.
- Dabrowski KH, Rushton WF, Vakkalanka JP, King JD, Charlton NP. Incidence of Retained Foreign Body Following a Snake Bite. Charlton NP, Vakkalanka JP.

- Simmons JC, Rushton WF, Charlton NP, Vakkalanka JP. Ability of Senior Medical Students to Identify Common Serotonergic Agents When Treating Serotonin Syndrome.

ORAL PRESENTATIONS
- Vakkalanka JP, Hardison LS, Holstege CP. Intentional Abuse of Select Opioids Reported to a Single Poison Center.


PEER-REVIEWED PUBLICATIONS
- Parker-Cote JL, O’Rourke DP, Miller SN, Brewer KL, Rosenbaum MD, Meggs JW. Trypsin and rosmarinic acid reduce the toxicity of Micrurus fulvius venom in mice. Clinical Toxicology (2014), 52, 118–120