



# Minnesota Poison Control System

2014 Annual Report

*Serving Minnesota since 1972*  
[www.mnpoison.org](http://www.mnpoison.org)



Hennepin County Medical Center



# Meet Our Staff

## Director

Deborah Anderson, PharmD

## Medical Director

Jon Cole, MD, ABMS

## Senior Associate Medical Directors

Louis Ling, MD, FACMT, ABMT, ABMS

David Roberts, MD, ABMT, ABMS

## Associate Medical Director

Benjamin Orozco, MD

## Clinical Supervisor

Stacey Bangh, PharmD, DABAT

## Educator

Kirk Hughes, RN, EMT-B, CSPI

## Specialists in Poison Information

Rachel Brandt, PharmD, CSPI

Alisha Floan, PharmD, CSPI

Gregory Grande, RPh, CSPI

Ted Gray, RPh, CSPI

Alyssa Klotz, PharmD, SPI

Rebecca Lange, PharmD, SPI

Samantha Lee, PharmD, CSPI

Chris Lintner, RPh, DABAT, CSPI, BCPS

Kevin Sell, RPh, CSPI

Steve Setzer, RPh, CSPI

Kelsey Stokkeland, PharmD, CSPI

Jill Topeff, PharmD, CSPI

Greg Wedin, PharmD, DABAT

Laurie Willhite, PharmD, CSPI

## Poison Information Providers

Jane Axelrod

Jenna Bednar

Gina Danielson

Sarah Derr

Calley Gruenhagen

Francis Herzog

Amanda Kurtti

Renee Petroski

## Consultants

Beth Baker, MD, ABMS

Elisabeth Bilden, MD, ABMS

Jennifer Englund, MD, ABMS

Carson Harris, MD

Katherine Katzung, MD, ABMS

Mike Kinnan, MD, ABMS

JoAn Laes, MD, ABMS

Sam Stellpflug, MD, ABMS

Matthew Sztajnkrzyer, MD, ABMS

Andrew Topliff, MD, ABMS

## Toxicology Fellows

Rebecca Gardner, MD Toxicology Fellow

Jenna LeRoy, MD Toxicology Fellow

Travis Olives, MD Toxicology Fellow

*\*\*ABMS American Board of Medical Specialties*

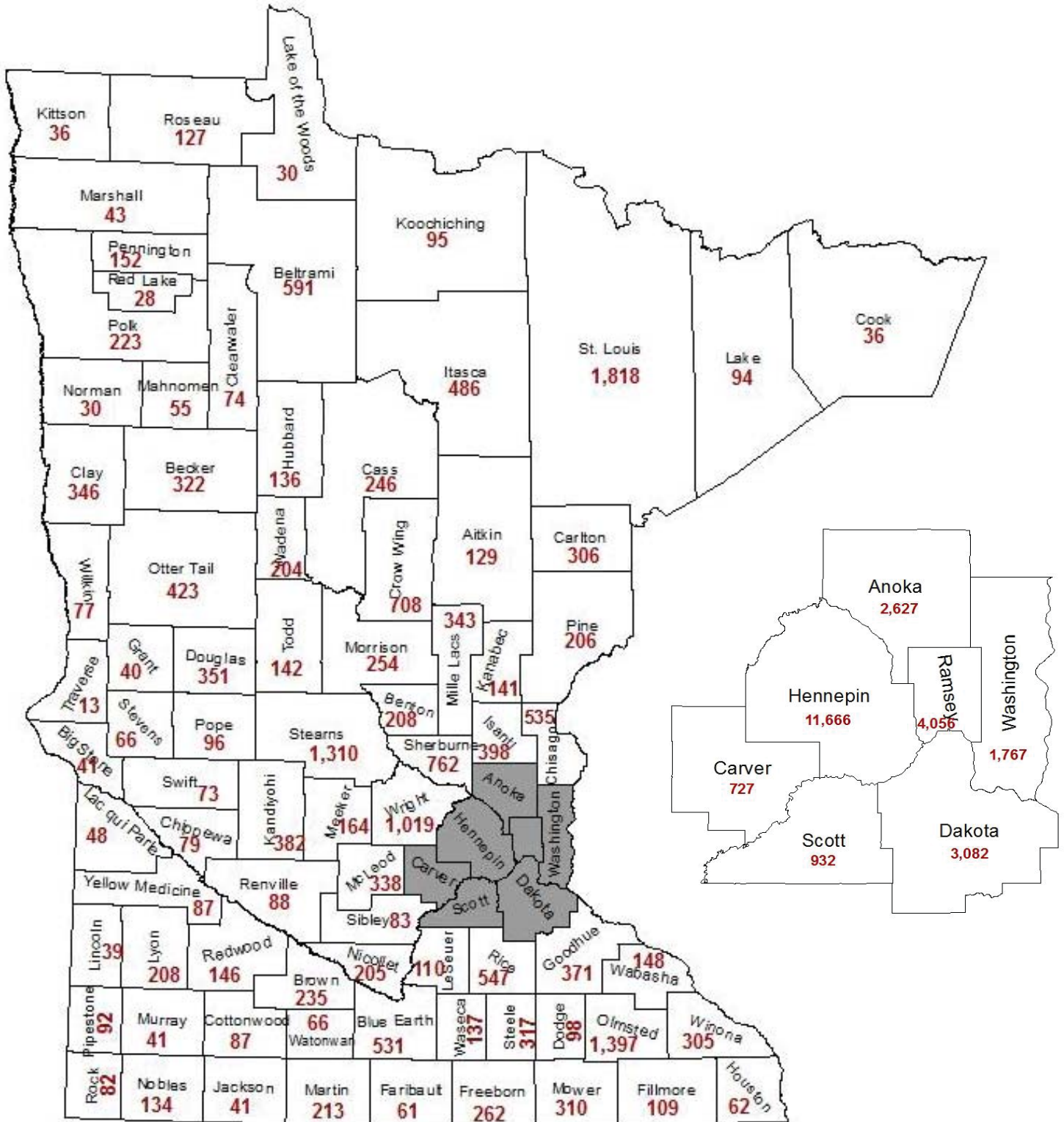
*\*\*DABAT Diplomate of the American Board of Applied Toxicology*

*\*\*CSPI Certified Specialist in Poison Information*

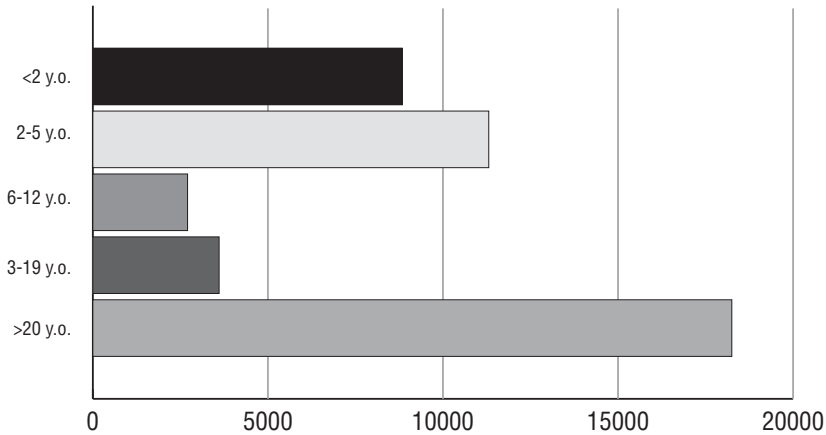
Rebecca Lange, PharmD,  
Certified Specialist in Poison Information



# Calls Per Minnesota County

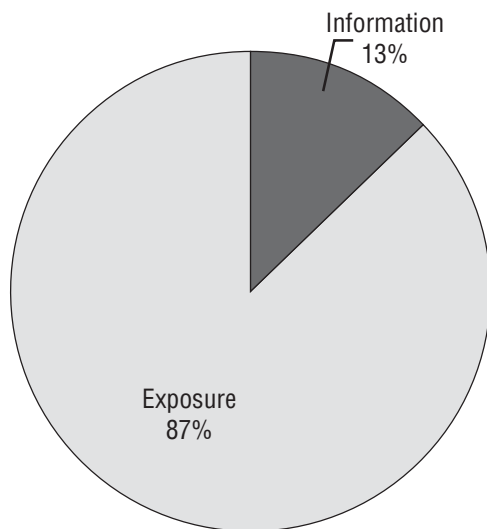


## Age of Patients

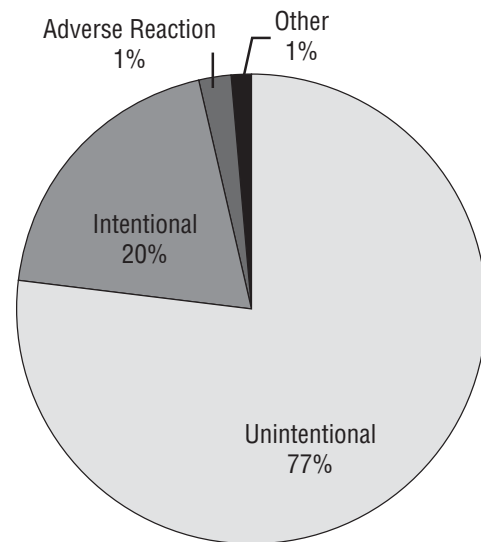


- Call 1-800-222-1222, 24/7, everyday
- Provided immediate help to 51,012 callers in 2013
- Calls are free of charge and confidential
- Minnesota Relay and interpretive services available
- Staffed by specially trained pharmacists nationally certified as Specialists in Poison Information
- 45% of calls involved a child under the age of 6 years

## Number of Calls

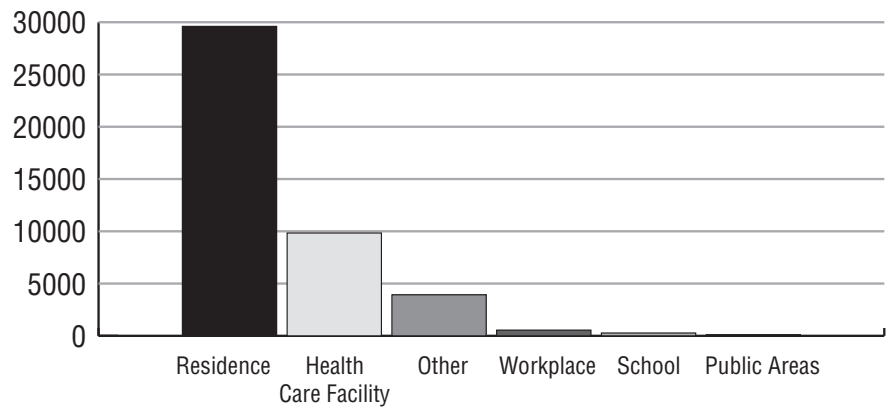


## Reason for Exposure

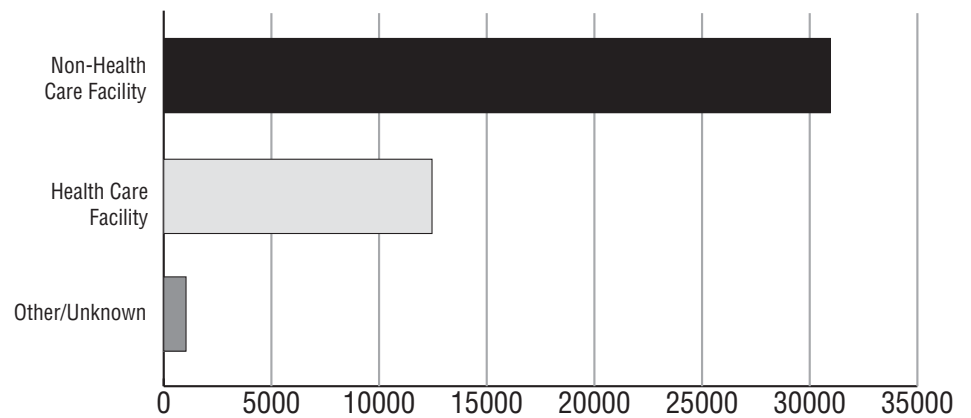


- 92% of exposures occurring in a residential setting were safely managed at home with Poison Center assistance
- 70% of callers would have sought emergency medical attention if the Poison Center was not available
- 22% of calls received are from health care providers seeking patient treatment recommendations
- 86% of calls transferred from nurse lines were managed at home
- 61% of exposures involve prescription and/or over-the-counter medications

## Caller Site



## Management Site



## Top 5 Substances Involved in Poisoning

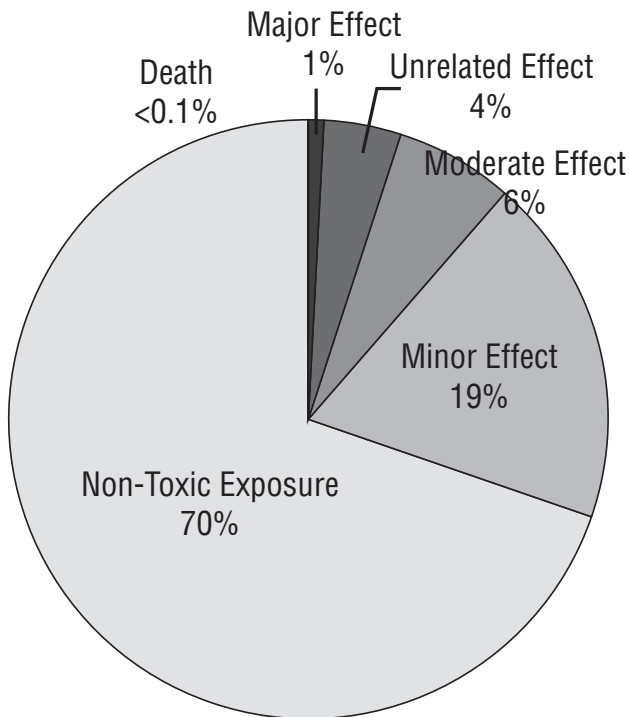
### Non-Drug

1. Cosmetics, personal care items
2. Household cleaners
3. Foreign bodies, toys, silica gel packets
4. Alcohols
5. Pesticides

### Drug

1. Analgesics
2. Sedatives, Hypnotics, Antipsychotics
3. Antidepressants
4. Cardiovascular drugs
5. Antihistamines

## Medical Outcomes



- Patients admitted to hospitals with poisonings who receive Poison Center assistance have measurable reductions in average hospital stays
- Total annual expenses \$2,195,879
- 83% of budget are personnel expenses
- Every \$1 spent on Poison Center services saves an estimated \$13 on unnecessary health care costs and lost productivity
- \$28 million in costs avoided annually through use of the Poison Center

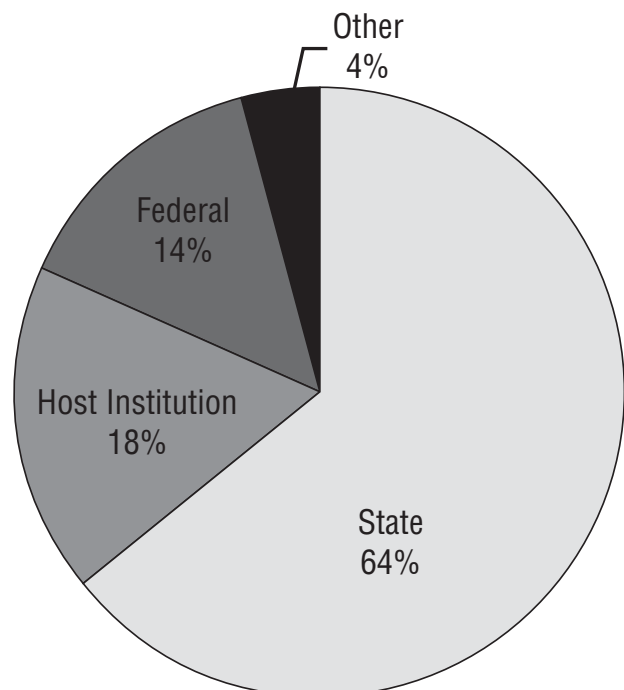
## Statewide Public & Professional Education Outreach

- Distributed 98,613 pieces of poison prevention materials
- Participated in 116 public poison prevention events to over 13,500 Minnesotans
- Conducted 103 professional training events to public safety and health care professionals

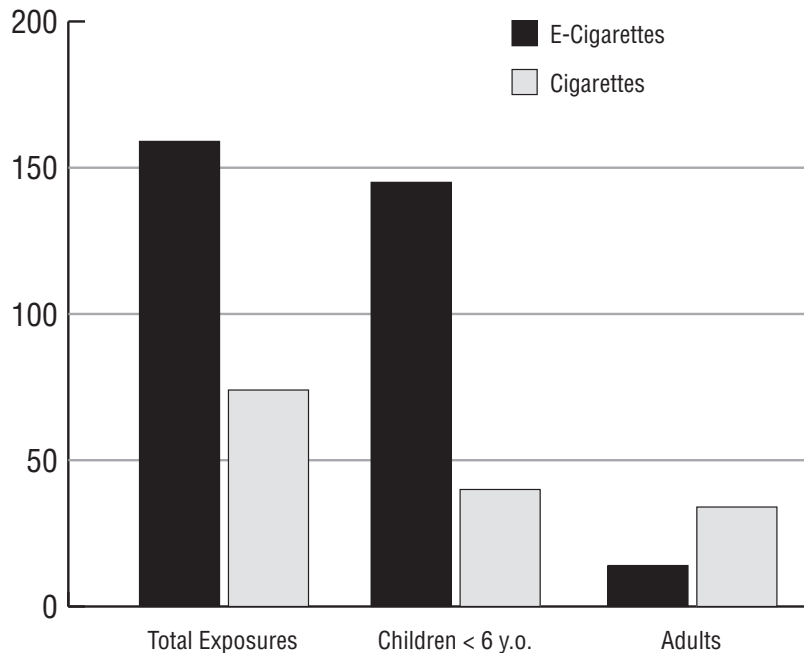
## On-site Health Care Professional Education

- 34 medical residents (emergency medicine, family medicine, pediatrics)
- 3 physician medical toxicology fellows
- 28 pharmacy residents and students
- 17 medical students
- 1 Physician Assistant
- 5 Nursing Students

## Funding Sources



## Electronic Cigarette Poisonings



- Electronic Cigarettes are vaporizers that heat concentrated flavored nicotine liquid to be inhaled.
- In 2013 there were 74 exposures to e-cigarettes.
- Poisonings can occur by ingestion of the liquid, often by children handling the liquid refills or misuse of the device by adults.
- Nicotine poisoning, from traditional cigarettes or e-cigarettes, can cause agitation, nausea, vomiting, sweating, seizures, abnormal heart rhythms or difficulty breathing.
- Poison Center monitors new products and educates health care providers and the public about health concerns.



Minnesota Poison Control System  
Hennepin County Medical Center  
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Minneapolis, MN 55415

[www.mnpoison.org](http://www.mnpoison.org)

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**POISON**  
**Help**  
**1-800-222-1222**