



# Minnesota Poison Control System

2015 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 Diplomat of the American Board of Applied Toxicology*

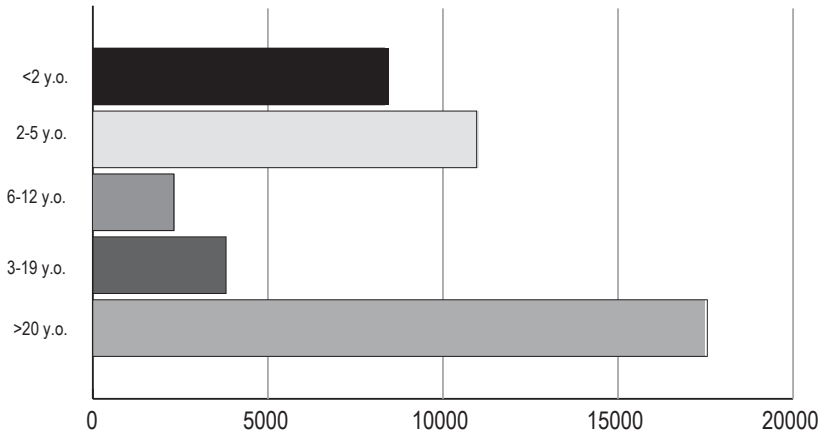
*\*\*CSPI Certified Specialist in Poison Information*



Samantha Lee, PharmD,  
Certified Specialist in Poison Information

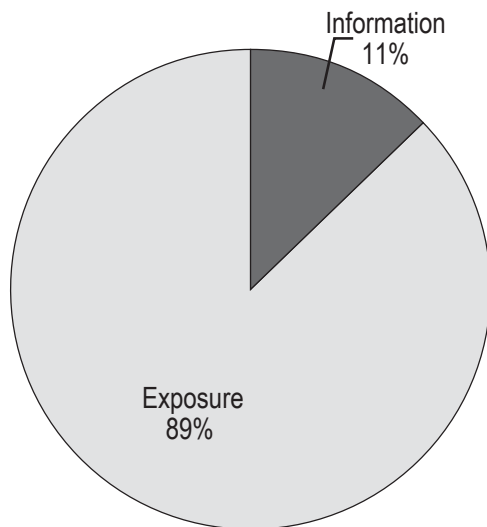


## Age of Patients

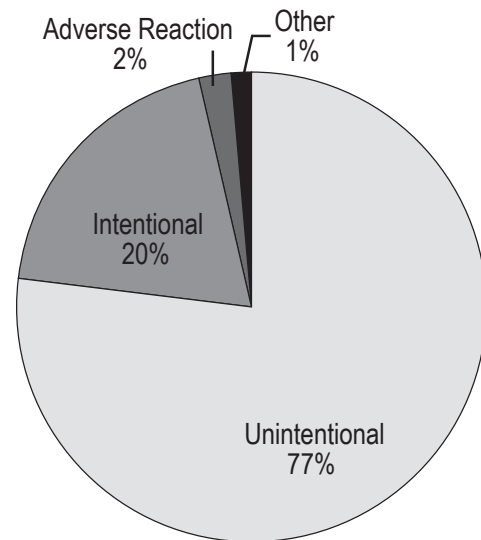


- 1-800-222-1222 is available 24 hours a day, 7 days a week
- Provided IMMEDIATE help to 48,446 callers in 2014
  - Calls are free of charge and information is kept private
- Minnesota Relay and interpretive services available
- Staffed by specially trained pharmacists nationally certified as Specialists in Poison Information
- In 2014, 45% of calls involved a child under the age of 6 years

## Number of Calls

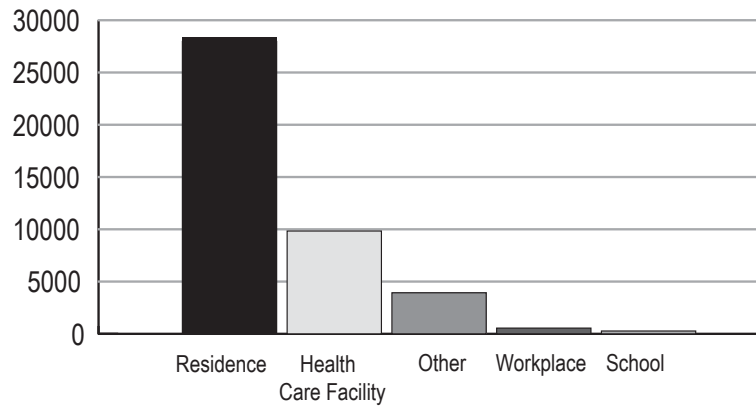


## Reason for Exposure

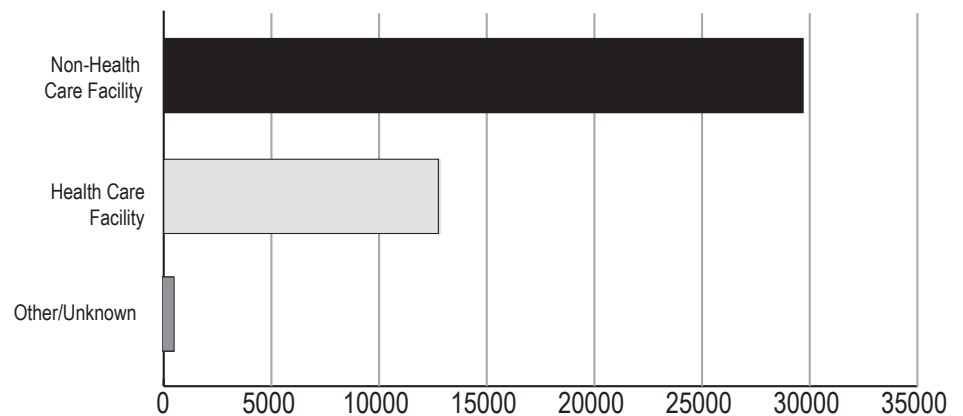


- 91% of exposures occurring in a residential setting were safely managed at home with Poison Center assistance
- 78% of callers would have sought emergency medical attention if the Poison Center was not available
- 23% of calls received were from health care providers seeking patient treatment recommendations
- 89% of calls transferred from nurse lines were able to be managed at home
- 61% of exposures involved prescription and/or over-the-counter medications

## Caller Site



## Management Site



## Top 5 Substances Involved in Poisoning

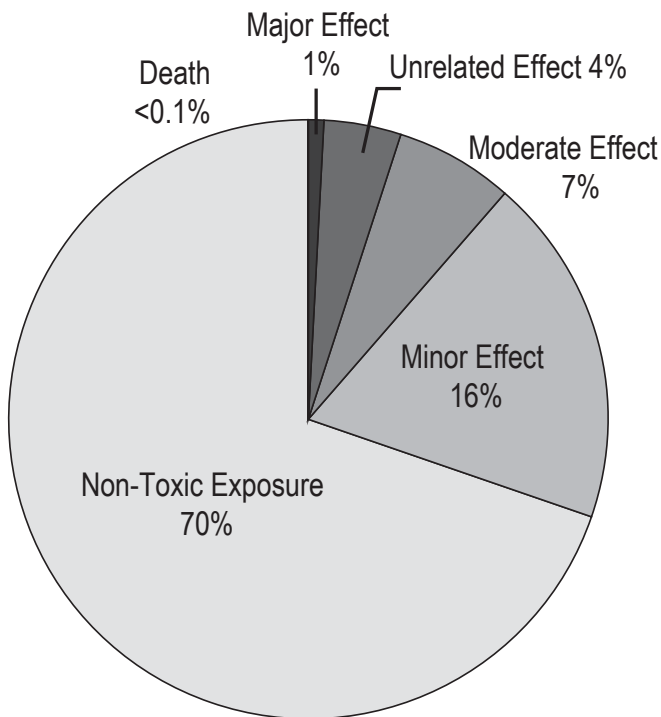
### Non-Drug

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

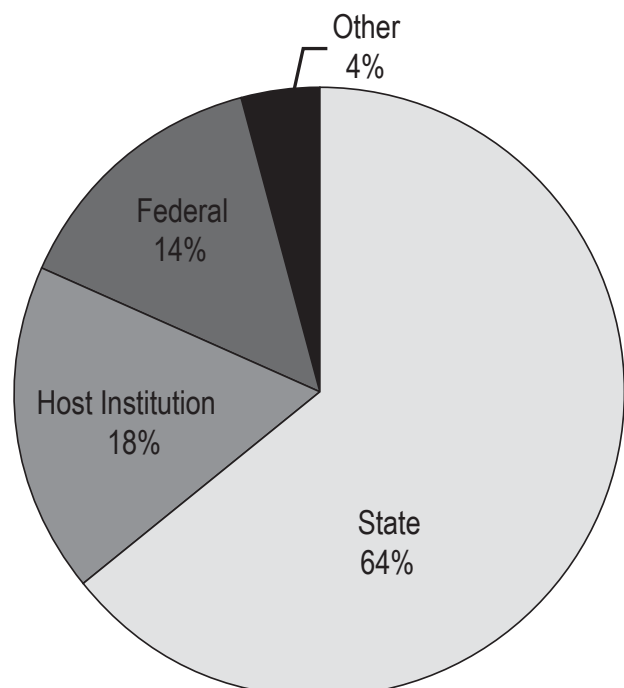
## Statewide Public & Professional Education Outreach

- Distributed 68,893 pieces of poison prevention materials
- Participated in 113 public poison prevention events to over 20,500 Minnesotans
- Conducted 77 professional training events to public safety and health care professionals

## On-site Health Care Professional Education

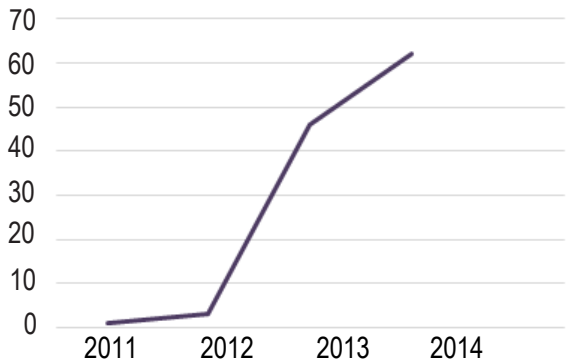
- 22 medical residents (emergency medicine, family medicine, pediatrics)
- 4 physician medical toxicology fellows
- 18 pharmacy residents and students
- 20 medical students

## Funding Sources

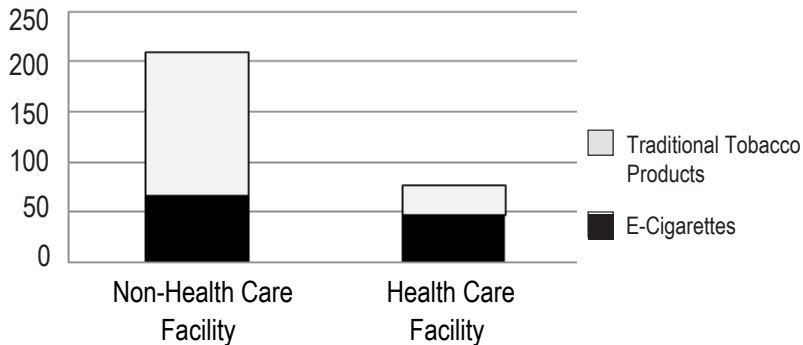


## Electronic Cigarette Exposures

E-cigarette/Liquid Nicotine Exposures Among Minnesota Children  
Ages 5 and Younger: 2011-2014



Management Sites Among All Ages



- Electronic Cigarettes are vaporizers that heat concentrated flavored nicotine liquid to be inhaled.
- Poisonings can occur by ingestion of the liquid, often by children handling the liquid refills or misuse of the device by adults.
- In 2014, there were 113 exposures to e-cigarettes and 175 exposures to traditional tobacco products among all ages.
- The majority of these exposures resulted in minimal/minor or no effects: 82.3% for e-cigarettes/liquid nicotine and 96% for tobacco products.
- The Minnesota Poison Control System monitors data related to these products and educates both patients and health care providers.



Minnesota Poison Control System  
Hennepin County Medical Center  
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