



Minnesota Poison Control System

2011 Annual Report

Serving Minnesota since 1972
www.mnpoison.org



Hennepin County **Medical Center**

The Hennepin Regional Poison Center

has served the residents of Minnesota since 1972, and is designated by the state as the Minnesota Poison Control System. It is one of only 57 U.S. Poison Centers accredited by the American Association of Poison Control Centers (AAPCC), which sets stringent criteria to ensure quality service and care. Hennepin County Medical Center (HCMC) continues to generously provide a home for the Poison Center since its founding.



In 2011 we answered 55,205 calls from Minnesota residents and health care providers regarding patients who were in danger of being poisoned. Calls to the Poison Center are answered 24/7 by pharmacists. One hundred percent of our pharmacists have been certified by the AAPCC

as Certified Specialists in Poison Information. This wealth of experience allows us to continue to keep 92% of all patients safely in their homes while offering up-to-date, cutting edge advice to the patients who require specialized medical care. The vast majority of patients who remain at home save our state millions of dollars every year, preventing unnecessary use of ambulance services and emergency department visits. We see this in our own callers; when surveyed, 81% state if the poison center were not available they would call 911 or seek physician care immediately. Studies conservatively estimate for every dollar spent on Poison Centers, \$11 is saved in health care costs.

In 2011 our physician leadership underwent some changes. After 8 years of excellent service as Medical Director, David Roberts, MD, stepped down. Jon Cole, MD, a graduate of the HCMC Residency in Emergency Medicine and HealthPartners/ Hennepin Regional Poison Center Fellowship in Medical Toxicology, assumed the role of Medical Director in July of 2011. Fortunately, Dr.



Jon Cole, MD
Medical Director

Roberts will continue his service to the Poison Center in the role of Senior Associate Medical Director. Additionally, after 8 years of service as Associate Medical Director, Beth Bilden, MD, elected to step down from her role as Associate Medical Director to the role of consulting toxicologist. We would like to thank Dr. Bilden for her many years of dedicated service, and we are delighted she will continue to contribute to the Poison Center in her new position.

The Hennepin Regional Poison Center is also supported by consulting physician toxicologists. While voluntarily taking calls, they assist clinicians across the State treating critically ill poisoned patients. On behalf of the Associate Medical Directors Louis Ling, MD; David Roberts, MD; and Andrew Topliff, MD, we would like to sincerely thank Beth Baker, MD; Carson Harris, MD; Michael Kinnan, MD; Samuel Stellpflug, MD; and Matthew Sztajnkrzyer, MD.

Public and professional education is provided statewide. Our public education program strives to prevent poisonings and increase public awareness and use of our services. We have an active on-site professional education program for pharmacy and medical students and residents in multiple

Meet Our Staff

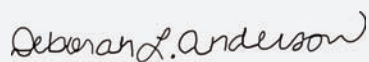
specialties including emergency medicine, internal medicine, family medicine, occupational medicine, and pediatrics. We also continued our very successful collaboration with HealthPartners Institute for Graduate Medical Education in our Medical Toxicology Fellowship.

The Poison Center staff and consultants continued to remain active in research. A record number 20 peer-reviewed abstracts were presented at the 2011 North American Congress of Clinical Toxicology. Dr. Cole was recognized as the Outstanding Young Investigator at the meeting, and both he and Samuel Stelpflug, MD, won awards at the American College of Medical Toxicology Clinical-Pathologic Case Presentation Competition for best case presentation and best case solution, respectively.

The Poison Center continues its dedication to reducing the incidence and illness from poisoning while simultaneously preventing unnecessary health care expenses. We look forward to serving the needs of Minnesota in 2012.



Jon B. Cole, MD
Medical Director



Deborah L. Anderson, PharmD
Managing Director

Director

Deborah Anderson, PharmD

Medical Director

Jon Cole, MD

Senior Associate Medical Directors

David Roberts, MD, ABMT, ABMS
Louis Ling, MD, FACMT, ABMT, ABMS

Associate Medical Directors

Andrew Topliff, MD, ABMS
Elisabeth Bilden, MD, ABMS

Clinical Coordinator

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
Shin Kwon, PharmD, CSPI
Chris Lintner, RPh, DABAT, CSPI
Kelsey Moser, PharmD, CSPI
Kevin Sell, RPh, CSPI
Steve Setzer, PRh, CSPI
Jill Topeff, PharmD, CSPI
Greg Wedin, PharmD, DABAT
Laurie Willhite, PharmD, CSPI

Poison Information Providers

Rachel Branstad
Gina Danielson
Dustin Hadley
Jon Malepsy
Renee Petroski
Rana Shouman
David Weigman

Consultants

Beth Baker, MD, ABMS
Carson Harris, MD
Dan Keyler, PharmD
Mike Kinnan, MD, ABMS
Sam Stelpflug, MD, ABMS
Matthew Sztajnkrycer, MD, ABMS
Heather Ellsworth, MD,
Toxicology Fellow
Benjamin Orozco, MD,
Toxicology Fellow

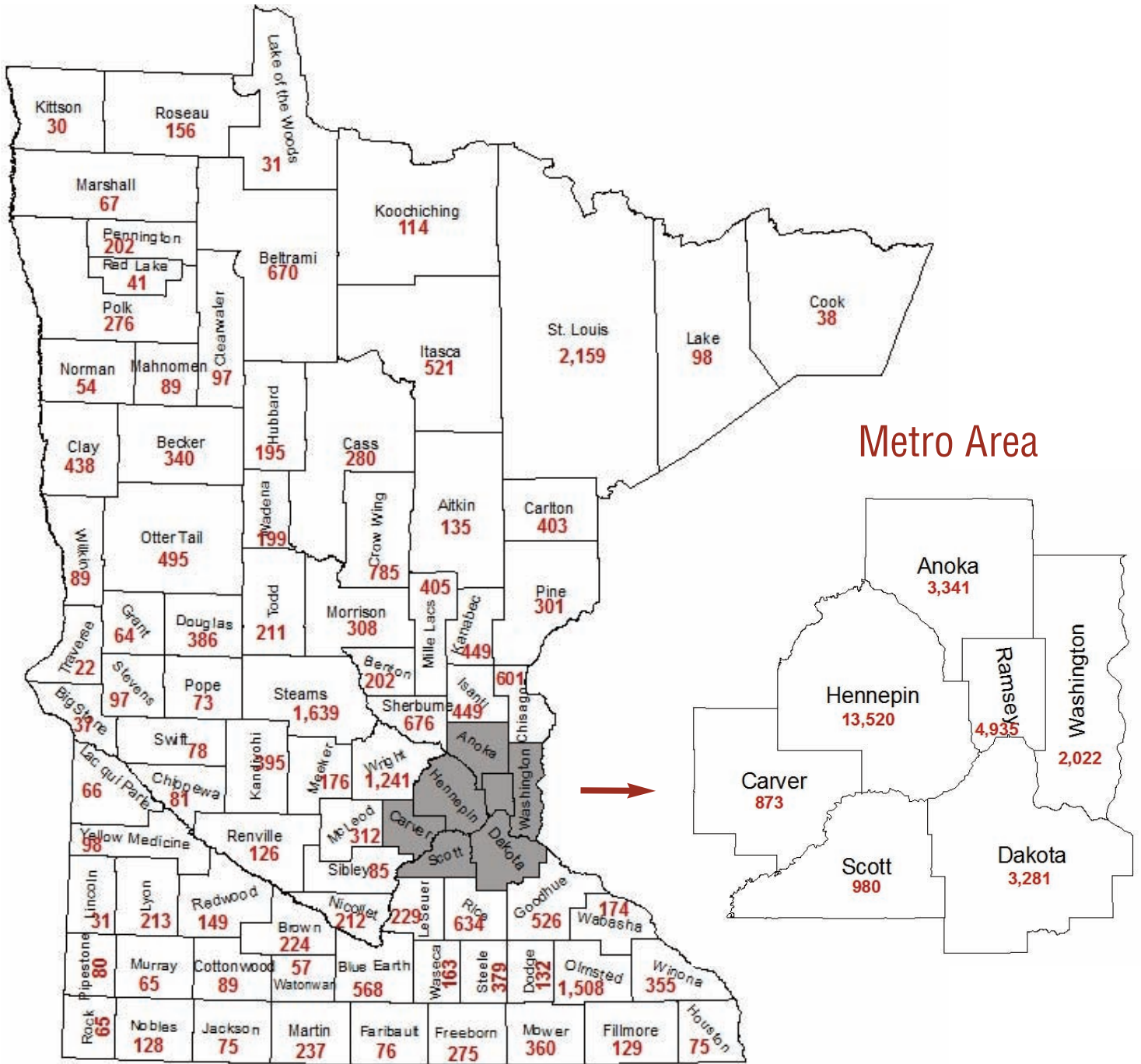
***ABMS American Board of Medical Specialties*

***DABAT Diplomat of the American Board of Applied Toxicology*

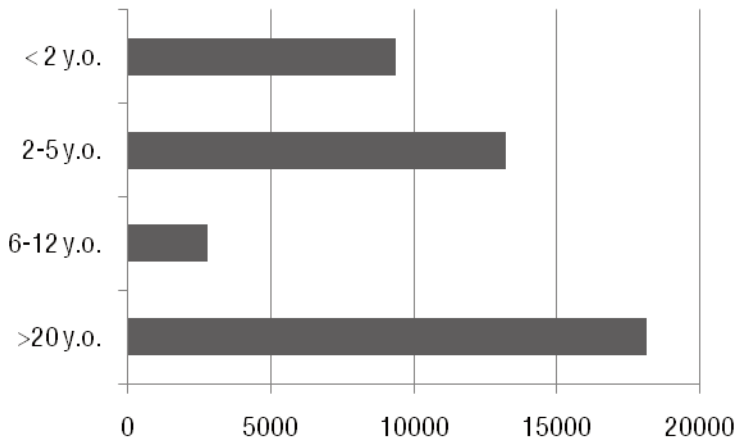
***CSPI Certified Specialist in Poison Information*



Calls per County

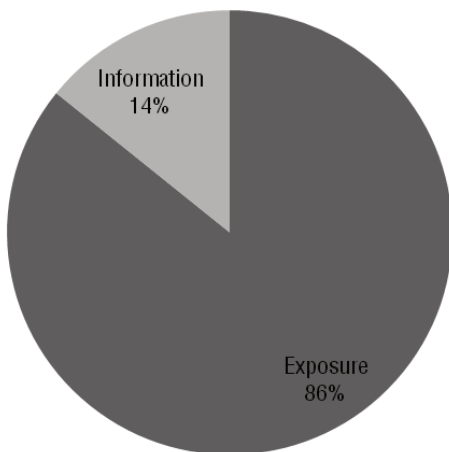


Age of Patients

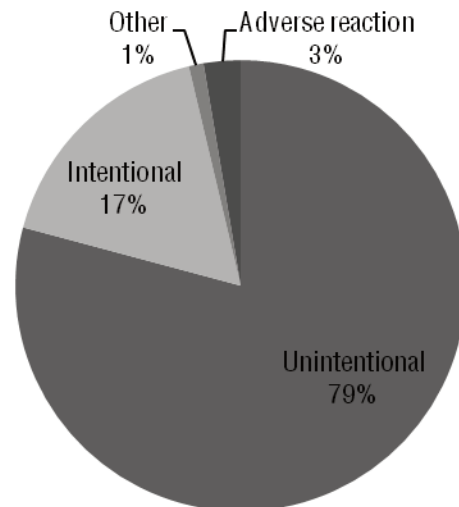


- Call 1-800-222-1222, 24/7/365
- Provided immediate help to 55,205 callers in 2011
- Calls are free of charge and confidential
- TTY and interpretive services available
- Staffed by specially trained pharmacists nationally certified as Specialists in Poison Information
- 41% of calls involved a child under the age of 6 years

Number of Calls

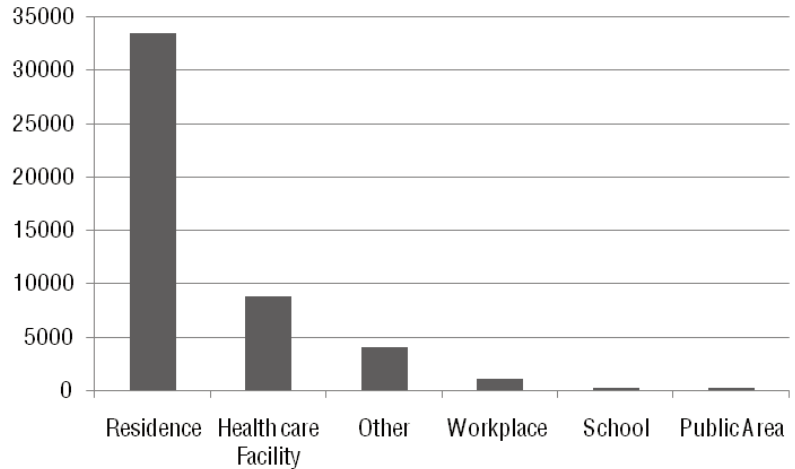


Reason for Exposure

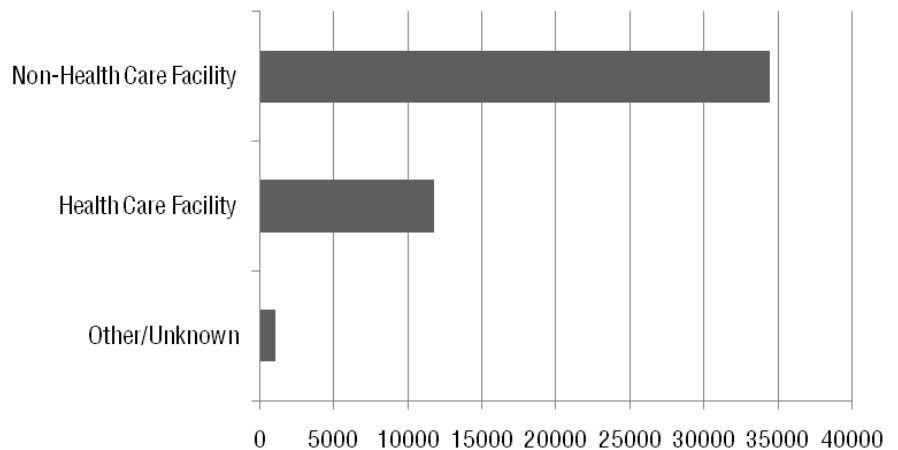


- 92% of exposures occurring in a residential setting were safely managed at home with Poison Center assistance
- 81% of callers would have sought emergency medical attention if the Poison Center was not available
- 20% of calls received are from health care providers seeking patient treatment recommendations
- 87% of calls transferred from nurse lines were managed at home
- 59% of exposures involve prescription and/or over-the-counter medications

Caller Site



Management Site



Top 5 Substances Involved in Poisoning

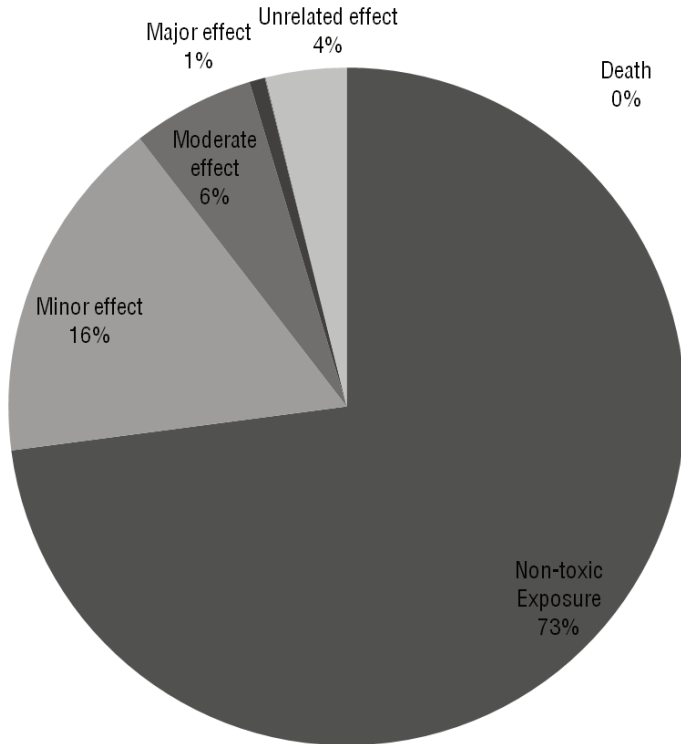
Non-Drug

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. Topical preparations

Medical Outcomes



- Patients admitted to hospitals with poisonings who receive Poison Center assistance have measurable reductions in average hospital stays
- Total annual expenses \$2,122,638
- 80% of budget are personnel expenses
- Every \$1 spent on Poison Center services saves an estimated \$11 on unnecessary health care costs
- \$23 million in costs avoided annually through use of the Poison Center

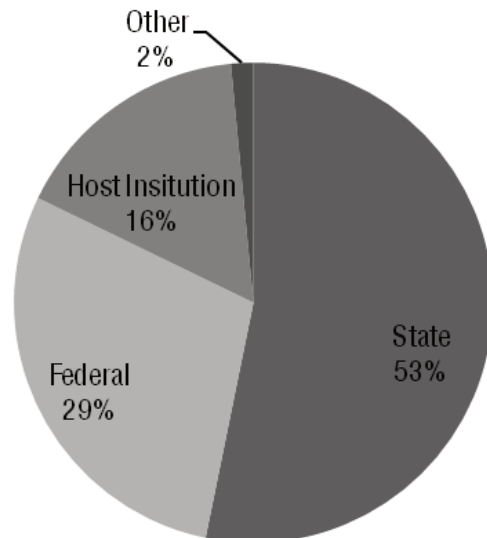
Statewide Public & Professional Education Outreach

- Distributed 217,548 pieces of poison prevention materials
- Participated in 73 public poison prevention events to over 30,700 Minnesotans
- Conducted 86 professional training events to public safety and health care professionals

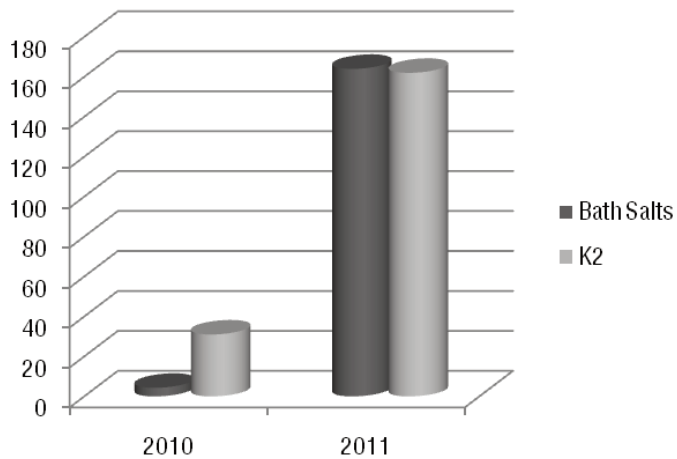
On-site Health Care Professional Education

- 33 medical residents (emergency medicine, family medicine, pediatrics)
- 2 physician medical toxicology fellows
- 37 pharmacy residents and students
- 22 medical students
- 7 paramedic students

Funding Sources



“Bath Salts” & Synthetic Marijuana Calls



- Synthetic drugs emerged late in 2010
- Products labeled “not intended for human consumption” and called “bath salts” or “plant food”
- Abuse responsible for high number of patients needing medical care

POISON
Help
1-800-222-1222



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Hennepin County Medical Center
701 Park Avenue, Mail Code RL
Minneapolis, MN 55415

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