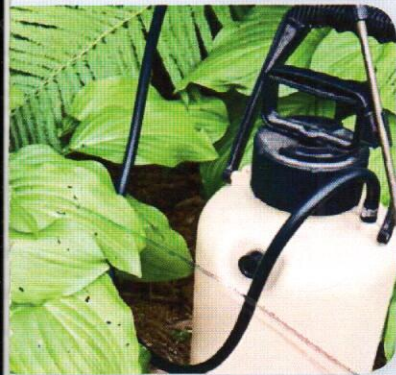
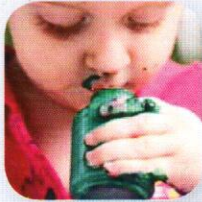


2014 Annual Report

POISON CENTER, SANFORD USD MEDICAL CENTER



SANFORD
HEALTH

All AAPCC member poison center upload data to NPDS every 8 minutes providing a near real-time snapshot of poison call conditions nationwide.

Poison Centers Save Money.
\$1 spent = \$13.39 saved in healthcare costs and lost productivity.

The Sanford Poison Center website provides information and educational items. We also provide seasonal information. During 2014 the site had 41,000 requests for educational items. All of our brochures and other educational information are available for download.

Poison Centers save Americans more than \$1.18 billion every year in medical costs and lost productivity.

– *American Association of Poison Control*

Children act fast... So do poisons! Make sure to poison proof your home.

The Sanford Poison Center is designated by the South Dakota Department of Health to provide emergency poison management and poison prevention information to the citizens of the State of South Dakota.

Funding for the Sanford Poison Center is provided by Sanford USD Medical Center, in addition to funding support received from the South Dakota Department of Health, and from federal funds as a result of the Poison Control Center Awareness and Enhancement Act passed in 2000. These funds have been essential in our efforts to continually advance the level of service provided by the poison center.

This report presents an overview of the Sanford Poison Center's data for 2014. Additional information is available upon request.





SDPOISON.ORG

The Sanford Poison Center is dedicated to serving the needs of our State and believes that the needs of residents are best served by a "local" center. However, due to call volume, population base and funding issues it is not possible for us to meet the criteria necessary to be a certified center and handle exposure calls locally. The Sanford Poison Center currently contracts with the Hennepin Regional Poison Center (HRPC) located in Hennepin County Medical Center in Minneapolis to handle all poisoning exposure calls.

The HRPC answers calls for the Sanford Poison Center from the public and healthcare professionals 24 hours a day, 365 days a year. Pharmacists certified as Specialists in Poison Information by the American Association of Poison Control Centers (AAPCC) staff the HRPC around the clock.

The pharmacists supervise and are assisted by Poison Information Providers who answer calls of a less critical nature. The HRPC has met stringent criteria set forth by the AAPCC, earning the designation of Certified Regional Poison Center. Physicians board certified in toxicology, mycologists, herpetologists, pharmacologists, and other specialists provide emergency consultation to the poison information specialists. These consultants provide their expertise on a volunteer basis and their assistance is gratefully acknowledged.

Nearly all of the pharmacists on staff hold teaching appointments with the University of Minnesota's College of Pharmacy and participate in the education of fourth-year pharmacy students. In addition, the staff assists in providing toxicology instruction to Emergency Medicine, Pediatric and Family Practice residents, medical students, physician assistants, nurses and paramedics.

The Sanford Poison Center works closely with the HRPC to provide the very best Poison Control Service possible for South Dakota.

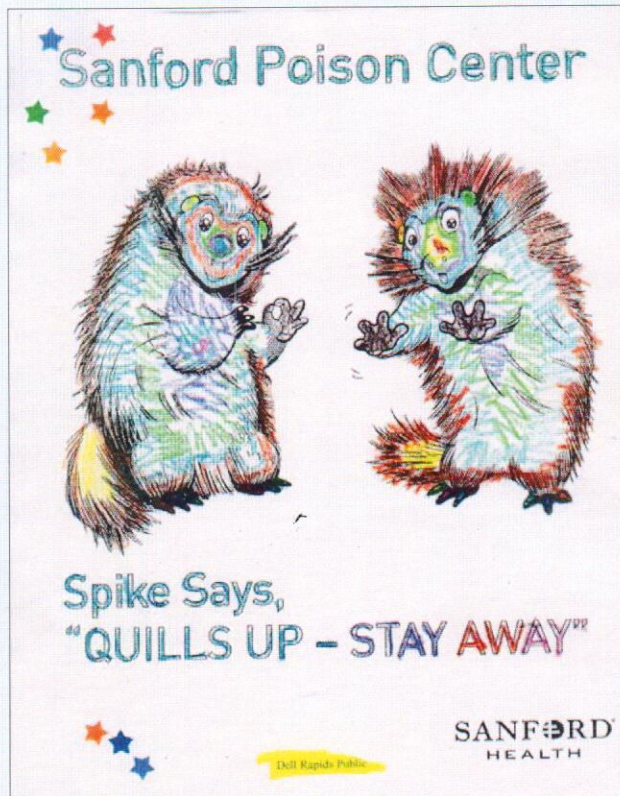
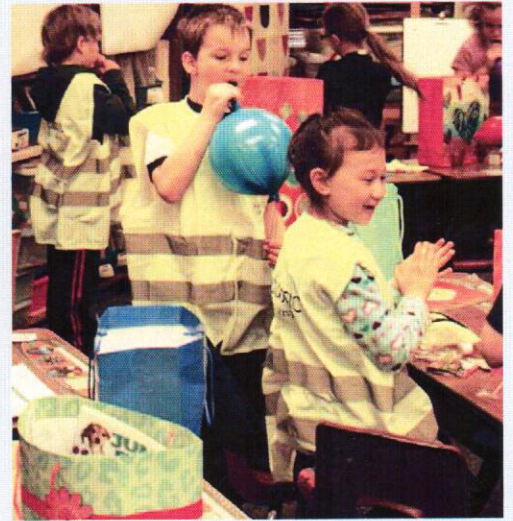
The Sanford Poison Center provides all of the education and prevention information for the State of South Dakota. Dedicated staff provide poison prevention education and materials to the public through participation in health fairs, safety camps, conferences and mail distribution. The Center also utilizes numerous volunteers in communities across the state to help provide this poison prevention information and education at the local level.

2014 POISON CONTROL WEEK COLORING CONTEST

Sanford hosts an annual coloring contest for all South Dakota first grade students.



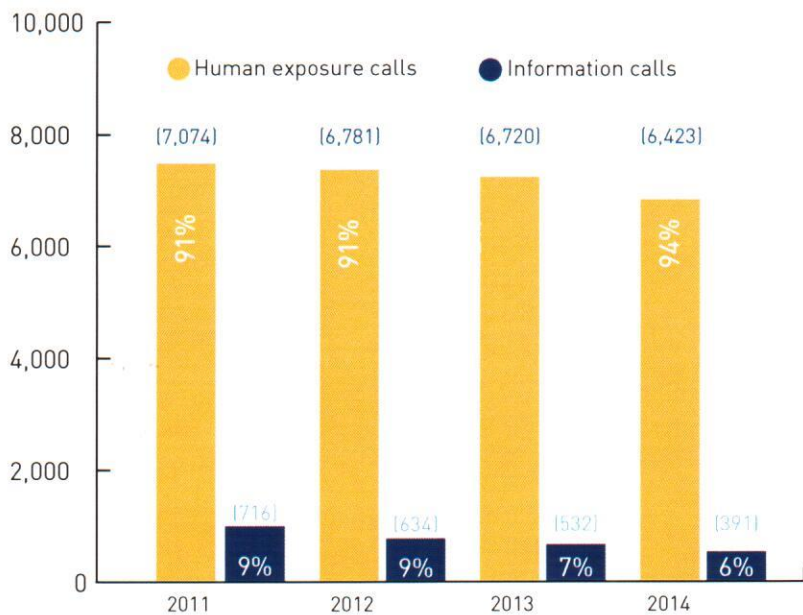
2014 Poison Control Week
Coloring Contest Winners
Brookings Elementary won the class
“Fun Bags” – 1st grade Mrs. Larson.



Sophie - Dell Rapids, SD
Sophie was one of 20 students
to win a \$25 gift card for
participating this year.

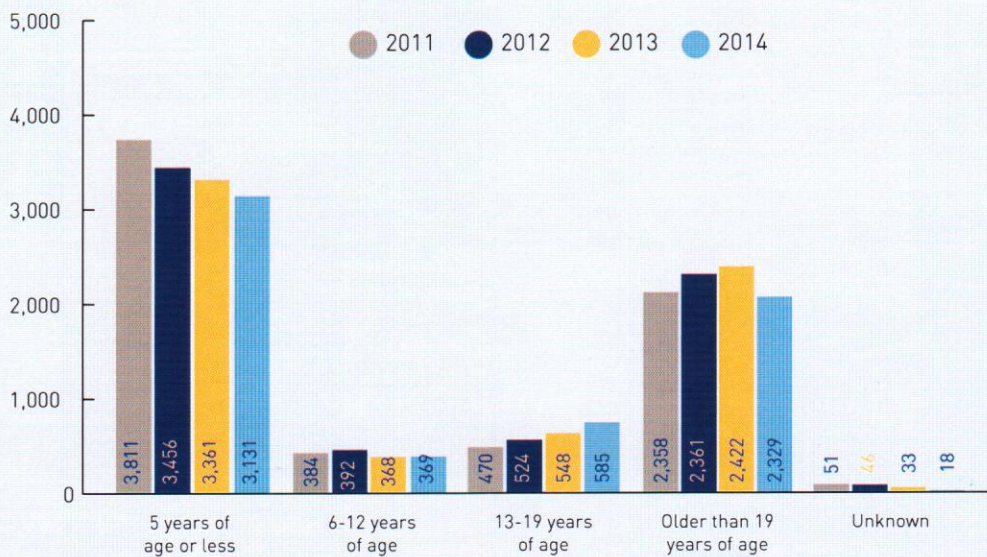
TOTAL CALLS BY TYPE

The majority of calls to the Sanford Poison Center involve an actual exposure to a potentially harmful substance. In addition, the Sanford Poison Center staff provides information pertaining to medications, poisons, poison prevention, medical concerns, and other issues.



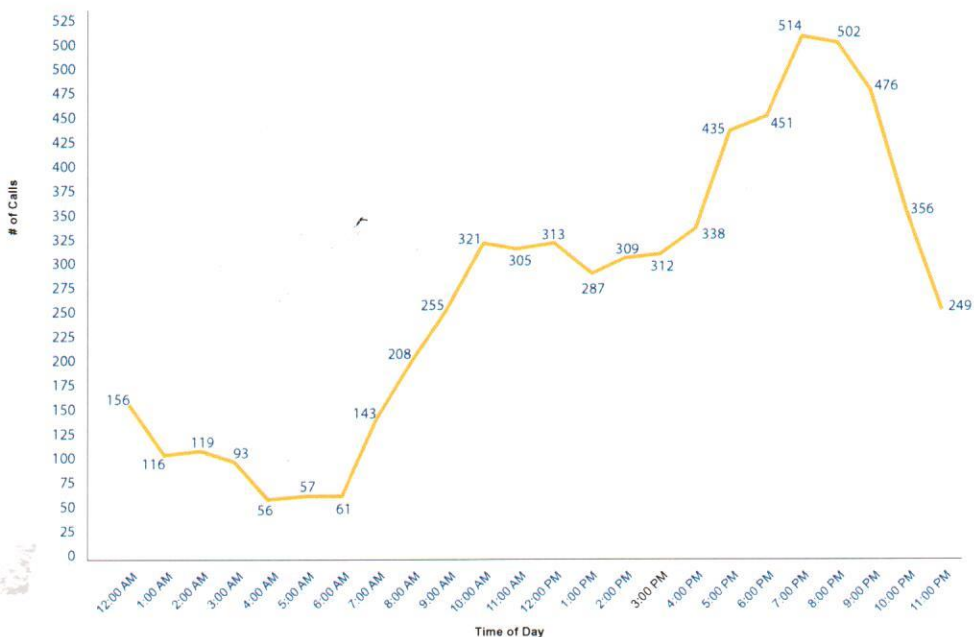
AGE OF POISON EXPOSED VICTIMS

Children five years of age and younger continue to account for the majority (49 percent) of all the calls managed by the Sanford Poison Control. This age distribution has been consistent in recent years.



EXPOSURE BY TIME OF DAY

This graph shows the time of day that individuals are calling the poison center. Due to the fact a large majority of our calls are for children under 5 years of age, we see an increase in the call volume during lunch and dinner time when young children become hungry and may eat unsafe items when accessible.



ROUTE OF EXPOSURE

The most common route of exposure to potentially toxic substances is ingestion (83 percent). Dermal, ocular and inhalation are other significant routes.

Ingestion	5579	83%
Inhalation	331	5%
Aspiration	8	0.12%
Ocular	289	4%
Dermal	353	5%
Bite / Sting	38	0.57%
Parenteral	73	1.09%
Rectal	1	0.01%
Otic	6	0.091%
Vaginal	3	0.041%
Other / Unknown	12	0.18%
Total	6711	100%

** The number is based on all routes of exposure and any one call may have more than one route.*

CIRCUMSTANCES

The majority (74 percent) of exposures are unintentional. Of these, most fall into the “general” category, which is characterized by the classic childhood exposure associated with normal curiosity. Therapeutic errors (11 percent) are the second most common cause of unintentional exposures. They usually involve inadvertent misuse of a medication.

Intentional exposures account for 22 percent of the total. The majority of those are patients trying to harm themselves. Most of the serious outcomes and deaths arise from this group.

Unintentional		
General	3275	50.92%
Environmental	116	1.80%
Occupational	161	2.5%
Therapeutic Error	690	10.73%
Misuse	402	6.25%
Bite/Sting	38	0.59%
Food Poisoning	59	0.92%
Unknown	3	0.05%
Intentional		
Suspected Suicidal	1058	16.45%
Misuse	157	2.44%
Abuse	210	3.26%
Unknown	133	2.07%
Adverse		
Drug Reaction	67	1.04%
Reaction Food	2	0.03%
Reaction Other	13	0.20%
Contamination/ Hampering	9	0.14%
Malicious	12	0.19%
Withdrawal	4	0.06%
Unknown	23	0.36%
Total	6432	100%

MEDICAL OUTCOME

The medical outcome is a true measure of the effectiveness of the poison control system. In South Dakota 31% had no effect or minor effect and 55% were non-toxic or minimally toxic. The number of moderate to major effects was low. South Dakota reported three deaths during 2014 associated with a poisoning. The other category contains unrelated effects, patient unable to be followed, and other effects.

No Effect	747	12%
Minor	1199	19%
Moderate	497	7%
Major	67	1%
Death	3	0%
Unknown - Non-toxic / Minimal	3577	55%
Unknown - Potentially Toxic	143	2%
Unrelated Effect	190	3%
Confirmed Nonexposure	9	0%
Missing	0	0%
Total	6432	100%

SUBSTANCES INVOLVED

The table below lists the top ten categories of agents involved in cases reported to the Sanford Poison Center. In a significant number of cases, most notably intentional drug overdoses, more than one substance was involved.

* Pharmaceuticals make up over 75 percent of the poison center contacts.

	2013		2014	
	Amount	SD%	Amount	SD%
Over-The counter Prescription Drugs	3826	56.8 %	3130	48.6 %
Analgesics	1179	17.5 %	1137	17.7 %
Household/Industrial Cleaning Products/Dyes	609	9 %	613	9.5 %
Personal Care/Cosmetics/Essential Oils	592	8.8 %	597	9.3 %
Alcohols	365	5.4 %	331	5.1 %
Foreign Bodies/Toys/Miscellaneous	235	3.5 %	253	3.9 %
Vitamins	233	3.5 %	193	3 %
Insecticides/Pesticides/Rohenticides/ Herbicides	273	4.1 %	267	4.2 %
Stimulants/Street Drugs	191	2.8%	232	3.6 %
Sedatives/Hypnotics/Antipsychotics	83	1.2%	549	8.5%

CALLER LOCATION AND TYPE

The primary call site for human exposures is the residence of the caller (64%). A significant number of calls (28%) originate at healthcare facilities (HCF) and clinics.

MANAGEMENT SITE

In 2014, 65 percent of all poisoning cases were safely managed at home (on site). The table below describes where the cases were managed with HCF denoting a healthcare facility. Safely managing patients at home saves millions of dollars in unnecessary healthcare costs. It also allows more efficient and effective use of limited healthcare resources. By calling the Sanford Poison Center, we can help save lives and save dollars.

Managed on Site / Non-HCF	4174
Managed In HCF:	
Admitted	1101
Treated and Released	876
Refused Referral	38
AMA/Patient lost to follow-up	197
Other / Unknown	46
Total	6432

Other/
Unknown
364
(5.66%)

Work
94
(1.46%)

School
21
(0.33%)

Residence
4116
(63.99%)

Public
Area
19
(0.30%)

Health
care
Facility/
Health
Professional
1818
(28.26%)

Sanford Poison Center Emergency Phone
1-800-222-1222

SDPOISON.ORG

For education and Non-Emergent Calls
(605) 328-6670
FAX: (605) 328-6671
sdpoison.org

1305 W 18th Street, Po Box 5039
Sioux Falls, SD 57117-5039

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

SANFORD
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