

**162**

**Deaths (2009-2013)**

**79**

**Hospital Discharges**

**(2008-2012)**

**272**

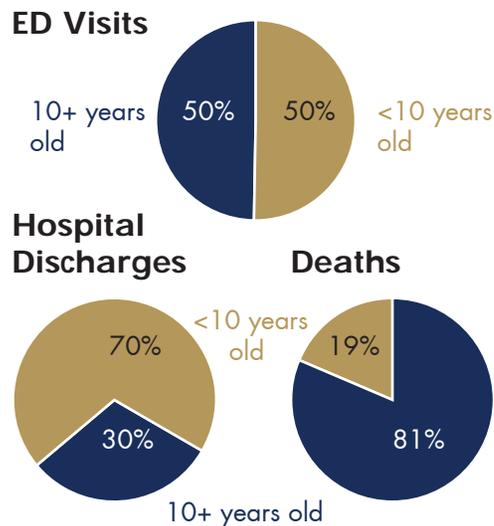
**Emergency Department Visits (2008-2012)**

## Age

The age distributions of drowning injuries differ across the three databases. This reflects the different risks across the life span. For EDVs and HDs 50 percent or more of drowning injuries occur in those younger than 10 years old. For deaths, almost all, 81 percent, are in individuals older than 10 years old. Younger children may be at more risk for non-fatal drowning injuries due to being weaker swimmers and having greater exposure to water like lakes and pools (1).

## Drowning Injury Severity

The more than 162 drowning injury deaths between 2009 and 2013 represent only a fraction of drowning injuries in Kansas. For every drowning injury death in Kansas, during 2008 to 2012, there were more than twice as many near drownings (emergency department visits (EDV) and hospital discharges (HD)).



## How To Use this Document:

This document is intended to give readers an overview of drowning injuries in Kansas. Most of the numbers used to create the charts and graphs can be found in data tables at the end of this document.

### Data Sources:

This document uses three databases to describe different severities of drowning injuries. The most serious is deaths. The two other databases reflect injuries that result in hospital care. The emergency department visit (EDV) database includes injuries that have a hospital stay of less than 24 hours, the least serious injuries. Hospital stays longer than 24 hours are hospital discharges (HD). All data for deaths refer to the 2009 to 2013 time period. All data for EDV and HD refer to the 2008 to 2012 time period.

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Category	#Deaths	Death Rate per 100k*	95% CI	#HD	HD Rate per 100k*	95% CI	#EDV	EDV Rate per 100k*	95% CI
<b>Gender</b>									
Female	32	0.5	0.3-0.7	24	0.3	0.2-0.5	107	1.5	1.3-1.9
Male	130	1.8	1.5-2.2	55	0.8	0.6-1.0	165	2.3	2.0-2.7
<b>Age</b>									
<10 years	30	1.5	1.0-2.1	55	2.7	2.1-3.6	137	6.8	5.7-8.0
10+ years	132	1.1	0.9-1.3	24	0.2	0.1-0.3	135	0.9	0.9-1.3
Overall	162	1.1	1.0-1.3	79	0.6	0.4-0.7	272	1.9	1.7-2.2

**Technical Notes:**

Drowning injury EDVs and HDs are all unintentional and defined with the following ICD-9CM E-codes: E830.0-E830.9, E832.0-E832.9, E910.0-E910.9, 994.1. Drowning injury deaths were defined as deaths with following ICD-10 codes: W65-W74, X71, X92, Y21

95% CI: 95% Confidence Interval

\*Drowning injury rates are per 100,000 population and are age-adjusted to the 2000 U.S. Standard population using the direct method (unless noted as age specific).

Source: 2008-2012 Kansas Emergency Department and Hospital Discharge Database, Kansas Hospital Association, 2009-2013 Kansas Vital Statistics, Bureau of Epidemiology and Public Health Informatics.

**References**

1. Baker S, O'Neill B, Ginsburg M. *The Injury Fact Book*. 2nd ed. New York: Oxford University Press; 1992.