



## Characteristics of Individuals and Protocol Use in Nebraska Schools 2012-2013

Data was voluntarily reported to Attack On Asthma Nebraska (AOAN) during and following the 2012-2013 school year. During this period of time there were 70 reported incidents of the *Emergency Response to Life-Threatening Asthma or Systemic Allergic Reaction (Anaphylaxis)* protocol being implemented. Schools submit data using a standardized form.

- The majority of the incidents occurred during the months of August, September, October, November (57%).
- Protocol administration was two-thirds female (61%) and one-third male (39%).
- More Elementary (43%) and High School (34%) students were administered the protocol than Middle School (21%) students. There was one staff incident (1%) reported.
- The location of incidents is as follows: PE class and recess (44%) and classroom (39%). There were eleven incidents related to lunch (16%) and one incident on a school bus (1%).
- Fifty incidents were with an individual with a history of asthma (74%). Fourteen individuals reported no history of either asthma or severe allergy (21%) and fifteen individuals reported a history of severe allergy (21%).
- Sixty-two individuals (89 %) received epinephrine as a correct usage of the protocol or the individual's action plan. One individual (1%) received epinephrine secondary to nebulized albuterol, an incorrect usage of protocol medications.
- Of the fourteen individuals with no history of asthma or severe allergy, seven returned to school with either an action plan (29%) or medications alone (21%) for a combined total 50% returning to school with something.
- Of the fifty individuals (74%) with a history of asthma, only twenty-six (52%) had an action plan on file prior to protocol administration. Included in the twenty-six are three individuals with an action plan and no medications and another individual with an action plan and incorrect medication (long-term vs. quick-relief) at school.
- Out of twenty-four individuals with a history of asthma and **no** action plan on file, one of these individuals (4%) had no action plan, but did have medication. Fourteen individuals (58%) returned to school with an action plan after protocol administration and two individuals (8%) returned with medication, but no action plan.

- Of the fifteen individuals reporting a history of severe allergy, eight (52%) had an action plan on file and one individual (7%) had an action plan, but no medication.
- Four (57%) out of seven individuals with a history of severe allergy and no action plan on file returned with an action plan. One individual (14%) with a history of severe allergy and no action plan on file returned with medication, but no action plan. Two individuals (29%) with a history of severe allergy and no action plan on file returned without an action plan.
- Fifteen (21%) of the 70 incidents were severe allergic reactions (anaphylaxis).
- There were eight incidents (12%) in which only nebulized albuterol was administered.
- Sixteen individuals (23%) self-carried medication prior to protocol administration. Four of these individuals (25%) did not have their medication with them at the time of the incident, two individuals (13%) had empty inhalers and three individuals (19%) were self-carrying medication unknown to the school.
- Emergency Medical Services (EMS) was summoned 97% of the time. Of the two incidents in which EMS was not summoned, both incidents (100%) were treated with nebulized albuterol only.
- Fifty-eight individuals (83%) were transported to a medical facility via the Emergency Medical System. Eleven individuals (16%) were transported to a physician's office or medical facility by a parent and one individual (1%) was signed off by a parent and stayed in school (this individual was administered nebulized albuterol only).
- Seventeen school districts reported the 70 incidents.
- There were three school districts which reported repeat breathing emergencies for individuals during this school year.
- Two school districts have no access to or have a school nurse.

NOTE: It is assumed that action plans include medications, however having an action plan on file at school may or may not include prescribed medication(s). When schools report specifically, this is noted.