

## Arizona State Immunization Information System (ASIIS) Registry Sentinel Site Implementation Grant 2008



■ Denotes Arizona's Sentinel Site area

### Arizona Statistics:

- Arizona is one of four states that border Mexico and has the second largest and most diverse Native American population in the U.S.
- Arizona is one of the fastest growing states in the United States. According to the U.S. Census, Arizona's population was estimated at 6,338,755 in 2007, with a growth rate of 23.5% over 7 years.
- Arizona State Immunization Information System (ASIIS) was created through private foundation grants in 1994. Since then, it has migrated to a web-based application which has over 6,000 individual users and 1,800 provider sites which utilize its functions.
- The database is populated with birth certificate data received from automatic uploads from Arizona's Vital Records. Death certificate data is also used to inactivate records.
- ASIIS accepts data via web entry, paper data forms, HL7 transmittals, and files sent or uploaded from billing systems.
- Arizona Revised Statute (A. R. S.) §35-136 officially created a child immunization registry and requires all providers to report immunizations given to children under age 18 to ASIIS. ASIIS is an opt-out system for children. Senate Bill 1098 is currently in process in Arizona's legislature that will allow for opt-out collection of immunization data for adults.

- ASIIS uses a robust de-duplication process designed to identify potential duplicate records in the database. It achieved an overall score of 94% for sensitivity and 100% for specificity when checked against the CDC de-duplication criteria.
- ASIIS has developed a data sharing relationship with the states of Louisiana and Washington.
- ASIIS is proud to be one of two state immunization registries that exchanges data (bi-directionally) with Indian Health Services (IHS). The IHS Immunization Data Exchange initiative has resulted in the development of software to enable an automated, two-way batch interface.

### **Sentinel Site Statistics:**

- According to U.S. Census 2006 estimates, approximately 780,984 (12.7%) lived in the seven sentinel site counties (Apache, Coconino, Gila, La Paz, Mohave, Navajo and Yavapai), with growth rate of about 2.2% per year.
- Arizona's Sentinel Site counties comprise of over 60% of the land area of the state, but only includes about 15% of the provider sites that report immunizations to our IIS in the state. Topographical and climactic factors in Arizona's Sentinel Site have a significant influence on health and make access to health resources difficult. These factors, in addition to the "frontier" nature between communities, necessitate travel of considerable distances to see a doctor and even further for hospital-based services.
- There are over 279,000 children under the age of 19 enrolled in the registry from the Sentinel Site area. Of those, 93% (258,000) report at least two doses of vaccine.
- The Sentinel Site population has a greater portion of AI/AN (26.9%) than the state of Arizona as a whole (5.1%). In contrast, there are less Hispanics (11.5%) residing in the Sentinel Site than the rest of the state (28.5%).
- Of the Sentinel Site's provider sites, about 60% are private sites and 40% are public sites.
- 89% of the Sentinel Site's provider sites report to ASIIS within 30 days or less, and 94% report within 60 days.
- The ASIIS Data Quality Specialist position, which is funded by the Sentinel Site grant, was created to improve data accuracy and quality. Amongst the activities of the position are identification and resolution of erroneous dates of birth, vaccination dates, and vaccination codes.
- ASIIS staff members offer both local (Phoenix area) and regional training sessions on a regular basis, with extra concentration in the Sentinel Site area. In addition, ASIIS teams with **The Arizona Partnership for Immunization (TAPI)** to provide "Learn at Lunch" sessions, which cover a training curriculum that includes vaccine administration, vaccine storage and handling, and tips for entry of data onto the ASIIS web application. These sessions are held across the state and have been well received by the medical community and are well attended.

For further information, visit our web site at <http://www.azdhs.gov/phs/asiis/> or call the ASIIS Project Leader, Lisa Rasmussen at (602) 364-3619

This document can be found on the CDC website at:

<http://www.cdc.gov/vaccines/programs/iis/activities/downloads/AZ-sentinel-508.pdf>