

# Immunization Compliance and Registry Use in Child Care

Karin Szymanski<sup>1</sup>, BA, MEd  
Tonya Toussaint, RN<sup>2</sup>, BSN, MS

<sup>1</sup>The Arizona Partnership for Immunization, <sup>2</sup>Maricopa County Department of Public Health

**325,000 = Children < 6 y.o.**

**3,600 = Family Homes/Centers**

**8,000 = Child Care Provider Workforce**



## Background

(National Association for Child Care Resource and Referral Agencies, 2011)

## Recommended BABY SHOTS by 6 yrs of age

|                  |                                                                                                |                                                                                                |                                                                                                    |                                                                                                     |                                                                                                |
|------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>DTaP</b>      | <br>2 months  | <br>4 months  | <br>6 months    | <br>12-15 months | <br>4-6 yrs |
| <b>IPV</b>       | <br>2 months  | <br>4 months  | <br>6-12 months |                                                                                                     | <br>4-6 yrs |
| <b>MMR</b>       | <br>12 months |                                                                                                |                                                                                                    |                                                                                                     | <br>4-6 yrs |
| <b>Hib</b>       | <br>2 months  | <br>4 months  | <br>6 months    | <br>12-15 months |                                                                                                |
| <b>Hep A</b>     | <br>12 months | <br>18 months |                                                                                                    |                                                                                                     |                                                                                                |
| <b>Hep B</b>     | <br>birth     | <br>2 months  | <br>6 months    |                                                                                                     |                                                                                                |
| <b>Varicella</b> | <br>12 months |                                                                                                |                                                                                                    |                                                                                                     | <br>4-6 yrs |
| <b>Polio</b>     | <br>2 months  | <br>4 months  | <br>6 months    | <br>12-15 months |                                                                                                |
| <b>Rotavirus</b> | <br>2 months  | <br>4 months  | <br>6 months    |                                                                                                     |                                                                                                |

### Vaccine

#### DTaP

#### IPV

#### MMR

#### Hib

#### Hep A

#### Hep B

#### Var

#### PCV7

#### Rotavirus

### Helps prevent these diseases:

**Diphtheria** A severe throat infection that makes it very hard to swallow and breathe.

**Tetanus (lockjaw)** Causes severe muscle spasms, breathing and heart problems, and may lead to death.

**Pertussis (Whooping cough)** Causes long spells of coughing that make it hard for a child to eat, drink, and breathe. It can lead to pneumonia, seizures and death.

**Polio** Can cause lifelong paralysis and deformity.

**Measles** Causes a high fever, rash, sore eyes and cold-like symptoms. It can lead to hearing loss, breathing problems, pneumonia, brain damage and death.

**Mumps** Causes headache, fever, and painful swelling of the cheeks and jaw. In some cases, it can lead to hearing loss, swelling of the brain and spinal cord, and brain damage.

**Rubella (German measles)** A highly contagious disease that causes a fever and rash on the face and neck. A pregnant woman who gets Rubella can lose her baby or have a baby with severe birth defects.

**Haemophilus influenzae type b** Causes joint, eye, ear, and lung infections, and meningitis, which may lead to brain damage or death.

**Hepatitis A** A severe liver disease that can cause "flu-like" symptoms, jaundice (yellow skin or eyes), severe stomach pains, diarrhea, and in rare cases – death.

**Hepatitis B** A serious liver infection that can lead to liver damage, liver cancer and in some cases – death.

**Varicella (chicken pox)** A highly contagious disease that causes fever, tiredness, and weakness, followed by an itchy, blister-like rash.

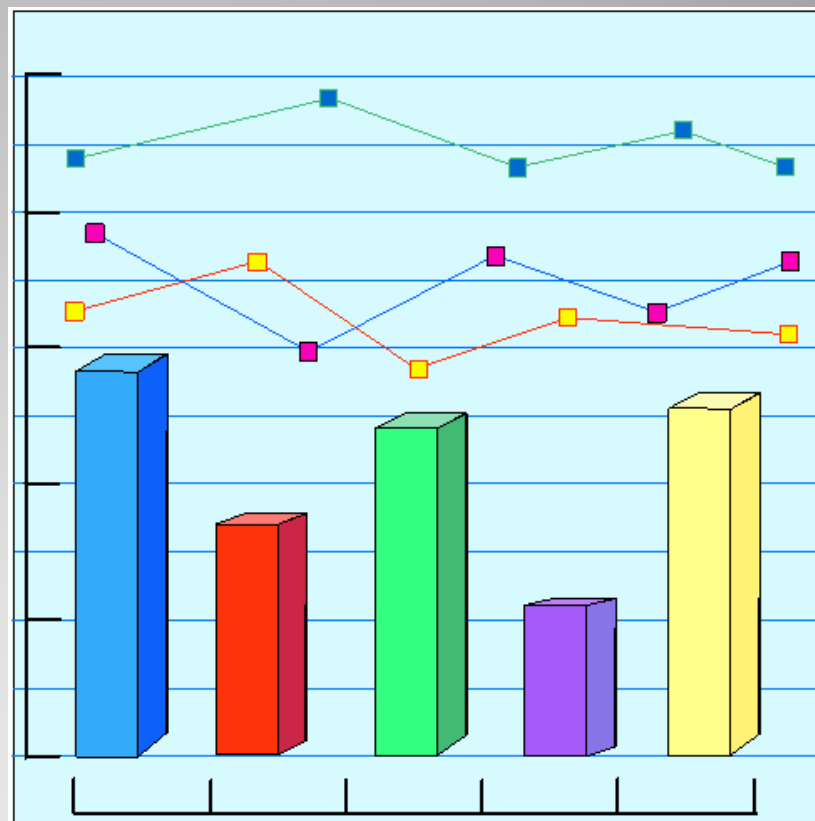
**Pneumococcus** A serious illness among young children that is the most frequent cause of meningitis, blood infections, pneumonia, sinusitis and ear infections.

**Rotavirus** A serious illness among babies and young children that causes severe diarrhea.

\*Note: Hep A is required at one year when children are in a daycare environment. A second shot is required 6 months after the first.

# Immunization Data Reports

- CCPs rely on parents for accuracy of immunization records
- Anecdotal reports suggest that 50 – 60% of IDRs are noncompliant
- Primary reason for noncompliance: inaccuracy of records



# Immunization Data Reports

- Immunization registries play vital role in the management and reporting of immunizations to:
  - Healthcare providers
  - Parents/guardians
  - Child care providers (CCPs)
- Free, web-based access
- CCPs may enroll with “*view only*” privileges
- CCPs can also print immunization records for files.

## Arizona State Immunization Information System (ASIIS)

- Track immunization history of an enrolled child.
- Generate parent alert letters advising of needed immunizations.
- Enter in historical immunization data based on records from a medical provider.
- Generate Immunization Data Reports (IDR's).
- Additional features:
  - Track attendance
  - Classroom rosters
  - Parent contact information



## ASIIS Child Care Module

- Create a culture where “a healthy environments includes up to date immunizations”.
- Increase ASIIS enrollment and use among child care providers.
- Increase IDR compliance and accuracy
- Increase compliance with childhood immunization guidelines.



## ASIIS Child Care Module Goals

## CCHCs

- Registered Nurses
- On-site assessment of health practices
- Health policy review and development
- Staff/parent trainings
- Health record reviews
- Community resource and referral

## Outcomes

- Fewer child/staff sick days
- Increased compliance with universal precautions
- Higher immunization rates
- Improved immunization record-keeping

# Child Care Health Consultation

- In 2011 TAPI collaborated with CCHCs to pilot the ASIIS Child Care Module.
- CCHCs received training on the ASIIS Child Care Module.
- Pilot began with 5 test sites in Maricopa County.
- Pilot has expanded to 30 test sites.



## Pilot Project

- Enrollment open to all current ASIIS users by summer of 2012.
- The Child Care Module will be available to all child care providers by 2013.



## Pilot Project

# ASIIS AS EZ AS 1, 2, 3.

AZ State Immunization Information System  
A List of Kids Records



## Free To Enroll

Go to [www.azdhs.gov](http://www.azdhs.gov)

Call 602-364-3899 or  
toll free 877-491-5741

Get started today



## Easy To Use

Web based application

Access to centralized,  
record keeping system

Stores all childhood immunization  
information (since 1998)



## Benefits To You

Look up children's  
immunization records

Print official immunization  
records for files

Retrieve missing immunization  
information



# ASIIS Grows With Your Kids

AZ State Immunization Information System  
A List of Kids Records

From Newborn to Toddler to School-Aged Kids



## What is ASIIS?

An electronic record system, like a baby book,  
that tracks your child's immunizations

Web-based system that doctors and clinics  
update each time kids are immunized

Data base that has stored immunization  
records since 1998

## Why ASIIS Benefits You

Your child's doctor or clinic can print  
immunization history for you

ASIIS records are useful for: child care, school  
and summer programs

ASIIS shows you what vaccines your child needs

## How Parents Can Help

Ask the doctor or clinic to keep your child's  
ASIIS record up to date

Request your child's ASIIS record at the next  
healthcare visit

Ask the doctor or clinic to report missing doses  
to ASIIS at 1-877-491-5741



# Marketing Materials

- Widespread support from stakeholders in child care provider community:
  - Arizona Child Care Association
  - Association of Supportive ChildCare
- Increased ASIIS child care provider enrollment.
- Prior to July 2010 = 527 providers
- March 2011 = 716 providers
- May 2012 = **957 PROVIDERS**

## Outcomes

- National Association of Child Care Resource and Referral Agencies. (March 2011). 2011 Child Care in the State of Arizona.

## References

- **Tonya Toussaint, RN, BSN, MS**

*Nursing Supervisor, Community Health Nursing*

Maricopa County Department of Public Health

4041 N. Central Ave. Phoenix, AZ 85012

(602) 506-6007 | C: (602) 206-1714 | F: (602) 506-5506

[TonyaToussaint@mail.maricopa.gov](mailto:TonyaToussaint@mail.maricopa.gov)

[facebook.com/MCDPH](https://facebook.com/MCDPH) | [twitter.com/Maricopahealth](https://twitter.com/Maricopahealth) |

[www.WeArePublicHealth.org](http://www.WeArePublicHealth.org)

- **Karin Szymanski, MEd**

*Project Coordinator*

*The Arizona Partnership for Immunization*

[KarinS@tapi.org](mailto:KarinS@tapi.org)

[www.WhyImmunize.org](http://www.WhyImmunize.org)



## Contact Information