# Challenges and Responses in Immunization Programs: California Strategies to Extend Registries to All Communities in the State



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California is a large and diverse state

Total population: 34 million

Number of live births / year: 530,000

58 counties; 92% urban, with rural population spread over

great distances

- Healthy People 2010 goals- 95% of children 5 years and under included in a population-based Immunization Registry.
- State authorized and began support of immunization registries in 1995. Annual appropriation of \$3.5 million.

#### **Background: Vision and Structure**

Vision: Adequate immunization of all children in California

Local/Regional Registry Functions: Maintain records; outreach to providers and community; reminder notices for IZs due; local immunization coverage; send data to the State.

State Level Functions: Leadership, coordination, standards; funding; strategy for statewide network; state hub for linking registries and other programs; assess immunization coverage.

Structure: State hub linking distributed databases; complete records at hub; updates from and to local/regional registries.



#### Challenges and Progress

#### **Challenges**

Delay of state hub
Loss of software support
Insufficient funding

#### **Progress**

Development of local registries

Development of statewide infrastructure

Publication of registry development guidelines



#### **Strategies to Expand Registry Development**

- 1. Evaluation focus on software
- 2. Proposed strategies for further development
- 3. Qualitative change in development strategy
- 4. Begin regionalization process
- 5. Counties develop local implementations



#### Strategy 1: Evaluation – Focus on Software

CA SIIS & consultants assessed software developed by California immunization registry projects.

Four good products identified, developed by Contra Costa, San Bernardino, San Diego, and San Joaquin Counties.

Selected Contra Costa County software product (CCAIR) to be replicated for use by other counties. CCAIR to be supported by 3<sup>rd</sup> party vendor.



#### 2: Strategies for Further Development

Develop regional registries using CCAIR or one of the other three products.

- Base on patient and provider areas of activity
- Collaboration of local jurisdictions
- Achieve economy of scale

Use standards-based and evaluated best practices

Use web-enabled software



#### 3: Change in Development Strategy

#### Research and development phase

Originally single-county registries, testing and adapting to local conditions

Path breaking - learning best methods

#### Regionalization phase

Based on products and lessons of first phase Will allow expansion of registry coverage within constraints of resources



#### 4: Begin Regionalization Process

State issues RFA for development of Regional Immunization Registries, requiring: collaboration of counties to establish & govern; establishment of regional database & structure; migration of existing registries to regional.

Review of applications & awards:
Internal & external reviewers
7 applications, covering 82% of population
All 7 regions funded but at less than requested



### 5: Counties Develop Local Implementations

Counties address tough questions. How to: satisfy regional requirements with limited funds. maintain users while migrating to new system & new software.

coordinate activities among experienced registry developers and brand new counties.

develop regional governance and inter-county agreements.

get sign-on of county officials on legal and policy issues.



It is difficult to form regions, especially the larger the number of counties involved.

The counties are rising to the challenge.

It was time to move ahead to regional registries, using proven software and web enablement.

We have a basis on which to expand to cover the rest of California's children in an IZ registry.



## CALIFORNIA REGIONAL REGISTRIES June 2000

Region	<b>Population</b>	<b>Jurisdictions</b> i	n Region (counties/3
	<u>cities)</u>		
<b>Bay Area Region</b>	5,175,800	Alameda	San Mateo
(BAR)		City of Berkeley	Santa Clara
		Monterey	Solano
		San Benito	Sonoma

**Central Coast Immunization** 1,400,700

Registry (CCIR) Santa Barbara

San Luis Obispo

Ventura

## **Central Valley Immunization**2,055,200 **Information System (CVIIS)**

Fresno

Madera

Kern

Tulare

Kings

**Los Angeles County Regional**9,790,000

City of Long Beach

Immunization Registry City of Pasadena

(LACRIR) Los Angeles

**Inland Empire Immunization** 3,178,800 Riverside

Tracking System (IEITS) San Bernardino

San Diego & Imperial Counties 3,029,100 Imperial

**Regional Immunization Registry**San Diego-All Kids Count

**San Joaquin Region &** 3,323,700 SJR: SFT: **Shots for Tots** El Dorado Amador Calaveras Nevada Mariposa Placer Merced Sacramento San Joaquin Sutter Stanislaus Yolo Tuolumne Yuba

Total population covered in State-funded regional registries: 27,953,300