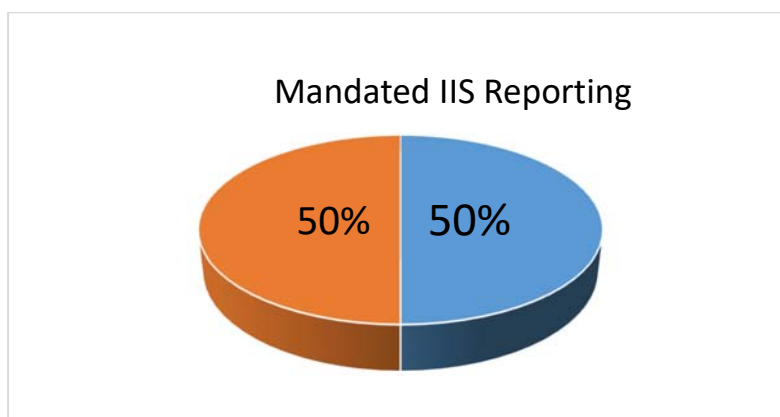


## Immunization Information Systems in Other States

In an effort to understand how other states are utilizing their IIS systems, we sent out a survey to all jurisdictions throughout the United States for feedback. Jurisdictions include all states, U.S. territories, Washington D.C., and a few large metropolitan cities. We utilized a variety of question types, including yes/no, multiple choice, range, fill-in the blank, and open-ended questions. A copy of the survey can be found in Appendix B. We received at least partial responses from 18 out of 61 (29.5%) jurisdictions, with only 10 fully completing the survey. Due to the low response rate, we acknowledge limitations with the data and do not present this information to be a complete representation of other states. Individual responses have not been researched or verified for accuracy. The results of the survey are summarized into sections below.

### Reporting

Out of 18 respondents, half reported that use of their jurisdiction's IIS is mandatory and half indicated it is not.



For those jurisdictions that do not have mandated reporting to IIS systems, the following were listed as incentives to providers to participate:

- Required participation by Vaccines For Children (VFC) providers and pharmacists
- Meaningful Use
- EHR Incentive Program
- Promotion of interoperability/bi-directional data exchange
- Vaccine ordering and reporting
- Transparency of data between providers
- Paperless reporting
- Forecasting immunizations according to ACIP guidelines

## IIS Interoperability

When asked about Health Information Exchanges (HIE), 16 out of 18 respondents stated their jurisdiction has one or more HIE. Of these, only three indicated that vaccination reporting to their HIE is mandatory, while seven indicated that their IIS is interoperable with their HIE. Six respondents further identified how their IIS is interoperable with their HIE. Key points from review of responses include:

- 100% (6/6) stated that vaccination data is passed through the HIE from providers to the IIS.
- 100% (6/6) stated that vaccination data is stored only in the IIS.
- 67% (4/6) stated the HIE queries vaccination data from the IIS, and presents or makes available data to HIE provider members.
- 33% (2/6) stated the HIE facilitates access of IIS data for HIE provider members.
- 17% (1/6) stated the HIE facilitates access of IIS data for health plans.

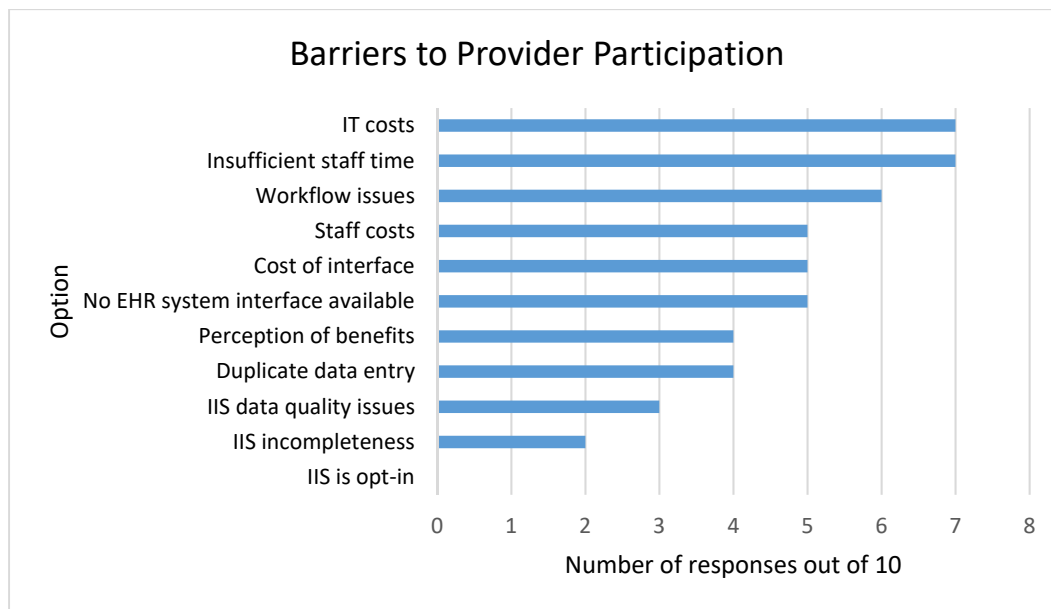
Out of 14 responses, 13 (93%) indicated their jurisdiction's IIS interfaces with Electronic Health (EHR) systems.

## IIS Provider Participation

When asked about estimated participation rates of IIS for non-VFC providers, ten jurisdictions responded resulting in the following averages by provider type:

Provider Type	Estimated Participation Rate
Private Providers	69.3%
Hospitals	70.7%
Long Term Care/ Skilled Nursing / Hospice	40.0%
Federally Qualified Health Center/ Rural Health Clinic/Community Health Center	81.7%
Other Public Facilities	83.3%

Out of 10 jurisdictions, the following barriers to provider participation in IIS were reported based on the options given:



Out of ten responses, 100% of these jurisdictions have access to IIS to verify the immunization status of students. Five of these (50%) allow schools to submit data to their IIS.

We asked for open ended answers regarding how jurisdictions help providers to improve data quality and received the following responses:

- Provider training
- Provider report cards so they can monitor themselves
- Data quality tools built into IIS
- Data quality reviews by IIS staff
- Built in algorithms that captures duplicates and identifies data trends
- Reports identifying potential issues
- Regular engagement and feedback to providers

## Vaccination Records

Only six jurisdictions were able to respond with an approximate percentage of vaccinations that are currently recorded in the IIS, which averaged to be 81%. Of these six, three have mandatory requirements for providers to enter the data. Of the three that are not mandatory, the average percentage of vaccinations recorded in the IIS drops to 75%.

All but one jurisdiction out of nine responses indicated that at least 75% of vaccination data is submitted to the IIS via data interface, with the remaining primarily entered manually by the provider. One outlier indicated that the IIS staff manually enters 70% of the data into their IIS.

## Resources

Five jurisdictions provided an approximate overall annual budget amount for the IIS (see below), with one noting they are not allowed to disclose the amount since a portion is received from a private foundation. The average annual budget per capita for the five responding states was \$0.30 per person.

Population Size <sup>1</sup>	Approximate Annual Budget	Annual Budget Per Capita
5,628,000	\$2.02 million	\$0.36
5,818,000	\$1.6 million	\$0.28
3,941,000	\$1 million	\$0.25
1,933,000	\$750,000	\$0.39
2,091,000	\$465,000	\$0.22

Funding for these six jurisdictions comes from the following sources:

- CDC Immunization Grant
- Other CDC Grants / Cooperative Agreements
- State Funds
- Medicaid Meaningful Use
- Other Medicaid
- Private Foundations
- IAPD Funding

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<sup>1</sup> <http://worldpopulationreview.com/states/>

The following results were reported by nine jurisdictions about FTE staffing for IIS:

	IT Staff	IT Contractor	IT Vendor	Administration	Forecast / Immunization Schedule	System Testing / Quality Assurance	Training	Help Desk	Interface Operational Support	Data Quality	Provider Outreach	Other	Total FTEs	State Population <sup>2</sup>	FTE per 100,000 population
1	5	2	0	2	0	0	20	4	0	0	0	0	33	9,991,000	0.33
2	5	0	2	1	0.25	0.25	1	1.5	1	3	9.5	0	24.5	5,628,000	0.44
3	0	6	0	1	1	0	0.5	2	1.5	0.5	0	0.5	13	5,818,000	0.22
4	2	0	0	1	0	2	1	2	0	1	1	0	10	3,941,000	0.25
5	0.5	1	0	2	0	0.5	1	0	0.5	1.5	2	0	9	3,589,000	0.25
6	2	0	0	1.5	0.2	0.5	0.5	0.8	0.5	1	0	0	7	5,089,000	0.14
7	0	1	3.5	0.3	0	0	0.3	0.3	0.25	0.3	0.3	0.3	6.25	1,933,000	0.32
8	0.5	0	0	1	0	0	1	1.5	0	1.5	0	0	5.5	2,091,000	0.26
9	0	0	0	0	0	0	0	4	0	0	0	0	4	3,161,000	0.13

For the nine states reporting this information, the average was 0.26 FTE per 100,000 population.

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<sup>2</sup> <http://worldpopulationreview.com/states/>