# **Background and Instructions**

Please read this section carefully.

The AIRA IIS Self-Assessment Tool was developed by the IIS Assessment Steering Committe with developing and testing tools to assess IIS with the purpose of improving data quality (cand timeliness), functional capacity and data usage in accordance with IIS Standards of Exceindicators. The purpose of the IIS Self-Assessment Tool is to provide IIS projects with a comassessment and measurement process to exceed minimal standards for overall IIS operation of the Self-Assessment Tool should be used to identify areas for improvement based on a gunctionality and data quality. It is recommended that the IIS perform a self-assessment or monitor improvement and progress towards the gold standard.

The process of completing the IIS Self-Assessment Tool will take between 2-32 hours, with around 15 hours. The amount of time to complete the process depends heavily upon staff access to existing and/or custom reports/queries to run against data in the IIS database, an entities for assistance in creating and/or running queries to respond to various elements.

The Self-Assessment Tool covers three primary functional areas:

- Standard 1: Vaccine Ordering and Inventory Management
- Standard 2: Data Quality and Provider Participation in IIS Data Timeliness, Data Accuracy
- Standard 3: Population Assessment

There is a separate tab for each Standard. Each Standard is scored independently of the ot information on scoring, please see the section below.

\*Note: States not using their IIS for online ordering or online inventory management should 1: Vaccine Ordering and Inventory Management.

# Columns

The following information details the intent and instructions for each of the columns in the

# Column A/B

These columns describe the Element and the various (numbered) items associated with eac cannot be edited.

# Column C: Required/Recommended/Optional

Required/Recommended/Optional relates to the level of importance assigned to an item by requirements. A required item is essential to IIS performance of the standard. A recomme be a core functional operation towards meeting the gold standard of each standard. Optio to be enhancements to the IIS performance of the standard and are encouraged for implen fields cannot be edited.

# Column D: Weight (based on importance)

Based on how an item is designated in Column C, a weighting is applied that is used as a mu (Column I) to calculate the Weighted Score (Column J). A required item is assigned a weigh and optional = 1. These fields cannot be edited.

# Column E: IIS Functionality

A response of "yes" should be entered in this column when the IIS supports the functionalit A and B, and as detailed in Column K (when applicable). If the IIS does not support a particular because the feature is under development, does not exist or applies to a population not su (e.g. adults), a project should enter a response of "no" in Column E. The Self-Assessment T accommodate for a response of "in progress" or "not applicable" as it is meant to be a snar areas for improvement and track progress over time. Possible responses: 1= yes, 0= no.

# Column F: Required by IIS

Responses in this column should be based on whether an IIS considers the listed item to be IIS, meaning that a user cannot progress if the field has not been completed. A Score (Colu when a recommended item (Column C) is "required" by an IIS. Possible responses: 1= yes, greyed out for items where this column is not applicable.

# Column G: Extent of Completeness - % of fields populated

The values in this column should be calculated using the formula provided in Column H (Sul Numerator/Denominator). These items may require a query or custom report to be run ag may be pulled from existing resources such as IISAR responses. The Extent of Completenes Score (Column I) and Weighted Score (Column J). Percentage should be entered as a decim % = .85; 100% = 1. This field will be greyed out for items where this column is not applicable.

# Column H: Suggested Numerator/Denominator

The suggested formulas should be used to calculate the Extent of Completeness (Column G specifically noted, it should be assumed that the formula applies to active patients, organiz and users. For patient-related items, an age range can be selected if running the query aga not possible due to time or system processing resources. Some terminology may vary amo products, so users should adapt to the naming schemes used in their respective IIS. These f This field will be greyed out for items where this column is not applicable.

### Column I: Score

The Score is calculated automatically based on values entered in Columns E, F and G. These For a description of scoring, please refer to the following section.

# Column J: Weighted Score

The Weighted Score is calculated automatically based on the Score (Column I) and the Weig (Column D). These fields cannot be edited. For a description of scoring, please refer to the

# Column K: Comments

The Comments column provides additional detail that may be helpful in determining the in A & B) or clarifying the formula (Column H) used for calculating Extent of Completeness (Cc cannot be edited.

# Scoring

Scoring is assessed based on percentage of the optimal score for each standard. The follow values needed to achieve a good (70% or higher), better (80% or higher), or best (90% or higher).

standard. Scores for each standard are calculated by adding the values entered in Columns (Required) and G (Extent of Completeness). The Weighted Score (Column J) is calculated by (Column I) and the Weight assigned to the item (Column D).

Standard 1	Percent	Score	Weighted
Good	70%	73	207
Better	80%	83	236
Best	90%	94	266
High Value	100%	104	295

Standard 2	Percent	Score	Weighted
Good	70%	118	277
Better	80%	135	316
Best	90%	152	356
High Value	100%	169	395

Standard 3	Percent	Score	W	eighted
Good	70%	1	62	160
Better	80%	1	71	182
Best	90%	1	80	205
High Value	100%	ı	89	228

e (ASC). The ASC is tasked completeness, accuracy ellence and other aprehensive selfans improvement. Results gold standard for IIS an an annual basis to

the average time being knowledge/abilities, Id/or reliance on outside

cy and Data Completeness ther Standards. For more d skip the tab for Standard

: spreadsheet:

ch Element. These fields

ased on core IIS functional ended item is considered to nal items are considered nentation in all IIS. These

ultiplier of the Score nt of 3, recommended=2,

ty as described in Columns ular element or item pported/allowed by the IIS 'ool does not pshot in time to identify

e a required element in the mn I) can be increased 0= no. This field will be

ggested gainst the IIS database or ss will increase both the nal value, for example: 85 le.

i) for each item. Unless rations, facilities, providers ainst the full database is ang the different IIS fields cannot be edited.

e fields cannot be edited.

ght assigned to the item following section.

itent of the item (Columns plumn G). These fields

ving table displays the igher) rating for each

s E (Functionality), F
, multiplying the Score

# STANDARD 1 VACCINE ORDERING AND INVENTORY MANAGEMENT

**Definition:** The IIS electronically supports the ordering, safe storage and handling, appropriate ordering and distribution, and accountability of vaccine by immunization providers. **Objective:** The program has readily accessible, timely, and useful information on vaccine ordering, allocation and use that enables it to monitor the performance of providers and report to providers' own internal use.

	Required/ Recommended/ Optional	Weight (based on importance: 3=REQ, 2=REC, 1=OPT)	IIS Functionality - Yes =1; No = 0	Required by IIS - Yes = 1; No =0	Extent of Completeness - % of fields populated	Suggested Numerator/ Denominator	Score	Weighted Score
A B	C	D	E	F	G	H	I	J

# ELEMENT A: Basic Data for Vaccine Management and Accountability: ESSENTIAL DATA ELEMENTS TO BE COLLECTED

The program collects data in its IIS as it relates to vaccine management and includes the following data fields:

1	VFC Provider Information	88888	8888888	\$88888888888888888888888888888888888888	8888888888	\$88888888888	888888888	8888888	88888888
	a. Provider name	REQ	3				# names/# VFC providers in IIS	0	0
	b. Provider PIN number	REQ	3				#PINs/# VFC providers in IIS	0	0
	c. Shipping Contact	ОРТ	1				#contacts/# VFC providers in IIS	0	0
	d. Phone number	REQ	3				#ph/# VFC providers in IIS	0	0
	e. Fax number	REC	2				#fax/# VFC providers in IIS	0	0
	f. Shipping address	REQ	3				#address/# VFC providers in IIS	0	0
	g. Shipping info - days/hours	REQ	3				# ship info/ # VFC providers in IIS	0	0
	h. e-mail address	REQ	3				#email/# VFC providers in IIS	0	0

			VACC	INE ORDER	STANDA ING AND IN	RD 1 VENTORY M	ANAGEMEI	NT	
2	Inventory management/lot creation								
	a. Vaccine type	REQ	3				#vaccine types/# of active lot numbers	0	0
	b. Vaccine brand name	REQ	3				#brand names/# of active lot numbers	0	0
	c. Vaccine lot number	REQ	3				# lot #'s/ # of active lot numbers	0	0
	d. Vaccine manufacturer	REQ	3				# manufacturers/# of active lot numbers	0	0
	e. NDC Code	REQ	3				# codes/# of active lot numbers	0	0
	f. Vaccine expiration dates	REQ	3				# exp dates/# of active lot numbers	0	0
	g. Funding source of vaccine - public vs. private	REQ	3				# fund source/# of active lot numbers	0	0
3	Vaccine inventory management features	XXXXX	8888888	\$\$\$\$\$\$\$\$\$\$\$	888888888888888888888888888888888888888	\$555555555555	8888888888	8888888	88888888
	a. Doses on hand	REQ	3		2888888888	8888888888	222222222	0	0
	b. Doses administered	REQ	3		<u> </u>	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	888888888888888888888888888888888888888	0	0
	c. Doses wasted	REQ	3		>>>>>>	000000000000000000000000000000000000000	>>>>>>	0	0
	d. Manual adjustments to doses on hand and <b>reasons</b> for the adjustments (subtractions, additions)	REQ	3					0	0
	e. Vaccine transfers, dates, in and out sites.	REQ	3		888888888	88888888888	888888888	0	0
4	Patient Information								

				STANDARD 1
			VACC	CINE ORDERING AND INVENTORY MANAGEMENT
	a. Patient name	REQ	3	# names/ # 0 0
	b. Patient address	REQ	3	# addresses/# records 0 0
	c. Patient VFC Eligibility	REQ	3	# VFC checked /# records 0
	d. Patient DOB	REQ	3	#dates/ # 0 0
5	Recording patient vaccination events			
	a. IIS differentiates between administered and historical vaccination records	REQ	3	0 <b>0</b>
	b. Vaccine type	REQ	3	#vaccine types/# doses 0 0 administered
	c. Vaccine lot number	REQ	3	# lot #'s/ # doses administered 0
	d. Vaccine manufacturer	REQ	3	# manufacturers/#d oses administered 0
	e. Vaccine expiration dates	REQ	3	# exp dates/ # doses 0 0 0 administered
The	e IIS has the capacity to produce reports that document the	appropri	ate use and	untability: REPORTS TO BE RUN UTILIZING DATA CAPTURED AS DEFINED IN Education of VFC vaccine. This information is used to support IIS activity as well as VFC and AFIX site values and patients. In addition, this information is used to monitor vaccine accountability, i.e., vaccine wastage, transport of the patients.
1	VFC eligibility status, age groups and use of VFC vaccine, by vaccine type	REQ	3	0 <b>0</b>
2	Vaccine lot and dose administered reports to support vaccine accountability - both at provider and geographic level	REQ	3	O 0
3	Reconciliation functions and reports	REQ	3	0 <b>0</b>

		VACCINE	STANDA ORDERING AND IN		ANAGEMEN	Т	
4 Identify expired lots or expiring lots in active inventory	REQ	3	XXXXXXXX			0	0
5 Transfers of vaccines among sites	REQ	3	888888888888888888888888888888888888888	888888888888888888888888888888888888888	8888888888	0	0
6 Vaccine wastage reports	REQ	3	888888888888888888888888888888888888888	*******	8888888888	0	0
7 Track vaccine lot numbers at the provider, local and state level	REQ	3				0	0
Generate a patient contact information report by lot number in event of a vaccine recall	REQ	3				0	0
Vaccine storage unit temperatures over specified time periods	REC	2				0	0
Ilement C- Vaccine Ordering and Distribution the IIS is used to generate forms and facilitate vaccine ordering I Generate a VFC order from the IIS	ng and dis	tribution to public a	and private providers.	₽\$	000000000	0	0
2 Order vaccine based on past usage (provider)	REC	2	**********		**********	0	0
Order frequency and timing (Economic Ordering Quantity) - order history of vaccine based on past usage behaviors of provider	REC	2		0000000000	# providers with ordering info/total # of providers	0	0
4 Order dates of vaccines	REQ	3			field complete/ # field records	0	0
5 Delivery dates of vaccines	REQ	3			field complete/ # field records	0	0
6 Document vaccines purchased by funding source	REQ	3			# lot #'s with documented funding source/# lot numbers	0	0
7 Reconcile vaccine usage with order requested and shipped	REQ	3	***********			0	0
Monitor lots due to expire or expired to see if redistribution will be necessary	REQ	3	88888888			0	0

o the CDC and other authorities, as well as the
Comments/Definitions
K
Use name that corresponds with VFC pin, can be provider, facility, organization name. Exclude non-VFC providers from numerator and denominator.
If VTrckS required shipping field (27 character text field) is populated, count as 1 contact. Field may contain multiple data elements (e.g. first name, last name and title).
_
This includes street, city, state and zip.
#ship info = # providers facilities that have data in one or more fields that contain shipping information

The following items refer to elements captured at the inventory/lot level. Patient level details regarding doses administered appear in a following section.
When calculating Extent of Completeness for the fields in this section, consider limiting the age range for the query to 0-18 yrs of age.

Questions in this section apply only to administered vaccinations.
EMENT A ts. As part of the VFC/AFIX site visits, this ers in/transfers out, vaccine expiration, vaccine

Could be due to mfg recall or to provider-specific recall such as vaccine stored improperly
Public versus Private vaccine. Use active lot numbers only.

#### **STANDARD 2** DATA QUALITY & PROVIDER PARTICIPATION IN IIS, DATA TIMELINESS, DATA ACCURACY, DATA COMPLETENESS **Definition:** The IIS systematically manages provider enrollment, data submission, and data quality including timeliness, accuracy and completeness. **Objective:** The IIS program staff use the IIS for provider enrollment and monitoring provider activity including submission rate and data quality. IIS Extent of Required by Suggested **Functionality** Completeness -Weighted IIS - Yes = Numerator/ **Comments/Definitions** Score % of fields **Yes =1**; Score **Denominator** 1; $N_0 = 0$ No = 0populated $\mathbf{E}$ $\mathbf{F}$ G H Ι D K

# **ELEMENT A: Provider Recruitment and Enrollment**

The program uses the IIS to manage the provider enrollment process

The IIS has a provider enrollment module or screens with	00000	00000	000000000	00000000	00000000000	000000000	0000	0000000	
1 the following data elements (fields):	38888	88888			***********	***********	8888	*****	
A. Name of medical organization	REQ	3				# names/ # active orgs in IIS	0	0	Definition of medical organization: Business entity under which multiple sites or facilities may exist.
i. Address - street, city, state, zip	REQ	3				#addresses/# active orgs in IIS	0		All components of address must be present to count as complete.
ii. County	REQ	3				#counties recorded/# active orgs in IIS	0	0	County, district or parish of organization's main office
iii. Phone-area code and number	REQ	3				#phone/ # active orgs in sys	0	0	Count any phone number recorded for organization.
iv. Email	REC	2				# emails/ # active orgs in IIS	0	0	Email address of organization contact
v. Medical Organization Administrator or Contact	REC	2				# contacts/# active orgs in IIS	0		Either first name or last name or both names counts as complete.
B. Name of site/facility	REQ	3				# site-facility names/# active site-facilities in IIS	0		Definition of site/facility: separate physical locations within or under a medical organization.

	STANDARD 2												
DATA QUALITY & PROVIDER PARTICIPATION IN IIS, DATA TIMELINESS, DATA ACCURACY, DATA COMPLETENESS													
i. Site Address- street, city, state, zip	REQ	3				# site-facility addresses / # active site- facilities	0	0	All components of address must be present to count as complete.				
ii. County	REQ	3				# site-facility counties/# active site-facilities	0	0	County, district or parish of organization's main office				
iii. Site Phone - area code and number	REQ	3				# site ph-fx / # active site- facilities	0	0					
iv.Site email	REC	2				# site emails / # active site- facilities	0	0	Email address of site contact.				
v. Site administrator or contact	REQ	3				# site contacts/# active site- facilities	0	0	Either first name or last name or both names counts as complete.				
vi. VFC provider ID when enrolled in VFC	REQ	3				# site VFC Ids / # active site- facilities in IIS that are enrolled in VFC	0	0	Denominator includes only providers who participate in state's VFC program. Numerator includes their VFC PIN or ID number.				
C. First and last names of Health Care Providers (i.e., Primary Care Providers)	ОРТ	1				#HC provider names/# of active HC providers in IIS	0	0	Must have both first and last names to count as complete. Include Physicians, Nurse practitioners, other licensed health care professionals within the organization that provide patient care that includes immunization.				
i. Credentials (MD, ARNP, RN, DO, etc)	ОРТ	1				# cred/ # active HC providers	0	0	Examples of credentials are MD, RN, LPN, LVN, MA, may vary by SIIS.				
ii. Medical License #	ОРТ	1				# licenses/# active HC providers	0	0					
iii. National Provider ID (NPI)	ОРТ	1				# Prov IDs/# active HC providers	0	0					
D. First and last names of users who do data entry	REQ	3				# user accounts with both first and last names/# active user accounts	0	0	Must have both first and last name of user to count as complete.				

				STAN	IDARD 2				
DATA QUALITY & PROVI	DER P	ARTI	CIPATION II	N IIS, DAT	A TIMELINE	SS, DATA A	CCUF	RACY, DA	ATA COMPLETENESS
i. Credentials (if they have)	OPT	1		·			0	0	Examples of credentials are MD, RN, LPN, LVN, MA, may vary by SIIS.
iii. Security/access level and permissions	REQ	3					0	0	SIIS must have functionality to assign different levels o access and permission to users. System requires entry of access level. Specific permissions are optional to be assigned.
Element B: IIS Functionality for Data Exchange			•						
The IIS supports multiple provider data submission and excha							_		
1 Direct provider data entry into IIS	REQ	3	····	XXXXXX	888888888888888888888888888888888888888		0	0	Through web-based interface
2 Electronic data submission (other than direct user entry)	****			******					
A. Flat file format from billing or practice management system or Electronic Health Record system	ОРТ	1					0	0	Optional if already doing HL7: do not penalize if flat files not accepted but HL7 messages are. If not doing HL7, must be required.
B. HL7 uni-directional, batch	REQ	3					0	0	IIS supports batch processing of HL7 vaccination update (VXU) messages.
C. HL7 uni-directional, real time update	REQ	3					0	0	IIS supports real-time receipt of HL7 vaccination update (VXU) messages. Real-time is defined as the ability to receive a VXU message and return the appropriate HL7 acknowledgement immediately in replyusing the transport method selected by the IIS. While the acknowledgement must be generated immediately, the final processing of the message data may or may not be real-time.
D. HL7 bi-directional, real time	REC	2					0	0	IIS supports real-time queries for vaccination history via an HL7 query (VXQ and/or QBP) messages.
E. HL7 bi-directional, batch update	ОРТ	1					0	0	IIS can send out HL7 vaccination update (VXU) messages to external systems, either in batches or reatime.
F. HL7 bi-directional, query other IIS	ОРТ	1					0	0	IIS can send HL7 query (VXQ and/or QBP) messages to other IIS to request vaccination histories. This could be used for state-to-state or other cross-jurisdictional queries.
3 Data exchange via HIE	88888	88888		XXXXXXXXX		XXXXXXXXXXXXXXXX	XXXX	88888888	
A. uni-directional	REC	2		22222222	>>>>>>	XXXXXXXXXX	0	0	
B. bi-directional	REC	2		38383888	2888888888888	\$888888888	0	0	

#### **STANDARD 2** DATA QUALITY & PROVIDER PARTICIPATION IN IIS, DATA TIMELINESS, DATA ACCURACY, DATA COMPLETENESS Element C: Monitoring Provider Submission (receives and processes immunization information within one month of vaccine administration) The IIS measures the timeliness and regularity of provider data submission Produces Provider Participation & Submission Reports 1 (measuring frequency & regularity of submissions) Use IISAR questions as the basis for this group of A. Can run regular reports on number & proportion of **REQ** 3 questions, but reports should be run monthly or 0 0 provider sites enrolled in the IIS. quarterly depending on size of IIS B. Can run regular reports on number & proportion of Use IISAR questions as the basis for this group of provider sites submitting data to the IIS - xx% of enrolled **REQ** 3 0 0 questions, but reports should be run monthly or provider sites have submitted data at least once over past quarterly depending on size of IIS 30/60/90 days. For example: reports could list providers who have C. Can run reports of non-submitting providers to use for **REQ** 3 0 0 submitted no data within past 30 days, 60 days, 90 follow-up. days, etc Timeliness of data submission can be measured per the IISAR - #/% of vaccines entering system within 7 Has electronic and/or manual processes to assess the REQ 3 0 0 timeliness of data submission and follows up with data days, 8-14 days, etc. - But should be run more 2 submitters to ensure compliance. frequently and at provider level for follow-up. Produces reports that show mode of data entry by provider Determines whether mode of submission can be REC 2 0 0 3 site. crosswalked to timeliness and frequency. Element D: Data Quality Assurance REQUIRED (promote accuracy and completeness of registry data) The Program uses the IIS to measure and monitor the accuracy and completeness of data in the IIS. 1 Monitor, improve, and ensure accuracy of data in the IIS: Examples: ability to prevent submission of vaccine with date of administration prior to date of birth; can prevent REQ 3 0 entry of bogus names (baby boy, baby girl, etc); see A. IIS has functionality to prevent data quality errors on IISAR Illogical Data Elements for other examples. incoming data (before it's loaded or entered into the IIS). . IIS has functionality in user interface to prevent/warn **REC** 2 0 0 about data quality errors on incoming data. ii. IIS provides test script for initial load and validation prior REC 2 0 0 to regular submission. For example: vaccine type should match an B. IIS has functionality to identify and report possible errors **REQ** 3 0 0 administration route; see IISAR validation steps on

incoming data for more examples.

and/or warnings as data is loaded into the IIS.

	STANDARD 2												
DATA QUALITY & PROVI	DER P	ARTIC	CIPATION II	N IIS, DAT	A TIMELINE	SS, DATA A	CCUR	RACY, DA	ATA COMPLETENESS				
i. IIS identifies possible duplicate patients while searching and creating new records.	REQ	3					0	0					
ii. IIS identifies possible duplicate vaccination records.	REC	2					0	0					
iii. IIS can identify patients with vaccine dates before date of birth in system.	REC	2		<b>*******</b>			0	0					
C. IIS can generate reports to identify data quality issues on existing data in the IIS.	REQ	3					0	0					
i. IIS has algorithms/reports to identify possible duplicate patients.	REC	2					0	0	ex. IISAR Q52 and Q53.				
ii. IIS has report capability to identify possible duplicate vaccinations.	REC	2					0	0	ex. IISAR Q52 and Q53.				
iii. IIS can generate reports to identify patients with inappropriate aged vaccinations.	REC	2		***************************************		***************************************	0	0					
D. IIS has tools and processes to minimize duplicate patient and vaccination records.	<b>****</b>			******									
<ul> <li>i. The IIS can regularly evaluate incoming and existing immunization information to identify, prevent, and resolve duplicate patient records.</li> </ul>	REC	2					0	0					
ii. The IIS can regularly evaluate incoming and existing immunization information to identify, prevent, and resolve duplicate vaccination events.	REC	2					0	0					
2 Ensure and monitor completeness of data in the IIS.	\$8888	588888	88888888888	288888888	8888888888888	XXXXXXXXXXXXXXXX	88888	8888888					
A. IIS includes specific data elements for editing/creating patient and vaccination records in accordance with the NVAC core data elements.									NVAC: http://www.cdc.gov/vaccines/programs/iis/coredata-elements.html; Use active patient records and their associated vaccination records only.				
i. IIS requires patient name for patient demographics to be created.	REQ	3				# names/ # records	0	0					
ii. IIS requires patient DOB for patient demographics to be created.	REQ	3				# DOB/# records	0	0					
iii. IIS requires patient sex/gender for patient demographics to be created.	REQ	3				# sex/# records	0	0					
iv. IIS requires race for patient demographics to be created/edited.	REQ	3				# race/# records	0	0					
v. IIS requires ethnicity for patient demographics to be created/edited.	REQ	3				# ethnicity/# records	0	0					
vi. IIS requires patient birth order for patient demographics to be created/edited.	REQ	3				#birth order/# records	0	0					

STANDARD 2												
DATA QUALITY & PROVIDER PARTICIPATION IN IIS, DATA TIMELINESS, DATA ACCURACY, DATA COMPLETENESS												
vii. IIS requires birth state/country for patient demographics to be created/edited.	REQ	3		·		# birth state/# records	0	0				
viii. IIS requires entry of parent/guardian name for patient demographics to be created/edited.	REQ	3				# guardian/# records	0	0				
ix. IIS requires vaccine type for both historical and administered vaccination events.	REQ	3				#vaccine type/# doses admin	0	0				
x. IIS requires date of administration for both historical and administered vaccination events.	REQ	3				#vaccination date/# doses admin	0	0				
xi. IIS requires vaccine manufacturer for administered vaccination events.	REQ	3				#manufacturer/# doses admin	0	0				
xii. IIS requires vaccine lot number for administered vaccination events.	REQ	3				#lot number/#doses admin	0	0				
xiii. IIS recommends entry of address for patient demographics to be created.	REC	2				# address/# records	0	0				
xiv. IIS recommends entry of phone for patient demographics to be created.	REC	2				# phone/# records	0	0				
xv. IIS recommends entry or calculation of vaccine dose number	REC	2					0	0				
xvi. IIS recommends entry of vaccine expiration date for administered vaccination events.	REC	2				# exp date/# doses admin	0	0				
xvii. IIS recommends entry of injection site and route of administration for administered vaccination events.	REC	2				# site-route/# doses admin	0	0				
xviii. IIS recommends entry of vaccine provider for administered vaccination events.	REC	2				#vax provider/# doses admin	0	0				
xix. IIS supports differentiation of administered and historical vaccinations through use of a historical vaccination flag indicator.	REC	2					0	0				
xx. IIS recommends entry of VFC eligibility for patient demographics to be created.	REC	2				# patient VFC/# records	0	0				
xxi. IIS recommends entry of VFC eligibility for recording administered vaccination events.	REC	2				# vax VFC/# doses admin	0	0				
xxii. IIS offers a "history of varicella" disease indicator.	REC	2		>>>>>>>	\$\$\$\$\$\$\$\$\$\$\$\$\$	<b>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</b>	0	0				
xxiii. IIS includes patient status indicators that include active, inactive, MOGE and other classifications.	REC	2		<b>*******</b>			0	0				
xxiv. IIS includes option to document patient alias when recording patient demographics.	ОРТ	1					0	0				

STANDARD 2											
DATA QUALITY & PROVI	DER P	ARTI	CIPATION IN IIS, DATA TIMELINE	SS, DATA A	CCUF	RACY, DATA COMPLETENESS					
xxv. IIS includes option to document patient birthing facility when recording patient demographics.	ОРТ	1			0	0					
xxvi. IIS includes option to document patient SSN when recording patient demographics.	OPT	1		# patient SSN/# records	0	0					
xxvii. IIS includes option to document patient primary language preference.	OPT	1		# language/# records	0	0					
xxviii. IIS includes option to document patient birth registration number when recording patient demographics	ОРТ	1			0	0					
xxix. IIS includes option to document patient Medicaid number.	OPT	1			0	0					
xxx. IIS includes option to record alternate parent/guardian name and contact information.	OPT	1			0	0					
xxxi. IIS includes option to document parent/guardian SSN.	OPT	1		# guard SSN/# records	0	0					
B. IIS generates reports to identify records with missing or inadequate data (based on data elements).	REQ	3			0	0					
C. IIS can generate reports to identify patients records with incomplete vaccine series.	REQ	3			0	0					
i. IIS can identify lists of patients incomplete for immunizations by provider or geographical area.	REC	2			0	0					
Element E: Provider Level Functionality of IIS -	refers t	o user	interface functionality and availability to b	e run by provid	ers.						
1 IIS can generate reports by provider site	88888	888888	<b>}</b>	283838383888	88888	\$555555					
A. IIS can generate immunization coverage rates by provider site	REQ	3			0	0					
B. IIS can generate doses administered reports by provider site	REQ	3			0	0					
C. IIS can determine routine immunizations needed based on a forecasting algorithm	REQ	3			0	0					
D. IIS can generate reminder/recall notifications for individuals that are due/late for immunizations	REQ	3			0	0					

	CTANDADD 2													
	STANDARD 3													
	POPULATION ASSESSMENT													
	Definition: The IIS systematically collects immunization histories and calculates vaccine coverage rates across age groups from birth through adulthood.													
	Objective: The Program uses information in the IIS to identify and monitor groups of under-immunized children, adolescents, and adults at higher risk for VPDs.													
		Required/ Recommended/ Optional	Weight (based on importance: 3=REQ, 2=REC, 1=OPT)	IIS Functionality - Yes =1; No = 0	Required by IIS - Yes = 1; No =0	Extent of Completeness - % of fields populated	Suggested Numerator/ Denominator	Score	Weighted Score	Comments / support documentation				
Α	В	C	D	E	F	G	H	I	J	K				
wł	LEMENT A: Immunization Forecasting REQUIRED (Standard 8, Automatically determine the routine childhood immunizations needed, in compliance with current ACIP recommendations, then an individual presents for a scheduled immunization.)  The IIS uses an ACIP compliant algorithm to calculate vaccine recommendations by age.  The IIS conforms to the current ACIP													
1	recommendations and forecasts accurately for the following age groups and situations:													
	A. Children 0-18 years of age	REQ	3		\$888888888	8888888888888	888888888888	0	0					
	B. All age groups birth to death	REC	2		8888888888	888888888888888888888888888888888888888	******	0	0					
	C. Special patient conditions - can account for immune-compromised status and recorded contraindications	REC	2					0	0					
	D. Special vaccine situations - can modify forecast to allow for vaccine shortage (deferral), outbreak recommendations, compromised vaccine doses, etc.	REC	2					0	0					
	E. Defaults to catch up schedules when indicated	REQ	3		XXXXXXXXXXXX	5050505050505	******	0	0					
2	The IIS routinely maintains the algorithm in conformity to new ACIP recommendations - can adjust forecast in timely manner after ACIP and CDC official approval	REQ	3					0	0	Timely manner is defined as a period of less than 90 days from the date of MMWR publication.				
3	Produces person-specific evaluation and forecast of vaccines needed per ACIP schedule at the provider level in real-time.	REQ	3					0	0					
4	The algorithm assesses each immunization record and provides an appropriate forecast.	\$\$\$\$\$												
	A. based on immunizations given	REQ	3		288888888	\$333333333333	\$88888888888	0	0					
	B. based upon contraindications	REC	2			XXXXXXXXXXXX		0	0					
	C. based upon high risk status	REC	2		5888888888	58888888888	58888888888	0	0					

	STANDARD 3													
	POPULATION ASSESSMENT													
The IIS has a process for reforecasting the entire database if and when needed.	REQ	3					0	0						
6 State specific requirements (school, child care)	REC	2		38888888	388888888888888888888888888888888888888	888888888888888888888888888888888888888	0	0						
	EMENT B: Basic Data for Population Assessment REQUIRED (based on Core Data Items, 2009)  Ell's includes the following demographic and geographic information in searchable data fields which can be used for population assessment purposes:    Count of patient records in all of Element B should include the count of patie													
1 Date of birth	REQ	3				# DOB/ # active records	0	0	Count of patient records in all of Element B should include "active" records only. Records inactivated at jurisdictional level should be excluded from both numerator and denominator.					
2 Sex	REQ	3				# sex / # active records	0	0						
3 Race	REQ	3				# race/ # active records	0	0						
4 Ethnicity	REQ	3				# ethnicity/# active records	0	0						
5 Insurance status	REC	2				# status/ # active records	0	0						
6 Patients are tied to a specific site/facility	REQ	3				# records with site- facility/ # of active records	0	0	Ability to link the patient to the facility/site.					
7 Patients are tied to a specific physician or vaccinator	REQ	3				# records with physician- vaccinator/ # of active records	0	0	Ability to link the patient to individual provider.					
8 WIC	REC	2				\$	0	0						
9 Healthcare worker	REC	2					0	0	IIS offers a healthcare worker indicator. For example, does IIS have an indicator of priority group for pandemics such as the H1N1?					
10 Patient street address	REQ	3				#street/# active records	0	0	Use patient's primary address when responding and performing the calculations.					
11 Patient city address	REQ	3				#city/# active records	0	0	Use patient's primary address when responding and performing the calculations.					
Patient state address	REQ	3				#state/# active records	0	0	Use patient's primary address when responding and performing the calculations.					
13 Patient Zip code	REQ	3				# zips/# active records	0	0	Use patient's primary address when responding and performing the calculations.					
14 Patient county	REQ	3				#county/# active records	0	0	Use patient's primary address when responding and performing the calculations.					

	STANDARD 3												
					POPULA	TION ASSES	SMENT						
15	Patient phone number	REC	2				# phone numbers/ # active records	0	0				
	Educational Level e.g. grade school, college	REC	2				# ed fields/# active records	0	0				
	Contraindications	REQ	3			>>>>>>>>>>>>	XXXXXXXXXXXXXXX	0	0				
	Exemption status & type of exemption (religious, philos)	REC	2					0	0				
19	Disease Hx (e.g. Chicken Pox, Measles)	REQ	3					0	0	A patient may have more than one history of disease recorded (though varicella is the primary one). Only count each patient once even if they multiple History of Disease.			
20	Confirmed Immunity (e.g. serologic confirmation-titer)	REQ	3					0	0	A patient may have more than one type of immunity recorded. Only count each patient once even if they multiple Confirmed Immunities.			
The	program uses the IIS to calculate immunization coverage Validates school and childcare reports in accordance with school and childcare immunization laws.				o, Automatica	ally produce imm	nunization covera	ge rep	orts by pro	vider, age groups, and geographic areas)			
2	Assesses immunization coverage in geographic areas.	REQ	3					0	0	Require minimum granularity at county level. Recommend granularity at zip code and census tract area.			
	Assesses immunization coverage in specific populations												
	A. STD clinic clients	REC	2		XXXXXXXXX	XXXXXXXXXXXXX	******	0	0				
	B. HIV infected population	REC	2		888888888	88888888888	\$8888888888	0	0				
	C. Correctional residents	REC	2		88888888	8888888888	***********	0	0				
	D. Nursing homes residents	REC	2		22222222	XXXXXXXXXX	\$55555555555555555555555555555555555555	0	0				
	E. Health care workers	REC	2			***********	ΦΟΧΧΧΧΧΧΧΧΧΧΧΧΧΧ	0	0				
	F. Other high risk populations (e.g. pregnant women, specific age groups)	REC	2				B	0	0				
	G. Site-Facility specific coverage rate	REQ	3		888888888	88888888888	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	0	0	site specific			
	H. Clinic system coverage report	REQ	3		XXXXXXXXXX	*****	<b>&amp;XXXXXXXXXXXX</b>	0	0	medical organization specific			
	Health Care Provider specific coverage rate	REC	2		XXXXXXXXXXX	<b>\$</b> \$	**********	0	0	practitioner specific level			
	J. Generates coverage rates for schools, childcare facilities and colleges.	REC	2					0	0				
	K. Ability to run custom coverage reports	REQ	3		XXXXXXXXXX	*********	<b>4</b> 000000000000000000000000000000000000	0	0				

			STANDARD 3											
POPULATION ASSESSMENT														
ELEMENT D: Annual CDC Reporting The Program systematically uses the IIS to produce the and	LEMENT D: Annual CDC Reporting ne Program systematically uses the IIS to produce the annual CDC report estimating immunization coverage and exemption rates of children entering kindergarten and in childcare facilities.													
The IIS maintains information on children exempted from immunizations based on applicable State Law	REC	2	0	0										
2 The IIS can produce reports based on age	REC	2	0	0										
A. The IIS can produce reports for kindergarten	REC	2		0										
B. The IIS can produce reports for childcare	REC	2	0	0										
The IIS can produce reports based on type of facility (e.g. hospitals, FQHC, private provider practice)	REC	2	0	0										
ELEMENT E: Program Support														
The IIS provides reports to the program for monitoring and	assessme	nt.												
1 Estimating vaccine coverage among infants, children, adolescents and adults.														
A. By individual vaccine type	REQ	3	\$2\$\$2\$\$2\$	0										
B. By vaccine series	REQ	3		0										
2 Trends in coverage rates for geographical areas.	REC	2		0										
3 Trends in coverage rates for childcare facilities	REC	2	0	0										
4 Trends in coverage rates for schools	REC	2		0										
5 Trends in coverage rates for WIC participants	OPT	1		0										

TOTAL SCORE 0

0