

Section IX. 2023 Immunization Information Systems Annual Report (IISAR)

What is the Immunization Information Systems Annual Report (IISAR)?

The IISAR is an annual survey that assesses immunization program performance in developing, maintaining, and enhancing Immunization Information Systems for a given calendar year. It is a reporting requirement for the 64 immunization programs that receive funding under section 317b of the Public Health Service Act.

A brief note on methods

- The IISAR is a self-reported, self-validated survey administered by the Centers for Disease Control and Prevention (CDC) and answered by immunization program awardees. CDC may contact you with questions after submission in order to continue data validation.
- Data are collected prior to the release of Census estimates for the year of the survey. For this reason, we include Census estimates in the survey for the year prior to provide preliminary estimates for some measures. These preliminary estimates are revised when the final Census data are released—approximately in September each year—for the prior years' data. CDC provides preliminary estimates on the IISAR to ensure the estimates are concordant with the program and past years' data.

Changes/Items of interest in 2023

The IISAR underwent revisions in 2020 to align with the Data Quality Blueprint. The survey was reorganized to align with the blueprint milestones. Please be sure to carefully review the logic guidance in all sections in order to respond to their new specifications as accurately as possible.

- **Respiratory Syncytial Virus (RSV)-Related Treatment Inclusion Guidance:** Awardees are instructed to **include certain** RSV-related treatments in the 2023 IISAR. Awardees should:
 - **Include** nirsevimab (Beyfortus) monoclonal antibody products administered to individuals ages 8 months or younger.
 - Include provider sites who have currently only submitted nirsevimab dose data
 - Count any nirsevimab doses toward patient participation counts
 - Factor nirsevimab doses into vaccine record timeliness calculations
 - Respond “Yes” to questions about system functionality and activity, even if they were only deployed in the context of nirsevimab doses.
 - **Include** RSV vaccine administered to adults ages 60 years or older.
 - Include provider sites who have currently only submitted RSV vaccination data
 - Count any RSV vaccinations toward patient participation counts
 - Factor RSV vaccinations into vaccine record timeliness calculations
 - Respond “Yes” to questions about system functionality and activity, even if they were only deployed in the context of RSV vaccines.
 - **Exclude** palivizumab (Synagis) monoclonal antibody products administered to individuals ages 24 months or younger. ACIP does not manage recommendations for the use of palivizumab.

- **COVID-19 Inclusion Guidance:** Awardees are instructed to **include** COVID-19 data in the 2023 IISAR. Awardees should:
 - Include provider sites who have currently only submitted COVID-19 vaccination data
 - Count any COVID-19 vaccinations toward patient participation counts
 - Factor COVID-19 vaccinations into vaccine record timeliness calculations
 - Respond “Yes” to questions about system functionality and activity, even if they were only deployed in the context of COVID-19 vaccines

- **Mpox (formerly known as monkeypox)/Smallpox Vaccine Inclusion Guidance:** With the outbreak of mpox and uptake of the JYNNEOS smallpox vaccine used to prevent and treat mpox, awardees are instructed to **include** mpox/smallpox vaccine data in the 2023 IISAR. Awardees should:
 - Include provider sites who have currently only submitted mpox/smallpox vaccination data
 - Count any mpox/smallpox vaccinations toward patient participation counts
 - Factor mpox/smallpox vaccinations into vaccine record timeliness calculations
 - Respond “Yes” to questions about system functionality and activity, even if they were only deployed in the context of mpox/smallpox vaccines

- **H1N1 Guidance Removed:** To better streamline logic guidance in the IISAR, guidance pertaining to the exclusion criteria for the 2009 H1N1 pandemic have been removed. Though this guidance has been removed, awardees should:
 - Continue to exclude provider sites, if any, that only ever provided H1N1 vaccination data during the 2009 pandemic
 - Continue to exclude H1N1 vaccinations from patient participation calculations

Instructions

- All awardees that conduct IIS activities in their state/city/territory are required to complete this report.
- All awardees with IIS in transition are required to complete questions 1 through 5 and should consult with their IISB Project Officer to discuss completing other data elements on the questionnaire.
- Items in italics are completed by CDC; awardees only need to respond to questions that are NOT italicized.
- Items reflect a range of topics involving the IIS’s live production environment. The production environment refers to your IIS being in operation and available for its intended use by its users.
- Throughout the IISAR questionnaire, age ranges are described as from age *X through Y* months/years. This terminology is consistent with language used by the Advisory Committee on Immunization Practices (ACIP) and indicates the lower and upper age limits for who should be included in data reporting. In all cases, age X is the lower bound and age Y is the upper bound. For example, adolescents aged 11 through 17 years should include adolescents at least 11 years old and less than 18 years of age. Those younger than 11 years, or 18 years or older, would not be included in this group.
- The IISAR questionnaire assesses several functionalities and activities of your IIS. Please note that questions utilizing the term “could” refer to capabilities of your system regardless of whether they were performed during the calendar year, while questions utilizing the term “did” refer to activities that your IIS actively performed during the calendar year.
- Submission of the final IISAR must be done by the Immunization Program Manager or their designee.
- Only one Annual Report will be accepted per awardee. If awardees receive information from other regions or counties in their jurisdiction, the awardee must compile the information into one Annual Report.

- The Annual Report is **due on March 29, 2024**; the year of performance is calendar year 2023. CDC IISSB staff will contact each IIS after March 29 with questions and/or comments about the report and data submitted for calendar year 2023. After March 29, 2024, the submission data will be corrected and revised. Any revised submissions from awardees should correct issues with the submitted data as of March 29 ONLY. When submitting revisions, do NOT submit additional 2023 data that were uploaded AFTER the March 29 cutoff date.
- Please contact Terence Ng, CDC/NCIRD/IISSB (contractor) at VFK5@cdc.gov or Lauren Shaw, CDC/NCIRD/IISSB at ILV6@cdc.gov if you need clarification on a question or answer choice.

Resources

- For additional guidance on Patient Active/Inactive Status in Immunization Information Systems, see the AIRA guide here: http://repository.immregistries.org/files/resources/5835adc2dad8d/mirow_pais_full_guide.pdf
- For additional guidance on using dates to calculate a period of time, the Clinical Decision Support for Immunization (CDSi): Logic Specification for ACIP Recommendations can be referenced here: <https://www.cdc.gov/vaccines/programs/iis/cdsi.html>
- For additional guidance on IIS security, see the AIRA guide here: https://repository.immregistries.org/files/resources/595e4e25ab1b1/aira_security_guidance_-_final_new_logo.pdf
- The Immunization Information Systems (IIS) Data Quality Blueprint is located here: <https://www.cdc.gov/vaccines/programs/iis/downloads/Data-Quality-Blueprint-508.pdf>.

CONTACT INFORMATION AND SCOPE OF IIS

Logic Guidance:

Q.1 – Q.5 are required to be completed by all awardees, including those with IIS in transition or temporarily inactive. List ONLY government employee contacts in Q.3 and Q.4.

1. Awardee _____

2. Name of person(s) submitting this report _____

3. Programmatic IIS contact person (a manager or administrator who coordinates IIS activities):

a. First Name: _____

e. Phone: _____ f. Ext: _____

b. Last Name: _____

g. Email: _____

c. Title: _____

d. Affiliation: _____

h. Check if contact person for questions about this report

4. Technical IIS contact person (coordinator of IIS software and/or hardware) :

Check if same as programmatic contact (if yes, autopopulate a-g)

a. First Name: _____

e. Phone: _____ f. Ext: _____

b. Last Name: _____

g. Email: _____

c. Title: _____

d. Affiliation: _____

h. Check if contact person for questions about this report

5. There is no IIS in production in this state/city/territory. (If yes, block out all subsequent sections of report)

Age Groups

Logic Guidance:

The IISAR has been programmed to match the age groups below. Some questions are only relevant for defined age groups. Therefore, the number of required questions may be reduced depending on which age groups are included in your IIS.

When determining if an age group is included in your IIS, consider the age range that your IIS is authorized to collect regardless of a reporting mandate or the completeness of data captured for that age group.

6. Which age groups are included in your IIS? Select one:

- a.* Birth through 18 years of age
- b.* All ages, including adults
- c.* Other (specify) _____

DATA QUALITY CHARACTERISTIC: COMPLETE

- 90% of all provider sites in the jurisdiction are reporting to the IIS
- 90% of demographic records for the jurisdiction are included in the IIS
- 90% of vaccination records for persons in the jurisdiction are included in the IIS

Provider Site Participation

Logic Guidance— Provider Site Participation:

- **Notes on Provider Site Classifications:**
 - **Provider Site:** A provider organization that provides vaccination services and that maintains permanent records (excluding temporary or mobile immunization clinics, health fairs, etc.).
 - **Enrolled:** A provider site is considered enrolled if it is in your IIS and has achieved a live interface or is manually entering data to the IIS.
 - All provider sites enrolled in VFC as of December 31, 2023 should be counted as a VFC site.
- **Use the table below to identify provider sites to include in the assessment for Q.7 – 9.**

General provider site inclusions/exclusions	Include?
All provider sites enrolled in your IIS, regardless of age group served by those sites or your IIS	YES
All provider sites enrolled in your IIS as of December 31, 2023	YES
Provider sites that are physically located outside your jurisdiction	NO

Provider Sites		
	VFC Sites	Non-VFC Sites
7. Number of provider sites in your jurisdiction as of December 31, 2023.	a.	--
8. Number of provider sites in your jurisdiction enrolled in your IIS as of December 31, 2023.	a.	b.
9. Number of enrolled provider sites reporting data to your IIS at least once from July 1, 2023 – December 31, 2023.	a.	b.
c. <i>Percentage of VFC provider sites that reported data to your IIS at least once from July 1, 2023 – December 31, 2023. (auto-calculated)</i>	Q.9a/Q.7a	
d. <i>Percentage of all VFC provider sites and enrolled non-VFC provider sites that reported data to your IIS at least once from July 1, 2023 – December 31, 2023. (auto-calculated)</i>	$(Q.9a + Q.9b)/(Q.7a + Q.8b)$	

Newborn Population Capture

Logic Guidance—Newborn Population Capture:

- **Notes on Vital Records vs Other Records**

- Vital Records: Vital Records are records of life events kept under governmental authority and include birth certificates.
- Other record: Other birth records are all other records of birth that are not Vital Records and may come from birthing hospitals, perinatal or newborn screening programs.
- Reported numbers of newborn records established from Vital Records and other record sources should be mutually exclusive.
- For Q.11 – Q.12 below, if a patient record comes to your IIS through other birth record sources, but is later verified by Vital Records, consider the patient record to have come from Vital Records.
- For Q.11 – Q.12 below, if a patient record comes to your IIS through other birth record sources ONLY, consider the patient record to have come from other record sources.

- **Use the table below to identify newborns to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
<any>	Born 1/1/2023 through 12/31/2023	Known to reside in jurisdiction at time of query, regardless of residence at time of birth	<any>	Yes
Active	Born 1/1/2023 through 12/31/2023	Address in jurisdiction	<any>	YES
Active	Born 1/1/2023 through 12/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2023 through 12/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2023 through 12/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES

Inactive	Born 1/1/2023 through 12/31/2023	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2023 through 12/31/2023	<any>	<any>	NO
<any>	Born before 1/1/2023 or after 12/31/2023	<any>	<any>	NO

10. Number of children in the jurisdiction born from January 1 through December 31, 2023. (2022 Census data)

11. Number of patient records created in your IIS from Vital Records for children born from January 1 through December 31, 2023 who resided in your jurisdiction at the time of query. _____

12. Number of patient records created in your IIS from sources other than Vital Records for children born from January 1 through December 31, 2023 who resided in your jurisdiction at the time of query. _____

a. Percentage of children in your IIS born from January 1 through December 31, 2023 with records created in your IIS from all sources. (Q.11+Q.12/Q.10)

Enrollment in IIS (0–18 years, lifespan)

Logic Guidance—Enrollment among individuals aged 0 through 18 years:

- **Q.14: For individuals 0 – 18 year of age**

- **Use the table below to identify individuals to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2005 through 12/31/2023	Address in jurisdiction	<any>	YES
Active	Born 1/1/2005 through 12/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2005 through 12/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2005 through 12/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2005 through 12/31/2023	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2005 through 12/31/2023	<any>	<any>	NO
<any>	Born before 1/1/2005 or after 12/31/2023	<any>	<any>	NO

- **After identifying individuals in the table above, use this table to further identify individuals to include in the assessment for Q.14:**

General demographic inclusions/exclusions	Include?
Individuals enrolled in your IIS, even if they only have travel vaccines, non-vaccine products, or no vaccines in the vaccine record	YES

13. Number of individuals aged 0 years through 18 years in the jurisdiction at the time of query. (2022 Census data)

14. Number of individuals aged 0 years through 18 years (born from January 1, 2005 through December 31, 2023) in both your jurisdiction AND your IIS. _____

- a. 0–18 years enrollment: Percentage of individuals aged 0 years through 18 years in both your jurisdiction AND your IIS. (Q.14/Q.13)

Logic Guidance—Enrollment among individuals of all ages:

- Q.16: For individuals of all ages
- Use the table below to identify individuals to include in the assessment:

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born on or before 12/31/2023	Address in jurisdiction	<any>	YES
Active	Born on or before 12/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born on or before 12/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born on or before 12/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born on or before 12/31/2023	Address not in jurisdiction	<any>	NO
Deceased	Born on or before 12/31/2023	<any>	<any>	NO
<any>	Born after 12/31/2023	<any>	<any>	NO

- After identifying individuals in the table above, use this table to further identify individuals to include in the assessment for Q.16:

General demographic inclusions/exclusions	Include?
Individuals enrolled in your IIS, even if they only have travel vaccines, non-vaccine products, or no vaccines in the vaccine record	YES

15. *Number of individuals of all ages in the jurisdiction at the time of query. (2022 Census data)*

16. Number of individuals of all ages (born on or before December 31, 2023) in both your jurisdiction AND your IIS.

a. *Lifespan enrollment: Percentage of individuals of all ages in both your jurisdiction AND your IIS. (Q.16/Q.15)*

Child Participation in IIS (aged 4 months through 5 years)

Logic Guidance—Enrollment among children aged 4 months through 5 years:

- For Q.18:
- Use the table below to identify children to include in the enrollment assessment:

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2018 through 8/31/2023	Address in jurisdiction	<any>	YES
Active	Born 1/1/2018 through 8/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2018 through 8/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2018 through 8/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2018 through 8/31/2023	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2018 through 8/31/2023	<any>	<any>	NO
<any>	Born before 1/1/2018 or after 8/31/2023	<any>	<any>	NO

- After identifying children in the table above, use this table to further identify children to include in the assessment for Q.18:

General demographic inclusions/exclusions	Include?
Children enrolled in your IIS, even if they only have travel vaccines, non-vaccine products, or no vaccines in the vaccine record	YES

17. Number of children aged 4 months through 5 years in the jurisdiction at the time of query. (2022 Census data)

18. Number of children aged 4 months through 5 years (born from January 1, 2018 through Aug 31, 2023) in both your jurisdiction AND IIS at the time of query. _____

a. *Child enrollment: Percentage of children aged 4 months through 5 years in both your jurisdiction AND IIS at the time of query. (Q.18/Q.17)*

Logic Guidance—Participation among enrolled children aged 4 months through 5 years:

- For Q.19:

- After identifying children for enrollment in Q.18, use this table to further identify children with the following vaccinations for Q.19:

General vaccination inclusions/exclusions	Include?
All doses (valid and invalid) administered before January 1, 2024, including those recorded in your IIS after December 31, 2023	YES
Travel vaccines (yellow fever, typhoid, etc.) See: http://wwwnc.cdc.gov/travel/page/yellowbook-home	NO
COVID-19 vaccines administered	YES
Mpox/smallpox vaccines administered	YES
Nirsevimab (Beyfortus) monoclonal antibody products administered at age 8 months or younger to prevent respiratory syncytial virus (RSV)	YES
Palivizumab (Synagis) monoclonal antibody products administered to prevent respiratory syncytial virus (RSV)	NO
Other non-vaccine products (e.g. immune globulins, PPD)	NO

19. Number of children in Q.18 (children born from January 1, 2018 through Aug 31, 2023 in both your jurisdiction AND IIS at the time of query) who have 2 or more vaccine doses recorded in your IIS. _____

a. *Child participation: Percentage of children aged 4 months through 5 years in both your jurisdiction AND IIS at the time of query who have 2 or more vaccine doses recorded in your IIS. (Q.19/Q.17)*

Adolescent Participation in IIS (aged 11 through 17 years)

Logic Guidance—Enrollment among adolescents aged 11 through 17 years:

- For Q.21:
- Use the table below to identify adolescents to include in the enrollment assessment:

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2006 through 12/31/2012	Address in jurisdiction	<any>	YES
Active	Born 1/1/2006 through 12/31/2012	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2006 through 12/31/2012	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2006 through 12/31/2012	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2006 through 12/31/2012	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2006 through 12/31/2012	<any>	<any>	NO
<any>	Born before 1/1/2006 or after 12/31/2012	<any>	<any>	NO

- After identifying adolescents in the table above, use this table to further identify adolescents to include in the assessment for Q.21:

General demographic inclusions/exclusions	Include?
Adolescents enrolled in your IIS, even if they only have travel vaccines, non-vaccine products, or no vaccines in the vaccine record	YES

20. Number of adolescents aged 11 through 17 years in your jurisdiction at the time of query. (2022 Census data)

21. Number of adolescents aged 11 through 17 years (born from January 1, 2006 through December 31, 2012) in both your jurisdiction AND IIS at the time of query. _____

a. Adolescent enrollment: Percentage of adolescents aged 11 through 17 years in both your jurisdiction AND IIS at the time of query. (Q.21/Q.20)

Logic Guidance—Participation among enrolled adolescents aged 11 through 17 years:

- For Q.22:
- After identifying adolescents for enrollment in Q.21, use this table to further identify adolescents with the following vaccinations for Q.22:

General vaccination inclusions/exclusions	Include?
All doses (valid and invalid) administered before January 1, 2024, including those recorded in your IIS after December 31, 2023	YES
Adolescent doses ONLY if they were <u>administered</u> from age 9 through 17 years. Only include: Tdap/Td, HPV, MenACWY, MenB, seasonal influenza, pneumococcal, HepA, HepB, polio, MMR, varicella, COVID-19, and mpox/smallpox (https://www.cdc.gov/vaccines/schedules/downloads/child/0-18yrs-child-combined-schedule.pdf)	YES
Doses administered to adolescents before the adolescent’s 9th birthday	NO
Travel vaccines (yellow fever, typhoid, etc.) See: http://wwwnc.cdc.gov/travel/page/yellowbook-home	NO
Non-vaccine products (e.g. immune globulins, PPD)	NO

22. Number of adolescents in Q.21 (adolescents born from January 1, 2006 through December 31, 2012 in both your jurisdiction AND IIS at the time of query) who have 2 or more adolescent vaccine doses administered from age 9 through 17 years recorded in your IIS? _____

a. Adolescent participation: Percentage of adolescents aged 11 through 17 years in both your jurisdiction AND IIS at the time of query who have 2 or more adolescent vaccine doses recorded in your IIS. (Q.22/Q.20)

Adult Participation in IIS (aged 19 years and older)

Logic Guidance—Enrollment among adults aged 19 years and older:

- For Q.24:
- Use the table below to identify adults to include in the enrollment assessment:

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born on or before 12/31/2004	Address in jurisdiction	<any>	YES
Active	Born on or before 12/31/2004	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born on or before 12/31/2004	Address unknown	IIS has never received vaccination information	YES
Unknown	Born on or before 12/31/2004	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born on or before 12/31/2004	Address not in jurisdiction	<any>	NO
Deceased	Born on or before 12/31/2004	<any>	<any>	NO
<any>	Born after 12/31/2004	<any>	<any>	NO

- After identifying adults in the table above, use this table to further identify adults to include in the assessment for Q.24:

General demographic inclusions/exclusions	Include?
Adults enrolled in your IIS, even if they only have travel vaccines, non-vaccine products, or no vaccines in the vaccine record	YES

23. Number of adults aged 19 years and older in your jurisdiction at the time of query. (2022 Census data)

24. Number of adults aged 19 years and older (born on or before December 31, 2004) in both your jurisdiction AND IIS at the time of query. _____

a. Adult enrollment: Percentage of adults aged 19 years and older in both your jurisdiction AND IIS at the time of query. (Q.24/Q.23)

Logic Guidance—Participation among enrolled adults aged 19 years and older:

- For Q.25:
- After identifying adults for enrollment in Q.24, use this table to further identify adults with the following vaccinations for Q.25:

General vaccination inclusions/exclusions	Include?
All doses (valid and invalid) administered before January 1, 2024, including those recorded in your IIS after December 31, 2023	YES
Adult doses ONLY if they were <u>administered</u> from age 19 years and older. Only include: seasonal influenza, Tdap/Td, varicella, HPV, zoster, MMR, pneumococcal, MenACWY, MenB, HepA, and HepB, COVID-19, and mpox/smallpox https://www.cdc.gov/vaccines/schedules/downloads/adult/adult-combined-schedule.pdf	YES
Respiratory syncytial virus (RSV) administered to adults age 60 or older	YES
Doses administered to adults before 19 years of age	NO
Travel vaccines (yellow fever, typhoid, etc.) See: http://wwwnc.cdc.gov/travel/page/yellowbook-home	NO
Non-vaccine products (e.g. immune globulins, PPD)	NO

25. Number of adults in Q.24 (born on or before December 31, 2004 in both your jurisdiction AND IIS at the time of query) who have 1 or more adult vaccine dose(s) administered at 19 years and older recorded in your IIS.

a. Adult participation: Percentage of adults aged 19 years and older in both your jurisdiction AND IIS at the time of query who have 1 or more adult vaccine dose(s) recorded in your IIS. (Q.25/Q.23)

26. Within the last six months of 2023, did your IIS assess the number of publicly-funded vaccines delivered AND the number of publicly-funded vaccines administered in your IIS using IIS vaccine inventory functionality? Yes/No

Notes for BLUEPRINT: COMPLETE	Please provide any relevant notes or comments for data provided in for this section
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DATA QUALITY CHARACTERISTIC: VALID

- 100% of routine age-based vaccines in the IIS are evaluated and forecasted in alignment with ACIP recommendations
- 100% of patient addresses are validated using external sources

Address Validation

27. In 2023, were residential addresses verified to ensure a patient currently resided at the address listed in the patient record? Yes/No

28. In 2023, were residential addresses standardized and validated as USPS addresses? Yes/No

Notes for BLUEPRINT: VALID

Please provide any relevant notes or comments for data provided in for this section

DATA QUALITY CHARACTERISTIC: TIMELY

- 95% of birth records are created in the IIS within 30 days of the patient’s birth
- 95% of vaccination events are recorded in the IIS within 1 day

Timeliness of Birth Records in IIS

Logic Guidance—Birth Record Timeliness:

- **Notes on Days:**
 - Day 0 refers to the date of birth.
 - Days listed refer to calendar days.
- **Notes on Vital Records versus Other Records**
 - Vital Records: Vital Records are records of life events kept under governmental authority and include birth certificates.
 - Other record: Other birth records are all other records of birth that are not Vital Records and may come from birthing hospitals, perinatal or newborn screening programs.
 - Reported numbers of newborn records established from Vital Records and other record sources should be mutually exclusive.
 - When determining whether a record was established by Vital Records or other birth record sources, consider which source the birth record was established by **first**. Therefore, regardless of whether a birth record is later established by Vital Records, if it was first established by Other Record sources, consider it established by Other Record Sources. Only consider a record established by Vital Records if it was established in your IIS by Vital Records FIRST.
- **Use the table below to identify newborns to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2023 through 12/31/2023	Address in jurisdiction	<any>	YES
Active	Born 1/1/2023 through 12/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2023 through 12/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2023 through 12/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2023 through 12/31/2023	Address not in jurisdiction	<any>	NO

Deceased	Born 1/1/2023 through 12/31/2023	<any>	<any>	NO
<any>	Born before 1/1/2023 or after 12/31/2023	<any>	<any>	NO

29. For children born January 1 through December 31, 2023 in your IIS’s jurisdiction, what number had a demographic record established in your IIS within the following days after birth:

	a. Number of children with record established from Vital Records	b. Number of children with record established from sources other than Vital Records	<i>Percentage of children with records established in the specified timeframe (auto-calculated)</i>
≤30 days	a.	b.	<i>c. (a+b)/(j+k)</i>
>30 days - ≤60 days	d.	e.	<i>f. (d+e)/(j+k)</i>
>60 days	g.	h.	<i>i. (g+h)/(j+k)</i>
<i>Total (auto-calculated)</i>	j.--	k.--	

Timeliness of Vaccination Records in IIS

Logic Guidance—Vaccine Record Timeliness:

- **Notes on timeliness:**
 - The period of timeliness corresponds to the time between the date of administration of the vaccine dose indicated on the vaccination record and the date the vaccination record was posted to production in your IIS.
 - Timeframes listed refer to calendar days.
- **Use the table below to identify individuals to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	Address in jurisdiction	<any>	YES
Active	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	Address unknown	IIS has never received vaccination information	NO
Unknown	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time*	YES

			* Note that the “extended period of time” could be defined differently by each IIS	
Inactive	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	Address not in jurisdiction	<any>	NO
Deceased	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	<any>	<any>	NO
<any>	<i>For 0 – 18 year olds:</i> Born 1/1/2005 through 12/31/2023 <i>For All Ages:</i> Born 12/31/2023 or earlier	<any>	<any>	NO

- **After identifying individuals in the table above, use this table to determine the appropriate vaccination records to include in the assessment:**

General vaccination inclusions/exclusions	Include?
<i>For 0 – 18 year olds:</i> Vaccinations administered in CY2023 for all persons 0 – 18 years in your IIS <i>For All Ages:</i> Vaccinations administered in CY2023 for persons of all ages in your IIS	YES
Doses that were administered before January 1, 2024, including those recorded after December 31, 2023	YES
All doses (valid and invalid)	YES
COVID-19 vaccines administered	YES
Mpox/smallpox vaccines administered	YES
Travel vaccines (yellow fever, typhoid, etc.) See: http://wwwnc.cdc.gov/travel/page/yellowbook-home	NO

Historical vaccinations (vaccination information submitted to your IIS by a provider who did not administer that vaccination)	NO
Nirsevimab (Beyfortus) monoclonal antibody products administered at age 8 months or younger to prevent respiratory syncytial virus (RSV)	YES
Palivizumab (Synagis) monoclonal antibody products administered to prevent respiratory syncytial virus (RSV)	NO
Other non-vaccine products (e.g. immune globulins, PPD)	NO

30. For vaccinations administered in 2023 to all persons 0 – 18 years and of all ages in your IIS, list the number of vaccine doses posted to production to your IIS within the following time frames:

	Number of vaccine doses administered (i.e. non-historical) during CY2023 to persons aged 0 through 18 years	Percentage of doses reported for persons aged 0 through 18 years for the specified timeframe (auto-calculated)	Number of vaccine doses administered to persons of all ages (lifespan) (i.e. non-historical) during CY2023	Percentage of doses reported for persons of all ages (lifespan) for the specified timeframe (auto-calculated)
≤1 days	a	$f(a/e)$	j	$o(j/n)$
>1 days– ≤14 days	b	$g(b/e)$	k	$p(k/n)$
>14 days– ≤30 days	c	$h(c/e)$	l	$q(l/n)$
>30 days	d	$i(d/e)$	m	$r(m/n)$
Total (auto-calculated)	e		n	

Notes for BLUEPRINT: TIMELY	Please provide any relevant notes or comments for data provided in for this section

DATA QUALITY CHARACTERISTIC: AVAILABLE

- Immunization program staff have the ability to query IIS data for coverage reports and ad hoc questions

Reporting Capability

31. In 2023, were IIS data used to generate population-based coverage assessments for provider sites by patient age, age group, single vaccine, vaccine series, geographic sub-jurisdiction-level areas, OR other characteristics and published in a report that was shared with providers or other stakeholders within the jurisdiction? Yes/No

32. In 2023, were IIS data used to generate population-based coverage assessments by patient age, age group, single vaccine, vaccine series, geographic sub-jurisdiction-level areas, OR other characteristics and published to a public facing website? Yes/No

a. If yes, please provide website link: _____

33. In 2023, was your IIS used to generate provider-level coverage assessments that met current published CDC operational and technical guidelines for provider-level quality improvement? Yes/No

34. In 2023, did IIS staff produce IIS-generated provider-level coverage assessments based on user-selected criteria? Yes/No

35. In 2023, did non-IIS immunization program staff (VFC coordinators, IQIP coordinators, etc.) produce IIS-generated provider-level coverage assessments based on user-selected criteria? Yes/No

36. In 2023, could providers produce IIS-generated coverage assessments based on user-selected criteria? Yes/No

37. In 2023, did your IIS generate vaccination coverage assessments for geographic sub-jurisdiction-level areas (e.g. county, ZIP code, region, etc.) to identify under-immunized populations? Yes/No

38. In 2023, could your IIS generate data for health plans to support HEDIS reports based on query parameters (e.g. a patient age group/DOB range, list of specific individuals, geographic area, recipients of specific vaccines, etc.)? Yes/No

39. In 2023, was your IIS used to generate data to support Medicaid and/or Medicare quality improvement based on user-selected parameters? Yes/No

Notes for BLUEPRINT: AVAILABLE

Please provide any relevant notes or comments for data provided in for this section

DATA QUALITY CHARACTERISTIC: ACCURATE

Patient Status Assignment

40. In 2023, did your IIS assign patient status when receiving an inactive flag or notification from an EHR at the **jurisdiction** level? Yes/No

41. In 2023, did your IIS assign patient status when receiving an inactive flag or notification from an EHR at the **provider** level? Yes/No

Data Elements – Patient Status Indicators

Logic Guidance— Data Elements—Patient Status Indicators for individuals aged 0 – 18 years:

- Use the table below to identify individuals to include in the assessment:

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2005 through 12/31/2023	Address in jurisdiction	<any>	YES
Active	Born 1/1/2005 through 12/31/2023	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2005 through 12/31/2023	Address unknown	IIS has never received vaccination information	YES
Unknown	Born 1/1/2005 through 12/31/2023	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2005 through 12/31/2023	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2005 through 12/31/2023	<any>	<any>	NO
<any>	Born before 1/1/2005 or after 12/31/2023	<any>	<any>	NO

Patient-level data elements	Field Status (check one)	Number of patient records with date of birth from January 1, 2005 through December 31, 2023, <u>with field populated with data</u>	Percentage of patient records with date of birth from January 1, 2005 through December 31, 2023 with field populated with data. Denominator from Q.14 (auto-calculated)
<p>42. Patient status indicators at the provider site level:</p> <p>Definition: A field to denote the status of a patient.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Active • Inactive – No longer a patient • Inactive – Lost to follow-up • Inactive – Unspecified • Deceased 	<p>a. <input type="checkbox"/> Field present <input type="checkbox"/> No field</p>	<p>b. #</p>	<p>c. Q.42b/Q.14</p>

<p>NOTE: If the patient has more than one patient status indicator in your IIS (e.g. for multiple provider sites), include the patient in the numerator if they have at least one active or inactive status indicated in their record.</p> <p>If your IIS cannot assign active status and only assigns inactive or deceased status, do not count the field as present.</p>			
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43. In 2023, did your IIS generate a roster of active patients for a provider site from your IIS? Yes/No

44. In 2023, could your IIS assign deceased status to an individual based on information from vital statistics? Yes/No

4:3:1:3:3:1:4 Series Coverage (for children born 2020 – 2021)

Logic Guidance— Child Immunization Coverage in IIS:

- **Notes on Coverage:**
 - **Coverage** is defined as the number of individuals in a certain age group who received a vaccination(s) divided by the Census-based estimate of persons in that age group in your jurisdiction. Jurisdiction is defined as the area that contains the population of individuals residing in geographic location covered by the IIS.
- **Q.47:**
- **Use the table below to identify children to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2020 through 12/31/2021	Address in jurisdiction	<any>	YES
Active	Born 1/1/2020 through 12/31/2021	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2020 through 12/31/2021	Address unknown	IIS has never received vaccination information	NO
Unknown	Born 1/1/2020 through 12/31/2021	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2020 through 12/31/2021	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2020 through 12/31/2021	<any>	<any>	NO
<any>	Born before 1/1/2020 or after 12/31/2021	<any>	<any>	NO

- **After identifying children using the tables above, use this table to further identify children with the following vaccinations for Q.47:**

General vaccination inclusions/exclusions	Include?
Both valid and invalid doses.	YES
Doses administered before January 1, 2024, including those recorded after December 31, 2023	YES
Doses administered on or after the child’s 2 nd birthday	NO

<p>The 4:3:1:3:3:1:4 series includes 4 or more DTaP/DTP/DT, 3 or more Polio, 1 or more MMR, 3 or more Hepatitis B, ≥3 or ≥4 of Hib*, 1 or more Varicella†, and 4 or more pneumococcal containing vaccine).</p> <p>*When calculating Hib doses, include children who received 4+ Hib-containing vaccine doses (includes any type of Hib vaccine, including Hib, unspecified formulation) or 2 Hib-OMP doses (manufactured by Merck; includes PedVaxHib and Comvax) followed by ≥1 Hib dose of any type.</p> <p>† When counting Varicella, only include those who received 1 or more dose of Varicella. Do not count history of disease.</p>	<p>YES</p>
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	All Doses
45. <i>Number of children born in 2020 and 2021. (2022 Census data)</i>	--
46. <i>NIS 4:3:1:3:3:1:4 series coverage percentage for children born in 2020-2021 who have received complete 4:3:1:3:3:1:4 series before they reached 24 months of age. (2022 NIS data for 2019 – 2020)</i>	--
47. Number of children born during January 1, 2020 through December 31, 2021 in both your jurisdiction AND IIS at the time of query who have received the complete 4:3:1:3:3:1:4 series before they reached 24 months of age?	
a. <i>Coverage – percentage of children born in 2020 – 2021 in the population who have completed the 4:3:1:3:3:1:4 series before reaching 24 months of age. (Q.47/Q.45)</i>	<i>(Q.47)/(Q.45) (Autocalculated)</i>
b. <i>IIS Point Estimate Difference – NIS — IIS 4:3:1:3:3:1:4 series coverage percentage minus NIS 4:3:1:3:3:1:4 series coverage percentage. (Q.47a – Q.46)</i>	<i>Q.47a – Q.46 (Autocalculated)</i>

Adolescent Immunization Coverage (for adolescents aged 13 through 17 years)

Logic Guidance—Adolescent Immunization Coverage in IIS:

- **Notes on Coverage:**
 - **Coverage** is defined as the number of individuals in a certain age group who received a vaccination(s) divided by the Census-based estimate of persons in that age group in your jurisdiction. Jurisdiction is defined as the area that contains the population of individuals residing in geographic location covered by your IIS.
- **For Q.50:**
- **Use the table below to identify adolescents to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born 1/1/2006 through 12/31/2010	Address in jurisdiction	<any>	YES
Active	Born 1/1/2006 through 12/31/2010	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born 1/1/2006 through 12/31/2010	Address unknown	IIS has never received vaccination information	NO
Unknown	Born 1/1/2006 through 12/31/2010	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born 1/1/2006 through 12/31/2010	Address not in jurisdiction	<any>	NO
Deceased	Born 1/1/2006 through 12/31/2010	<any>	<any>	NO
<any>	Born before 1/1/2006 or after 12/31/2010	<any>	<any>	NO

- **After identifying adolescents using the tables above, use this table to further identify adolescents with the following vaccinations for Q.50:**

General vaccination inclusions/exclusions	Include?
Both valid and invalid doses.	YES
Tdap/Td vaccines, including those labeled as “unspecified”	YES

Any DT/DTP/DTaP-containing vaccines* given at or after age 7 years, including those labeled as “unspecified” *Doses reported as DT/DTP/DTaP-containing that were administered at or after age 7 years could reflect misreported Tdap doses. DTaP that has been misadministered at age 7 years or older may also be counted toward adolescent Tdap.	YES
Any undeterminable DT/DTP/DTaP/Tdap/Td-labeled dose* given at or after age 7 years, BUT before the adolescent’s 18 th birthday AND before January 1, 2024 *“Undeterminable DT/DTP/DTaP/Tdap/Td” is a specific label used by some IIS to indicate doses where the contents of the dose regarding DT, DTP, DTaP, Tdap, or Td were not specified in the documentation. Doses reported under this label of “undeterminable DT/DTP/DTaP/Tdap/Td” that were administered at or after age 7 years could reflect misreported Tdap doses. If your IIS does not use the “undeterminable DT/DTP/DTaP/Tdap/Td” label, disregard this logic guidance.	YES
Doses administered before January 1, 2024, including those recorded after December 31, 2023	YES
Doses administered on or after the adolescent’s 18th birthday	NO

	All Doses
48. Number of adolescents aged 13 through 17 years in your jurisdiction at the time of query. (2022 Census data)	--
49. NIS Tdap/Td coverage percentage for adolescents aged 13 through 17. (2022 NIS data)	--
50. Number of adolescents aged 13 through 17 years (born from January 1, 2006 through December 31, 2010) who are in both in your jurisdiction at the time of query AND in your IIS who have at least one dose of Tdap/Td?	
<i>a.</i> Coverage — Percentage of adolescents aged 13 through 17 years in the population who have at least one dose of Tdap/Td. (Q.50/Q.48)	Q.50/Q.48 (Autocalculated)
<i>b.</i> IIS Point Estimate Difference – NIS — IIS Tdap/Td coverage percentage minus NIS Tdap/Td coverage percentage. (Q.50a – Q.49)	Q.50a – Q.49 (Autocalculated)

Adult Influenza Coverage (aged 18 and older)

Logic Guidance—Adult Influenza Coverage in IIS:

- **Notes on Coverage:**
 - **Coverage** is defined as the number of individuals in a certain age group who received a vaccination(s) divided by the Census-based estimate of persons in that age group in your jurisdiction. Jurisdiction is defined as the area that contains the population of individuals residing in geographic location covered by your IIS.
- **Q.53:**
- **Use the table below to identify adults to include in the assessment:**

Jurisdictional Status	Age	Residence	Immunization History	Include?
Active	Born on or before 12/31/2005	Address in jurisdiction	<any>	YES
Active	Born on or before 12/31/2005	Address unknown	Received an immunization from a provider organization within the jurisdiction	YES
Unknown	Born on or before 12/31/2005	Address unknown	IIS has never received vaccination information	NO
Unknown	Born on or before 12/31/2005	Address in jurisdiction OR Address unknown	IIS has not received immunization information for an extended period of time* * Note that the “extended period of time” could be defined differently by each IIS	YES
Inactive	Born on or before 12/31/2005	Address not in jurisdiction	<any>	NO
Deceased	Born on or before 12/31/2005	<any>	<any>	NO
<any>	Born after 12/31/2005	<any>	<any>	NO

- **After identifying adults using the tables above, use this table to further identify adults with the following vaccinations for Q.53:**

General vaccination inclusions/exclusions	Include?
Both valid and invalid doses	YES
Doses of adult influenza administered on or after July 1, 2022 through May 31, 2023	YES
Doses administered before June 1, 2023, including those recorded after May 31, 2023	YES

Doses administered at any time on or after the adult's 18th birthday	YES
Doses of influenza administered to a patient during the 2022 – 2023 flu vaccination season before the patient's 18 th birthday	YES

	All Doses
51. <i>Number of adults 18 years or older in your jurisdiction at the time of query. (2022 Census data)</i>	--
52. <i>BRFSS influenza coverage percentage for adults 18 years or older. (2021 – 2022 BRFSS data)</i>	--
53. Number of adults aged 18 years or older (born on or before December 31, 2005) in both your jurisdiction AND IIS at the time of query who have at least one dose of adult influenza vaccine administered during the 2022 – 2023 flu vaccination season (July 1, 2022 – May 31, 2023) at the age of 18 or older?	
<i>a. Coverage — Percentage of adults aged 18 years or older who have at least one dose of adult influenza administered during the 2022 – 2023 flu vaccination season (July 1, 2022 – May 31, 2023). (Q.53/Q.51)</i>	<i>Q.53/Q.51 (Autocalculated)</i>
<i>b. IIS Point Estimate Difference – BRFSS — IIS influenza coverage percentage minus BRFSS influenza coverage percentage. (Q.53a – Q.52)</i>	<i>Q.53a – Q.52 (Autocalculated)</i>

Notes for BLUEPRINT: ACCURATE	Please provide any relevant notes or comments for data provided in for this section

DATA QUALITY CHARACTERISTIC: UNIQUE

Records Management

54. In 2023, did your IIS assess the number of records that require manual resolution after the automated matching process? Yes/No

Logic Guidance:

For Q.55 & Q.56:

“Routinely” is defined as “on a set schedule as part of regular operating procedures”.

55. In 2023, did your IIS routinely assess the time to perform manual data resolution of records? Yes/No

56. In 2023, did your IIS routinely assess the percentage of duplicates in the system? Yes/No

Notes for BLUEPRINT: UNIQUE

Please provide any relevant notes or comments for data provided in for this section

Empty text area for notes.

DATA QUALITY CHARACTERISTIC: ADDITIONAL DATA

Onboarding Status

Logic Guidance

Q.57:

- **Provider Site:** A provider organization that provides vaccination services and that maintains permanent records (excluding temporary or mobile immunization clinics, health fairs, etc.).
- Count physical sites, not individual providers.
- If multiple provider sites report through a single portal, count each provider site separately.
- Count each provider site only once in the table.
- “Connected with your IIS” is defined as using any of the methods listed in the columns in the table below.

57. Indicate the TOTAL number of provider sites connected with your IIS in production as of the end of 2023.

	HL7 2.5.1 r1.5			Other than HL7 2.5.1 r1.5 (including non-HL7)			Total (auto-calculated)
	Both Submission/Acknowledgement and Query/Response	Submission/Acknowledgement only	Query/Response only	Both Submission/Acknowledgement and Query/Response	Submission/Acknowledgement only	Query/Response only	
Mediated by a Health Information Exchange	a.	b.	c.	d.	e.	f.	g. (a+b+c+d+e+f)
Not mediated by a Health Information Exchange	h.	i.	j.	k.	l.	m.	n. (h+i+j+k+l+m)
TOTAL	o. (a+h)	p. (b+i)	q. (c+j)	r. (d+k)	s. (e+l)	t. (f+m)	

Logic Guidance

Q.58:

- **Provider Site:** A provider organization that provides vaccination services and that maintains permanent records (excluding temporary or mobile immunization clinics, health fairs, etc.).
- **Registered intent** refers to provider sites that have indicated their intention to onboard, but have not yet started the testing process. Only include sites that intend to onboard through Meaningful Use.
- Count physical sites, not individual providers.
- If multiple provider sites report through a single portal, count each provider site separately.
- Count each provider site only once in the table.
- Count both immunizing and non-immunizing provider sites that your IIS intends to move to production or that are already in production.

58. Indicate the TOTAL number of provider sites in each onboarding category as of the end of 2023.

Onboarding Category	<u>Both</u> Submission/Acknowledgement and Query/Response	<u>Submission/Acknowledgement</u> <u>only</u>	<u>Query/Response</u> <u>only</u>
Registered intent, and are not testing or in production	a.	b.	c.
Currently testing, and are not in production	d.	e.	f.
In production (<i>auto- calculated</i>)	g. $(Q.57a+Q.57d+Q.57h+Q.57k)$	h. $(Q.57b+Q.57e+Q.57i+Q.57l)$	i. $(Q.57c+Q.57f+Q.57j+Q.57m)$

Notes for ADDITIONAL DATA	Please provide any relevant notes or comments for data provided in this section.