# VXU Test Plan

## Baseline Message

**There is no PHI in this message**

MSH|^~\&|Test EHR Application|X68||NIST Test Iz Reg|201207010822||VXU^V04^VXU\_V04|NIST-IZ-019.00|P|2.5.1|||AL|ER

PID|1||Q-73221^^^NIST MPI^MR||Mercer^Jirra^Emmanuelle^^^^L||20100907|F||

ORC|RE||IZ-783278^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||141^Influenza^CVX|0.25|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||K5094SC|20121216|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|88^Influenza, unspecified formulation^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20120702||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120814||||||F

ORC|RE||IZ-783276^NDA

RXA|0|1|20110216||10^IPV^CVX|999|||01^Historical information - source unspecified^NIP001

ORC|RE||IZ-783282^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||120^DTaP-Hib-IPV^CVX|0.5|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||568AHK11|20121216|PMC^sanofi pasteur^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|107^DTaP^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20070517||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120816||||||F

OBX|5|CE|30956-7^vaccine type^LN|3|89^Polio^CVX||||||F

OBX|6|TS|29768-9^Date vaccine information statement published^LN|3|20111108||||||F

OBX|7|TS|29769-7^Date vaccine information statement presented^LN|3|20120816||||||F

OBX|8|CE|30956-7^vaccine type^LN|4|17^Hib^CVX||||||F

OBX|9|TS|29768-9^Date vaccine information statement published^LN|4|20111108||||||F

OBX|10|TS|29769-7^Date vaccine information statement presented^LN|4|20120816||||||F

**No intentional errors**

## Message One

**There is no PHI in this message**

MSH|^~\&|Test EHR Application|||NIST Test Iz Reg|201207010822||VXU^V04^VXU\_V04|NIST-IZ-019.00|P|2.3.1|||AL|ER

PID|1||Q-73221^^^NIST MPI^MR||Mercer^Jirra^Emmanuelle^^^^L||20100907|F||2131-1^Other Race^CDCREC~209Z-X^Made Up^CDCREC

ORC|RE||IZ-783278^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||141^Influenza^CVX|0.25|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||K5094SC|20121216|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|88^Influenza, unspecified formulation^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20120702||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120814||||||F

ORC|RE||IZ-783276^NDA

RXA|0|1|20110216||10^IPV^CVX|999|||01^Historical information - source unspecified^NIP001

ORC|RE||IZ-783282^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||120^DTaP-Hib-IPV^CVX|0.5|mL^MilliLiter [SI Volume Units]^UCUM|||||||||20121216|PMC^sanofi pasteur^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|30956-7^vaccine type^LN|2|107^DTaP^CVX||||||F

OBX|2|TS|29768-9^Date vaccine information statement published^LN|2|20070517||||||F

OBX|3|TS|29769-7^Date vaccine information statement presented^LN|2|20120816||||||F

OBX|4|CE|30956-7^vaccine type^LN|3|89^Polio^CVX||||||F

OBX|5|TS|29768-9^Date vaccine information statement published^LN|3|20111108||||||F

OBX|6|TS|29769-7^Date vaccine information statement presented^LN|3|20120816||||||F

OBX|7|CE|30956-7^vaccine type^LN|4|17^Hib^CVX||||||F

OBX|8|TS|29768-9^Date vaccine information statement published^LN|4|20111108||||||F

OBX|9|TS|29769-7^Date vaccine information statement presented^LN|4|20120816||||||F

|  |  |  |
| --- | --- | --- |
| **Issue** | **Expected Result** | **Actual Result** |
| MSH-4 - Value is missing | Error |  |
| MSH-12 - Value is not 2.5.1 | Warning |  |
| PID-10 - Race code is not a recognized or valid value | Warning |  |
| RXA-9 - The value is missing | Error |  |
| RXA-15 - The lot number is missing for an administered vaccination | Warning |  |
| RXA-15 - The lot number is missing for a historical vaccination | None |  |
| OBX-3 - There are no OBX under an administered vaccination indicating a LOINC code of 64994-7 (Vaccine funding program eligibility category.) | Warning |  |

## Message Two

**There is no PHI in this message**

MSH|^~\&|Test EHR Application| X68 ||NIST Test Iz Reg|201207010822||VXU^V04^VXU\_V04|NIST-IZ-019.00|P|2.2|||AL|ER

PID|1||Q-73221^^^NIST MPI^MR||Mercer^Jirra^Emmanuelle^^^^L~Adopted Doe^Jane^^^^C||20100907|F||W^WHITE^NIP0999

ORC|RE||IZ-783278^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||141^Influenza^CVX|0.25|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||K5094SC|20121216|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|88^Influenza, unspecified formulation^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20120702||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120814||||||F

ORC|RE||IZ-783276^NDA

RXA|0|1|20110216||10^IPV^CVX|999|||01^Historical information - source unspecified^NIP001

ORC|RE||IZ-783282^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20100907||120^DTaP-Hib-IPV^CVX|0.5|mL^MilliLiter [SI Volume Units]^UCAL||09^Hello World, Again^NIP001||||||568AHK11|20121216|PMC^sanofi pasteur^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|107^DTaP^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20070517||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120816||||||F

OBX|5|CE|99999-X^vaccine type^LN|3|89^Polio^CVX||||||F

OBX|6|TS|29768-9^Date vaccine information statement published^LN|3|20111108||||||F

OBX|7|TS|29769-7^Date vaccine information statement presented^LN|3|20120816||||||F

OBX|8|CE|30956-7^vaccine type^LN|4|17^Hib^CVX||||||F

OBX|9|TS|29768-9^Date vaccine information statement published^LN|4|20111108||||||F

OBX|10|TS|29769-7^Date vaccine information statement presented^LN|4|20120816||||||F

ZBX|1|R|||ID^NAME||||20130116

|  |  |  |
| --- | --- | --- |
| **Issue** | **Expected Result** | **Actual Result** |
| MSH-4 - Value is not X68 | Error |  |
| MSH-12 - Value is not a recognized HL7 version, such as 2.3.1, 2.4, 2.5.1, 2.6, or 2.7 | Error |  |
| PID-10 - Race code is a recognized, but has been deprecated | Warning |  |
| RXA-5.3 - CVX code is not ‘08’ (Hep B, adolescent or pediatric) and vaccination was given on patient’s birth day | Warning |  |
| RXA-7.3 - Code table for unit measurement is not recognized but the unit is mL | Warning |  |
| RXA-9 - Value is not recognized | Error |  |
| OBX-3 - Value is not recognized | Warning |  |
| ZZZ - An unrecognized custom Z segment is inserted in the message | None |  |
| PID-5 - In second repeat the patient’s adopted name is listed | None |  |

## Message Three

**There is no PHI in this message**

MSH|^~\&|Test EHR Application|X68||NIST Test Iz Reg|201207010822||VXU^V04^VXU\_V04|NIST-IZ-019.00|P|2.5.1|||AL|ER

PID|1||Q-73221^^^NIST MPI^MR||^Jirra^Emmanuelle^^^^L||20130229|F||2074-3^Trinidadian^CDCREC

ORC|RE||IZ-783278^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||141^Influenza^CVX|0.25|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||K5094SC|20121216|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|88^Influenza, unspecified formulation^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20120702||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120814||||||F

ORC|RE||IZ-783276^NDA

RXA|0|1|20110216||10^IPV^CVX|998|||

ORC|RE||IZ-783282^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20080816||120^DTaP-Hib-IPV^HELLO WORLD|0.5|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||568AHK11|20121216|PMC^sanofi pasteur^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|107^DTaP^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20070517||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120816||||||F

OBX|5|CE|30956-7^vaccine type^LN|3|89^Polio^CVX||||||F

OBX|6|TS|29768-9^Date vaccine information statement published^LN|3|20111108||||||F

OBX|7|TS|29769-7^Date vaccine information statement presented^LN|3|20120816||||||F

OBX|8|CE|30956-7^vaccine type^LN|4|17^Hib^CVX||||||F

OBX|9|TS|29768-9^Date vaccine information statement published^LN|4|20111108||||||F

OBX|10|TS|29769-7^Date vaccine information statement presented^LN|4|20120816||||||F

|  |  |  |
| --- | --- | --- |
| **Issue** | **Expected Result** | **Actual Result** |
| PID-5 - Last name is missing | Error |  |
| PID-6 - Mother’s maiden name is missing | Warning or Error  (Ambiguous Client) |  |
| PID-7 - Date of birth is not a valid date | Error |  |
| PID-10 - Race code is not a currently accepted value | Warning |  |
| RXA-3 - Value is before patient’s date of birth | Error |  |
| RXA-5.3 - Code table name is not recognized but CVX code is recognized as a valid code CVX code | Warning |  |
| RXA-9 - The value is missing when the value in RXA-5 is 998 | None |  |

## Message Four

**There is no PHI in this message**

MSH|^~\&|Test EHR Application|X68||NIST Test Iz Reg|201207010822||VXU^V04^VXU\_V04|NIST-IZ-019.00|P|2.5.1|||AL|ER

PID|1||Q-73221^^^NIST MPI^MR||Mercer^Jirra^Emmanuelle^^^^L||20100907|F

ORC|RE||IZ-783278^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||141^Influenza^CVX|0.25|mL^MilliLiter [SI Volume Units]^UCUM||00^New immunization record^NIP001||||||K5094SC|20121216|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|88^Influenza, unspecified formulation^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20120702||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120814||||||F

ORC|RE||IZ-783276^NDA

RXA|0|1|||10^IPV^CVX|999|||01^Historical information - source unspecified^NIP001

ORC|RE||IZ-783282^NDA|||||||||57422^RADON^NICHOLAS^^^^^^NDA^L

RXA|0|1|20120816||8221^DTaP-Hib-IPV^CVX|0.5|mL^MilliLiter [SI Volume Units]^UCUM||=||||||568AHK11|20121216|PMC^sanofi pasteur^MVX|||RE|A

RXR|IM^Intramuscular^HL70162|RA^Right Arm^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^VFC eligible - Federally Qualified Health Center Patient (under-insured)^HL70064||||||F|||20120701|||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|CE|30956-7^vaccine type^LN|2|107^DTaP^CVX||||||F

OBX|3|TS|29768-9^Date vaccine information statement published^LN|2|20070517||||||F

OBX|4|TS|29769-7^Date vaccine information statement presented^LN|2|20120816||||||F

OBX|5|CE|30956-7^vaccine type^LN|3|89^Polio^CVX||||||F

OBX|6|TS|29768-9^Date vaccine information statement published^LN|3|20111108||||||F

OBX|7|TS|29769-7^Date vaccine information statement presented^LN|3|20120816||||||F

OBX|8|CE|30956-7^vaccine type^LN|4|17^Hib^CVX||||||F

OBX|9|TS|29768-9^Date vaccine information statement published^LN|4|20111108||||||F

OBX|10|TS|29769-7^Date vaccine information statement presented^LN|4|20120816||||||F

|  |  |  |
| --- | --- | --- |
| **Issue** | **Expected Result** | **Actual Result** |
| PID-10 - Race code is missing | Warning |  |
| RXA-3 - Value is missing | Error |  |
| RXA-4 - Value is missing | None |  |
| RXA-5 - CVX code is not recognized | Error |  |
| RXA-9 - The value is missing when the value of RXA-20 indicates the vaccination was refused | None |  |
| RXA-20 - The value is empty when RXA-18 indicates a refusal reason | Error |  |