

ILI/H1N1 Surveillance Export (APCL v3.0 Patch 29) Detailed Logic and Design Final

As of 07/15/2014

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General Functionality/Notes

- A nightly tasked job will run to generate an ILI Surveillance “FLU” export file that will be automatically ftp’d to the EPI server. (Note: some sites must manually ftp, this is described elsewhere). This file will be a file containing HL7 2.5.1 messages.
- On the 1st of the month a FLU Population (aka FLUPOP) file will be created. This file contains counts of user population and active clinical population broken down by age and gender. If this file does not get created on the 1st of the month an attempt will be made to generate the FLU Population file on the 15th of the month. This file is a comma delimited file.
- The first export after Patch 29 is installed will export all visits from January 1, 2009 to the present and will generate and export a FLF and FLFPOP file. This is a full export file which will have a filename prefix of FLF.
- The post installation of the patch will prompt the user to indicate whether this site is a production or a test system. This value will be placed in the filename and in the message header record (MSG segment) and summary segment record (ZHS-2 segment).
- The post installation will re-populate all taxonomies “owned” by the ILI system so that all sites have current and up to date taxonomies. (Taxonomies starting with BGP are owned by CRS and will not be updated).
- A full immunization history will be exported on each individual visit HL7 message. (ZCV segments)
- Height and Weight have been added as data elements in the HL7 export message (OBX segment).
- A new “on demand” option will be created that can be run by a user to generate and send a FLU, FLF, FLUPOP, FLFPOP, FLZ and FLZPOP files. (Prompt user to select date selection option.) The ‘on demand’ option routines will do as much checking to make sure things are queued and set up properly. For the FLF option, warn user about potential for large amounts of data being exported based on date range set.
 - Last 90 Days (This is the normal export daily, used when a site had issues exporting for the date run.)
 - All Visits since 01/01/2009 (Warn on potential of massive resource usage of sending all data! Used for when initial or intermittent export issues require all data to be resubmitted.)
 - Date Range (Enter FROM and TO Date Range, used when a site may have had export issues from a certain date. The TO date should be to present since we want to avoid overwriting more current data already sent.)

- All export files will contain an HL7 summary message (ZTS segment) at the end that contains three types of visits counts for each location found and each date within the date range of the export: total count of ambulatory visits, total count of hospitalization visits, and total count of “ILI” clinic visits.
- The export filenames will be modified indicate Test or Production by filename prefix and will also have “_P29” as a filename suffix to reflect patch version. Below is the filename conventions:
- For FLU files:
 - FLU_asufac_yyyymmdd_P29.txt: The export file created on a production system after initial installation. This goes back 90 days from today -1. ZHS-2 value will be a ‘P’.
 - FLF_asufac_yyyymmdd_P29.txt: The export file created on a production system upon initial installation or explicit demand by the RPMS operator. This is a full export from 01/01/2009 to today – 1. ZHS-2 value will be a ‘P’.
 - FLZ_asufac_yyyymmdd_P29.txt: The export file created on a test system. This will be determined by the answer to the post install question. ZHS-2 value will be a ‘T’.
- For FLUPOP files:
 - FLUPOP_asufac_yyyymmdd_P29.txt: The FLUPOP export file created on a production system after initial installation.
 - FLFPOP_asufac_yyyymmdd_P29.txt: The FLUPOP export file created on a production system upon initial installation or explicit demand by the RPMS operator.
 - FLZPOP_asufac_yyyymmdd_P29.txt: The FLUPOP export file created on a test system. This will be determined by the answer to the post install question. ZHS-2 value will be a ‘T’.
 - The only change to the FLUPOP export is that the first record of the FLUPOP file will be DBID and count of records as the first record in the file.

FLU Export File Detailed Description of the Logic

The export option created is called APCL QUEUED SURVEILLANCE ILI. It is a non-interactive option that can be scheduled through task manager to run daily. The routine called from this option is APCLSILI. The following describes the process that takes place when this routine is run:

- 1) Scan the visit file for all visits with a visit date of yesterday minus 90 days (T-90) through yesterday (T-1):
 1. If the visit is a deleted visit, skip it.
 2. If the visit has zero dependent entries, skip it (these visits have no data attached to them and will occur if a visit is created at check-in, but no data has been entered for that visit yet).
- 2) Examine the patient name. If the patient name contains "DEMO, PATIENT", skip the visit. If the name of the patient is contained in the site-populated "Demo Patient" taxonomies defined by either the Clinical Reporting System (BGP) or PCC (BJPC), the visit is skipped. [NOTE: these taxonomies allow a site to identify patient names that are created for testing purposes so the records are not included in any reporting.]
- 3) If the visit is an ambulatory visit: service category A (Ambulatory); O (Observation); S (Day Surgery) or R (Nursing Home) a counter by location and date is set. This is the total # of ambulatory visits on that day to that location (old comma piece 42) (ZTS segment).
- 4) Review the visit information to determine if it meets one of the following nine (9) criteria. If so, export the visit; if not, skip the visit.
 1. The visit is an Ambulatory visit (defined as service categories A (Ambulatory); O (Observation); S (Day Surgery) or R (Nursing Home) to specific clinics which are defined in the SURVEILLANCE ILI CLINICS taxonomy OR the visit is to a PHN.

At this point, a counter by location and visit date is incremented by 1. This is the count of visits that indicates the number of total visits to the ILI clinics or to a PHN that occurred on this visit date to this location of encounter (ZTS segment).

If the visit has at least one (1) ILI diagnosis as defined in the [SURVEILLANCE ILI] taxonomy documented in the POV field AND the patient had a documented temperature of 100 and above it is flagged as a visit to be exported.

If the visit has at least one ILI diagnosis as defined in the [SURVEILLANCE ILI NO TMP NEEDED] taxonomy it is flagged as a visit to be exported (DG1 segment).

2. The visit is a Hospitalization (service category H)

At this point, a counter by location and visit date is incremented by 1. This is the count of Hospitalization visits on this date to this location (ZTS segment).

If the visit has at least one (1) ILI diagnosis as defined in the [SURVEILLANCE ILI] taxonomy documented in the POV field AND the patient had a documented temperature of 100 and above it is flagged as a visit to be exported.

If the visit has at least one ILI diagnosis as defined in the [SURVEILLANCE ILI NO TMP NEEDED] taxonomy it is flagged as a visit to be exported (DG1 segment).

3. The visit is an Ambulatory visit (defined as service categories A (Ambulatory); O (Observation); S (Day Surgery) or R (Nursing Home) or a Hospitalization visit and there is an H1N1 diagnosis as defined in the [SURVEILLANCE H1N1 DX] taxonomy the visit is flagged for export (ZLI segment).
4. The visit has an H1N1 vaccination recorded on the visit. H1N1 vaccination is defined as (ZLI segment):
 - CVX code in the [SURVEILLANCE H1N1 CVX CODES] taxonomy or,
 - CPT in the [SURVEILLANCE CPT H1N1] taxonomy.
5. The visit has an Influenza immunization recorded, defined as (ZLI segment):
 - CVX code in the [SURVEILLANCE FLU CVX CODES] taxonomy,
 - CPT in the [SURVEILLANCE CPT FLU]] taxonomy or,
 - ICD Procedure in the [BGP FLU IZ PROCEDURES] taxonomy or,
 - ICD Diagnosis in the [BGP FLU IZ DXS] taxonomy.

If available, CVX code is given priority in populating influenza_vaccine if more than one of the above taxonomy codes is present.

6. The visit has an Pneumococcal Conjugate Vaccine (PCV) immunization recorded (PCV segment), defined as:
 - CVX code in the [SURVEILLANCE PCV CVX CODES] taxonomy (100, 109, 133).
 - Each of the below PCV fields are populated if there is a PCV immunization recorded:
 - PCV CVX Code. Note that the date this immunization is administered is the event date. This event date is used to for comparison to the date of diagnosis.
 - PCV Febrile Seizure Code and PCV Febrile Seizure Date. On any visit on which there was a PCV immunization administered, the system will look for any documented diagnosis in the [SURVEILLANCE FEBRILE SEIZURE] taxonomy (codes 780.3, 780.31, 780.32, 780.39) that meet the criteria listed below. If a code is found it is put in PCV Febrile Seizure Code, the date of the diagnosis is put in PCV Febrile Seizure Date.
 - Date of Diagnosis: from the date of the vaccine to 7 days after the vaccine administered date. (0 – 7 days)

- Visit inclusions are as of the date of diagnosis:
 - Hospitalizations (service category=H)
 - Ambulatory visits with clinic code 30 (Emergency Room)
 - Ambulatory visits with clinic code 80 (Urgent Care)
 - There is not also a diagnosis of Epilepsy on the same day as the febrile seizure diagnosis. Epilepsy is defined in taxonomy [SURVEILLANCE EPILEPSY], codes: 345* (all codes in the 345 series).
- PCV Encephalopathy Code and PCV Encephalopathy Date: On any visit on which there was a PCV immunization administered, the system will look for any documented diagnosis in the [SURVEILLANCE ENCEPHALOPATHY] taxonomy (codes 348.3 - 348.39) that meet the criteria listed below. If a code is found it is put in PCV Encephalopathy Code, the date of the diagnosis is put in PCV Encephalopathy Date.
 - Date of Diagnosis: from the day after the date of the vaccine to 28 days after the vaccine administered date. (1-28 days)
 - Visit inclusions are as of the date of diagnosis:
 - Any ambulatory visit (all clinics).
 - Any Hospitalization visit.
- PCV Angioedema Code and PCV Angioedema Date: On any visit on which there was a PCV immunization administered, the system will look for any documented diagnosis in the [SURVEILLANCE ANGIOEDEMA] taxonomy (codes 708.0, 708.1, 708.9, 995.1) that meet the criteria listed below. If a code is found it is put in PCV Angioedema Code, the date of the diagnosis is put in PCV Angioedema Date.
 - Date of Diagnosis: from the date of the vaccine to 7 days after the vaccine administered date. (0-7 days)
 - Visit inclusions are as of the date of diagnosis:
 - Any ambulatory visit (all clinics).
 - Any Hospitalization visit.
- PCV Asthma Code and PCV Asthma Date: On any visit on which there was a PCV immunization administered, the system will look for any documented diagnosis in the [SURVEILLANCE ADV EVENTS ASTHMA] taxonomy (codes 466.1, 493.00 - 493.92, 519.1, 519.11, 519.19, 786.07, 786.09) that meet the criteria listed below. If a code is found it is put in column PCV Asthma Code, the date of the diagnosis is put in PCV Asthma Date.
 - Date of Diagnosis: from the date of the vaccine to 7 days after the vaccine administered date. (0-7 days)
 - Visit inclusions are as of the date of diagnosis:
 - Hospitalizations (service category=H)
 - Ambulatory visits with clinic code 30 (Emergency Room)
 - Ambulatory visits with clinic code 80 (Urgent Care)
- PCV Immunological Outcomes Code and PCV Immunological Outcomes Date: On any visit on which there was a PCV immunization administered, the system will look for any documented diagnosis in the [SURVEILLANCE IMMUNOLOGICAL] taxonomy (codes 999.4, 999.42, 999.52, 995.0) that meet the criteria listed below. If a code is found it is

put in PCV Immunological Outcomes Code, the date of the diagnosis is put in PCV Immunological Outcomes Date.

- Date of Diagnosis: from the date of the vaccine to 7 days after the vaccine administered date. (0-7 days)
- Visit inclusions are as of the date of diagnosis:
 - Any ambulatory visit (all clinics).
 - Any Hospitalization visit.

7. The visit has an H1N1 vaccination recorded and/or the visit has an Influenza vaccination recorded (ZLI segment).

If either of these vaccinations is recorded, then check diagnosis codes for the below listed adverse events and below listed visit criteria:

The Adverse Events Codes 1 -5 and Adverse Events Dates 1 -5 are populated if there is an H1N1 vaccination and/or an Influenza vaccination. Please note: up to 5 diagnosis codes may be exported (ZAN segment).

- The visit is an Ambulatory visit (defined as service categories A (Ambulatory); O (Observation); S (Day Surgery) or R (Nursing Home) to specific clinics which are defined in the SURVEILLANCE ILI CLINICS taxonomy OR the visit is to a PHN OR the visit is a Hospitalization and there is a recorded diagnosis in V POV defined as a diagnosis in the below listed adverse event taxonomies:
- [SURVEILLANCE ADV EVENTS DXS] for any patient with a Date of Diagnosis from the day after the date of the vaccine to 60 days after the vaccine administered date. (1-60 days) OR
- [SURVEILLANCE ADV EVENTS LIVE] for patients 24-59 months of age with a Date of Diagnosis from the day after the date of the vaccine to 14 days after the vaccine administered date. (1-14 days) OR
- [SURVEILLANCE ADV EVENTS FEBRILE] for anyone up to 59 months of age with a Date of Diagnosis from the date of the vaccine to 15 days after the vaccine administered date. (0-15 days).

8. The visit has at least 1 severe respiratory distress diagnosis as defined in the [SURVEILLANCE SEV RESP DIS DXS] taxonomy (ZSR segment). The visit is an Ambulatory visit (defined as service categories A (Ambulatory); O (Observation); S (Day Surgery) or R (Nursing Home) OR the visit is a Hospitalization (defined as service category H (Hospital)).

9. The visit has at least one of the following H1N1/Influenza antiviral medications recorded defined as any drug in the locally defined taxonomy [FLU ANTIVIRAL MEDS] or any drug that contains the term "OSELTAMIVIR" or "ZANAMIVIR" (ZLI segment).

If the visit meets any of the export criteria, then check to see if patient meets the following definitions (ZLI segment):

- Place “Y” in Asthma field if the patient meets the definition for Asthma. Asthma defined as: At least 2 primary diagnosis POVs ever (as of the visit date) for ambulatory or hospitalization visits (not on the same date) or 1 instance on Active Problem List, (date problem entered). Asthma defined as [BGP ASTHMA DXS] taxonomy.
- Place “Y” in Diabetes field if the patient meets the definition for Diabetes. Diabetes defined as: At least 2 primary diagnosis POVs ever (as of the visit date) for ambulatory or hospitalization visits (not on the same date) or 1 instance on Active Problem List (date problem entered). Diabetes defined as [SURVEILLANCE DIABETES] taxonomy.
- Place “Y” in Pregnant field if the patient meets the definition for Pregnant. Having a Pregnancy POV (Ambulatory; Hospitalization or In-Hospital) within the 60 days prior to this visit and NO documentation of a delivery, abortion or miscarriage occurring after the Pregnancy POV up until the date of the visit. Pregnancy defined as [SURVEILLANCE H1N1 PREGNANCY DX]. Delivery defined as [SURVEILLANCE H1N1 DELIVERY DX]; [SURVEILLANCE H1N1 DELIVERY CPT]; [SURVEILLANCE H1N1 DEL PROC]. Abortion defined as: [BGP CPT ABORTION]; [BGP ABORTION PROCEDURES]; [BGP MISCARRIAGE/ABORTION DXS]. Miscarriage defined as: [BGP CPT MISCARRIAGE]; [BGP MISCARRIAGE/ABORTION DXS].
- Place “Y” in Obese field if the patient meets the definition for Obese. Obese defined as: Adult patients (ages 19 and older) with most recent adult BMI equal to or greater than 30 (as of the visit date). For ages 18 and under greater than or equal to 95% (different calculation based on NHANES) (as of the visit date). Values for patients ages 18 and under are based on standard tables. BMI is not a stored value but is calculated at the time the logic is run, based on the most recent height and weight data in the Measurement file. For ages 18 and under, a height and weight must be taken on the same day in the past year. For ages 19 through 49, height and weight must be recorded within the last 5 years, not required to be on the same day. For ages 50 and older, height and weight must be recorded within the last 2 years, not required to be on the same day. Do not calculate BMI on visits with pregnancy diagnosis.

Once it is determined that the visit meets one of the 9 criteria above, an HL7 message will be generated and contain the following data elements. HL7 message Field separator is a “|”, Component separator is ^~\&.

The ‘Flu Export Data Elements’ table displays the HL7 segment and field that will contain the data element. The ‘Flu Export Data Elements’ table also displays the “old” comma piece.

HL7 FILE DESCRIPTORS

Listed field elements which are intentionally left blank are indicated by "(ILB)".

Batch Header

BHS-1	" "
BHS-2	"^~\&"
BHS-3	"RPMS-ILI"
BHS-4	Station Number field in HLO SYSTEM PARAMETERS file^Entry in the HLO SYSTEM PARAMETERS file (varies by site):Port Link (varies)^DNS
BHS-5	"ILI"
BHS-6	IHS pointer to HL LOGICAL LINK file, INSTITUTION field pointer (Institution MUST have a valid STATION NUMBER or messages will not generate)^DNS DOMAIN in HL LOGICAL LINK file named IHS:Port Link (varies)^DNS
BHS-7	Date/Time Stamp
BHS-8	Batch Security (ILB)
BHS-9	HL7 information
BHS-10	Batch Comment (ILB)
BHS-11	Batch number

Message Header

MSH	1	Field Separator	
	2	Component Separator	^~\&
	3	Sending Application	RPMS-ILI
	4	Sending Facility	Facility number along with DNS
	5	Receiving Application	ILI
	6	Receiving Facility	Facility number along with DNS
	7	Message Date/Time	
	8	Security	(ILB)
	9	Message/Event Type	ADT^A08
	10	Message ID	
	11	Production/Debug/Training	P^
	12	Version	2.5.1
	13	Sequence Number	(ILB)
	14	Continuation Pointer	(ILB)
	15	Accept Acknowledgement Type	(ILB)
	16	Application Acknowledgement Type	(ILB)
	17	Country Code	USA

Message Segments

EVN	1	A08
	2	Message time stamp

Please refer to 'Flu Export Data Elements' for field elements in below listed Message Segments:

PID	Patient Identification
PV1	Patient Visit
DG1	Diagnosis
OBX	Observation/Result
ZLI	ILI Export
ZSR	Severe Respiratory Disease
ZAN	Adverse Event Surveillance Adv Events DXs
ZPC	Pneumococcal and Adverse Events
ZCV	Vaccination CVX

Summary Segments at the end:

ZHS-1 DBID

ZHS-2 Test or Production.

Attention T or P is set at patch install and determines the filename prefix assigned!

ZHS-3 # of visit records/HL7 messages in file

ZHS-4 Date of Export

ZHS-5 Location Name

ZHS-6 ASUFAC_Date of Export

There will be 1 ZTS segment for each location and date combination.

ZTS-1 is the sequence

ZTS-2 is the date

ZTS-3 is the location

ZTS-4 is the ILI clinic visits, old comma 13

ZTS-5 is the # of H visits, old comma 20

ZTS-6 is the # of A visits, old comma 42

Example:

ZTS|1|20MAR2013|232101|1|0|1

ZTS|2|21MAR2013|232101|0|0|0

ZTS|3|22MAR2013|232101|0|0|0

ZTS|4|23MAR2013|232101|0|0|0

ZTS|5|24MAR2013|232101|0|0|0

FLU Export Data Elements

All HL7 field dates are in HL7 format of YYYYMMDD, e.g., 20130627. HL7 Segment fields not used except as place markers are not displayed in this table. Wherever the HL7 Field is not sequentially defined, the HL7 Field will be blank. The Segment Order on below table is for reference only.

Segment Order	Data Element	Description	HL7 SEGMENT	HL7 FIELD	SAS Variable Name	Old Comma Piece
1.00	PID	Message Segment Identifier=PID	PID – Patient Identification	0	message_id	NA
1.01	PID Sequence	PID Sequence Number, always = 1.	PID – Patient Identification	1	msg_id_seq	NA
1.02	Unique Registration ID	Unique Registration ID (15 digits), defined as the database ID (5 digits) concatenated with the DFN of the patient (left zero filled to 10 digits)	PID - Patient Identification	2	uniq_reg_code	1
1.03	Health Record Number	Health Record Number (HRN – 6 digits). The HRN of the patient at the location of encounter of the visit is passed; if the patient does not have an HRN at the location of encounter then the HRN at the site the user is logged in to will be passed.	PID - Patient Identification	3	health_record_nbr	2
1.04	DOB	Date of Birth	PID - Patient Identification	7	dobtxt	4
1.05	Gender	Male=M, Female=F, Unknown=U (Note: Unknown is being added to Patient Registration so you may receive a U at some time in the future)	PID - Patient Identification	8	gender_cd	3
1.06	Current Community	Current community of Residence State_county_community code	PID - Patient Identification	11.8	comm_res_cd	5
2.00	PV1	Message Segment Identifier=PV1	PV1 – Patient Visit	0	message_id	NA
2.01	PV1 Sequence	PV1 Sequence Number, always = 1.	PV1 – Patient Visit	1	msg_id_seq	NA

2.02	Location of Encounter	Area Service Unit Facility (ASUFAC) is the location of encounter. The ASUFAC must be 6 digits and on the IHS Standard Code Book to be valid.	PV1 - Patient Visit	3	loe_fac_cd	6
2.03	Clinic Code	Clinic Code	PV1 - Patient Visit	3.2	clinic_cd	41
2.04	Unique Visit ID	The unique ID of the visit defined as the five digit database ID concatenated with the IEN of the visit (left zero filled to 10 digits), for a total of 15 digits.	PV1 - Patient Visit	19	daily_visit_id	12
2.05	Discharge Type	Discharge Type if the visit is a hospitalization.	PV1 - Patient Visit	36	discharge_type	16
2.06	Date of Visit	Date of Visit	PV1 - Patient Visit	44	svc_admiss_dt	7
2.07	Discharge Date	Date of Discharge from the Hospital	PV1 - Patient Visit	45	discharge_date	17
3.00	DG1	Message Segment Identifier=DG1	DG1 – Diagnosis	0	message_id	NA
3.01	DG1 Sequence	DG1 Sequence Number, ranges from 1 to 3.	DG1 – Diagnosis	1	msg_id_seq	NA
3.02	DG1	ICD="ICD"	DG1 – Diagnosis	2	ICD	NA
3.03	ILI Diagnoses	DX if an ILI Diagnosis. In HL7 you will receive 3 DG1 segments. [SURVEILLANCE ILI] [SURVEILLANCE ILI NO TMP NEEDED]	DG1 – Diagnosis	3	dx1, dx2, dx3	8-10
4.00	OBX	Message Segment Identifier=OBX	OBX – Observation Result	0	message_id	NA
4.01	Temperature	Temperature. If more than 1 temperature is taken on the visit, the highest temperature is passed. Measurement unit = Fahrenheit	OBX - Observation Result OBX-1 =1 OBX-2 = "ST" OBX-3 = "TMP"	1 2 3 5 14	body_temp	11

			OBX-5= the value OBX-14=the date		body_temp_date	
4.02	Weight	Last Weight value recorded on or before the visit date. Measurement unit = pounds and ounces.	OBX - Observation Result OBX-1 = 2 OBX-2 = "ST" OBX-3 = "WT" OBX-5 = the value OBX-14 = the date	1 2 3 5 14	weight weight_date	
4.03	Height	Last Height value recorded on or before the visit date Measurement unit = inches	OBX - Observation Result OBX-1 = 3 OBX-2 = "ST" OBX-3 = "HT" OBX-5= the value OBX-14 = the date	1 2 3 5 14	height height_date	
4.04	BMI BMI Date	Last Calculable BMI value as of the visit date (to 2 decimal points). Note: any weight taken on a visit that also has a diagnosis contained in the [BGP GPRA PREGNANCY DX] taxonomy is excluded when finding a weight to use in calculating a BMI. Do not calculate BMI on visits with pregnancy diagnosis. Date of the Last Calculable BMI value (the date the weight was documented). The BMI that is sent is the last calculable BMI as of the visit date. BMI is not a stored value but is calculated at the time the	OBX - Observation Result OBX-1 = 4 OBX-2 = "ST" OBX-3 = "BMI" OBX-5= the value OBX-14= the date	1 2 3 5 14	bmi Bmi_date	37 38

		<p>logic is run, based on the most recent height and weight data in the Measurement file.</p> <p>For ages 18 and under, a height and weight must be taken on the same day in the past year.</p> <p>For ages 19 through 49, height and weight must be recorded within the last 5 years, not required to be on the same day.</p> <p>For ages 50 and older, height and weight must be recorded within the last 2 years, not required to be on the same day.</p>				
5.00	ZLI	Message Segment Identifier = ZLI	ZLI – ILI Export	0	message_id	NA
5.01	ZLI Sequence	ZLI Sequence Number, always=1	ZLI – ILI Export	1	msg_id_seq	NA
5.02	Date Visit Last Modified	The date the visit was last modified	ZLI - ILI Export	3	last_date_mod_visit	14
5.03	Service Category	<p>Service Category</p> <p>Possible values:</p> <p>A:AMBULATORY</p> <p>H:HOSPITALIZATION</p> <p>I:IN HOSPITAL</p> <p>C:CHART REVIEW</p> <p>T:TELECOMMUNICATIONS</p> <p>N:NOT FOUND</p> <p>S:DAY SURGERY</p> <p>O:OBSERVATION</p> <p>E:EVENT (HISTORICAL)</p> <p>R:NURSING HOME</p> <p>D:DAILY HOSP DATA</p> <p>X:ANCILLARY PACKAGE DAILY</p> <p>M:TELEMEDICINE</p>	ZLI - ILI Export	4	service_category	15
5.04	Referred for Care?	<p>Referred for In-Patient Care (Y/N).</p> <p>Only populated if the visit has an ILI or H1N1 diagnosis.</p>	ZLI - ILI Export	5	hospital_referral	18
5.05	Date of Referral	Hospital Referral Date	ZLI - ILI Export	6	hospital_referral_date	19
5.06	H1N1 Vaccine Code	<p>Code of the H1N1 Vaccine if given on this visit.</p> <p>[SURVEILLANCE H1N1 CVX CODES];</p>	ZLI - ILI Export	8	h1n1_vaccine	21

		[SURVEILLANCE CPT H1N1]				
5.07	Influenza Vaccine Code	<p>The code for the Influenza vaccine if given on this visit.</p> <p>[SURVEILLANCE FLU CVX CODES];</p> <p>[SURVEILLANCE CPT FLU];</p> <p>[BGP FLU IZ PROCEDURES];</p> <p>[BGP FLU IZ DXS]</p>	ZLI - ILI Export	9	influenza_vaccine	22
5.08	Asthma	<p>Export "Y" if patient meets the definition for Asthma.</p> <p>Defined as: At least 2 primary diagnosis POVs ever (as of the visit date) for ambulatory or hospitalization visits (not on the same date) or 1 instance on Active Problem List, (date problem entered).</p> <p>[BGP ASTHMA DXS]</p>	ZLI - ILI Export	10	asthma	33
5.09	Diabetes	<p>Export "Y" if patient meets the definition for Diabetes.</p> <p>Defined as: At least 2 primary diagnosis POVs ever (as of the visit date) for ambulatory or hospitalization visits (not on the same date) or 1 instance on Active Problem List (date problem entered).</p> <p>[SURVEILLANCE DIABETES]</p>	ZLI - ILI Export	11	diabetes	34
5.10	Obese	<p>Export "Y" if patient meets the definition for Obese:</p> <p>Defined as: Adult patients (ages 19 and older) with most recent adult BMI equal to or greater than 30 (as of the visit date).</p> <p>For ages 18 and under greater than or equal to 95% (different calculation based on NHANES) (as of the visit date)</p> <p>Values for patients ages 18 and under are based on standard tables. BMI is</p>	ZLI - ILI Export	12	obese	35

		<p>not a stored value but is calculated at the time the logic is run, based on the most recent height and weight data in the Measurement file.</p> <p>For ages 18 and under, a height and weight must be taken on the same day in the past year.</p> <p>For ages 19 through 49, height and weight must be recorded within the last 5 years, not required to be on the same day.</p> <p>For ages 50 and older, height and weight must be recorded within the last 2 years, not required to be on the same day.</p> <p>Do not calculate BMI on visits with pregnancy diagnosis.</p>				
5.11	Pregnant	<p>Export "Y" if patient is Pregnant on the visit date: Defined as having a Pregnancy POV (Ambulatory; Hospitalization or In-Hospital) within the 60 days prior to this visit and NO documentation of a delivery, abortion or miscarriage occurring after the Pregnancy POV up until the date of the visit.</p> <p>Pregnancy defined as [SURVEILLANCE H1N1 PREGNANCY DX]. Delivery defined as: [SURVEILLANCE H1N1 DELIVERY DX]; [SURVEILLANCE H1N1 DELIVERY CPT]; [SURVEILLANCE H1N1 DEL PROC].</p> <p>Abortion defined as: [BGP CPT ABORTION]; [BGP ABORTION PROCEDURES]; [BGP MISCARRIAGE/ABORTION DXS]. Miscarriage defined as: [BGP CPT MISCARRIAGE]; [BGP MISCARRIAGE/ABORTION</p>	ZLI - ILI Export	13	pregnant	36

		DXS]				
5.12	Pneumococcal vaccine	The code of the last Pneumococcal vaccine: [SURVEILLANCE PNEUMO CVX CODES]; [BGP PNEUMO IZ DXS]; [BGP PNEUMO IZ CPTS]	ZLI - ILI Export	16	Pneumococcal	39
5.13	Pneumococcal date	Date of Last Pneumococcal vaccine. Date is Event Date.	ZLI - ILI Export	17	pneumococcal_date	40
5.14	H1N1 Diagnosis	The code of the H1N1 diagnosis if there was one on this visit. [SURVEILLANCE H1N1 DX]	ZLI - ILI Export	19	h1n1_diagnosis	43
5.15	Antiviral Medication	The name of the antiviral medication [FLU ANTIVIRAL MEDS]	ZLI - ILI Export	21	antiviral_med_name_dose	59
5.16	Antiviral med days' supply	Antiviral medication days' supply	ZLI - ILI Export	22	days_supply_of_med	60
5.17	H1N1 Vaccine Lot number	Lot Number of vaccine (H1N1) administered on this visit	ZLI - ILI Export	23	vaccine_lot_no	61
5.18	H1N1 Vaccine Manufacturer	Name of mfg. of vaccine (H1N1) administered on this visit	ZLI - ILI Export	24	vaccine_manufacturer	62
5.19	Version	Version number of the software that produced the export file. Patch number = "p29".	ZLI - ILI Export	25	patch_number	63
5.20	Seasonal Vaccine Lot number	Seasonal Vaccine Lot Number	ZLI - ILI Export	26	seasonal_vax_lot_no	64
5.21	Seasonal Vaccine Manufacturer	Seasonal Vaccine Manufacturer	ZLI - ILI Export	27	seasonal_vax_manufacturer	65
5.22	Date of Influenza vaccine	Date of Influenza	ZLI - ILI Export	28	influenza_vaccine_date	123
5.23	Date of H1N1 vaccine	Date of H1N1	ZLI - ILI Export	29	H1N1_vaccine_date	124
6.00	ZSR	Message Segment Identifier = ZSR	ZSR – Severe Respiratory	0	message_id	NA

			Disease			
6.01	ZSR Sequence	ZSR Sequence Number, ranges 1 to 4	ZSR – Severe Respiratory Disease	1	msg_id_seq	NA
6.02	Severe Respiratory dx 1	Severe Respiratory Disease (1) ICD Code associated with visit [SURVEILLANCE SEV RESP DIS DXS]	ZSR - Severe Respiratory Disease	2	severe_resp_disease_dx1	45
6.03	Severe Respiratory dx 2	Severe Respiratory Disease (2) ICD Code associated with visit [SURVEILLANCE SEV RESP DIS DXS]	ZSR - Severe Respiratory Disease	2	severe_resp_disease_dx2	46
6.04	Severe Respiratory dx 3	Severe Respiratory Disease (3) ICD Code associated with visit [SURVEILLANCE SEV RESP DIS DXS]	ZSR - Severe Respiratory Disease	2	severe_resp_disease_dx3	47
6.05	Severe Respiratory dx 4	Severe Respiratory Disease (4) ICD Code associated with visit [SURVEILLANCE SEV RESP DIS DXS]	ZSR - Severe Respiratory Disease	2	severe_resp_disease_dx4	48
7.00	ZAN	Message Segment Identifier = ZAN	ZAN – Adverse Event Surveillance	0	message_id	NA
7.01	ZAN Sequence	ZAN Sequence Number, range 1 to 5	ZAN – Adverse Event Surveillance	1	NA	NA
7.02	Adverse Event 1-5 code	Adverse Event [SURVEILLANCE ADV EV DXS]; [ADV EVENT LIVE]; [SURVEILLANCE ADV EVENTS FEBRILE] Multiple ZAN segments will be generated depending on how many adverse event diagnoses there are	ZAN – Adverse Event Surveillance Adv Ex Dxs	2	adverse_event1, adverse_event2, adverse_event3, adverse_event4, adverse_event5	66-70
7.03	Adverse Event 1-5 date	Adverse Event ICD CODE [SURVEILLANCE ADV EV DXS]; [ADV EVENT LIVE]; [SURVEILLANCE ADV EVENTS FEBRILE] (Multiple ZAN segments are generated depending on	ZAN – Adverse Event Surveillance Adv Ex Dxs	3	adverse_event_date1, adverse_event_date2, adverse_event_date3, adverse_event_date4, adverse_event_date5	108-112

		how many adverse event diagnoses there are.				
8.00	ZPC	Message Segment Identifier = ZPC	ZPC - Pneumococcal and Adverse Events	0	message_id	NA
8.01	PCV CVX code	PCV CVX Code administered on this visit [SURVEILLANCE PCV CVX CODES]	ZPC - Pneumococcal and Adverse Events	1	pcv_cvx_code	107
8.02	PCV Febrile Seizure event code	PCV Febrile Seizure event code. [SURVEILLANCE FEBRILE SEIZURE]	ZPC - Pneumococcal and Adverse Events	2	PCV_Febrile_Seizure_code	113
8.03	PCV Febrile Seizure event date	PCV Febrile Seizure event date	ZPC - Pneumococcal and Adverse Events	3	PCV_Febrile_Seizure_date	114
8.04	PCV Encephalopathy event code	PCV Encephalopathy event code [SURVEILLANCE ENCEPHALOPATHY]	ZPC - Pneumococcal and Adverse Events	4	PCV_Encephalopathy_code	115
8.05	PCV Febrile Seizure event date	PCV Encephalopathy event date	ZPC - Pneumococcal and Adverse Events	5	PCV_Encephalopathy_date	116
8.06	PCV Angioedema event code	PCV Angioedema event code [SURVEILLANCE ANGIOEDEMA]	ZPC - Pneumococcal and Adverse Events	6	PCV_Angioedema_code	117
8.07	PCV Angioedema event date	PCV Angioedema event date	ZPC - Pneumococcal and Adverse Events	7	PCV_Angioedema_date	118
8.08	PCV Asthma event code	PCV Asthma event code [SURVEILLANCE ADV EVENTS ASTHMA]	ZPC - Pneumococcal and Adverse Events	8	PCV_Asthma_code	119
8.09	PCV Asthma event date	PCV Asthma event date	ZPC - Pneumococcal and Adverse Events	9	PCV_Asthma_date	120
8.10	PCV Immunological event code	PCV Immunological event code [SURVEILLANCE	ZPC - Pneumococcal and Adverse	10	PCV_Immunological_Outcomes_code	121

		IMMUNOLOGICAL]	Events			
8.11	PCV Immunological event date	PCV Immunological event date	ZPC - Pneumococcal and Adverse Events	11	PCV_Immunological_Outcomes_date	122
9.00	ZCV	Message Segment Identifier = ZCV	ZCV – Vaccination CVX	0	message_id	NA
9.01	ZCV Sequence	ZCV Sequence Number, ranges 1 to nnn	ZCV – Vaccination CVX	1	msg_id_seq	NA
9.01	Vaccination CVX codes	<p>Vaccination CVX code for all vaccines in the patient’s immunization history.</p> <p>Order: Most recent to oldest. Multiple ZCV segments are generated depending on the number of vaccines in the patient’s history.</p> <p>If the patient had 4 vaccines, you will get 4 ZCV segments. If they had 40 vaccines, you will get 40 ZCV segments, etc...</p> <p>Each segment will have a sequence number (field 1), CVX code (field 2) and date (field 3).</p>	ZCV - Vaccination CVX	2	vax_cvx_code1 , vax_cvx_code2, ... Vax_cvx_code35,	71-106
9.02	Vaccination CVX date	<p>Date the vaccine was given. Order: Most recent to oldest.</p> <p>Date is Event Date.</p>	ZCV - Vaccination CVX	3	vax_cvx_code_date1, vax_cvx_code_date2, ... Vax_cvx_code_date35, ...	125-158

Detailed Description of the Logic for Population Export

Create a unique export file to collect the User Population and the Active Clinical population at each facility.

1. Record the User Population (i.e., total number of patients who have had at least one (1) visit to a clinic within three (3) years. The visit must be face-to-face (service categories A=Ambulatory, H=Hospital, O=Observation, S=Day Surgery).

2. Record the Active Clinical Population. (Total number of patients who have had at least two (2) visits to one or more of the following clinics) within three (3) years. To be considered "Active Clinical", the patient must have had visits per the definitions below.

Must have two visits to medical clinics in the past three years. Chart reviews and telephone calls from these clinics do not count; the visits must be face-to-face (service categories A=Ambulatory, H=Hospital, O=Observation, S=Day Surgery).

At least one visit must be to one of the following core medical clinics:

01	General	24	Well Child
06	Diabetic	28	Family Practice
10	GYN	57	EPSDT
12	Immunization	70	Women's Health
13	Internal Medicine	80	Urgent Care
20	Pediatrics	89	Evening

The second visit can be EITHER to one of the core medical clinics listed above OR to one of the following additional medical clinics:

02	Cardiac	37	Neurology
03	Chest And TB	38	Rheumatology
05	Dermatology	49	Nephrology
07	ENT	50	Chronic Disease
08	Family Planning	69	Endocrinology
16	Obstetrics	75	Urology
19	Orthopedic	81	Men's Health Screening
23	Surgical	85	Teen Clinic
25	Other	88	Sports Medicine
26	High Risk	B8	Gastroenterology - Hepatology
27	General Preventive	B9	Oncology - Hematology
31	Hypertension	C3	Colposcopy
32	Postpartum		

- Record the total number of the user population patients who have asthma.
- Record the total number of the user population patients who have diabetes.
- Record the total number of the user population patients who have a pregnancy diagnosis.
- Record the total number of active clinical population patients who have asthma.
- Record the total number of active clinical population patients who have diabetes.
- Record the total number of active clinical population patients who have a pregnancy diagnosis.

This export will run monthly, if it fails to run on the 1st, it will run on the 15th.

FLUPOP Record Definition

The first line of this file will be equal to the DBID (1st comma piece) and total count of records in the file (second comma piece). The second line of this file will be per below table, (same as Patch 28):

Comma Piece	Description
1	Age Groups, "0-5 months", "6-11 months", "1", "2", "3", up to oldest age.
2	User Population. Record the User Population (i.e., total number of patients who have had at least one (1) visit to a clinic within three (3) years.
3	Active Population. Record the Active Clinical Population (i.e. total number of patients who have met the "Active Clinical" definition.
4	Asthma User Population. Record the total number of user population patients who have asthma.
5	Diabetes User Population. Record the total number of user population patients who have diabetes.
6	Pregnant User Population. Record the total number of user population patients who have a pregnancy diagnosis.
7	Asthma Active Population. Record the total number of active clinical population patients who have asthma.
8	Diabetes Active Population. Record the total number of active clinical population patients who have diabetes.
9	Pregnant Active Population. Record the total number of active clinical population patients who have a pregnancy diagnosis.

Sample:

```

99999,233 ==> DBID, total # records in file
0-5 months,0,0,0,0,0,0,0
6-11 months,0,0,0,0,0,0,0
1,0,0,0,0,0,0,0
2,0,0,0,0,0,0,0
3,1,0,0,1,0,0,0
4,0,0,0,0,0,0,0
5,1,0,0,1,0,0,0
6,2,0,0,1,0,0,0
7,0,0,0,0,0,0,0
8,1,0,0,0,0,0,0
9,0,0,0,0,0,0,0
10,0,0,0,0,0,0,0
11,2,1,0,0,0,0,0
ETC, for each age

```

Taxonomies Used in Patch 29 FLU and FLUPOP exports

Taxonomy Name	Members
SURVEILLANCE ILI CLINICS	GENERAL DIABETIC GYNECOLOGY IMMUNIZATION INTERNAL MEDICINE PEDIATRIC WELL CHILD FAMILY PRACTICE EMERGENCY MEDICINE EPSDT WOMEN'S HEALTH SCREENING URGENT CARE EVENING
SURVEILLANCE ILI	079.99 382.00 382.9 460. 461.8 - 463. 464.00 464.10 464.20 465.0 - 466.0 466.19 478.9 480.9 485. - 486. 487.0 - 487.8 488 - 490. 780.6 - 780.61 786.2
SURVEILLANCE ILI NO TMP NEEDED	487.0 - 488.89
SURVEILLANCE H1N1 DX	488.1 - 488.19
SURVEILLANCE H1N1 CVX CODES	125 (Novel Influenza-H1N1-09, all formulations, INACTIVE) 126 (Novel influenza-H1N1-09, preservative free, INACTIVE) 127 (Novel influenza-H1N1-09, INACTIVE) 128 (Novel Influenza-H1N1-09, all formulations, INACTIVE)
SURVEILLANCE CPT H1N1	90470, 90663, 90664, 90666, 90667, 90668 G9141, G9142
SURVEILLANCE FLU CVX CODES	15 (Influenza, split virus, INACTIVE) 16 (Influenza, whole, INACTIVE) 88 (Influenza, unspecified formulation, INACTIVE) 111 (Influenza, live, intranasal) 123 (Influenza virus vaccine, H5N1, A/Vietnam/1203/1204, INACTIVE) 135 (Influenza, high dose seasonal, preservative free) 140 (Influenza, seasonal, injectable, preservative free) 141 (Influenza, seasonal, injectable) 144 (Influenza, seasonal, intradermal, preservative free) 149 (Influenza, live, intranasal, quadrivalent) 150 (Influenza, live, injectable, quadrivalent, preservative free) 151 (Influenza, nasal, unspecified formulation, INACTIVE) 153 (Influenza, injectable, MDCK, preservative free) 155 (Influenza, recombinant, injectable, preservative free) 158 (Influenza, inactivated , quadrivalent, with preservative)
BGP FLU IZ CVX CODES	15, 16, 88, 111, 135, 140, 141, 144
BGP CPT FLU	90654-90662, 90724, G0008, G8108
SURVEILLANCE CPT FLU	90654 (maps to CVX 144) 90655 (maps to CVX 140) 90656 (maps to CVX 140) 90657 (maps to CVX 141) 90658 (maps to CVX 141) 90659 (maps to CVX 16 – INACTIVE AS OF 2004)

Taxonomy Name	Members
	90660 (maps to CVX 111) 90661 (maps to CVX 153) 90662 (maps to CVX 135) 90672 (maps to CVX 149) 90673 (maps to CVX 155) 90685 (maps to CVX 150) 90686 (maps to CVX 150) 90724 (maps to CVX 88 – INACTIVE AS OF 1999) G0008 (Administration of influenza virus vaccine.) G8108 (Patient documented to have received influenza vaccination during influenza season)
BGP FLU IZ PROCEDURES	99.52 (Prophylactic Vaccination Against Influenza)
BGP FLU IZ DXS	V04.8 (Need for prophylactic vaccination and inoculation against certain viral diseases) V04.81 (Need for prophylactic vaccination and inoculation against influenza) V06.6 (Need for prophylactic vaccination and inoculation against streptococcus pneumoniae [pneumococcus] and influenza)
SURVEILLANCE PCV CVX CODES	100, 109, 133
SURVEILLANCE PNEUMO CVX CODES	33 (pneumococcal polysaccharide vaccine, 23 valent) 100 (pneumococcal conjugate vaccine, 7 valent) 109 (pneumococcal vaccine, unspecified formulation, INACTIVE) 133 (pneumococcal conjugate vaccine, 13 valent) 152 (Pneumococcal Conjugate, unspecified formulation, INACTIVE)
BGP PNEUMO IZ CPTS	90669 (Pneumococcal conjugate vaccine, polyvalent, when administered to children younger than 5 years, for intramuscular use) 90670 (Pneumococcal conjugate vaccine, 13 valent, for intramuscular use) 90732 (Pneumococcal polysaccharide vaccine, 23-valent, adult or immunosuppressed patient dosage, when administered to individuals 2 years or older, for subcutaneous or intramuscular use) G0009 (Administration of pneumococcal vaccine) G8115 (Patient documented to have received pneumococcal vaccination)
SURVEILLANCE ADV EVENTS DXS	287.30 - 287.31 287.33 287.39 287.4 - 287.5 347.00 - 347.01 347.10 347.11 351.0 357.0
SURVEILLANCE ADV EVENTS LIVE	488.1 - 488.19 493.00 - 493.02 493.90 - 493.92 786.07
SURVEILLANCE ADV EVENT FEBRILE	780.31 - 780.32
BGP PNEUMO IZ DXS	V03.82 (Other specified vaccinations against streptococcus pneumoniae [pneumococcus]) V06.6 (Need for prophylactic vaccination and inoculation against streptococcus pneumoniae [pneumococcus] and influenza)
BGP PNEUMO IZ PROCEDURES	99.55 (Prophylactic administration of vaccine against other diseases)
SURVEILLANCE SEV RESP DIS DXS	480 - 480.9 (viral pneumonia) 481. - 482.9 483 - 483.8 (pneumonia due to other specified organism) 484 - 484.8 (pneumonia in infectious diseases classified elsewhere) 485 (bronchopneumonia, organism unspecified) 486 (pneumonia, organism unspecified) 487.0 - 487.8 488.1 - 488.19 518.81 - 518.82 518.84
FLU ANTIVIRAL MEDS	Locally defined by site. Export also looks for drug names that contain the terms: OSELTAMIVIR, ZANAMIVIR, RIMANTADINE, AMANTADINE
BGP ASTHMA DXS	493.00 - 493.92
SURVEILLANCE DIABETES	250.00-250.93

Taxonomy Name	Members
SURVEILLANCE H1N1 PREGNANCY DX	640.00-640.00, 640.03-640.80, 640.83-640.90, 640.93-641.00, 641.03-641.10, 641.13-641.20, 641.23-641.30, 641.33-641.80, 641.83-641.90, 641.93-642.00, 642.03-642.03, 642.10-642.10, 642.13-642.13, 642.20-642.20, 642.23-642.23, 642.30-642.30, 642.33-642.33, 642.40-642.40, 642.43-642.43, 642.50-642.50, 642.53-642.53, 642.60-642.60, 642.63-642.63, 642.70-642.70, 642.73-642.73, 642.90-642.90, 642.93-642.93, 643.00-643.00, 643.03-643.10, 643.13-643.20, 643.23-643.80, 643.83-643.90, 643.93-644.13, 645.00-645.00, 645.03-645.10, 645.13-645.20, 645.23-646.00, 646.03-646.10, 646.13-646.20, 646.23-646.23, 646.30-646.30, 646.33-646.40, 646.43-646.43, 646.50-646.50, 646.53-646.53, 646.60-646.60, 646.63-646.63, 646.70-646.70, 646.73-646.80, 646.83-646.83, 646.90-646.90, 646.93-647.00, 647.03-647.03, 647.10-647.10, 647.13-647.13, 647.20-647.20, 647.23-647.23, 647.30-647.30, 647.33-647.33, 647.40-647.40, 647.43-647.43, 647.50-647.50, 647.53-647.53, 647.60-647.60, 647.63-647.63, 647.80-647.80, 647.83-647.83, 647.90-647.90, 647.93-647.93, 648.00-648.00, 648.03-648.03, 648.10-648.10, 648.13-648.13, 648.20-648.20, 648.23-648.23, 648.30-648.30, 648.33-648.33, 648.40-648.40, 648.43-648.43, 648.50-648.50, 648.53-648.53, 648.60-648.60, 648.63-648.63, 648.70-648.70, 648.73-648.73, 648.80-648.80, 648.83-648.83, 648.90-648.90, 648.93-648.93, 649.00-649.00, 649.03-649.03, 649.10-649.10, 649.13-649.13, 649.20-649.20, 649.23-649.23, 649.30-649.30, 649.33-649.33, 649.40-649.40, 649.43-649.43, 649.50-649.50, 649.53-649.53, 649.60-649.60, 649.63-649.63, 649.70-649.70, 649.73-649.73, 651.00-651.00, 651.03-651.03, 651.10-651.10, 651.13-651.13, 651.20-651.20, 651.23-651.23, 651.30-651.30, 651.33-651.33, 651.40-651.40, 651.43-651.43, 651.50-651.50, 651.53-651.53, 651.60-651.60, 651.63-651.63, 651.70-651.70, 651.73-651.73, 651.80-651.80, 651.83-651.83, 651.90-651.90, 651.93-651.93, 652.00-652.00, 652.03-652.03, 652.10-652.10, 652.13-652.13, 652.20-652.20, 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655.60-655.60, 655.63-655.63, 655.70-655.70, 655.73-655.73, 655.80-655.80, 655.83-655.83, 655.90-655.90, 655.93-655.93, 656.00-656.00, 656.03-656.03, 656.10-656.10, 656.13-656.13, 656.20-656.20, 656.23-656.23, 656.30-656.30, 656.33-656.33, 656.40-656.40, 656.43-656.43, 656.50-656.50, 656.53-656.53, 656.60-656.60, 656.63-656.63, 656.70-656.70, 656.73-656.73, 656.80-656.80, 656.83-656.83, 656.90-656.90, 656.93-656.93, 657.00-657.00, 657.03-657.03, 658.00-658.00, 658.03-658.03, 658.10-658.10, 658.13-658.13, 658.20-658.20, 658.23-658.23, 658.30-658.30, 658.33-658.33, 658.40-658.40, 658.43-658.43, 658.80-658.80, 658.83-658.83, 658.90-658.90, 658.93-658.93, 659.00-659.00, 659.03-659.03, 659.10-659.10, 659.13-659.13, 659.20-659.20, 659.23-659.23, 659.30-659.30, 659.33-659.33, 659.40-659.40, 659.43-659.43, 659.50-659.50, 659.53-659.53, 659.60-659.60, 659.63-659.63, 659.70-659.70, 659.73-659.73, 659.80-659.80, 659.83-659.83, 659.90-659.90, 659.93-660.00, 660.03-660.03, 660.10-660.10, 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SURVEILLANCE H1N1 DELIVERY DX	640.01-640.01, 640.81-640.81, 640.91-640.91, 641.01-641.01, 641.11-641.11, 641.21-641.21,

Taxonomy Name	Members
	<p>641.31-641.31, 641.81-641.81, 641.91-641.91, 642.01-642.02, 642.04-642.04, 642.11-642.12, 642.14-642.14, 642.21-642.22, 642.24-642.24, 642.31-642.32, 642.34-642.34, 642.41-642.42, 642.44-642.44, 642.51-642.52, 642.54-642.54, 642.61-642.62, 642.64-642.64, 642.71-642.72, 642.74-642.74, 642.91-642.92, 642.94-642.94, 643.01-643.01, 643.11-643.11, 643.21-643.21, 643.81-643.81, 643.91-643.91, 644.20-644.21, 645.11-645.11, 645.21-645.21, 646.01-646.01, 646.11-646.12, 646.14-646.14, 646.21-646.22, 646.24-646.24, 646.31-646.31, 646.41-646.42, 646.44-646.44, 646.51-646.52, 646.54-646.54, 646.61-646.62, 646.64-646.64, 646.71-646.71, 646.81-646.82, 646.84-646.84, 646.91-646.91, 647.01-647.02, 647.04-647.04, 647.11-647.12, 647.14-647.14, 647.21-647.22, 647.24-647.24, 647.31-647.32, 647.34-647.34, 647.41-647.42, 647.44-647.44, 647.51-647.52, 647.54-647.54, 647.61-647.62, 647.64-647.64, 647.81-647.82, 647.84-647.84, 647.91-647.92, 647.94-647.94, 648.01-648.01, 648.02-648.02, 648.04-648.04, 648.11-648.11, 648.12-648.12, 648.14-648.14, 648.21-648.21, 648.22-648.22, 648.24-648.24, 648.31-648.31, 648.32-648.32, 648.34-648.34, 648.41-648.41, 648.42-648.42, 648.44-648.44, 648.51-648.51, 648.52-648.52, 648.54-648.54, 648.61-648.61, 648.62-648.62, 648.64-648.64, 648.71-648.71, 648.72-648.72, 648.74-648.74, 648.81-648.81, 648.82-648.82, 648.84-648.84, 648.91-648.91, 648.92-648.92, 648.94-648.94, 649.01-649.01, 649.02-649.02, 649.04-649.04, 649.11-649.11, 649.12-649.12, 649.14-649.14, 649.21-649.21, 649.22-649.22, 649.24-649.24, 649.31-649.31, 649.32-649.32, 649.34-649.34, 649.41-649.41, 649.42-649.42, 649.44-649.44, 649.51-649.51, 649.61-649.61, 649.62-649.62, 649.64-649.64, 649.71-649.71, 650.-650., 651.01-651.01, 651.11-651.11, 651.21-651.21, 651.31-651.31, 651.41-651.41, 651.51-651.51, 651.61-651.61, 651.71-651.71, 651.81-651.81, 651.91-651.91, 652.01-652.01, 652.11-652.11, 652.21-652.21, 652.31-652.31, 652.41-652.41, 652.51-652.51, 652.61-652.61, 652.71-652.71, 652.81-652.81, 652.91-652.91, 653.01-653.01, 653.11-653.11, 653.21-653.21, 653.31-653.31, 653.41-653.41, 653.51-653.51, 653.61-653.61, 653.71-653.71, 653.81-653.81, 653.91-653.91, 654.01-654.01, 654.02-654.02, 654.04-654.04, 654.11-654.11, 654.12-654.12, 654.14-654.14, 654.21-654.21, 654.31-654.31, 654.32-654.32, 654.34-654.34, 654.41-654.41, 654.42-654.42, 654.44-654.44, 654.51-654.51, 654.52-654.52, 654.54-654.54, 654.61-654.61, 654.62-654.62, 654.64-654.64, 654.71-654.71, 654.72-654.72, 654.74-654.74, 654.81-654.81, 654.82-654.82, 654.84-654.84, 654.91-654.91, 654.92-654.92, 654.94-654.94, 655.01-655.01, 655.11-655.11, 655.21-655.21, 655.31-655.31, 655.41-655.41, 655.51-655.51, 655.61-655.61, 655.71-655.71, 655.81-655.81, 655.91-655.91, 656.01-656.01, 656.11-656.11, 656.21-656.21, 656.31-656.31, 656.41-656.41, 656.51-656.51, 656.61-656.61, 656.71-656.71, 656.81-656.81, 656.91-656.91, 657.01-657.01, 658.01-658.01, 658.11-658.11, 658.21-658.21, 658.31-658.31, 658.41-658.41, 658.81-658.81, 658.91-658.91, 659.01-659.01, 659.11-659.11, 659.21-659.21, 659.31-659.31, 659.41-659.41, 659.51-659.51, 659.61-659.61, 659.71-659.71, 659.81-659.81, 659.91-659.91, 660.01-660.01, 660.11-660.11, 660.21-660.21, 660.31-660.31, 660.41-660.41, 660.51-660.51, 660.61-660.61, 660.71-660.71, 660.81-660.81, 660.91-660.91, 661.01-661.01, 661.11-661.11, 661.21-661.21, 661.31-661.31, 661.41-661.41, 661.91-661.91, 662.01-662.01, 662.11-662.11, 662.21-662.21, 662.31-662.31, 663.01-663.01, 663.11-663.11, 663.21-663.21, 663.31-663.31, 663.41-663.41, 663.51-663.51, 663.61-663.61, 663.81-663.81, 663.91-663.91, 664.00-664.94, 665.01-665.01, 665.11-665.11, 665.22-665.22, 665.24-665.24, 665.31-665.31, 665.34-665.34, 665.41-665.41, 665.44-665.44, 665.51-665.51, 665.54-665.54, 665.61-665.61, 665.64-665.64, 665.71-665.71, 665.72-665.72, 665.74-665.74, 665.81-665.81, 665.82-665.82, 665.84-665.84, 665.91-665.91, 665.92-665.92, 665.94-665.94, 666.00-666.34, 667.00-667.14, 668.00-668.02, 668.04-668.12, 668.14-668.22, 668.24-668.82, 668.84-668.92, 668.94-668.94, 669.00-669.02, 669.04-669.12, 669.14-669.22, 669.24-669.42, 669.44-669.82, 669.84-669.92, 669.94-669.94, 670.00-670.04, 671.01-671.01, 671.02-671.02, 671.04-671.04, 671.11-671.11, 671.12-671.12, 671.14-671.14, 671.21-671.21, 671.22-671.22, 671.24-671.24, 671.31-671.31, 671.42-671.42, 671.44-671.44, 671.51-671.51, 671.52-671.52, 671.54-671.54, 671.81-671.81, 671.82-671.82, 671.84-671.84, 671.91-671.91, 671.92-671.92, 671.94-672.04, 673.01-673.01, 673.02-673.02, 673.04-673.04, 673.11-673.11, 673.12-673.12, 673.14-673.14, 673.21-673.21, 673.22-673.22, 673.24-673.24, 673.31-673.31, 673.32-673.32, 673.34-673.34, 673.81-673.81, 673.82-673.82, 673.84-674.02, 674.04-674.52, 674.54-674.94, V24.0-V24.2, V27.0-V27.9</p>
SURVEILLANCE H1N1 DEL PROC	72.0 - 74.99
SURVEILLANCE H1N1 DELIVERY CPT	59400 - 59410 59510 - 59515 59610 - 59622
BGP CPT ABORTION	59100 59120 59130 59136 59150 - 59151 59840 - 59857

Taxonomy Name	Members
	S2260 - S2267
BGP ABORTION PROCEDURES	69.01 69.51 74.91 96.49
BGP ISCARRIAGE/ABORTION DXS	630. - 637.92
BGP CPT MISCARRIAGE	59812 - 59830
SURVEILLANCE FEBRILE SEIZURE	780.3 - 780.32 780.39
SURVEILLANCE EPILEPSY	345.0 - 345.91
SURVEILLANCE ENCEPHALOPATHY	348.3 - 348.39
SURVEILLANCE ANGIOEDEMA	708.0 - 708.1 708.9 995.1
SURVEILLANCE ADV EVENTS ASTHMA	466.1 493.00 - 493.92 519.1 519.11 519.19 786.07 - 786.09
SURVEILLANCE IMMUNOLOGICAL	995.0 999.4 999.42 999.52
BGP GPRA PREGNANCY DXS	640.00 - 649.64 651.00 - 676.94 V22.0 - V23.9 V72.42

ILI Clinic Code Definitions

Table of Surveillance ILI Clinics

Clinic Code	Description
01	GENERAL
06	DIABETIC
10	GYN
12	IMMUNIZATION
13	INTERNAL MEDICINE
20	PEDIATRICS
24	WELL CHILD CARE
28	FAMILY PRACTICE
30	EMERGENCY ROOM
57	EPSDT
70	WOMEN'S HEALTH
80	URGENT CARE
89	EVENING

Pneumococcal Vaccine Code Definitions

CVX Code	Full Vaccine Name (CDC Abbreviation)	RPMS Short Name
33	pneumococcal polysaccharide vaccine, 23 valent	Pneumo - PS
109	pneumococcal vaccine, unspecified formulation	Pneumo, NOS
133	pneumococcal conjugate vaccine, 13 valent	PCV-13
100	pneumococcal conjugate vaccine, 7 valent	PCV-7
152	pneumococcal conjugate, unspecified formulation	PCV-NOS

Influenza Vaccine Code Definitions

CVX Code	Full vaccine name (CDC abbreviation)	RPMS Short Name
Trivalent Inactivated Vaccines (IIV3)		
141	Influenza, seasonal, injectable, trivalent	FLU-IIV3
140	Influenza, seasonal, injectable, preservative free , trivalent	FLU-IIV3pf
144	seasonal influenza, intradermal, preservative free, trivalent	FLU-DERMAL
135	influenza, high dose seasonal, preservative-free	FLU-HIGH
155	Seasonal, trivalent, recombinant, injectable influenza vaccine, preservative free (RIV)	FLU-RIV3
153	Influenza, injectable, Madin Darby Canine Kidney, preservative free (cell culture) (ccIIV3)	FLU-ccIIV3
Quadrivalent Inactivated Vaccines (IIV4)		
150	Influenza, injectable, quadrivalent, preservative free	FLU-IIV4pf
158	Influenza, injectable, quadrivalent	FLU-IIV4
Quadrivalent Live Attenuated Virus Vaccines (LAIV4)		
149	influenza, live, intranasal, quadrivalent (LAIV4)	FLU-LAIV4
Codes that should ONLY be used to record vaccines given elsewhere, if formulation is unknown		
88	influenza virus vaccine, unspecified formulation	FLU-NOS
Codes that should not be used this influenza season - Inactivate them in your vaccine table		
15	influenza virus vaccine, split virus (incl. purified surface antigen)-retired CODE	FLU-TIVhx
16	influenza virus vaccine, whole virus	FLU-WHOLE
111	influenza virus vaccine, live, attenuated, for intranasal use, trivalent (LAIV3)	FLU-LAIV3
151	influenza nasal, unspecified formulation	FLU-NasNOS
123	influenza virus vaccine, H5N1, A/Vietnam/1203/2004 (national stockpile)	FLU-H5N1

Detailed Description of the Logic for Aggregate Report

Note: There were no changes made to the Aggregate Report for Patch 29. The Aggregate Report uses the logic as defined in patch 28. The online reports were not updated in patch 29.

Tips for Patch 29 Installation and Exports

1. With Patch 29, you will be asked to select the database system you are performing the installation. Below is an excerpt showing the selection question.

Please be careful to select 'P' for Production for the production database and 'T' for the test database. This selection controls the file naming conventions used for the Flu and FLUPOP exports.

Be aware that if you select 'P' for your test database system, the test data exported will be processed as production data!

Install Questions for APCL*3.0*29

Incoming Files:

Select one of the following:

P PRODUCTION
T TEST

Is this a Production System or a Test/Training System: P// PRODUCTION

On the Flu file export, in segment ZHS-2, you will see the value 'T' or 'P' which reflects the value selected during installation.

2. Upon successful installation of Patch 29 on the production database, both the FLF_nnnnnn_yyyymmdd_P29.txt and FLFPOP_nnnnnn_yyyymmdd_P29.txt export files will be created. Please confirm these files were successfully Ftp'd.

3. Upon successful installation of Patch 29 on the test database, both the FLZ_nnnnnn_yyyymmdd_P29.txt and FLZPOP_nnnnnn_yyyymmdd_P29.txt export files will be created. You may want to turn off auto FTP for these files.

4. With Patch 29, there is an 'On Demand' export option by which you can export Flu and/or FLUPOP files:

- From 01/01/2009 to today minus one; the 'FLF' prefix installation files.
- From a starting date range for export to today minus one.

If your site has had previous exporting issues, with gaps in time of successful exports, it is recommended that a full, aka FLF export, for both Flu and FLUPOP files be done.

5. If you need assistance with this patch, please place a ticket for help. In your ticket, ask for assistance with 'RPMS Patch 29 Exports'. Email: OITHELP@IHS.GOV:

- Installation
- 'On Demand' export option
- Issues with invalid ASUFACS
- Issues with the exports
- Issues with FTPing of the exports

SAMPLE FLU BATCH FILE

This sample batch file contains data that has been scrubbed.

```
BHS|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||PROCESSING
ID=P ACCEPT ACK TYPE=AL APP ACK TYPE=AL ||1601 465|
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-
0500||ADT^A08|1601 465-1|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000025527|172175|||19730103|M||^3750510
PV1|1||232101^80|||999990003299673|||20130423|
ZLI|1||20130619|A|||149|||V06.6|20130609|||p29||20130423|
ZAN|1|287.33|20130602
ZPC|109|780.32|20130426|348.31|20130426|708.1|20130426|519.11|20130426|999.42|20130423
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-
0500||ADT^A08|1601 465-2|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000021749|164873|||19580703|F||^2199921
PV1|1||232101^|||999990003299645|||20130506|
ZLI|1||20130516|A|||135|||33|20130506|||p29||20130506|
ZCV|1|135|20130506
ZCV|1|33|20130506
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-
0500||ADT^A08|1601 465-3|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000025527|172175|||19730103|M||^3750510
PV1|1||232101^|||999990003299672|||20130511|
ZLI|1||20130612|A|||90686|||V06.6|20130609|||p29||20130511|
ZAN|1|287.33|20130602
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-
0500||ADT^A08|1601 465-4|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000025527|172175|||19730103|M||^3750510
PV1|1||232101^|||999990003299671|||20130513|
ZLI|1||20130619|A|||123|||V06.6|20130609|||p29||20130513|
ZAN|1|287.33|20130602
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-
0500||ADT^A08|1601 465-5|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000030166|2898|||19600101|U||^0410077
PV1|1||232101^01|||999990003299638|||TRANSFERRED|||20130515|20130515
OBX|1|ST|WT||200
```


OBX|2|ST|BMI||33.28|||||20130515
ZLI|1||20130521|H|||||144|Y|||||33|20130515|||||p29||20130515|
ZCV|1|33|20130515
ZCV|1|144|20130515
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-6|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000029854|176503||||20090620|M||^3787516
PV1|1||232101^01|||||999990003299689|||||20130530|
ZLI|1||20130619|A|||||111|||||p29||20130530|
ZAN|1|780.32|20130530
ZCV|1|111|20130530
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-7|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000025527|172175||||19730103|M||^3750510
PV1|1||232101^01|||||999990003299668|||||20130603|
DG1|1|ICD|460.
OBX|1|ST|TMP||100
ZLI|1||20130612|A|||||V06.6|20130609|||||p29|||
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-8|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000025527|172175||||19730103|M||^3750510
PV1|1||232101^|||||999990003299669|||||REGULAR DISCHARGE|||||20130607|20130609
DG1|1|ICD|487.1
ZLI|1||20130612|H|||||V06.6|20130609|||||p29|||
ZSR|1|487.1
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-9|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000021903|165332||||19421224|F||^1999919
PV1|1||232101^01|||||999990003299681|||||20130607|
DG1|1|ICD|786.2
DG1|2|ICD|488.12
DG1|3|ICD|488.12
OBX|1|ST|TMP||102
OBX|2|ST|WT||250
OBX|3|ST|HT||65
OBX|4|ST|BMI||41.60|||||20130607
ZLI|1||20130618|A|||||Y||||109|20130608|488.12|||||p29|||
ZSR|1|488.12
ZCV|1|125|20130608
ZCV|1|123|20130608
ZCV|1|109|20130608
MSH|^&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-10|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|99999000021903|165332||||19421224|F||^1999919
PV1|1||232101^|||||999990003299679|||||REGULAR DISCHARGE|||||20130608|20130613
DG1|1|ICD|486.
DG1|2|ICD|079.99

DG1|3|ICD|786.2
OBX|1|ST|TMP||102.5
OBX|2|ST|WT||250
OBX|3|ST|HT||65
OBX|4|ST|BMI||41.60|||||20130608
ZLI|1||20130618|H|Y|20130613||125|123|Y|Y|Y||||109|20130608||488.11||AMANTADINE 100MG
CAP|30||p29||20130608|20130608
ZSR|1|486.
ZSR|2|518.81
ZSR|3|483.0
ZSR|4|488.11
ZPC|109|||||||
ZCV|1|125|20130608
ZCV|1|123|20130608
ZCV|1|109|20130608
MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-11|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000030200|778877||||19600306|F||^4002063
PV1|1||232101^30|||||999990003299687|||||20130608|
DG1|1|ICD|488.12
DG1|2|ICD|488.12
OBX|1|ST|TMP||102.1
OBX|2|ST|WT||169
OBX|3|ST|HT||69
OBX|4|ST|BMI||24.96|||||20130608
ZLI|1||20130618|A|||||488.12||||p29|||
ZSR|1|488.12
MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-12|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000025527|172175||||19730103|M||^3750510
PV1|1||232101^|||||999990003299675|||||20130609|
ZLI|1||20130612|A|||||V06.6|||||V06.6|20130609|||||p29||20130609|
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-13|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000025527|172175||||19730103|M||^3750510
PV1|1||232101^01|||||999990003299666|||||20130611|
DG1|1|ICD|488.12
DG1|2|ICD|488.19
OBX|1|ST|TMP||97
OBX|2|ST|WT||150
OBX|3|ST|HT||60
OBX|4|ST|BMI||29.29|||||20130611
ZLI|1||20130612|A|||||V06.6|20130609||488.12||||p29|||
ZSR|1|488.12
ZSR|2|488.19
ZCV|1|123|20130513
ZCV|1|109|20130423
ZCV|1|149|20130423
ZCV|1|15|20090827
ZCV|1|115|20090827
ZCV|1|15|20081124
MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-14|P^|2.5.1||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000030202|987989||||19680630|M||^4002063

PV1|1||232101^30|||||||999990003299686|||||||20130616|
 ZLI|1||20130618|A|||||144|||||||p29|||20130616|
 ZCV|1|144|20130616
 MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-15|P^|2.5.1|||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|999990000030199|778899|||19901111|M||^-----1
 PV1|1||232101^01|||||||999990003299684|||||||20130617|
 DG1|1|ICD|382.00
 OBX|1|ST|TMP||100.1
 ZLI|1||20130618|A|||||||p29|||
 MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-16|P^|2.5.1|||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|999990000030203|159487|||19850913|F||^-----4002063
 PV1|1||232101^01|||||||999990003299685|||||||20130618|
 ZLI|1||20130618|A|||||125|||||||p29|||20130618
 ZCV|1|125|20130618
 MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-17|P^|2.5.1|||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|999990000030201|885522|||19700109|F||^-----4002063
 PV1|1||232101^80|||||||999990003299688|||||||20130618|
 DG1|1|ICD|466.19
 OBX|1|ST|TMP||104
 OBX|2|ST|WT||190
 OBX|3|ST|HT||67
 OBX|4|ST|BMI||29.76|||||||20130618
 ZLI|1||20130618|A|||||||p29|||
 MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-18|P^|2.5.1|||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|99999000006346|119017|||19150403|F||^-----3787574
 PV1|1||232101^|||||||999990003299691|||||||20130620|
 ZLI|1||20130620|E|||||99.52|Y|Y|||||33|19971029|||||p29|||20130620|
 ZCV|1|140|20110107
 ZCV|1|15|20090813
 ZCV|1|15|20081124
 ZCV|1|15|20061027
 ZCV|1|88|20051027
 ZCV|1|15|20051027
 ZCV|1|15|20051027
 ZCV|1|9|20050827
 ZCV|1|15|20041019
 ZCV|1|88|20031023
 ZCV|1|88|20031023
 ZCV|1|88|20021018
 ZCV|1|88|20011018
 ZCV|1|88|19991020
 ZCV|1|88|19981119
 ZCV|1|88|19971029
 ZCV|1|33|19971029
 ZCV|1|88|19961025
 ZCV|1|88|19951204
 ZCV|1|88|19941213
 ZCV|1|9|19940627
 ZCV|1|88|19931118
 ZCV|1|88|19911016
 ZCV|1|88|19901129
 ZCV|1|88|19891107
 ZCV|1|88|19881108
 ZCV|1|33|19830101
 MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-19|P^|2.5.1|||AL|AL|USA

EVN|A08|20130710121634-0500
 PID|1|99999000001717|105152|||19530717|M|||^^^^^^3787576
 PV1|1||232101^13|||999990003299703|||20130620|
 OBX|1|ST|TMP||99
 OBX|2|ST|WT||200
 OBX|3|ST|HT||70
 OBX|4|ST|BMI||28.70|||20130620
 ZLI|1||20130626|A|||111|Y|||33|19931209|||p29||20130620|
 ZCV|1|111|20130620
 ZCV|1|135|20110817
 ZCV|1|15|20091005
 ZCV|1|15|20081218
 ZCV|1|115|20081218
 ZCV|1|15|20080304
 ZCV|1|15|20061130
 ZCV|1|15|20051110
 ZCV|1|15|20051110
 ZCV|1|15|20041123
 ZCV|1|35|20040513
 ZCV|1|88|20021022
 ZCV|1|88|20011106
 ZCV|1|88|19991019
 ZCV|1|88|19961010
 ZCV|1|88|19951012
 ZCV|1|9|19931209
 ZCV|1|33|19931209
 MSH|^~\&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-20|P^|2.5.1||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|99999000002935|108810|||19600717|F|||^^^^^^3787575
 PV1|1||232101^A1|||999990003299712|||20130621|
 OBX|1|ST|BMI||23.30|||20130507
 ZLI|1||20130701|A|||123|Y|Y|||33|20090324|||p29||20130621|
 ZCV|1|123|20130621
 ZCV|1|127|20091110
 ZCV|1|115|20090921
 ZCV|1|15|20090824
 ZCV|1|33|20090324
 ZCV|1|15|20081211
 ZCV|1|9|19990902
 MSH|^~\&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-21|P^|2.5.1||AL|AL|USA
 EVN|A08|20130710121634-0500
 PID|1|999990000021913|165352|||20020814|F|||^^^^^^3787575
 PV1|1||232101^20|||999990003299698|||20130622|
 OBX|1|ST|TMP||98.6
 OBX|2|ST|WT||40
 OBX|3|ST|HT||49
 OBX|4|ST|BMI||11.71|||20130622
 ZLI|1||20130626|A|||140|||100|20030124|||p29||20130622|
 ZCV|1|140|20130622
 ZCV|1|15|20091116
 ZCV|1|15|20071213
 ZCV|1|10|20070315
 ZCV|1|20|20070315
 ZCV|1|83|20070315
 ZCV|1|21|20070315
 ZCV|1|3|20070315
 ZCV|1|83|20051003
 ZCV|1|15|20041227
 ZCV|1|20|20041227
 ZCV|1|48|20041227
 ZCV|1|10|20041227
 ZCV|1|10|20030919

ZCV|1|3|20030919
ZCV|1|21|20030919
ZCV|1|48|20030919
ZCV|1|100|20030327
ZCV|1|20|20030327
ZCV|1|8|20030327
ZCV|1|20|20030124
ZCV|1|10|20030124
ZCV|1|48|20030124
ZCV|1|100|20030124
ZCV|1|20|20021122
ZCV|1|47|20021122
ZCV|1|10|20021122
ZCV|1|100|20021122
ZCV|1|45|20021017
ZCV|1|8|20020917
MSH|^~&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-22|P^|2.5.1|||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000007677|122988|||19860319|F|||^^^^^^3787574
PV1|1||232101^30|||999990003299706|||20130623|
DG1|1|ICD|487.8
DG1|2|ICD|487.8
OBX|1|ST|TMP||100
OBX|2|ST|WT||300
OBX|3|ST|HT||68
OBX|4|ST|BMI||45.61|||20130623
ZLI|1||20130626|H|||111|Y|Y|Y||33|20130623|||p29||20130623|
ZSR|1|487.8
ZPC|133|780.31|20130623|||519.11|20130623||
ZCV|1|18|20130623
ZCV|1|111|20130623
ZCV|1|123|20130623
ZCV|1|123|20130623
ZCV|1|135|20130623
ZCV|1|140|20130623
ZCV|1|141|20130623
ZCV|1|144|20130623
ZCV|1|149|20130623
ZCV|1|100|20130623
ZCV|1|109|20130623
ZCV|1|133|20130623
ZCV|1|33|20130623
ZCV|1|111|20130623
ZCV|1|111|20130623
ZCV|1|141|20130623
ZCV|1|140|20130623
ZCV|1|144|20130623
ZCV|1|3|20130623
ZCV|1|9|20130623
ZCV|1|111|20130623
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ZCV|1|43|20130623
ZCV|1|62|20130623
ZCV|1|118|20130623
ZCV|1|111|20130623
ZCV|1|141|20130623
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ZCV|1|109|20130623
ZCV|1|149|20130623
ZCV|1|140|20130623
ZCV|1|140|20130623
ZCV|1|111|20130623

ZCV|1|149|20130623
ZCV|1|111|20130623
ZCV|1|141|20130623
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ZCV|1|111|20130623
ZCV|1|135|20130623
ZCV|1|33|20130623
ZCV|1|100|20130623
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ZCV|1|133|20130623
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ZCV|1|8|20130623
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ZCV|1|8|20130623
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ZCV|1|141|20130623
ZCV|1|133|20130623
ZCV|1|133|20130623
ZCV|1|149|20130623
ZCV|1|149|20130623
ZCV|1|111|20130623
ZCV|1|33|20130623
ZCV|1|15|20090925
ZCV|1|115|20080905
ZCV|1|45|19980421
ZCV|1|45|19971210
ZCV|1|3|19971210
ZCV|1|45|19971105
ZCV|1|2|19900614
ZCV|1|1|19900614
ZCV|1|17|19900614
ZCV|1|1|19871105

ZCV|1|2|19871105
ZCV|1|3|19871105
ZCV|1|1|19861124
ZCV|1|2|19861124
ZCV|1|1|19860605
ZCV|1|2|19860605
MSH|^~\&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-23|P^|2.5.1|||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000029571|176224|||19700603|F|||^^^^^^2499924
PV1|1||232101^01|||999990003299694|||20130624|
OBX|1|ST|TMP||98.7
OBX|2|ST|WT||140
OBX|3|ST|HT||69
OBX|4|ST|BMI||20.67|||20130624
ZLI|1||20130624|A|||Y|||109|20130624|||p29|||
ZPC|109|||
ZCV|1|109|20130624
ZCV|1|115|20130624
ZCV|1|135|20130212
MSH|^~\&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-24|P^|2.5.1|||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000017498|152183|||19971101|F|||^^^^^^3787574
PV1|1||232101^30|||999990003299701|||20130625|
DG1|1||ICD|478.9
OBX|1|ST|TMP||100
ZLI|1||20130626|A|||p29|||
ZCV|1|15|20091120
ZCV|1|127|20091120
ZCV|1|15|20071019
ZCV|1|83|20070327
ZCV|1|83|20060919
ZCV|1|15|20051028
ZCV|1|20|20020110
ZCV|1|10|20020110
ZCV|1|3|20020110
ZCV|1|20|19990315
ZCV|1|49|19990315
ZCV|1|21|19981215
ZCV|1|10|19981215
ZCV|1|3|19981215
ZCV|1|17|19980616
ZCV|1|45|19980616
ZCV|1|20|19980616
ZCV|1|17|19980407
ZCV|1|10|19980407
ZCV|1|20|19980407
ZCV|1|17|19980204
ZCV|1|10|19980204
ZCV|1|20|19980204
ZCV|1|45|19980106
ZCV|1|8|19971206
MSH|^~\&|RPMS-ILI|1601^HL7.TESTHOSPITAL.ZZZ.IHS.GOV:5001^DNS|ILI|1234^IHS.GOV:5001^DNS|20130710121634-0500||ADT^A08|1601 465-25|P^|2.5.1|||AL|AL|USA
EVN|A08|20130710121634-0500
PID|1|999990000017532|152285|||19971202|F|||^^^^^^3787516
PV1|1||232101^70|||999990003299702|||20130625|
DG1|1||ICD|079.99
OBX|1|ST|TMP||100
ZLI|1||20130626|A|||Y|||100|20010501|||p29|||
ZCV|1|15|20091021
ZCV|1|114|20091021
ZCV|1|83|20090922

ZCV|1|115|20090922
ZCV|1|20|20080822
ZCV|1|83|20080822
ZCV|1|3|20080822
ZCV|1|10|20080822
ZCV|1|100|20010501
ZCV|1|20|19991217
ZCV|1|49|19991217
ZCV|1|10|19990329
ZCV|1|3|19990329
ZCV|1|21|19990329
ZCV|1|20|19980728
ZCV|1|17|19980728
ZCV|1|45|19980728
ZCV|1|17|19980521
ZCV|1|10|19980521
ZCV|1|20|19980521
ZCV|1|2|19980325
ZCV|1|1|19980325
ZCV|1|17|19980325
ZCV|1|45|19980213
ZCV|1|45|19980106
ZHS|9999|T|25|20130709|2010 DEMO HOSPITAL|23210120130709
ZTS|1|20130411|232101|8|0|8
ZTS|2|20130411|555360|0|0|0
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ZTS|9|20130415|232101|0|0|0
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ZTS|11|20130416|232101|0|0|1
ZTS|12|20130416|555360|0|0|0
ZTS|13|20130417|232101|0|0|0
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ZTS|15|20130418|232101|2|0|3
ZTS|16|20130418|555360|0|0|0
ZTS|17|20130419|232101|2|0|2
ZTS|18|20130419|555360|0|0|0
ZTS|19|20130420|232101|0|0|0
ZTS|20|20130420|555360|0|0|0
ZTS|21|20130421|232101|0|1|0
ZTS|22|20130421|555360|0|0|0
ZTS|23|20130422|232101|4|1|4
ZTS|24|20130422|555360|0|0|0
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ZTS|26|20130423|555360|0|0|0
ZTS|27|20130424|232101|5|0|5
ZTS|28|20130424|555360|0|0|0
ZTS|29|20130425|232101|0|0|0
ZTS|30|20130425|555360|0|0|0
ZTS|31|20130426|232101|1|0|1
ZTS|32|20130426|555360|0|0|0
ZTS|33|20130427|232101|0|0|0
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ZTS|37|20130429|232101|0|0|0
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ZTS|39|20130430|232101|0|0|0
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ZTS|41|20130501|232101|0|1|1

ZTS|42|20130501|555360|0|0|0
ZTS|43|20130502|232101|0|1|1
ZTS|44|20130502|555360|0|0|0
ZTS|45|20130503|232101|0|0|0
ZTS|46|20130503|555360|0|0|0
ZTS|47|20130504|232101|0|0|0
ZTS|48|20130504|555360|0|0|0
ZTS|49|20130505|232101|0|0|0
ZTS|50|20130505|555360|0|0|0
ZTS|51|20130506|232101|2|0|7
ZTS|52|20130506|555360|0|0|0
ZTS|53|20130507|232101|3|0|3
ZTS|54|20130507|555360|0|0|0
ZTS|55|20130508|232101|1|0|1
ZTS|56|20130508|555360|0|0|0
ZTS|57|20130509|232101|0|0|0
ZTS|58|20130509|555360|0|0|0
ZTS|59|20130510|232101|3|1|3
ZTS|60|20130510|555360|0|0|0
ZTS|61|20130511|232101|0|0|1
ZTS|62|20130511|555360|0|0|0
ZTS|63|20130512|232101|0|0|0
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ZTS|65|20130513|232101|0|0|1
ZTS|66|20130513|555360|0|0|0
ZTS|67|20130514|232101|0|0|0
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ZTS|69|20130515|232101|0|2|0
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ZTS|71|20130516|232101|1|0|2
ZTS|72|20130516|555360|0|0|0
ZTS|73|20130517|232101|1|0|1
ZTS|74|20130517|555360|0|0|0
ZTS|75|20130518|232101|0|0|0
ZTS|76|20130518|555360|0|0|0
ZTS|77|20130519|232101|0|0|0
ZTS|78|20130519|555360|0|0|0
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ZTS|85|20130523|232101|1|0|1
ZTS|86|20130523|555360|0|0|0
ZTS|87|20130524|232101|0|0|0
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ZTS|93|20130527|232101|1|0|1
ZTS|94|20130527|555360|0|0|0
ZTS|95|20130528|232101|0|0|0
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ZTS|97|20130529|232101|0|0|0
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ZTS|100|20130530|555360|0|0|0
ZTS|101|20130531|232101|0|0|0
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ZTS|103|20130601|232101|0|0|0
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ZTS|105|20130602|232101|1|0|1

ZTS|106|20130602|555360|0|0|0
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ZTS|108|20130603|555360|0|0|0
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ZTS|113|20130606|232101|0|1|1
ZTS|114|20130606|555360|0|0|0
ZTS|115|20130607|232101|2|1|3
ZTS|116|20130607|555360|0|0|0
ZTS|117|20130608|232101|1|1|1
ZTS|118|20130608|555360|0|0|0
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ZTS|120|20130609|555360|0|0|0
ZTS|121|20130610|232101|0|0|0
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ZTS|123|20130611|232101|1|0|1
ZTS|124|20130611|555360|0|0|0
ZTS|125|20130612|232101|0|0|0
ZTS|126|20130612|555360|0|0|0
ZTS|127|20130613|232101|0|0|1
ZTS|128|20130613|555360|0|0|0
ZTS|129|20130614|232101|0|0|2
ZTS|130|20130614|555360|0|0|0
ZTS|131|20130615|232101|1|0|1
ZTS|132|20130615|555360|0|0|0
ZTS|133|20130616|232101|1|0|1
ZTS|134|20130616|555360|0|0|0
ZTS|135|20130617|232101|1|0|1
ZTS|136|20130617|555360|0|0|0
ZTS|137|20130618|232101|3|0|3
ZTS|138|20130618|555360|0|0|0
ZTS|139|20130619|232101|0|0|0
ZTS|140|20130619|555360|0|0|0
ZTS|141|20130620|232101|2|0|2
ZTS|142|20130620|555360|0|0|0
ZTS|143|20130621|232101|0|0|1
ZTS|144|20130621|555360|0|0|0
ZTS|145|20130622|232101|1|0|1
ZTS|146|20130622|555360|0|0|0
ZTS|147|20130623|232101|0|1|0
ZTS|148|20130623|555360|0|0|0
ZTS|149|20130624|232101|1|0|1
ZTS|150|20130624|555360|0|0|0
ZTS|151|20130625|232101|4|0|4
ZTS|152|20130625|555360|0|0|0
ZTS|153|20130626|232101|1|0|1
ZTS|154|20130626|555360|0|0|0
ZTS|155|20130627|232101|0|0|0
ZTS|156|20130627|555360|0|0|0
ZTS|157|20130628|232101|1|0|1
ZTS|158|20130628|555360|0|0|0
ZTS|159|20130629|232101|0|0|0
ZTS|160|20130629|555360|0|0|0
ZTS|161|20130630|232101|0|0|0
ZTS|162|20130630|555360|0|0|0
ZTS|163|20130701|232101|2|0|2
ZTS|164|20130701|555360|0|0|0
ZTS|165|20130702|232101|1|0|1
ZTS|166|20130702|555360|0|0|0
ZTS|167|20130703|232101|0|0|0
ZTS|168|20130703|555360|0|0|0
ZTS|169|20130704|232101|0|0|0

ZTS|170|20130704|555360|0|0|0
ZTS|171|20130705|232101|0|0|0
ZTS|172|20130705|555360|0|0|0
ZTS|173|20130706|232101|0|0|0
ZTS|174|20130706|555360|0|0|0
ZTS|175|20130707|232101|0|0|0
ZTS|176|20130707|555360|0|0|0
ZTS|177|20130708|232101|0|0|0
ZTS|178|20130708|555360|0|0|0
ZTS|179|20130709|232101|0|0|0
ZTS|180|20130709|555360|0|0|0