RESOURCE AND PATIENT MANAGEMENT SYSTEM

iCare Population Management GUI

(BQI)

Patch 1 Addendum

Version 2.1 Patch 1
June 2011

Office of Information Technology (OIT)
Division of Information Resource Management
Albuquerque, New Mexico

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1.0   Introduction

This addendum to iCare Population Management GUI Version 2.1 describes the changes made in Patch 1. This patch adds the ability to export Community Alert data as a disease surveillance system. Disease surveillance in this case refers to the collection of information on the Centers for Disease Control (CDC) Nationally Notifiable Disease (NND) activity and suicide behavior activity. This information allows epidemiologists to:

- Assist Service Units with their clinical responses

- Guide disease mitigation measures, such as school closures and other mitigation techniques

- Plan deployment of assets, such as personal protective equipment and antiviral medicines, from the Strategic National Stockpile

BQI v2.1 patch 1 delivers the ability to send a facility's iCare Community Alert information to the Indian Health Service (IHS) Division of Epidemiology and Disease Prevention in Albuquerque for analysis. This will be performed automatically as part of the iCare Nightly Job.

2.0   New Functionality

2.1   Export

When iCare Nightly Background job runs, it will create an export file that will reside in the site's export directory. The export directory is defined in the Resource and Patient Management System (RPMS) SITE file, field FILE EXPORT PATH. If there is no export path found, then the export directory will be determined from the DEFAULT DIRECTORY FOR HFS field in the KERNEL SYSTEM PARAMETERS file.

The export file will contain a header record identifying the facility and the number of records being sent in the file. If there are no records, the header record will identify the facility and a count of zero. Each record will be unique by patient and community alert type. A record will only be sent once to eliminate duplicates.

The export record can be in comma delimited format or HL7 format.

Comma Delimited Position	Community Alert National Electronic Surveillance (CANES)	HL7 Mapping
1	Unique Patient Key (15 digits), defined as the database ID (5 digits) concatenated with the DFN of the patient (left zero filled to 10 digits)	PID-2
2	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-3
3	The gender of the patient: M or F	PID-6
4	DOB of the patient in DDMMMYYYY format (e.g., 17JAN1987)	PID-7
5	Age	ZID-1/1
6	Age Units	ZID-1/2
7	Patient Street Address	PID-11/1
8	Patient City	PID-11/3
9	Patient State	PID-11/4
10	Patient Zip Code	PID-11/5
11	Patient County	PID-11/9

Comma Delimited Position	Community Alert National Electronic Surveillance (CANES)	HL7 Mapping
12	Current Community of Residence of the Patient. State–County-Community code is passed.	PID-11/8
13	Race	PID-10
14	Ethnicity	PID-22
15	The ASUFAC of the location of encounter.	PV1-3
16	The date of the visit in DDMMMYYYY format.	PV1-44
17	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.	PV1-19
18	Diagnosis that meets the Community Alerts Definition–ICD9 Code	DG1-3/1
19	Diagnosis Narrative–(e.g. Measles, Mumps, Malaria, Cholera, West Nile Virus, etc.)	DG1-3/5
20	Alert Type–CDC NND	DG1-3/6
21	Group - Mandatory, Required, or Optional	DG1-3/4
22	The date the visit was last modified in DDMMMYYYY format.	ZLI-3
23	Highest Temperature=TMP	OBX-3 for identifier OBX-5 for result
24	Vital Signs Respiratory Rate=RS Blood Pressure=BP BMI=BMI Pulse Rate=PU Height=HT Weight=WT	OBX-3 for identifier OBX-5 for result

2.1.1   HL7 Sample

```
MSH|^~\&|RPMS-CANES|497^HL7.DEMO-
HO.IHS.GOV:5001^DNS|CDC|^:9901^DNS|20110218094652-
0600||ADT^A08|497 102-1|P^|2.5|||AL|AL|USA
EVN|A08|20110218094632-0600
PID||162800000016175|118487|||M|19550807||||PO BOX
228^^ALBERTA^MN^56670^^^2704067^BELTRAMI
PV1|||113201|||||||||||||||162800002206174|||||||||||||||||||||||20110217
DG1|1||060.9^^^M^Yellow Fever^CDC NND
```

```
OBX|1|ST|TMP||102.4||||||R
OBX|2|ST|BMI||33.45025943938541921||||||R
OBX|3|ST|PU||75||||||R
OBX|4|ST|RS||30||||||R
OBX|5|ST|BP||135/90||||||R
OBX|6|ST|HT||68||||||R
OBX|7|ST|WT||219.999289254||||||R
ZID|55^YRS
ZLI|||20110217
```

2.1.2   Comma Delimited Sample

```
18FEB2011,1,DEMO HOSPITAL
162800000016175,118487,M,07AUG1955,55,YRS,PO BOX
228,ALBERTA,MN,56670,BELTRAMI,2704067,,,113201,17FEB2011,162800002
206174,060.9,Yellow Fever,CDC
NND,M,17FEB2011,102.4,BMI=33.45025943938541921;PU=75;RS=30;BP=135/
90;HT=68;WT=219.999289254
```

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

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