

IT Support of the SSI Surveillance Program

Information Systems and
Standards Team 2, HAITS

24-Aug-2010

Brief History and Milestones

- Since 2002
 - Modified from FoxPro Program of QMH
 - Converted to Web Based System

 - 2006:
 - Interface to HA Hong Kong Patient Master Index (HKPMI) to retrieve patient demographics

 - 2007:
 - Interface to HA Electronic Patient Record (ePR) to retrieve OT information and Lab results

 - 2010:
 - Interface to HA Surgical Outcomes Monitoring and Improvement Program (SOMIP)
-

Facts

□ Current Status:

- Rollout to 19 HA hospitals
 - Around 190,000 Records
 - Around 60,000 with Complication Results
 - Around 17,000 with Lab Result
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System Workflow

- ❑ Daily Retrieve OT Record Listing
 - ❑ Add OT Record to SSI
 - ❑ ICN nurses update the investigation
 - ❑ ICN nurses can generate ad-hoc reports for local use
 - ❑ Regularly pass anonymous data to ICB for KPI reporting
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System Functions and Features

- ❑ Daily OT Listing
 - ❑ Reports based on different aspects
 - ❑ Surgeon
 - ❑ Team
 - ❑ Core Surgeries
 - ❑ Data Export
 - ❑ Charting
-

Screenshots

ASA SCORE : 2 Lap Converted : MESH : N

BLOOD LOSS (MLS) : 10

PUS : Y

WBC : +

TIME OF INCISION : [dd/mm/yy hh:mm]

ICD9

ASA SCORE

BLOOD LOSS (MLS)

PUS

WBC

TIME OF INCISION

DATE TEST

(1) 13/08/2

(2) 13/08/2

(3) 13/08/2

(4) 13/08/2

(5) 13/08/2

(6) 13/08/2

(7) 13/08/2

(8) 13/08/2

(9)

(10)

Add Lab Record

CAUSATIVE : 1

CUSTOM FIELD 1:

Done

Local intranet % 100%

SSI - Windows Internet Explorer

LAB DATA

Date: (From) 03/08/2010 [dd/mm/yyyy] (To) 24/08/2010 [dd/mm/yyyy] Reset Search

SELECT	DATE TEST	LAB NO	TEST	SPECIMEN	RESULT
<input checked="" type="checkbox"/>	13/08/2010	MB301	Gram Stain	Wound swab, superficial	Gram negative bacilli seen
<input checked="" type="checkbox"/>	13/08/2010	MB301	Gram Stain	Wound swab, superficial	Gram positive cocci seen
<input checked="" type="checkbox"/>	13/08/2010	MB301	Pus cells	Wound swab, superficial	Present (+)
<input checked="" type="checkbox"/>	13/08/2010	MB301	Culture	Wound swab, superficial	Pseudomonas aeruginosa
<input checked="" type="checkbox"/>	13/08/2010	MB301	Culture	Wound swab, superficial	Proteus species
<input checked="" type="checkbox"/>	13/08/2010	MB301	Culture	Wound swab, superficial	Enterococcus faecalis
<input checked="" type="checkbox"/>	13/08/2010	MB301	Culture	Wound swab, superficial	Pseudomonas aeruginosa
<input checked="" type="checkbox"/>	13/08/2010	MB301	Culture	Wound swab, superficial	Methicillin resistant Staphylococcus aureus

Add Selected Lab Data

BODY TEMPERATURE : []

ERYTHEMA : INDETERMINED []

INF. TYPE : []

y hh:mm]

RESULT	LAB NO.

INTRAVENOUS INFECTION N PHLEBITIS N RED N SWOLLEN N PUS N

LINE: TOTAL PERI INFECTION : N ORGANISM : []

TOTAL CVP INFECTION : N ORGANISM : []

TOTAL SWAN GANZ INFECTION : N ORGANISM : []

TOTAL LINE

Screenshots

Wound Records
Downloads
Reports

OT RECORD LIST

Hospital: _____

OT Date: (From) _____

Unit: GY

HOSPITAL - SUR UNIT [CONFIDENTIAL]

CORE SURGERIES SSI RATES - BY OPERATIVE PROCEDURE AND RISK INDEX CATEGORY

FOR THE PERIOD OF Jan/2010 To Mar/2010

6 Record(s) Found.

✓ ✕	0
<input type="checkbox"/> Add	23/08/2

IFAD version

STATISTICS FOR CONTROL

Report Type: Infection

Unit Code: SUR

From OT Date: 01/01/2009 To OT Date: 30/09/2009

Date Unit: Month

View Print Export Clear

OPERATIVE PROCEDURE CATEGORY	DURATION CUT PC
APPY Appendectomy	
APPY Appendectomy	
CHOL Gall bladder surgery	

Control Chart

Time	Infection (Total)	Mean	UCL	LCL
2009 Jan	4	1.78	5.78	0
2009 Feb	1	1.78	5.78	0
2009 Mar	2	1.78	5.78	0
2009 Apr	0	1.78	5.78	0
2009 May	0	1.78	5.78	0
2009 Jun	2	1.78	5.78	0
2009 Jul	4	1.78	5.78	0
2009 Aug	2	1.78	5.78	0
2009 Sep	1	1.78	5.78	0

Screenshots

SEARCH FOR WOUND RECORDS [LEAVE BLANK WHEN SEARCH FOR ALL]

UNIT :

HN NO. : NAME : HKID :

ADM DATE : [dd/mm/yyyy] TO : [dd/mm/yyyy] DAY SURG. : OT TYPE : LAPRO.: STATUS:

OT DATE : [dd/mm/yyyy] TO : [dd/mm/yyyy] OTN :

TEAM : SURGEON : WD CLASS :

15 Record(s) Found

Unit	HN	Name	HOID	Sex	Age	Age Unit	Adm Date	OT Date	OT Type	Team	Surgeon	Wd Class	Wd No	Status	Copy	Edit	Delete
<input type="checkbox"/>	ORT HN			M	65	Y	09/08/2010	10/08/2010	Elective	B	KV	2	1	Pending	Copy	Edit	Delete
<input type="checkbox"/>	ORT HN			M	52	Y	09/08/2010	11/08/2010	Elective	B	LO	3	1	Pending	Copy	Edit	Delete
<input type="checkbox"/>	ORT HN			M	92	Y	06/08/2010	11/08/2010	Elective	B	LO	6	1	Pending	Copy	Edit	Delete
<input type="checkbox"/>	ORT HN			M	56	Y	04/08/2010	11/08/2010	Emergency	A	YE	2	1	Pending	Copy	Edit	Delete
	CBGC	CABG -chest only	5	n	is	Mar 20		IPM r		Mar 2	6PM	Edit	AM	Edit	IM	Edit	
	CHOL	Cholecystectomy	2	h	is	Mar 20		IPM t		Mar 2	6PM	Edit	AM	Edit	IM	Edit	
	COLO	Colon surgery	3	h	is	Mar 20		IPM r		Mar 2	6PM	Edit	AM	Edit	IM	Edit	
	CRAN	Craniotomy	5	h	is	Mar 20		IPM t		Mar 2	6PM	Edit	AM	Edit	IM	Edit	
	CSEC	Cesarean section	1	h	is	Mar 20		IPM t		Mar 2	6PM	Edit	AM	Edit	IM	Edit	
	ENTRY KI	KV		Enable	td	Jun		PM		td	Jun		PM	Edit	AM	Edit	
	ENTRY LE	Le		Enable	td	Ma		PM			Mar		AM	Edit	IM	Edit	
	ENTRY LL	LU		Enable	td	Se		IPM			Jan		IM	Edit	AM	Edit	
	ENTRY YL	Yu		Enable	td	Ma		PM			Jun		IM	Edit	AM	Edit	
	ITD KI	KV		Enable	td	Fe		PM			Feb		PM	Edit	AM	Edit	

Administrations

Group Information

Access

Edit Page Password

Record

Edit

Edit

Edit

Edit

Updated Dtm

Edit

Add a new record

IM Edit

PM Edit

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Role of IT in SSI

- ❑ Provide user-friendly and convenient platform for ICN nurses for daily data entry and surveillance process
 - ❑ Work with CICO for NHSN Core Procedures for KPI Reporting
 - ❑ Facilitate data processing mechanism to ICB
 - ❑ Assist in regular reporting exercise
 - ❑ Trouble-shooting of issues
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End

Thank you
