



The Global Language of Business

GS1 Healthcare Provider Advisory Council Webinar

Implementing GS1 Standards for Patient and Asset tracking at the Galway Clinic using passive RFID

Mark Sheehan, Business Development Manager, Galway Clinic, Ireland

8th October 2015

HPAC Case Study Webinars

This is the 14th Webinar

Implementing GS1 Standards for Patient and Asset tracking at the Galway Clinic using passive RFID

Mark Sheehan, Business Development Manager

Galway Clinic
Ireland



RFID in Healthcare



What is RFID?

- Sophisticated Barcode
- Utilises radiofrequency



Why Use RFID? Patient Safety & Analytics

- Year of the Patient journey
- Right Patient - right procedure
- Perimeter alarms
- Patient Location
- Patient Tracking

R.F.I.D. TECHNOLOGY



CLASS

Clinical Laboratory
Automated Stockroom System



31/01/2013

LOT: f2462409

EPC:

306E02B329200040000000007

133



CARDIOLOGY APPLICATION

BOSTON SCIENTIFIC

J. & J.

METRONIC



GS1



Challenges

- Water and metal!!
- Read range
- Cost
- ROI



Asset Tracking

- CSSD and areas involving manual counting.
- Product Recalls: Depuy case
- Automated Stock Taking: Twinbin project







Staff

- Automation: Car park, TMS, Doors, Fire, Restaurant, who performed procedures
- Automated data entry
- Find a specialist
- Identify yourself to the patient
- Find equipment
- Find patients
- Track at risk patients





mit Date: 27/03/2015 DOB: 1
Doctor
OCKFERHY
SSCAHILL

MRC
GC00



CO GALWAY

Mr.

Location A

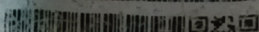
Oct. 20 Saturday

17:00



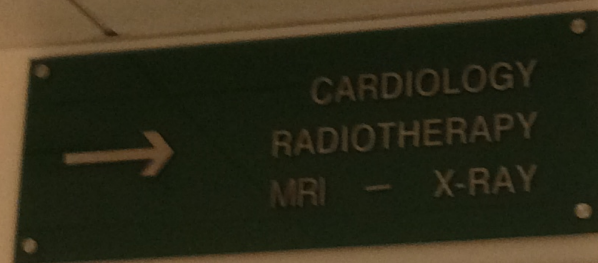
Candy A 5mg

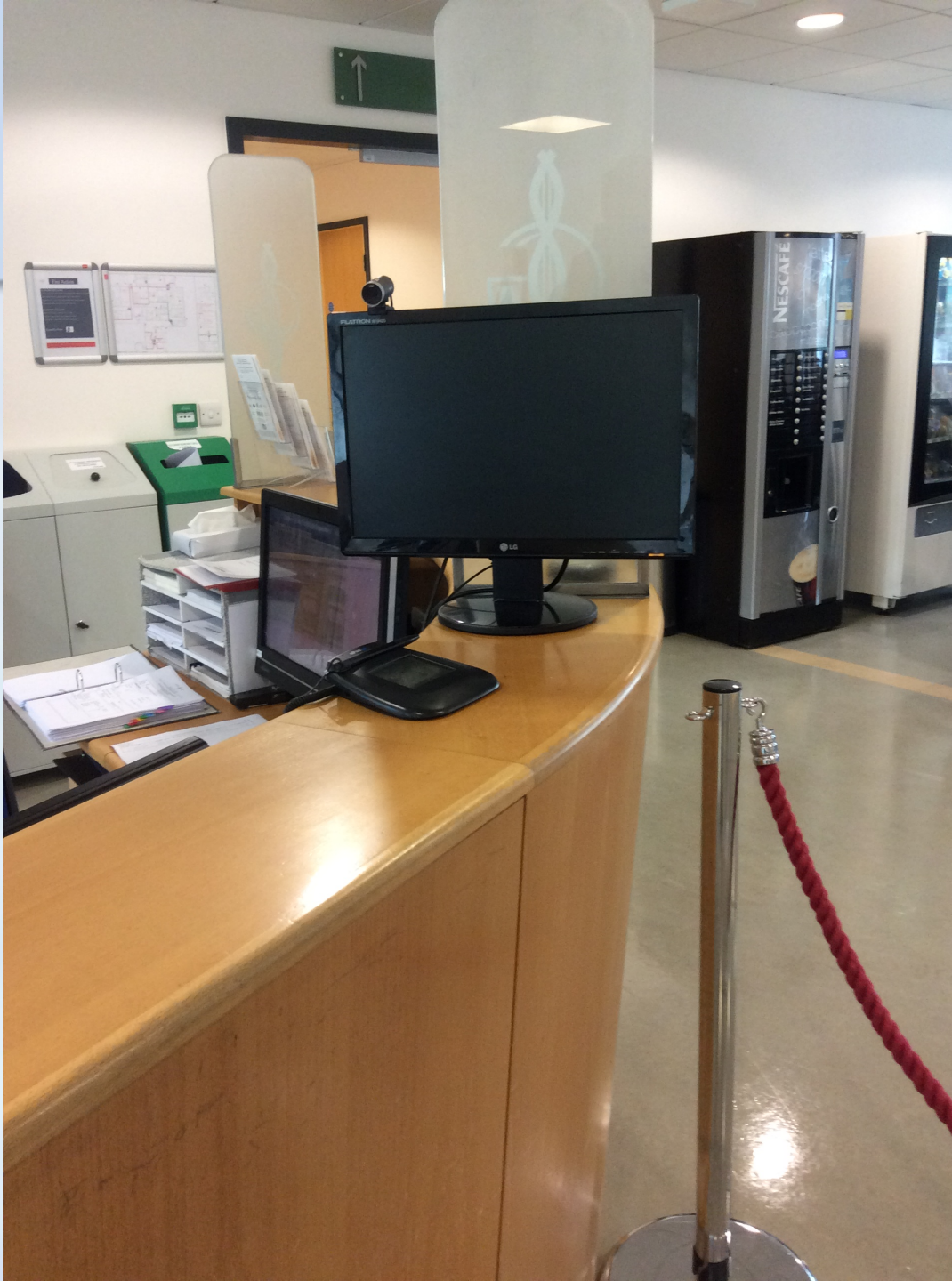
Candy B 10mg



TOSHIO
Your best pharmacy solution









Today in GC

- Unique patient wristband: just 1
- Outpatient Identity card
- Certain assets, soon all
- First using this combination of technology that I have seen

RFID infrastructure

Antennae



Passive UHF RFID wristbands



- System Configuration
- Maintenance
 - Scan Control
- Associations
- Tag/Card Printing
- Locations
 - Reports
- Search Entity
 - Biomedical Equipment
 - Engineering Equipment
 - Patient
 - Staff
- Create Entity
- About
- Logout

[Staff Search Screen](#) » [Staff List Screen](#) » Staff Edit Screen

Edit Staff

Staff Sub Type *	Staff	
Staff Code *	1235	
Location	RADIOLOGY-OUT	
GS1 ID	5393017.2020000006	<button>Generate</button> <button>Create EPC Tag</button>
Surname *	Sheehan	<button>Location Movements</button> <button>Print Card</button> <button>Print to another PC</button> <button>Tags</button> <button>Delete</button>
Forename	Mark	
Date of Birth *	12/06/1975	
Photo	<div><div></div><div><button>Choose File</button> No file chosen</div></div>	
		<div><div></div></div>
Associated to		
Entity Type	Patient	<button>Edit Association</button>
Entity Subtype	In Patient - Low Risk	<button>Remove Association</button>
Patient Code	MR00115951	
<div><button>Update</button></div>		

Back

← → ↻

192.168.200.8:8081/rfidaerotrack/entity/entitymovementlist.html?entity_id=60613&entity_subtype_id=12&list=Y&backid=P

☆ ≡

Tag/Card Printing

Locations

Reports

Search Entity

Biomedical Equipment

Engineering Equipment

Patient

Staff

Create Entity

About

Logout

Staff Sub Type	Staff
Date/Time First Detected	12/05/2015 08:00:28.539
Date/Time Last Seen	12/05/2015 09:14:39.222
Location	RADIOLOGY-OUT
Time Spent in Current Location	00 01:27:15
Current Status	

Movement List

EPC ID	Date/Time First Detected	RSSI	Location	Time In Location	Sub Type
2D154929E47866C10600000	12/05/2015 08:00:28.539	-68	RADIOLOGY-OUT	00 01:27:15	Staff
2D154929E47866C10600000	12/05/2015 07:57:42.329	-63	PERIM-MAIN1-IN	00 00:02:46	Staff
2D154929E47866C10600000	12/05/2015 07:57:34.671	-58	PERIM-MAIN1-OUT	00 00:00:07	Staff
2D154929E47866C10600000	12/05/2015 07:57:34.010	-65	PERIM-MAIN2-OUT	00 00:00:00	Staff
2D154929E47866C10600000	11/05/2015 14:59:50.429	-64	PERIM-MAIN1-OUT	00 16:57:43	Staff
2D154929E47866C10600000	11/05/2015 14:59:48.523	-59	PERIM-MAIN1-IN	00 00:00:01	Staff
2D154929E47866C10600000	11/05/2015 14:59:40.886	-64	PERIM-MAIN2-IN	00 00:00:07	Staff
2D154929E47866C10600000	11/05/2015 14:59:25.848	-77	RADIOLOGY-IN	00 00:00:15	Staff
2D154929E47866C10600000	11/05/2015 14:58:01.256	-57	RADIOLOGY-OUT	00 00:01:24	Staff
2D154929E47866C10600000	11/05/2015 14:57:57.771	-68	RADIOLOGY-IN	00 00:00:03	Staff
2D154929E47866C10600000	11/05/2015 14:57:50.493	-68	PERIM-AMBUL-IN	00 00:00:07	Staff
2D154929E47866C10600000	11/05/2015 14:48:28.377	-68	CT-OUT	00 00:09:22	Staff
2D154929E47866C10600000	11/05/2015 14:48:18.972	-63	PERIM-AMBUL-IN	00 00:00:09	Staff
2D154929E47866C10600000	11/05/2015 14:48:11.623	-69	RADIOLOGY-IN	00 00:00:07	Staff
2D154929E47866C10600000	11/05/2015 14:47:57.894	-70	RADIOLOGY-OUT	00 00:00:13	Staff
2D154929E47866C10600000	11/05/2015 14:44:35.706	-71	PERIM-MAIN2-IN	00 00:03:22	Staff
2D154929E47866C10600000	11/05/2015 14:44:28.667	-71	RADIOLOGY-IN	00 00:00:07	Staff
2D154929E47866C10600000	11/05/2015 14:43:52.859	-64	RADIOLOGY-OUT	00 00:00:35	Staff
2D154929E47866C10600000	11/05/2015 14:43:24.822	-55	RADIOLOGY-IN	00 00:00:28	Staff
2D154929E47866C10600000	11/05/2015 14:43:18.028	-74	RADIOLOGY-OUT	00 00:00:06	Staff

<< < 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 > >>

Back

09:27

12/05/2015

Richard, welcome to the O'Malley Ward

Today you are being cared for by the following care team:

Currently in the room:

Consultant
Dr James
O'Connell

Doctor
John
Lawless



Remove Assignment

Assign to patient

Team currently assigned to you:

Surgeon
Dr Kate
Asano

Nurse:
Thomas
Hopkins



MRN

00231903B

Patient Name:

Your Room / Bed:

Room 202

Pantry Phone N°:

5961

Estimated Discharge:

Nov, 15th

Date of Birth



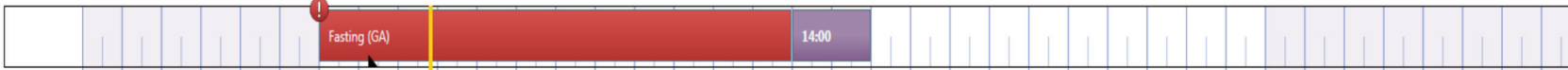
Click to play video

Rate
your
stay:

Assign Richard
to Room 202

Theatre 4

Ureteroscopy [Pref Card]



Endoscopy Theatre

Colonoscopy [Pref Card]



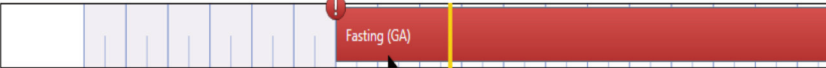
Theatre 4

Ureteroscopy [Pref Card]



MR00199328

Theatre 4
Jreteroscopy [Pref Card]



MR00061773

Indoscopy Theatre
Colonoscopy [Pref Card]



MR00176542

Theatre 4
Jreteroscopy [Pref Card]



Current Location PREOP

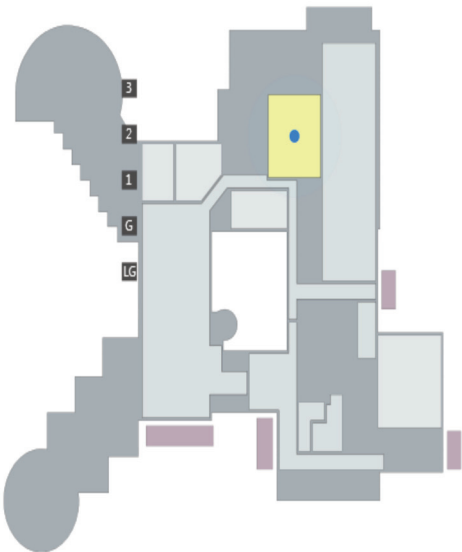
History

09:00
Entered PREOP

08:59
Left Accident and Emergency

08:59
Entered Accident and Emergency

08:58
Left Mother Teresa



MR00199328

301 | 1

Theatre 4

Ureteroscopy [Pref Card]

Fasting (GA)14:00

Mother Teresa

Accident and Emergency

PREOP

F Lx

MR00061773

307 | 1

Endoscopy Theatre

Colonoscopy [Pref Card]

12:00

MR00176542

317 | 2

Theatre 4

Ureteroscopy [Pref Card]

Fasting (GA)08:30

CHW

Chest/Thorax With Contrast

MR000-



7130

Abdomen/Pelvis W/Contrast Onc

MR00-



7128

Ct Thorax,Lungs No Contra Onc



ABDPELVW

Abdomen/Pelvis With Contrast



Fasting

RTW/O

Radiotherapy Without Contrast



MR000

RTW/O

Radiotherapy Without Contrast



Show 1 Related Order

VENOGW

Venogram



MR00-

Cannula

08:30

SIN

Sinuses



MR00

MR000



Tomorrow in GC

- Staff Education
- Twinbin project hospital wide
- CSSD
- More systems integration for safety: PACS
- Meaningful Use
- Big Data



GALWAY CLINIC

Where should I go?

Touch for Directions

Find My Consultant

Find by Suite No.

Accident & Emergency

Admissions

Cardiology

Toilets

Lung Function

Flora's Nightingale Unit
Physiotherapy

Physiotherapy

Prayer Unit

X Ray - Radiology

Intensive Care Unit

Radiotherapy

John Paul II Unit

Restaurant

O'Malley Unit

Stairwell to Suites

Our Lady of Knock Unit
Oncology

Conference Room

Mother Teresa Unit

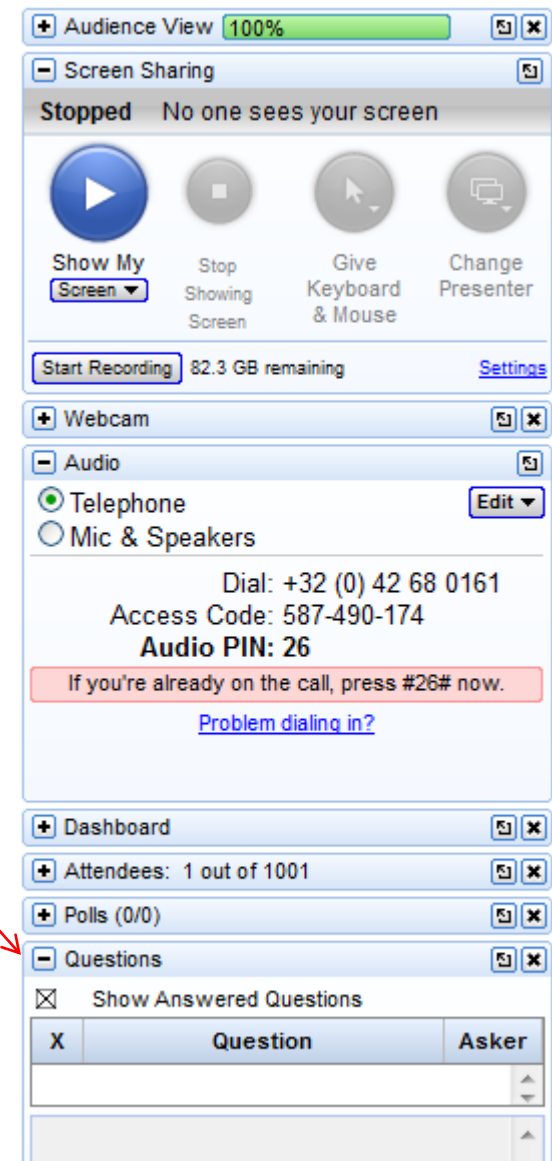
Administration

Parking Play Station

091 83 663 427 ACU

Question & Answers

Please type your question
in the dedicated box



The screenshot shows the Zoom meeting control panel. A red arrow points from the text 'Please type your question in the dedicated box' to the 'Questions' section at the bottom of the panel.

Audience View 100%

Screen Sharing
Stopped No one sees your screen
Show My Screen Stop Showing Screen Give Keyboard & Mouse Change Presenter
Start Recording 82.3 GB remaining [Settings](#)

Webcam

Audio
Telephone Edit
Mic & Speakers
Dial: +32 (0) 42 68 0161
Access Code: 587-490-174
Audio PIN: 26
If you're already on the call, press #26# now.
[Problem dialing in?](#)

Dashboard

Attendees: 1 out of 1001

Polls (0/0)

Questions
☒ Show Answered Questions

X	Question	Asker

Next HPAC Webinar

Implementing GS1 on medical devices in the Operating Room (OR)

Roland van der Loos

Manager Anesthesiology, OR, Sterilization dept. and oncology

AND

Jeroen van Winden

Manager logistics OR

Tweesteden Ziekenhuis, Tilburg, Netherlands

Date: Thursday 12th November 2015

Time: 13:30 GMT

http://www.gs1.org/healthcare/hpac_webinars

