



GS1 Healthcare Webinar

James Mayne, Mr Arthur Stephen, Mr Simon Pickering
University Hospitals of Derby and Burton NHS Foundation, UK
June 16, 2021





GS1 Competition Law Caution

- GS1 operates under the GS1 Competition Law Caution. Strict compliance with competition laws is and always has been the policy of GS1.
- The best way to avoid problems is to remember that the purpose of the group is to enhance the ability of all industry members to compete more efficiently.
- This means:
 - **There shall be no discussion of prices, allocation of customers, or products, boycotts, refusals to deal, or market share**
 - If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.
- The full caution is available via the link below, if you would like to read it in its entirety: <http://www.gs1.org/gs1-anti-trust-caution>

Please identify yourself: Name & organisation

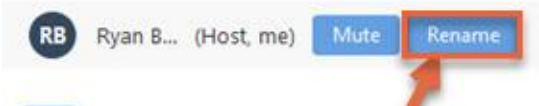
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- 1**

After launching the Zoom meeting, click on the "Participants" icon at the bottom of the window.


- 2**

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- 3**

Type in the display name you'd like to appear in the meeting and click on "OK".



Welcome and thank you for attending!



- Welcome to our June 2021 Healthcare provider webinar.
Thank you to our guest speakers: James Mayne, Mr Arthur Stephen, Mr Simon Pickering from the University Hospitals of Derby and Burton NHS Foundation, UK
- Some housekeeping for today:
 - All attendees will be in listening-only mode
 - If you have questions during the presentation, please type them into the questions area and these will be monitored then answered at the end of the call
- After the webinar:
 - Within a week, the recording will be posted to: http://www.gs1.org/healthcare/hpac_webinars
 - All previous webinars are also posted to this location, so please feel free to use this resource and share the link

GS1 Healthcare Webinars



Create a forum for the global clinical providers to share experiences on using GS1 Standards in healthcare. The final goal: improve patient safety, cost efficiency and staff productivity through the implementation of GS1 standards.

A forum for sharing and discussion

Identification of projects and case studies

A source of expertise and advice

- The practical realities of implementation of GS1 Standards in the care giving environment in regard to the impact on clinical care and patient interaction
- Supporting the adoption of GS1 Standards in healthcare providers and retail pharmacies
- For publication, presentation and sharing
- To those involved in GS1 standards development, the wider healthcare stakeholder community and senior executives/decision-makers to gain their buy-in and support for implementation of GS1 Standards

Specific GS1 Healthcare Activities



Webinars

- Bimonthly webinars open to all stakeholders interested in learning about GS1 standards implementation in the care giving environment.
- http://www.gs1.org/healthcare/hpac_webinars

Awards

- At each F2F global GS1 Healthcare Conference
- Provider Implementation Best Case Study Award
- Provider Recognition Award
- The prize: travel & accommodation to attend the next GS1 Healthcare conference
- <http://www.gs1.org/healthcare/hpac>

GS1 Healthcare organizes global conferences each year. Due to the pandemic, we moved in 2020 to Virtual Events.

The next GS1 Healthcare Virtual Event is scheduled for November 16–18, 2021, we expect significant Healthcare Provider participation on the agenda.

Presenting today



James Mayne,
Programme
Manager and
Scan4Safety Lead



Mr. Arthur Stephen,
Divisional Clinical
Director



Mr. Simon Pickering,
Clinical Director for
Trauma and
Orthopedics

UHDB SCAN4SAFETY Journey

National Joint Registry



University Hospitals of Derby and Burton NHS Foundation Trust
Simon Pickering; Clinical Director Orthopaedics

SCAN  SAFETY

Scan4Safety? Where did we start?

- 2013: Derby implemented point of care scanning
- 2015: DHSC National Programme (Six Trusts)
- 2017: UHDB First Accredited Scan4Safety Site
- 2018: Explored non-theatre environments
- Additional UHDB Sites are in implementation mode

Key



Right Patient

Setting standards to make sure we always have the right patient and know **what** product was used with **which** patient, **when**.



Right Product

Setting standards to make sure our staff have **what** they need, **when** they need it.



Right Place

Setting standards to make sure that patients and products are in the right place.



Right Process

Setting standards and implementing common ways of working to deliver better and more easily repeatable patient care.

Applying GS1 Standards to drive safety



Live across all Derby Theatres;

- **Patient:** Scan Wristband (**GS1 GSRN**)
- **Timers:** Knife to skin, time in recovery
- **Location:** Records locations (**GS1 GLN's**)
- **Staff:** Who is present. (**GS1 GSRN**)
- **Procedure:** Operations linked to OPCS codes
- **In Theatre:** Clinical Questions
- **Anaesthetic:** Type used
- **Devices:** Products, Trays & Implants used (**GS1 GTIN's**)
Including Lot, Batch and expiry data
- **Inventory:** Enables automatic ordering / PLICS Feeds
- **Reporting :** By using standards its easy to link this data to other relevant data for more comprehensive reporting.



Using GS1 standards helps to improve traceability across the sector through the unique identification of every **person**, every **product** and every **place** across the sector.

Revision of a total knee replacement

h-trak Report

Patient Ref: [REDACTED]

Procedure Date: 23-03-2021

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Patient Class:	NHS	Facility:	DCORTH7
Operation Type:	Elective	Facility Cost:	20.00
		Hand Held User:	Rogan [REDACTED]

Procedure Codes					
Procedure	Item Codes	Theatre Band	Band Amount	Hand Held User	Scan Date/Time
LEFT	Z94.3			Rogan [REDACTED]	23-03-2021 08:35:00
KNEE JOINT	Z84.6			Rogan [REDACTED]	23-03-2021 08:35:00
REVISION OF CEMENTED KNEE	W40.3			Rogan [REDACTED]	23-03-2021 08:35:00

Procedure Timing				
Timing Point Name	Date & Time Stamp	Hand Held/HRS User	Facility Usage Duration	Procedure Duration
Anaesthetic Start	23-03-2021 11:22:00	Rogan [REDACTED]	(HH:MM:SS)	(HH:MM:SS)
Into Theatre	23-03-2021 12:07:00	Rogan [REDACTED]	03:48:00	02:37:00
Start of Procedure	23-03-2021 12:25:00	Rogan [REDACTED]		
Cement curfew start	23-03-2021 15:24:00	Rogan [REDACTED]		
Cement curfew finish	23-03-2021 15:24:00	Rogan [REDACTED]		
End of Procedure	23-03-2021 15:02:00	Rogan [REDACTED]		
Tray to Wagon	23-03-2021 15:24:00	Rogan [REDACTED]		
Out of Theatre	23-03-2021 15:10:00	Rogan [REDACTED]		

Attending Staff				
Staff ID	Staff Name	Staff Type	Staff Role	Duration
10710443	Pickering, Simon	Consultant	Patients Consultant	03:48:00
23555069	Burch, [REDACTED]	Anaesthetist	Anaesthetist 1	03:48:00
24252955-2	Kerr, N	Registrar	Registrar	03:48:00
25394367	Rogan [REDACTED]	HCA	Circulator	03:48:00
25398161	Bell, C	Theatre Practitioner	Anaesthetics	03:48:00
26464672	Barnet [REDACTED]	Theatre Practitioner	Circulator	03:48:00
27544952	Rowland [REDACTED]	Theatre Practitioner	Scrub Practitioner	03:48:00

Affix Patient Label Here

Patient Ref: [REDACTED]

Procedure Date: 23-03-2021

Hospital: Royal Derby Hospital

Department: Trauma & Orthopaedics

SCAN SAFETY

Revision of a total knee replacement

h-trak Report **Patient Ref:** [REDACTED] **Procedure Date:** 23-03-2021 **Page 2 of 3**

Anaesthetic			
AnaestheticKey	AnaestheticDescription	Hand Held User	Scan Date/Time
SPINAL	Spinal Block	[REDACTED]	23-03-2021 11:23:00

Time Out Questions			
Time Out Question	Answer	Hand Held User	Answer Date/Time
Delay Reasons	No delay to procedure	Rogan, Danielle	23-03-2021 15:24:00
Outcome	Completed as planned	Rogan, Danielle	23-03-2021 15:24:00

Products Used								
Item No.	Supplier Product Code	Description	Qty	Price	Consumption Type	Lot No.	Expiry Date	Ext. Price
1	03AG004403	Total Knee Replacement Instruments	1	33.40	Normal	266383427		33.40
2	1071864	DRAPE EXTREMITY ARMBORD COVERS	1	0.83	Normal			0.83
3	2108183000	SAGITTAL BLADE - WIDE	1	17.00	Normal	20278017	01-10-2025	17.00
4	5512F301	TRIATHLON-TS FEMUR #3 LT	1	1,888.80	Normal	E343D	18-11-2024	1,888.80
5	5521B300	TRIATHLON UNIVERSAL BP #3	1	772.80	Normal	GVT7EA	30-09-2025	772.80
6	5532-G-316-E	Posterior stabilised fixed bearing - Triathlon ps tibial insert x3 16mm size 3	1	193.55	Normal	A75T1J		193.55
7	5540A301	TRI TS FEM DIST AUG #3 5MM LT	1	531.20	Normal	BOO7B	16-04-2023	531.20
8	5541A301	TRI TS FEM DIST AUG #3 10MM LT	1	531.20	Normal	BZY9O	29-08-2023	531.20
9	5543A300	TRI TS FEM POST AUG #3 5MM	2	531.20	Normal	QGB7D	23-08-2025	1,062.40
10	5550L278	TRIATHLON SYM PATELLA 27X8 N2V	1	75.27	Normal	LJR310	18-11-2024	75.27
11	5560S109	TRIAT TS CEM STEM 9MM X 50MM	1	508.80	Normal	0109875D	18-10-2025	508.80
12	5560S112	TRIAT TS CEM STEM 12MM X 50MM	1	508.80	Normal	0104107H	12-12-2024	508.80
13	66017569	PALACOS R&G 2 x 40G,	4	55.50	Normal	95694960	31-01-2024	222.00
14	963203000	HARDINGE FEM CEM RESTR 10 PK	2	10.13	Normal	D20090730	31-08-2025	20.25
15	FGS525	REFLEX SKIN STAPLR 35 WIDE 6/BX	1	4.20	Normal			4.20
16	FTE892	Biogel Surgeons 6.5	3	1.15	Normal			3.45
17	FTE896	Biogel Surgeons 8.5	4	1.15	Normal			4.60
18	FVU351	VICRYL VIO 75CM M3.5 USP0 SGLE ARMED V-34	1	1.60	Normal	QGBCBQS0	30-11-2025	1.60

Affix Patient Label Here

Revision of a total knee replacement

Affix Patient Label Here

h-trak Report

Patient Ref: [REDACTED]

Procedure Date: 23-03-2021

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Item No.	Supplier Product Code	Description	Qty	Price	Consumption Type	Lot No.	Expiry Date	Ext. Price
19	FVU370	VICRYL VIO 75CM M4 USP1 SGLE ARMED V-39	2	2.17	Normal	QLBDGCW0	31-03-2026	4.33
20	KD021803002	Mayo Table	1	5.46	Normal	266403306		5.46
21	KE035218002	Femoral Component extractor - Ortho Theatre	1	19.75	Normal	266337116		19.75
22	OSS-6275	RECIPROCATING BLADE 70.0MM X 12.7MM X 0.64MM	1	19.27	Normal	326151	01-04-2024	19.27
23	S56-507	SAGITTAL BLADE	1	32.30	Normal	95450	31-08-2024	32.30
24	SU00242738	Hardinge Restrictor	1	1.98	Normal	266337053		1.98
25	U02924TR0263941003	Renovation Femoral Instrument Tray (Ortho Th)	1	17.04	Normal	266148018		17.04
26	U02924TR0270868006	Heraeous Palamix Cement Gun	1	5.57	Normal	265210836		5.57
27	U02924TR0437618004	Triathlon PS 3-6 Trials (Consignment) - Ortho Theatre	1	20.17	Normal	266222342		20.17
28	U02924TR0437740002	Triathlon Patella (Consignment) - Ortho Theatre	1	11.15	Normal	266096980		11.15
29	U02924TR0467541003	Stryker System 7 - Ortho Theatre	1	11.15	Normal	266411474		11.15
30	U02924TR0744367001	Stryker System 7 Reciprocating Saw - Ortho Theatre	1	5.57	Normal	266336873		5.57
31	U02924TR0746382002	Precision Chisel & Blade Set - Ortho Theatre	1	11.15	Normal	266337161		11.15
32	U02924TR0948720002	Triathlon PS Inserts - 16mm & 19mm - Ortho Theatre	1	20.17	Normal	265018437		20.17
33	U02924TR1000213001	Triathlon TS Stem Trials - Ortho Theatre	1	18.90	Normal	266336312		18.90
34	U02924TR1000325001	Triathlon TS Size 9-21 IM Reamers - Ortho Theatre	1	21.81	Normal	266336327		21.81
35	U02924TR1000379001	Triathlon TS Miscellaneous Inst - Ortho Theatre	1	28.35	Normal	266336147		28.35
36	U02924TR1000387001	Triathlon TS 3-6 Femoral Prep & Trials - Ortho Theatre	1	50.16	Normal	266336104		50.16
37	U02924TR1000399001	Triathlon TS 3-6 Revision Inst & Augment Trials - Ortho Theatre	1	27.63	Normal	266374642		27.63
Product Totals			48					6,712.06

Name: _____

Signature: _____

Patient Ref: [REDACTED]


Procedure Date: 23-03-2021

Hospital: Royal Derby Hospital

Department: Trauma & Orthopaedics

SCAN SAFETY

hTrak Mock Recall – Patient identification

 h-trak Resource System

chris.roe
Derby-ORTHO-THEATRES

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Procedure Reports

Procedure List

Procedure Details

Product Usage

Implantable Device Usage Report

Procedure Timers Report

Procedure In Theatre Report

Product Usage Report for Royal Derby Hospital - Trauma & Orthopaedics from 01-01-2021 to 08-06-2021

Product Total(s)

Qty	6
Cur.	GBP
Ext. Price	451.62

Searched Lot Number
= LJR310

Patient Ref Here

Summarised Report only for SPC: 5550L278

Item No.	[+]	Supplier	Contract	SPC	Description	Qty	Trust Product Code	Account Code	Category	Cur.	Price	Patient Ref	Procedure
1	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		04-05-2021
2	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		13-05-2021
3	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		15-04-2021
4	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		23-03-2021
5	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		25-05-2021
6	①	Stryker UK Ltd	PRu.1	5550L278	TRIATHLON SYM P...	1	5550L278	MS30250	FQN	GBP	75.27		26-04-2021

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Email Report

Mock recall Patient

* As part of the report, one of Baroness Cumberlege's recommendations calls for the creation of a [national implant database](#), which would rely on the ability to identify, record and trace any device implanted into a patient on any given date.



National Joint Registry

www.njrcentre.org.uk

Working for patients, driving forward quality

NJR - Background

- Established in 2002 following 3M hip
- Healthcare Quality Information Partnership
- Collects data about
 - Hips
 - Knees
 - Shoulder
 - Elbows
 - Ankles
- NHS and Independent Sector Healthcare
- Large register - 2.8 million records
- Highlights when surgery not working well
- Surgeons can review their own and peers outcome data



NJR - Data Entry at UHDB

- Via a web-based data entry application 'Manual'
- Primary and revision procedures include:
 - Patient demographics and identifiers
 - Operation details
 - Surgeon Details
 - Procedure details, e.g. side, indications for surgery
 - Surgical approach
 - Thromboprophylaxis
 - Untoward events
 - Details of all major components used



Underpinning Component Database

The screenshot shows the 'Component Maintenance - Edit' interface of the National Joint Registry. The form is for a 'CeraFit Acetabular Cup Cementless 50mm diameter' component. Key fields include Catalogue Number (010.6050), Description, GTIN, GHON Code, Group (Hip), Sub Group (Acetabular Component), Type (Dual mobility), Manufacturer (Corin), Distributor (Corin), Status (On The Market), and ODEP Unclassified (CeraFit Cementless Cup). The 'Fixation' tab is active, showing 'Primary Fixation Method' as 'Cementless' and 'Secondary Fixation Method' as 'With optional screw holes'. A list of fixation options is visible, including 'Pressfit', 'With open screw holes', 'With double screw holes', 'With optional screw holes', 'Threaded Cup', 'Stemmed', 'Pegs', 'Flange and/or Hook', 'Other', and 'None'. The 'Glossary' section provides information about the Fixation Tab. The footer indicates '©2016 National Joint Registry' and 'Delete Component' button.

- A management system directly accessible by industry
- Industry upload, review, and amend all their own data
- NJR retains brand assignment
- Approximately 80,000 components, 40,000+ GTIN's
- Classification - Not a simple 'library' or catalogue
- Use by other registries 'Internationalisation'

National Joint Registry Project;

The Scan4Safety steering boarding has recently been re-established. This is chaired by James Crampton, Medical Director for Quality and Safety.

The NJR project will report into this group;

- **STEP 1** - Automation of National Joint Registry – Bulk upload
 - The merger of orthopaedic Infoflex and hTrak data, to create a csv or xml file to upload directly into the NJR registry.
 - Potential to utilise RPA tools to automate and move data into other relevant system locations if desired.
- **STEP 2** – Establish an API connection between the NJR API and our internal point of care scanning solution (hTrak) This will enable a real time safety check with the aim to reduce significantly the likelihood of a never event occurring.



Aim – To become one of the safest trusts in the country

Summary of Programme Benefits;

Patient Safety

- The right care, to the right patient
- POC record – Feed to EPR
- Fast, accurate and efficient product recall Process inc Trays.
- Opportunity for workflows / Notifications
- Potential to Reduce 'never events'
- Data accuracy

Supply Chain Efficiency

- Transparency of Stock levels
- Visibility of stock expiry dates
- Detailed consumption reports
- % of Automated ordering and invoicing
- PEPPOL efficiencies
 - Speed and Accuracy
 - Order acknowledgment
 - Additional Notifications

Financial

- Collective Demonstration sites (x6) £8.3m
- 4:1 return on Investment

Clinical Productivity

- Capture at POC electronically, not post care, on paper.
- Improved clinical coding feed
- Valuable data to feed EPR's / refer to easily
- Removal of data duplication
- Efficiency savings from automation



Questions?

GS1 Healthcare webinar:

Questions and contact details



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