



The Global Language of Business

# Welcome to our 29<sup>th</sup> Global GS1 Healthcare Conference

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# Kevin Downs Keith Jones

Derby Teaching Hospitals, NHS Trust, United Kingdom

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# GS1 standards improving clinical effectiveness and patient safety

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Derby Teaching Hospitals NHS Foundation Trust

Monday 18 April 2016

# GS1 standards improving clinical effectiveness and patient safety



## Derby Teaching Hospitals NHS Foundation Trust





# GS1 Standards



The Department of Health's eProcurement Strategy mandates the use of GS1 standards in every NHS Acute Trust

## GS1 – Basic Building Block

Derby Can Show What Can Be Achieved – “The Vision”



To increase efficiencies and significantly improve the quality and safety of care:

- Patient Safety is enhanced!
- GS1 gives you a common language to identify, capture and share supply chain data
- Ensuring important information is accessible, accurate and easy to understand

Example of a GS1-128 barcode with both the GTIN and the Lot/Batch # encoded:



(01) 10072534123451 (10) 12340223ABC

# Why Are We Doing This?

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## Lord Carter Recommendations

- Lord Carter was asked in the summer of 2014 by the health secretary to assess what efficiency improvements could be generated in hospitals across England.
- He provided an interim report on his work in June 2015, in which he outlined that potentially £5bn of operational efficiency savings could be delivered in the acute sector by 2020 by improving workforce costs, hospital pharmacy medicines optimisation, and estates and procurement management.
- 15 Recommendations Identified

# The Stock Room – Original Objective







# Why Are We Doing This?

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- The NHS procures 1.7m different items.
- 61 Trusts purchased 1750 cannulae
- One Trust bought 29 different types of rubber glove
- Up to £5bn in savings
- Improve patient safety

# Clinical Effectiveness

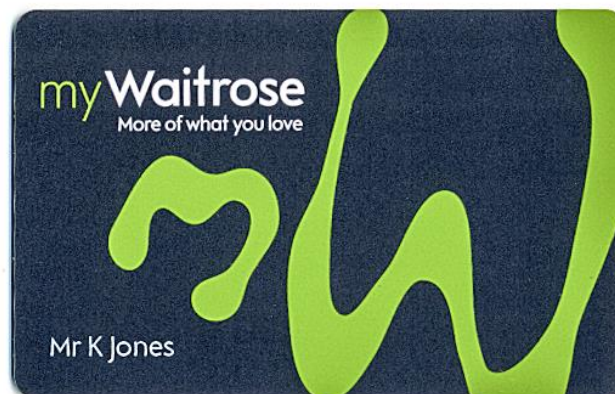
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- The degree to which a particular healthcare intervention does more good than harm
- The application of best knowledge derived from research, clinical experience and patient preference to achieve optimum processes and outcomes of care for patients
- The process involves a framework of informing, changing and monitoring practice.

# Our World is Barcodes







The whole system is based on:

John Lewis

# POINT OF USE



What the Customer buys



## So Why Not the Patient?

# Tracking



## Scope Scanning Sheet Derby Hospitals NHS Foundation Trust

Pentax CF-1T20L Colonoscope - S/N 2932078



(240)CF-1T20L(21)2932078

Olympus CHF-CB30S - Choledochoscope - S/N W500309



(240)CHF-CB30S(21)W500309





## **So Why Is It So Important?**

# Benefits of GS1 in FMCG



- Stock contamination identified
- Traceability
- Speed





# Not in Healthcare?



PIP breast implants; The medical devices manufactured by a French company, Poly Implant Prothèse (PIP).

French regulator (AFSSAPS) Identified the manufacturer had used unapproved materials which may affect their safety and performance.



## Finding those patients affected?

# Traceability, Patient Safety & Information/Data Capture



- **Patient** Scanned and Checked
- **Staff** Scanned and Tracked
- Track scopes/ Instrumentation to patients
  - CJD & AIDS
- Tracked theatre & stock room consumption
  - Loan sets & Surgical trays tracked
    - Lot number captured – Product Recalls
    - Prevented expiry wastage & Warning Flag
- Attribute cost to Scope/Instrumentation use
- Track planned maintenance e.g. 100 uses





## How to get Clinical Engagement?

- Start the rollout in a compliant area
- Patient Safety - out of date stock
- Traceability - Instruments /implants
- Coding – Income Improvement/Reduce Cost Improvement Impact
- Automatic update of external records – implants
- Co-morbidity recording – correct tariff and understanding Dr Foster data

# Drivers of Change and Improvement

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- TARGETS
  - Waiting times
- DECENTRALISATION
  - Trusts/CCG
- PERFORMANCE MANAGEMENT
  - SHAs/ TDA
- CHOICE
  - Chose and book
- COMPETITION
  - AQP
- REGULATION
  - CQC Monitor

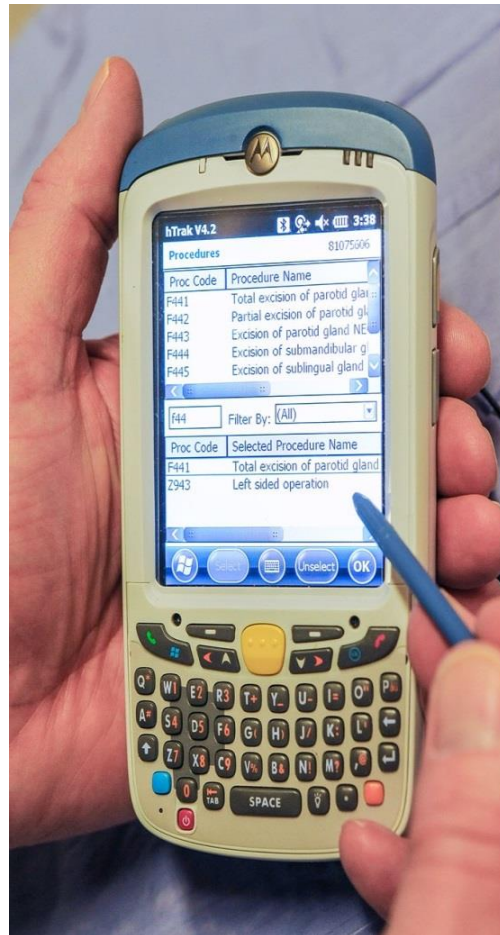
# But What Really Works?

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- Exposing unwarranted variation – Trust/ individual
- Clinical engagement
- Sources of competitive advantage are not technological but BEHAVIOURAL

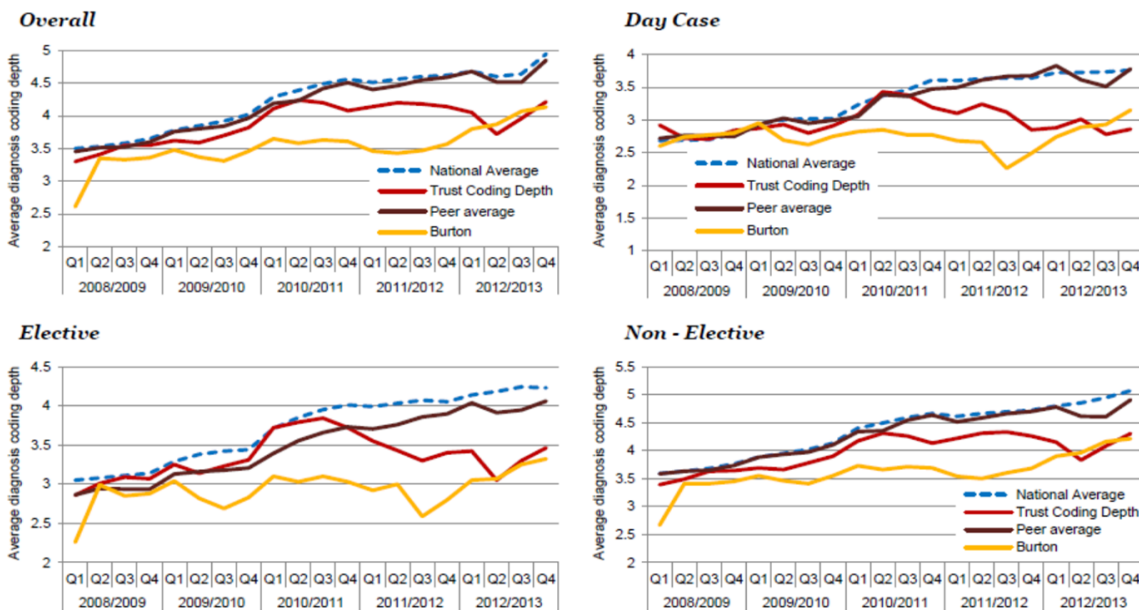
# hTrak Device Showing OPCS Codes Already Loaded



# Coding Status



## *Derby Hospitals Clinical coding depth* Average diagnosis coding depth by admission method



Source: Health Evaluation Database (HED); April 2008 – Mar 2013  
Operational Benchmarking Support  
PWC

December 2013  
4

# Coding Problem



Activity in the nine months to the end of December 2013 with a cost of £840K has an HRG code “Data invalid for grouping

FCE HRG	Description	Activity	Total cost	Average cost	Minimum	Maximum
J201Z	Data invalid for grouping	580	£839,755	£1,448	£31	£12,714



# Use Trusts Own GS1 Codes



**Procedure Type Scanning Sheet**  
**Derby Hospitals NHS Foundation Trust - General Theat**



A243 - Microsurgical graft to facial nerve (vii) NEC



A243

A368 - Other specified other operations on cranial nerve



A368

A521 - Therapeutic lumbar epidural injection



A521

A523 - Epidural blood patch



A523

A528 - Other specified therapeutic epidural injection



A528

A543 - Implantation of intrathecal drug delivery device adjacent to spi



A543

# How the Coders receive hTrak data



```
Untitled - Notepad
File Edit Format View Help
DOE Jane (Hospital No: 98989898/NHS Number: 123-456-7890)

Diagnosis Codes (Comorbidities via STEVE, updated on 02/04/2015 15:16 by Tester1 (Tester))
  H54 - Registered Blind
  I63, I64 - Stroke
  Z921 - Anticoagulant therapy

Procedure Codes (Procedures via HTRAK)

  Procedure Date: 23 Feb 2015
    G722 - Anastomosis of ileum to transverse colon
    T415 - Freeing of extensive adhesions of peritoneum
    Y502 - Laparotomy approach NEC

  Procedure Date: 17 Nov 2014
    G741 - Creation of continent ileostomy
    Y502 - Laparotomy approach NEC
    Y701 - Emergency operations NOC

  Procedure Date: 16 Nov 2014
    H071 - Right hemicolectomy and end to end anastomosis of ileum to colon
    L462 - Open embolisation of visceral branch of abdominal aorta NEC
    Y502 - Laparotomy approach NEC
    Y701 - Emergency operations NOC
```



**COPD**

- ☐ Unspecified
- ☐ Chronic bronchitis
- ☐ Emphysema
- ☐ Current smoker (or within 3 months)
- ☐ Past smoker
- ☐ Chronic respiratory failure (Home O2 inc CPAP)
- ☐ Asthma (on inhalers)
- ☐ Other chronic lung disease

**Registered Blind**

**Severe or profound hearing loss**

**Dysphagia**

**Hypertension**

**Gastro oesophageal reflux**

**Peptic ulcer**

**Abnormal LFTs (including abnormal clotting)**

**Jaundice**

**Other liver disease**

**Details**

**History of alcohol abuse**

**(>28 units men > 21 Units women)**

**Dependent diabetes**

**Non-insulin dependent diabetes**

**Diabetic complications**

- ☐ Neuropathy
- ☐ Vascular
- ☐ Renal
- ☐ Ophthalmic
- ☐ Autonomic

**Cancer**

- ☐ (any current primary)
- ☐ (any past history)
- ☐ Metastatic cancer
- ☐ Cancer - please document site(s)
- ☐ HIV positive

**Epilepsy**

**Parkinson's disease**

**TIA**

**Other cerebrovascular disease**

**Dementia excluding Alzheimer's disease**

**Alzheimer's disease**

**Depressive disorders including bipolar disorder**

**Anxiety disorders**

**Developmental delay including learning disability**

**Drug abuse**

**Eating disorders**

**Personal history of self harm**

**Psychotic disorders including schizophrenia**

**delusional disorders**

**Autism**

**Multiple Sclerosis**

**Stroke**

**History of ischaemic heart disease**

**Acute Myocardial Infarction in last 28 days**

**Congestive cardiac failure**

**(any evidence of right heart failure)**

**Left ventricular failure**

**Atrial fibrillation**

**Cardiac pacemaker in place**

**Mitral valve disease**

**Peripheral vascular disease**

**Acute Kidney Injury**

**Kidney Stage**

**Disease: Dialysis**

**Transplant**

**Urinary retention**

**(Catheter in place/inserted)**

**Rheumatoid arthritis**

**Any connective tissue disorder**

**Obesity (BMI > 30)**

**Hemiplegia**

**Paraplegia**

**Anticoagulant therapy**

**PE or DVT**

**Tendency to fall**

**Living alone**

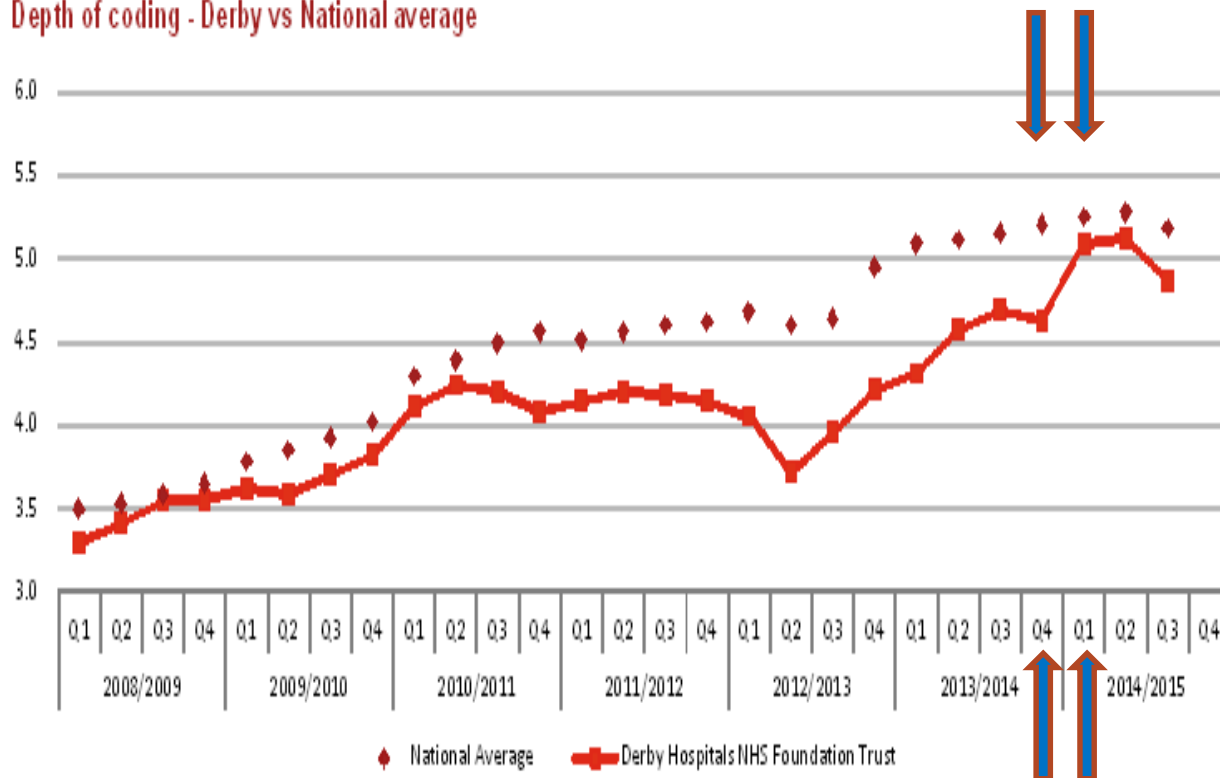
"Big Steve"

Co-  
Morbidity  
Recording

# Coding Impact



Depth of coding - Derby vs National average

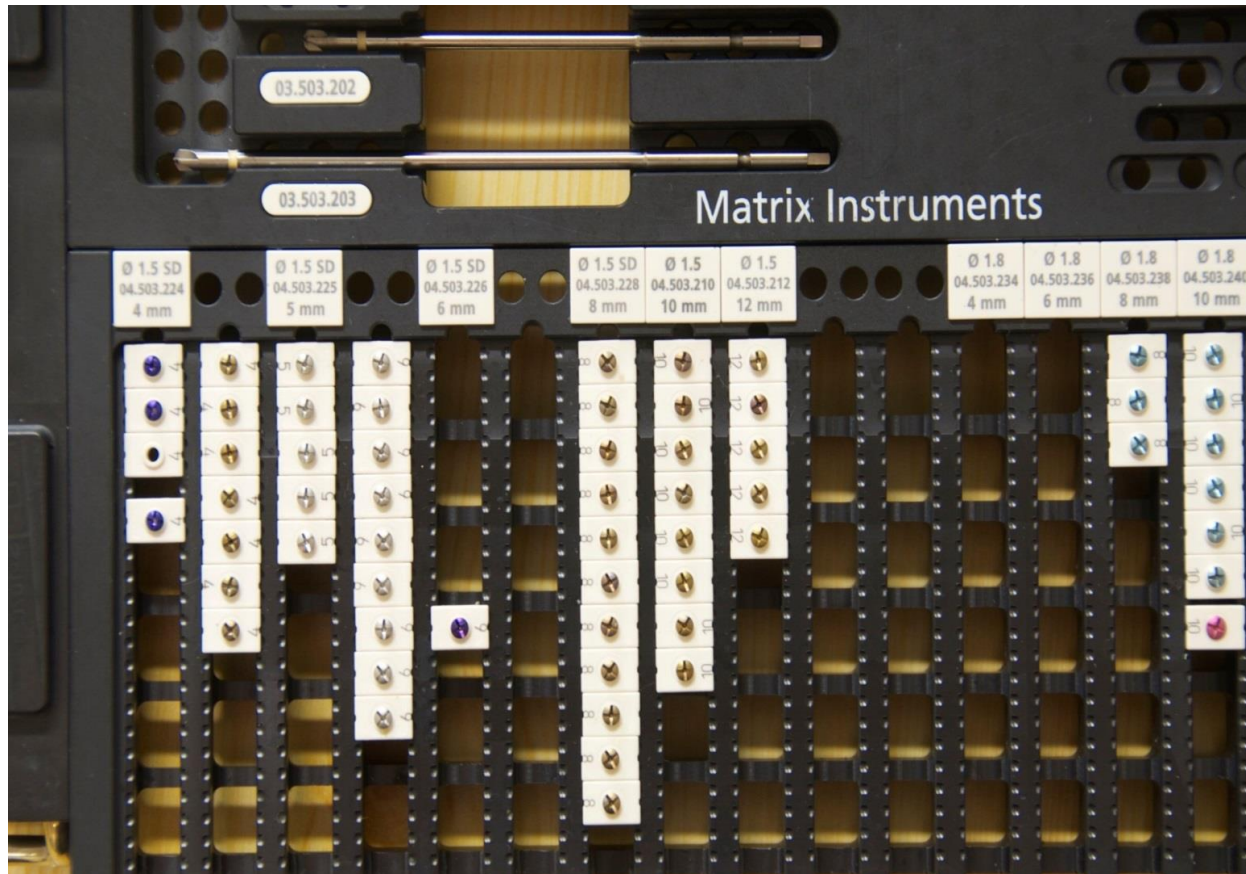




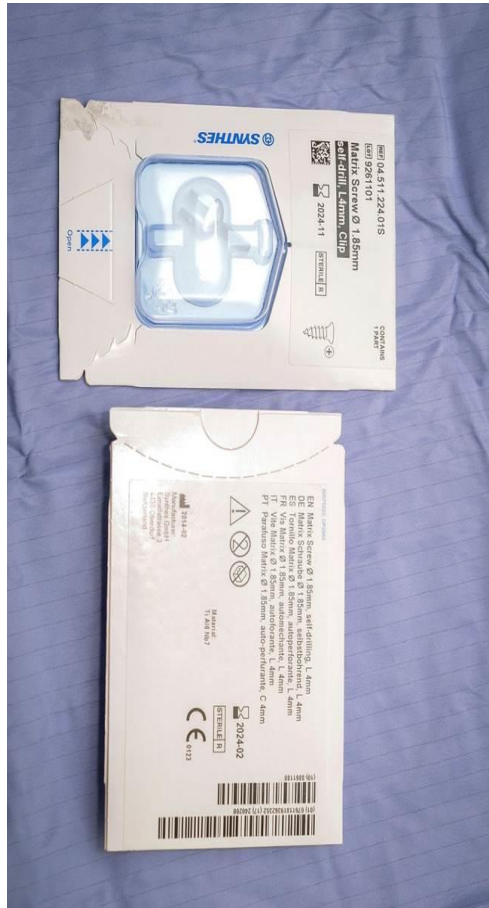
## Changes in Clinical and Operational Practice

Addressing “false economies”

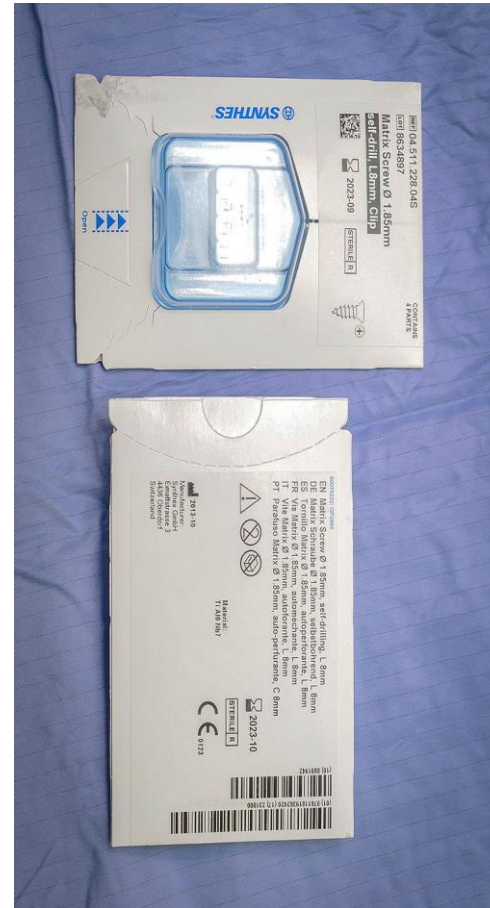
# Synergy Tray – Screw Example



# Individual And Multiple Screw Packs



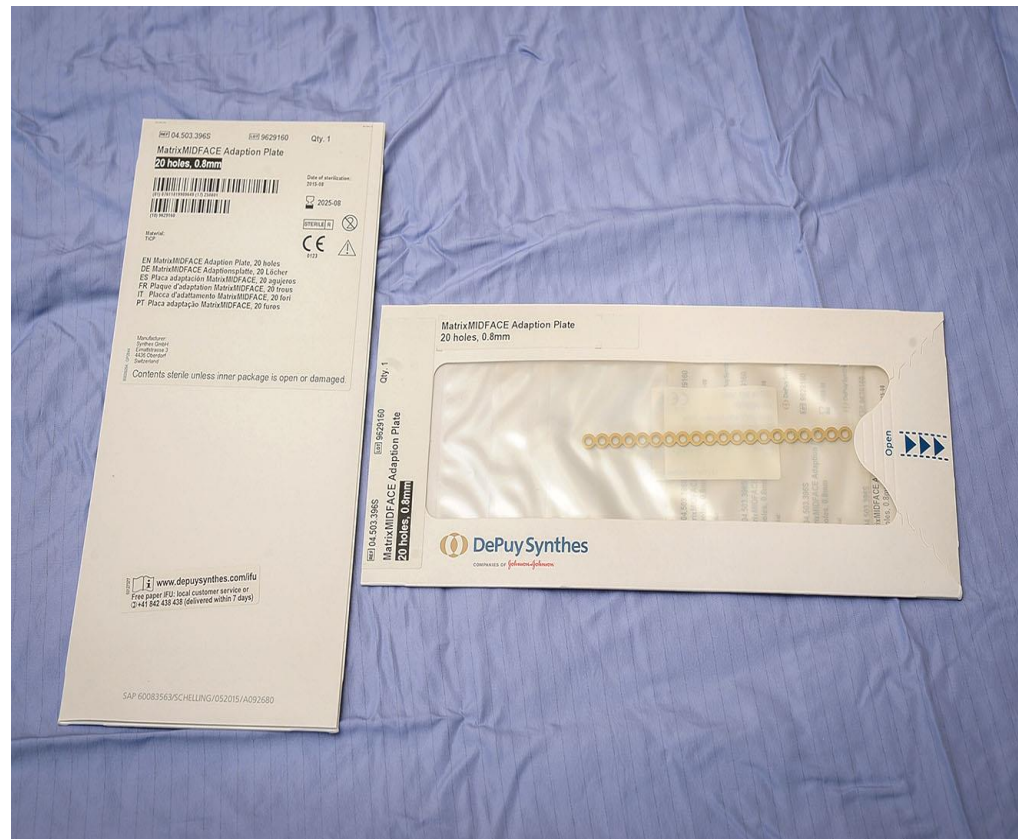
**Individual Screw Pack**



**Multiple Screw Pack**



# 20 Hole Gold Plate Or 4 X 5 Hole Gold Plates?





# Jaw Plates – Straight or Curved?



# Additional Benefits

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## Clinician Involvement

The ability to address Clinical variation with detailed and owned undisputed information

# Laparoscopic Cholecystectomy Consumable Costs and Consultant Variation



Consultant Description	Avg Consumable Cost	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedures	Lower Quartile	Upper Quartile	Variance	Std Deviation	Avg LoS	Max LoS	Min LoS
Cons A	£285	82	5	181	1	£285	£285	£0	-	3.00	3.00	3.00
Cons B	£239	74	7	127	3	£232	£250	£37	£19	1.00	1.00	1.00
Cons C	£231	70	6	123	6	£192	£255	£160	£59	1.83	5.00	1.00
Cons D	£227	70	6	98	9	£197	£248	£146	£45	1.56	6.00	1.00
Cons E	£223	70	5	100	11	£216	£235	£120	£31	1.27	4.00	1.00
Cons F	£218	69	6	93	6	£203	£238	£60	£24	1.00	1.00	1.00
Cons G	£209	62	6	79	8	£192	£231	£103	£38	1.63	4.00	1.00
Cons H	£188	64	7	90	9	£164	£224	£149	£53	1.25	2.00	1.00

# Reporting Data System



HRG Description	No. of Consulta...	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Major Mouth Or Throat Procedures, 19 Years And Over With Cc	5	£1,762	97	10	204	39	£133	£519	£22,417	£5,195
Major Mouth Or Throat Procedures, 19 Years And Over Without Cc	4	£1,959	70	7	180	19	£111	£250	£22,412	£5,606
Major Maxillo-Facial Procedures, 19 Years And Over	6	£825	96	9	225	56	£514	£1,173	£1,661	£453
Complex Major Maxillo-Facial Procedures	1	£857	173	19	212	2	£540	£1,173	£1,267	£896
Major Maxillo-Facial Procedures, 18 Years And Under	2	£775	90	8	169	10	£477	£1,066	£1,100	£381
Miscellaneous Vascular Procedures With Cc	1	£489	128	25	337	3	£186	£646	£921	£526
Intermediate Maxillo-Facial Procedures, 19 Years And Over Wit...	5	£282	59	7	89	30	£81	£438	£888	£250
Complex Major Mouth Or Throat Procedures, With Major Cc	2	£728	103	26	275	4	£609	£925	£856	£365
Intermediate Maxillo-Facial Procedures, 19 Years And Over Wit...	6	£219	63	7	89	28	£85	£364	£772	£202
Parathyroid Procedures Without Cc	1	£425	68	8	239	2	£277	£573	£593	£419
Complex Major Mouth Or Throat Procedures, With Intermediate Cc	1	£1,438	204	11	428	2	£1,290	£1,586	£591	£418
Intermediate Maxillo-Facial Procedures, 18 Years And Under	2	£198	59	6	69	4	£70	£266	£376	£178
Major Dental Procedures, 19 Years And Over	5	£127	53	7	60	66	£100	£148	£360	£51
Exteriorisation Of Trachea With Intermediate Cc	1	£167	53	19	79	3	£109	£244	£271	£140
Extraction Of Multiple Teeth, 19 Years And Over	5	£118	51	7	56	48	£95	£135	£160	£33
Surgical Removal Of Tooth, 19 Years And Over	5	£110	48	7	52	48	£89	£133	£152	£31
Minor Dental Procedures, 19 Years And Over	6	£99	51	7	56	16	£76	£118	£152	£42
Major Thoracic Procedures Without Cc	1	£140	42	8	101	2	£103	£176	£146	£103
Intermediate Nose Procedures, 19 Years And Over With Cc	3	£148	57	8	75	3	£109	£181	£144	£73
Major Surgical Removal Of Tooth, 19 Years And Over	5	£120	51	7	52	84	£97	£139	£141	£28
Other Procedures For Non-Trauma	4	£103	54	7	51	6	£65	£145	£139	£56
Minor Maxillo-Facial Procedures With Cc	4	£120	50	6	63	7	£91	£157	£138	£49
Intermediate Mouth Or Throat Procedures, 19 Years And Over Wit...	4	£122	64	8	101	7	£98	£150	£105	£40
Dental Excision Or Biopsy Procedures, 19 Years And Over	5	£99	45	8	53	37	£78	£120	£104	£27
Surgical Removal Of Tooth, 18 Years And Under	4	£113	54	8	56	5	£95	£136	£102	£39

# Reporting Data System



## HRG

↑ Procedure Description	No. of Consulta...	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Surgical Removal Of Impacted Wisdom Tooth	5	£123	52	7	60	64	£98	£147	£248	£39
Autotransplantation Of Tooth	1	£387	84	9	126	1	£387	£387	£0	-
Excision Of Lesion Of Sublingual Gland (Salivary Gland)	1	£120	82	6	58	1	£120	£120	£0	-

## Procedure

↑ Diagnosis Description	No. of Consulta...	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Anomalies Of Tooth Position	4	£146	47	6	99	6	£124	£172	£276	£83
Impacted Teeth	5	£122	52	7	54	39	£102	£148	£132	£31
Chronic Periodontitis	4	£109	49	7	50	13	£94	£140	£114	£33
Periapical Abscess Without Sinus	3	£78	44	6	60	3	£72	£86	£28	£14
Dental Caries, Unspecified	1	£58	48	8	49	1	£58	£58	£0	-
Embedded Teeth	1	£191	58	5	74	1	£191	£191	£0	-
Secondary And Unspecified Malignant Neoplasms: Lymph Node...	1	£143	63	10	130	1	£143	£143	£0	-

# Reporting Data System



Diagnosis Description	No. of Consulta...	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Impacted Teeth	5	£122	52	7	54	39	£102	£148	£132	£31

Consultant Description	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Cons A	£132	55	7	58	15	£111	£148	£65	£22
Cons B	£128	53	5	19	1	£128	£128	£0 -	
Cons C	£124	53	7	61	9	£102	£142	£66	£24
Cons D	£122	49	7	68	4	£92	£150	£65	£35
Cons E	£106	49	9	40	10	£73	£140	£122	£43

# Reporting Data System, Product Analysis/Variance...



## Products

Consultant Description	Mr Chiu		Mr P Karczak		J Stenhouse		Mr K Jones	
Product	Qty	Consumable Cost (£)	Qty	Consumable Cost (£)	Qty	Consumable Cost (£)	Qty	Consumable Cost (£)
1011971 - Pack Oral Extraction Royal Derby	10	£500	6	£300	2	£100	5	£250
Mdm33.51.021 - Bur	13	£164	5	£63	3	£38	6	£76
Sgp006 - Triple Large Synergy Gown Pack	15	£105	8	£56	4	£28	6	£42
D013010 - Oral Basic	3	£100	1	£33	-	-	2	£67
Pft466 - Ent Pack - Dri	11	£96	6	£52	1	£9	5	£44
0033120 - Disposable Sucker Frazier 12ftg	15	£68	9	£41	4	£18	9	£41
D013002 - Oral Basic	3	£100	1	£34	-	-	-	-
Pte893 - Biogel Surgeons 7.0	45	£52	24	£28	12	£14	18	£21
E014510 - Oral Basic	1	£34	2	£68	-	-	-	-
D013007 - Oral Basic	1	£33	1	£34	-	-	1	£33
D013006 - Oral Basic	2	£66	-	-	-	-	1	£33
Pft489 - Max Fax Pack	3	£19	2	£13	4	£26	4	£26
Fdf099 - Portex Tracheal Tube Ivory Maxilla Facial 6.0mm (10/Pack)	6	£29	3	£14	2	£10	5	£24
Fvu066 - Vicryl Und 45cm M1.5 USP4/0 Sgle Armed Ps-2	3	£10	7	£22	2	£6	10	£32
E014508 - Oral Basic	-	-	1	£34	1	£34	-	-
E014506 - Oral Basic	-	-	-	-	-	-	2	£68
D013003 - Oral Basic	1	£34	1	£33	-	-	-	-
D013011 - Oral Basic	-	-	2	£67	-	-	-	-
D013001 - Oral Basic	1	£33	-	-	1	£33	-	-
Fvu283 - Vicryl Rap Und 45cm M2 USP3/0 Sgle Armed X-1	7	£21	3	£9	2	£6	6	£18
Pft436 - Needle Blunt Fill With Filter 18gx1.5	64	£20	37	£12	12	£4	38	£12
Vcb094 - Level1smi Snugglegarm Paediatric Blanket (10)	5	£29	-	-	2	£12	1	£6
038-94-540 - Larysal Flexi Mask Size 4.0 Sterile Single Use	3	£20	2	£13	-	-	2	£13
E073403 - Intracutaneous 500 Kavo Drill System	1	£11	1	£11	1	£11	1	£11
Psb018 - V-Green Wide Bore Extension Line	13	£18	7	£10	3	£4	5	£7
E014503 - Oral Basic	1	£34	-	-	-	-	-	-
E014502 - Oral Basic	1	£34	-	-	-	-	-	-
E014507 - Oral Basic	-	-	-	-	1	£34	-	-
E014501 - Oral Basic	-	-	-	-	-	-	1	£34
D013009 - Oral Basic	-	-	-	-	-	-	1	£34
D013008 - Oral Basic	1	£33	-	-	-	-	-	-
D013005 - Oral Basic	-	-	-	-	1	£33	-	-
Psp797 - Venflon Pro Safety 18ga 1.3mm	15	£13	9	£8	3	£3	9	£8
Fdd1025 - Inflatable Anaesthetic Face Mask (Size 4)	15	£11	9	£7	3	£2	9	£7
Pft150 - Duck Bill Valve Mini	15	£11	9	£6	3	£2	9	£6
038-41-355 - Bacterial/Viral Filter Adult + Hme & Luer Port	15	£9	9	£6	3	£2	9	£6
Pwp173 - Female Suction Tube	8	£7	4	£4	6	£5	7	£6
U02924tr0455198001 - Braun Microspeed Drill System - Ent Theatre	2	£11	1	£5	1	£5	-	-
Fdb136 - Yankauer Sucker Derby	8	£6	4	£3	6	£5	9	£7
Ns-111001 - Uni Glove (Light Handle)	5	£6	4	£4	3	£3	6	£7
Psb1320 - Pre-Assembled Gravity Infusion Set	2	£5	2	£5	-	-	4	£10
Epe367 - Synthetic Padding Bandage	15	£8	9	£5	3	£2	9	£5
Psm1376 - Briteblade Eva Fibre Optic Macintosh Size 4 Blade	2	£6	1	£3	2	£6	1	£3
Fvu332 - Vicryl Rap Und 75cm M1.5 USP4/0 Sgle Armed Ps-2 Prime	2	£9	1	£4	1	£4	-	-
Fka083 - Intrafix Safeset	13	£8	7	£4	3	£2	5	£3
Fvu326 - Vicryl Rap Und 75cm M2 USP3/0 Sgle Armed Ps-2 Prime	2	£9	1	£4	1	£4	-	-
E032106 - Surgairtome	-	-	-	-	-	-	3	£17
D034510 - Surgairtomes	-	-	1	£6	-	-	2	£11
Els064 - Surgical Haemostat 5x7.5cm	-	-	1	£17	-	-	-	-
Ptr353 - Stimuplex Insulated Needle 22g	1	£8	-	-	1	£8	-	-
Fwc021 - Syringe Luer Slip 20ml	68	£6	41	£4	16	£1	45	£4
Fdr128 - Vacuax Advanced 2000ml Cap Green	5	£6	1	£1	4	£5	2	£2
Vcb093 - Level1smi Snugglegarm Full Body Blanket (10)	2	£12	-	-	-	-	-	-
D034511 - Surgairtomes	2	£11	-	-	-	-	-	-
D034501 - Surgairtomes	2	£11	-	-	-	-	-	-
E014201 - Extraction Forceps Tray	-	-	1	£11	-	-	-	-

# Litigation Liability in the NHS

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- £1.4bn year end April 2015
- More claims, more lawyers and larger claims
- Keen to introduce GS1 as the patient safety initiative
- Reducing harm in the system
- Adverse in-hospital events** – 11<sup>th</sup> out of 20 top risk factors for death in UK



# Never Events – Surgery – Last 5 Years



SI reference number	Ref	Incident date	Description	Location (exact)	Business unit	Result
2016-4632	W117112	15/02/2016	Surgeon realised on writing in the notes that he had injected the 1st and 2nd TMT joint instead of 2nd and 3rd TMT joint.	Orthopaedic Theatre	Trauma & Orthopaedics	Other physical
2015-34350	W111966	13/10/2015	Patient underwent operation on fractured right femur. On review of post operation x-rays it was discovered that there was a part of a surgical instrument left in the wound.	Orthopaedic Theatre	Trauma & Orthopaedics	Other physical
2015-31844	W110700	02/10/2015	Patient first on a operating list and was listed and consented for a left phacoemulsification with lens implant. Correct eye operated on but wrong implant inserted. All correct checks had been completed i.e who moment, pre- op checks in the Day Case and in the anaesthetic room, stop moment, and lens check prior implant insertion. Error identified by the Day Case staff. The implant for the right eye had been chosen and circled on the biometry in the notes instead of the left eye. Same lens was identified on the front of the consent form and in the pathway. TT'OS also written for the right eye	Eye Day Case	General Surgery	Other physical
2012-10395	W47800	01/09/2011	STEIS No: 2012 / 10395 Following an audit it has come to light that a wrong implant has been implanted into a patient which is not compatible with the rest of the implant. (Never Event)	Orthopaedic Theatre	Trauma & Orthopaedics	Other physical
2013-25055	W70533	31/07/2013	STEIS No: 2013 / 25055 14 dioptr lens was marked on A-scan which has been loaded and handed to the surgeon by theatre practitioner, after the cataract surgery completed and the patient was ready to leave the theatre surgeon realised wrong lens was inserted in the eye, surgeon checked Biometry and IOL calculation and decided to exchange the lens power to 16.50 dioptr. Patient informed and agreed to have exchange of intraocular lens implant but new consent has not been signed. (Never Event)	Ophthalmic Theatre	General Surgery	Other physical

# SUI – Clinical Management



Affix Patient Label Here

**hTrak Report**
**Patient Ref: 20000468**
**Procedure Date: 20-08-2015**
**Page 1 of 4**

Patient Class:	NHS	Facility:	DCSURG2
Operation Type:	Elective	Facility Cost:	20.00
		Hand Held User:	JARRETT ROBERT

Procedure Codes					
Procedure	Item Codes	Theatre Band	Band Amount	Hand Held User	Scan Date/Time
Speciality - MaxFax	MaxFax			JARRETT ROBERT	20-08-2015 09:34:26
Excision of lesion of skin of head or neck NEC	S065			JARRETT ROBERT	20-08-2015 17:01:21
Other specified excision of mandible	V148			JARRETT ROBERT	20-08-2015 09:35:33
Total prosthetic replacement of temporomandibular joint	V201			JARRETT ROBERT	20-08-2015 09:35:19
Other specified other operations on temporomandibular joint	V218			JARRETT ROBERT	20-08-2015 09:35:47
Bilateral operation	Z941			JARRETT ROBERT	20-08-2015 09:36:01

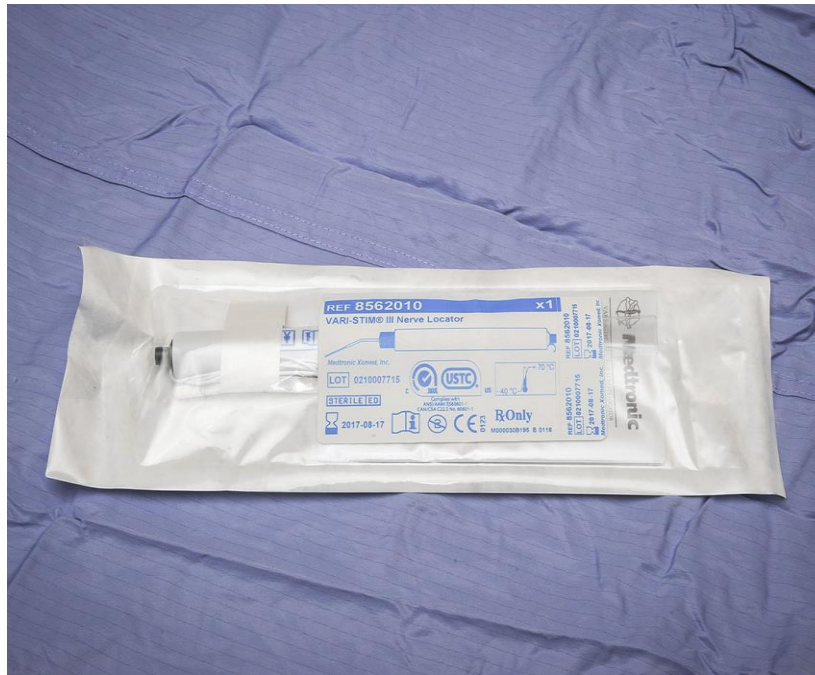
Procedure Timing				
Timing Point Name	Date & Time Stamp	Hand Held/HRS User	Facility Usage Duration	Procedure Duration
Anaesthetic Start	20-08-2015 08:55:00	JARRETT ROBERT	(HH:MM:SS)	(HH:MM:SS)
Into Theatre	20-08-2015 09:31:00	JARRETT ROBERT	08:15:00	07:07:00
Start of Procedure	20-08-2015 09:42:00	JARRETT ROBERT		
End of Procedure	20-08-2015 16:49:00	JARRETT ROBERT		
Out of Theatre	20-08-2015 17:10:00	TREECE MICHELLE		

Attending Staff				
Staff ID	Staff Name	Staff Type	Staff Role	Duration
10705996	PEGG IONA	Theatre Practitioner	Scrub Practitioner	08:15:00
10708823-2	YOUNG WENDY	Theatre Practitioner	ODP	08:15:00
10709402	CHESSHIRE NICHOLAS	Anaesthetist	Anaesthetist	08:15:00
10712453-2	JARRETT ROBERT	Health Care Assistant	Health Care Assistant	08:15:00
10713251	CAJUDO EUGENE	Theatre Practitioner	Scrub Practitioner	08:15:00

**Patient Ref: 20000468**  
**Procedure Date: 20-08-2015**  
**Hospital: Derby Hospital**  
**Department: General Theatres**

# Nerve Stimulator



# SUI – Clinical Management cont'd



Affix Patient Label Here

**hTrak Report**    **Patient Ref: 20000468**    **Procedure Date: 20-08-2015**    **Page 4 of 4**

Item No.	Supplier Product Code	Description	Qty	Price	Consumption Type	Lot No.	Expiry Date	Ext. Price
38	TMJ-MANDIBLE-DERBY	TMJ Mandible (Custom Made for Derby)	1	4,250.00	Normal	534640		4,250.00
39	TMJ-MANDIBLE-DERBY	TMJ Mandible (Custom Made for Derby)	1	4,250.00	Normal	534660		4,250.00
40	TMJLOAN	TMJ Loan Set Fee	1	410.00	Normal	TMJLOAN		410.00
41	U000670499118	GEN/ENT theatre consumable pack	1	0.00	Normal	U000670499118		0.00
42	U02924EX0468324	1 x Pencil - ENT Theatre	1	1.55	Normal	U02924EX0468324		1.55
43	VJD2678	OPSITE INCISE DRESSINGS Wound & Incise Drape Transparent Film Dressings Green Handle Application 28cm x 45cm Sterile X10	1	4.70	Normal			4.70
44	VJH489	OP-tape 9x49cm	3	0.43	Normal			1.28
Product Totals			88					18,742.41

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

**Patient Ref: 20000468**  
**Procedure Date: 20-08-2015**  
**Hospital: Derby Hospital**  
**Department: General Theatres**

# Scanning Via hTrak



Will scan high value items (including HIBCC)

Low value items will be put in packs

E.g. on next slide

Scan Surgical Trays (traceability & cost)

Scan Scopes for (traceability & cost)

# Lap Chole Scanning Sheet

## 'Mr Leeder' – SELF MADE



Kit - Gowns/Gloves/Drapes for up to 3



(240)DERBYKIT015

Kit - General Anaesthetic Kit



(240)DERBYKIT002

Kit - LEEDER - Lap Chole



(240)MrLeeder005

Kit Contents		
Part No.	Description	Qty
BDS3000	GAS TUBING	1
CTF12	5mm PORT	1
CTF73	10mm PORT & TROCAR	1
CTS22	10mm PORT	1
CV65-701	FRED	1
FAL024	PURPLE BERT BAG	1
FBE10128	CAMERA COVER	1
FDJ136	DIATHERMY PAD	1
FSF230	11 BLADE	1
FSL114	SHARPS PAD	1
FTR044	GREEN HYPO	1
FVU240	W9221 VICRYL	1
FVU331	W9932 VICRYL RAPIDE	1
FWC021	20ml SYRINGE	1
IJ022141	LAP SWABS	1
PFT301	GENERAL DRAPES	1

# Kit and Anaesthetic Procedure Packs





# Kit and Anaesthetic Procedure Packs



Kit Scanning Sheet  
Derby Hospitals NHS Foundation Trust

Kit - Tracheostomy

(240)DERBYKIT004

Part No.	Description	Qty
1623	CONNECTOR, ELBOW (CE)	1
409426	Hartmann PermaFoam Tracheostomy Foam Dressing non adhesive shaped 8cmx8cm 10 pieces	1
FDB136	Yankauer Sucker Derby	1
FGK011	Fine tip marker pen	1
FSL114	Disposafe Foam Mat	1
FTH000	Tracheostomy Tape	1
FVR180	SILK BLK 45CM M3 USP2/0 SGLE ARMED X-1	2
FVU408	VICRYL VIO 12X45CM M3 USP2/0 NON NEEDLED	1
FWC128	10ml Syringe	1
FWP173	Female Suction tube	1
ILN024	Solo Supra Dental Needle 27G LONG	1

Kit Scanning Sheet  
Derby Hospitals NHS Foundation Trust

Kit - Oral Basic

(240)DERBYKIT003

Part No.	Description	Qty
FDB136	Yankauer Sucker Derby	1
FSF240	SWANN-MORTON Standard Blades No. 15 Sterile Fit handles 3/3L5/7/9 & B3 Box 100	1
FSL114	Disposafe Foam Mat	1
FTR285	Blunt Needle 18G	2
FVU066	VICRYL UND 45CM M1.5 USP4/0 SGLE ARMED PS-2	1
FWC021	SYRINGE LUER SLIP 20ml	2
FWP173	Female Suction tube	1
ILN024	Solo Supra Dental Needle 27G LONG	1



# Wall Mounted Barcodes



**Kit Scanning Sheet**  
Derby Hospitals NHS Foundation Trust - General Theat

**ANAES PACK**

Kit - Yankauer Sucker/ Female Suction Tube  
(240)DERBYKIT001

Kit - Epidural  
(240)DERBYKIT012

Kit - CVC Pack  
(240)DERBYKIT0022

Kit - Double Pack (CVC and Arterial)  
(240)DERBYKIT024

Kit - Spinal  
(240)DERBYKIT002

Kit - Arterial Pack  
(240)DERBYKIT013

Kit - Local Block  
(240)DERBYKIT025

To see the contents of the above kits please check in the green nTrak folder

**PLEASE ALSO REMEMBER TO SCAN ALL ANAESTHETIC EXTRAS FROM THE SCANNING SHEET PLUS ALL TUBES & LMA'S**

Page 1 of 1 16-May-2014 17:54:06

**Miscellaneous items no bar code**  
Derby Hospitals NHS Foundation Trust - General Theat

FBE228 - QUICK CHANGE CAMERA DRAPE  
(240)ECE150-250C

S-01CN - SURGICAL TWIN TIP MARKER PEN  
S-01CN

CV65-701 - FRED - ANTI FOG

FKA412 - Foley catheter  
(01)05060179630014

G637105510 - VI-DRAPE GUT BAG  
(01)10885300062797

FSF325 - BLADE ANY SIZE  
(01)05033959002015

FSL114 - DISCARD A PAD

Page 2 of 2

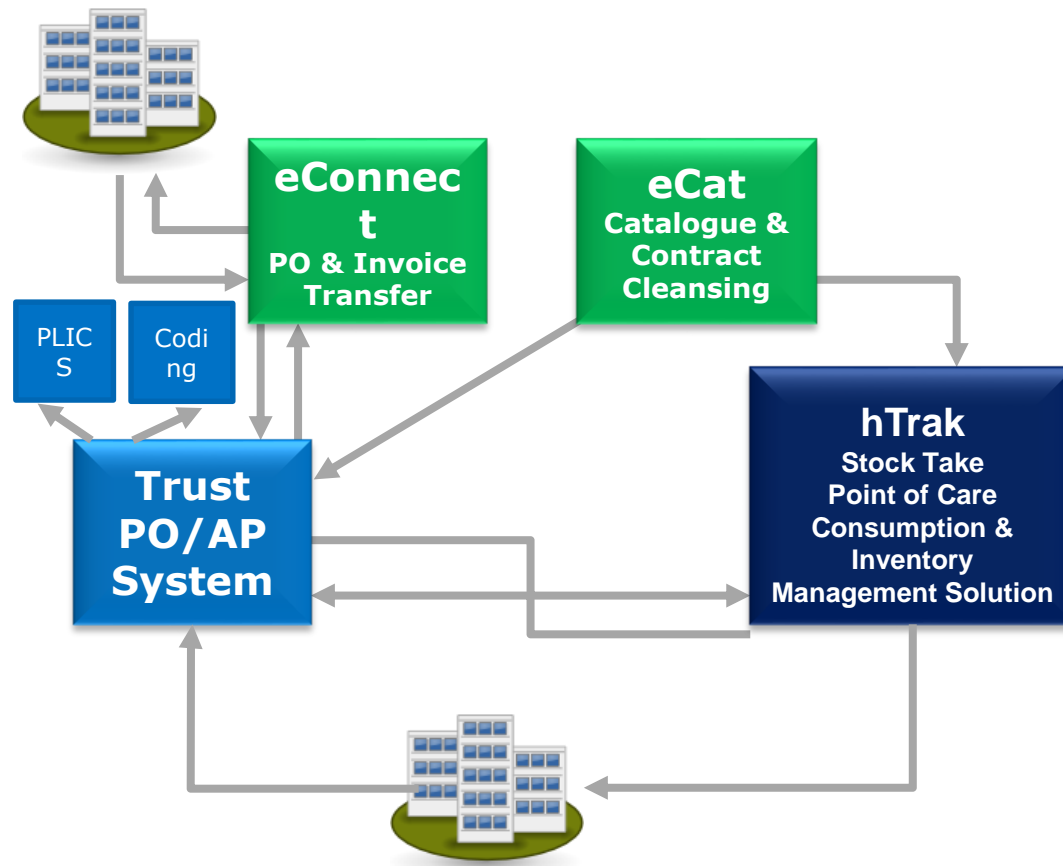
# UDI - Product Code/Lot Number Recall



Report only for Supplier: Cook UK Ltd  
Report only for SPC: C-CAE-14.0-70-Fil

Item No.	Supplier	Contract	SPC	Description	Qty	Scanned UPN	Org. Unit	Trust Product Code	Account Code	Category	Cur.	Price	Patient Ref	Procedure Date	Health Fund	Consumption Type	Lot Number	Expiry Date	Ext. Price
1 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	01006062	03-08-2015	NHS	Normal			55.00
2 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	474225	12-06-2015	NHS	Normal			55.00
3 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	584059	23-11-2015	NHS	Normal			55.00
4 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	777255	08-07-2015	NHS	Normal			55.00
5 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	852489	14-08-2015	NHS	Normal			55.00
6 <a href="#">[+]</a>	Cook UK Ltd	PRU.1	C-CAE-14.0-70-Fil	Frova Intubating Introducer	1	00827002236462	Derby Teaching Hospitals NHS Foundation Trust - General Day Case	C-CAE-14.0-70-Fil	3032	FES	GBP	55.00	930725	15-12-2015	NHS	Normal			55.00

# Integrated Processes – GS1/PEPPOL Compliant



# Quantifiable Results



## Cost Reduction

Since April 2014 Derby have seen business process efficiencies equating to approximately **£25k** per month after costs

(This figure is relating to General Surgery, Imaging and Cath Labs) – Annual Impact £300k – 30% of Theatres.

Through a combination of factors:

- The non-stock spend has reduced by at least 5-7% since go live
- Culture change in terms of waste, opening and using only what's needed
- Auto-replenishment of stock, clinician time diverted back to patient care (Stock Take efficiency) 2 days to 1/2 day
- Reductions in the stock holding – Visibility of consumption (Adjusted Min / Max)
- Driving down delivery charges by grouping orders
- Released stock storage space which can be relocated for other uses.

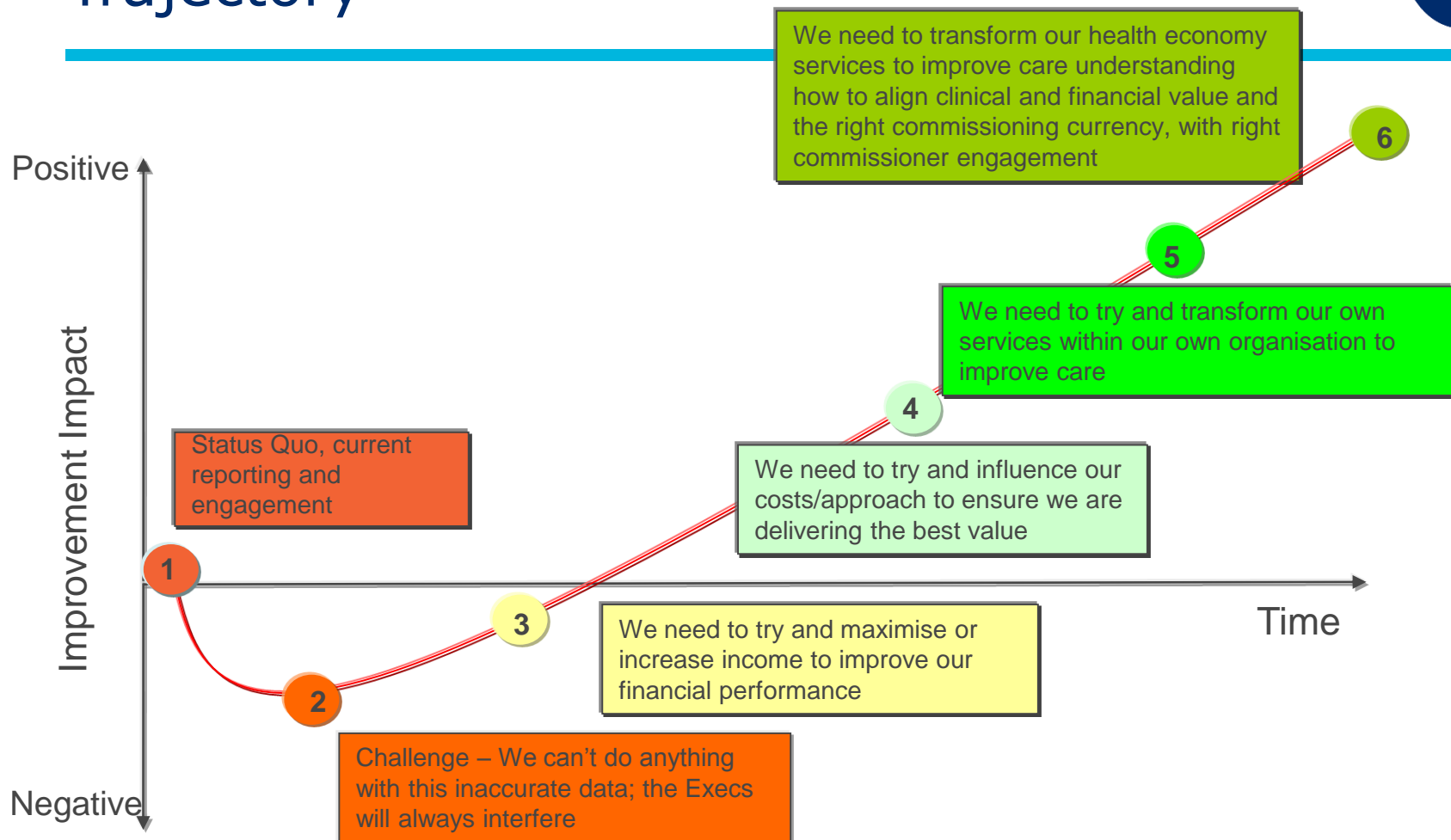
### Key Data:

Over 400 electronic catalogues feeding validated consumable pricing, enabling detailed analysis of non-pay spend. We are fully ready to benchmark our pricing...

## Income Improvement

- Increased accuracy of OPCS codes due to data capture at point of care.
- Coding of all uncoded patients - £850k

# SLM – Capability and Improvement Trajectory



# The Prize

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## GS1 standards

Will Guarantee Sustainability for our NHS



# Questions

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