

Do clinicians care about standards?

34th Global GS1 Healthcare Conference Bangkok, Thailand

October 30, 2018

Prof Dr Susan Moffatt-Bruce, CEO Ohio State Wexner Medical Centre, Columbus, US; chair

Mr. David Berridge, Deputy Chief Medical Officer, Medical Director - Operations, the Leeds Teaching Hospital, UK

Dr. Chun-Che Shih, Taipei Veterans General Hospital, National Yang-Ming University, Taiwan

Dr. Hinne A. Rakhorst, Medisch Spectrum Twente Enschede, Chair Dutch Association of Plastic Surgeons, The Netherlands



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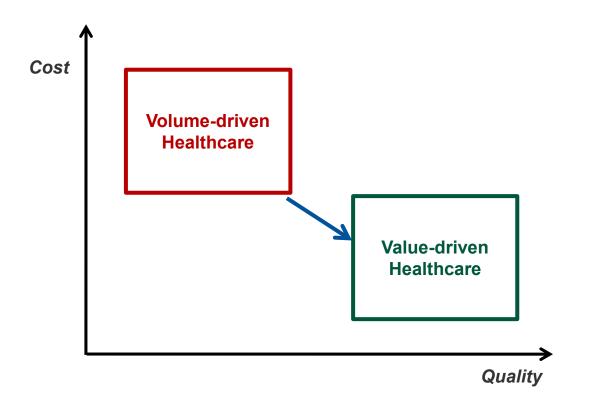
Standardization:

Challenges and Outcomes for clinicians and CEO's

Susan Moffatt-Bruce, MD, PhD, MBA, FACS Executive Director, University Hospital Professor of Surgery Professor of Biomedical Informatics



Volume-driven to Value-driven Payment Transition







Changes in Value-Based Healthcare Delivery Systems

- 1.Organizational **change**-integrated practice units
- 2. Measurement of **outcomes** and costs for every patient
- 3. Move to **bundled** payments for care provided
- 4. Integrated care delivery systems
- 5. Expand geographic reach
- **6.** Build enabling **informatics**/technology platforms





"What if we don't change at all ... and something magical just happens?"









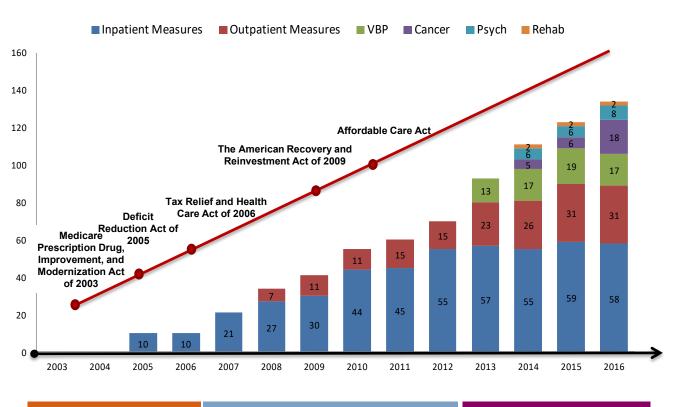
VALUE=

Health outcomes that matter to patients

Cost of delivering outcomes



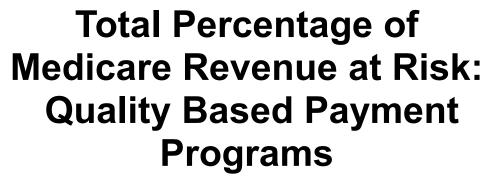
Quality Measures

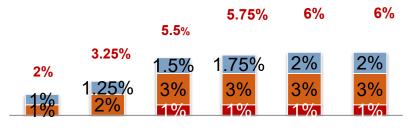


Pay-For-Reporting
0.4% point reduction in the annual market basket update for not reporting

Pay-For-Reporting 2.0% point reduction in the annual market basket update for not reporting Value Based Purchasing
1% payment reduction – incentive in 2013
2% payment reduction – incentive by 2017







2013 2014 2015 2016 2017 2018

- Value Based Purchasing
- ReadmissionReduction Program

Note: Hospitals that do not successfully participate in the Hospital IQR Program and do not submit the required quality data will be subject to a 25% reduction of the market basket update. Also, the law requires that any hospital that is not a meaningful EHR user will be subject to a 75% reduction of the market basket update in FY 2017.





























2015 BEST PLACES TO WORK

ConsumerReports.org

Hospital Ratings



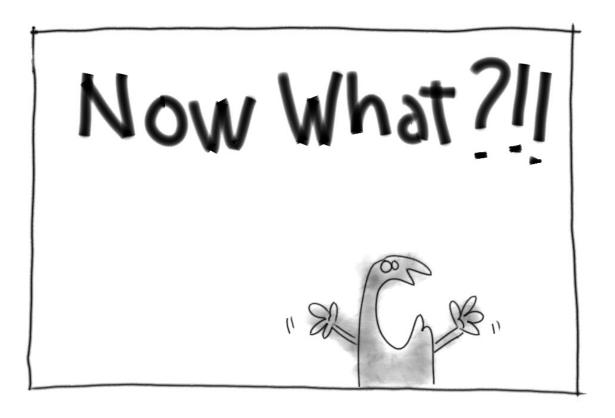




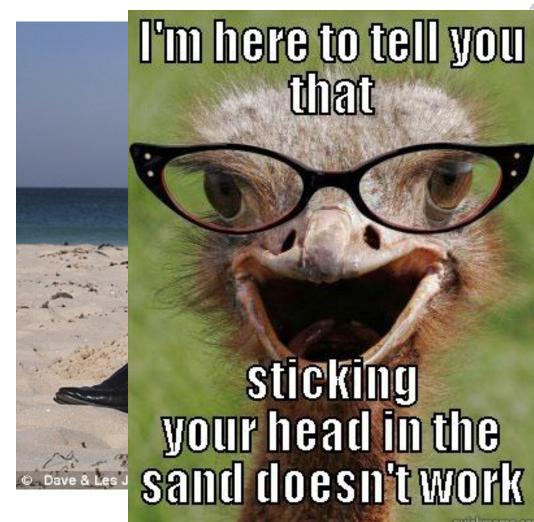


















- Healthcare "reform" vs "repent"
- Consumer driven models
- Disruptive innovation
- "Big data" driving new care models
- Consolidation/alignment of health systems, and physician practices
- Population health models
- Technology growth





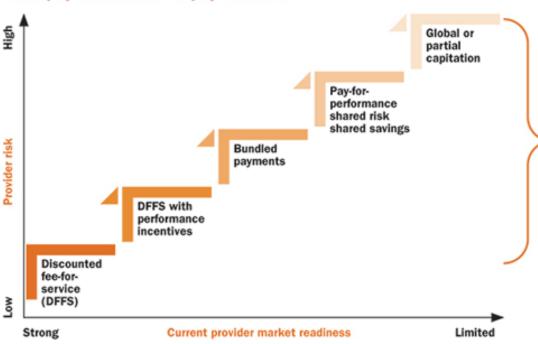
Clinical Transformation =

Choosing the Right Path to Standardization









By 2015, potentially 30% of reimbursement models will have evolved beyond DFFS (and some suggest up to 60%).





Balancing act...investing in the future of standardization

- Health systems have to invest in the infrastructure to build a new care delivery system around standardization
- The return on these investments is not immediate
- Time is a valuable resource and investment is key









Pay for procedures

Fee-for-service

More facilities/capacity

Physicians/Hospitals acting independently

Physicians and Hospitals working in parallel

Hospital centric

Treat disease/episode of care

To

Pay for value

Case rates/budgets/capitation

Better access to appropriate settings

Physicians/Hospitals collaboration: global risk

Physicians and Hospitals working in a highly integrated manner

Continuum of Care (Population centric)

Maintain health





Integrating Research, Quality and Operations=

Care Transformation for Standardization







- Organize care around the patient
- Measure quality outcomes, patient satisfaction and efficiency
- Prepare for new payment models and a consumerdriven market
- Integrate care delivery across separate facilities
- Transform the care delivery model
- Build an enabling information technology platform







Technology Transformation Operational Transformation

Finance Transformation

Data Analytics

Predictive Modeling

Deployment of EMR solutions

Focused care redesign

Post- acute and other partnerships

Access and throughput

Payer negotiations

Funds flow/ Gains Sharing

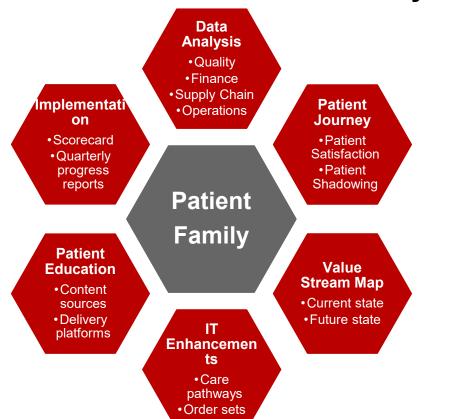
Financial analysis cost detail

Standardization and Improvement Science



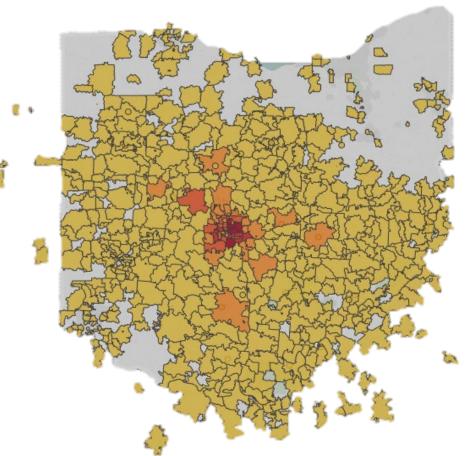


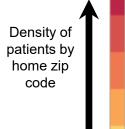
Standard Transformation Life Cycle





Where Our Patients Come From







Episodic Readiness Assessment Profile

General Profile

- Volume of Patients
- Predominant entry points into system (e.g. ED, elective admit, etc)
- Inpatient service distribution
- Admission source distribution (i.e. transfer, new admission)
- Discharge disposition distribution
- Demographic distribution (i.e. male, female, age)
- Geographic distribution (home address)
- Percent with a secondary diagnosis of targeted episode
- · Referral source distribution

Preadmission Mitigative Care

- · Pre-acute care process
- Pre-acute care team
- Post-acute care needs assessment (pre-acute phase)
- Financial aid/medication assistance needs assessment
- Co-morbidity optimization
- Pre-acute care process

Quality Standards & Performance

- Mortality
- LOS
- Pre-op LOS
- ICU LOS
- Post Acute LOS
- 30-day Readmissions
- 60-day Readmissions
- 90-day Readmissions
- Hospital-Acquired Conditions
- Follow-up Appointment
- Pertinent VBP measures
- Related EBM Guidelines

Operational Readiness

- Physician Engagement
- Order sets
- · Order set utilization
- Existing care pathway?
- Mechanism to identify/track targeted patients real-time
- IHIS population health tools or discrete data entry optimized
- Transitional & Post-Acute Care plan standardized (Follow-up, etc)

Patient Experience

- HCAHPS Overall Score
- HCAHPS areas below benchmark

Patient Education & Engagement

- Patient education needs assessment
- Undesirable titles retired/suppressed
- Discharge stoplight tool developed (if pertinent)
- Patient education titles mapped to clinical workflow
- Evaluation and development of video/illustrative education

Financial, Supply & Marketing

- Payor Mix
- Cost/Encounter
- Revenue/Encounter
- Gain(loss)/Encounter
- Standardized product utilization/supply chain opportunities
- Marketshare
- · Marketability across payers





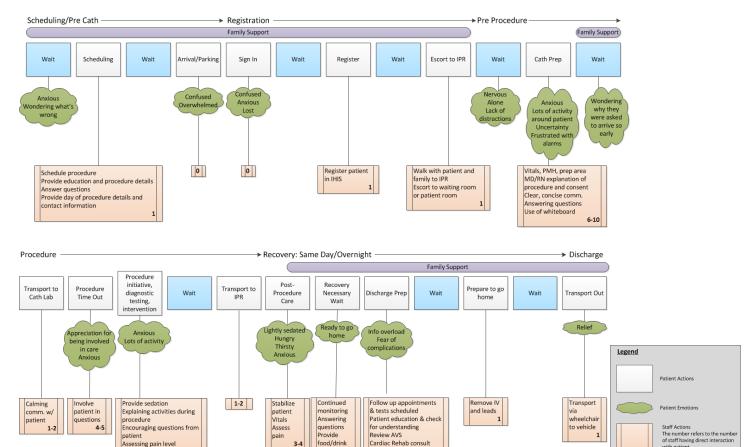




	Episode 1	Episode 2	Episode 3	Episode 4
High Volume		✓	✓	
Market Share Available			✓	
Medicaid	✓	✓	✓	✓
Medicare	✓	✓	✓	
Managed Care (high cost/high expense services)		✓	√	
Shop-able Service			√	√
Engaged Group/Readiness	✓		√	



Patient Journey

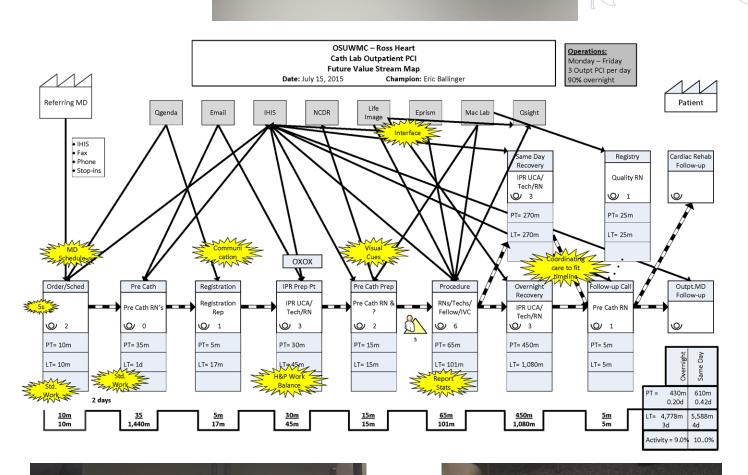


Pharmacy consult (if stented)

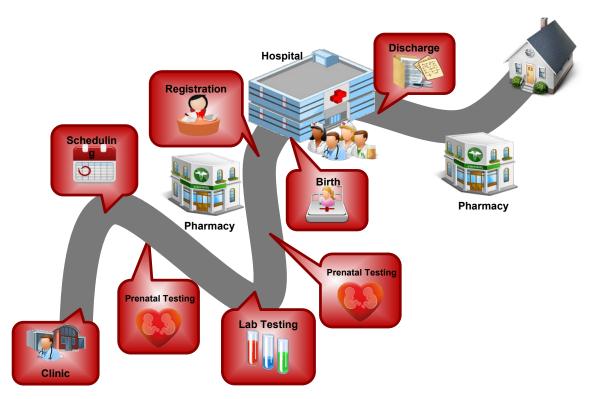
with patient

(Family Support)

Family is able to be present,











Cardiac Surgery Postoperative Care Management

SYMPTOMS: WHAT TO DO:



Emergency Zone

- Suspected stroke:
- · New numbness, muscle weakness, trouble swallowing or problems talking
- · Severe headache or confusion
- · Onset of severe chest pain, jaw pain and/or severe shortness of breath
- · Loss of consciousness

Call 911

Red Zone

- Shortness of breath that is not relieved by rest (g orsens when you lay down or if you need to sit in a cha
- Racing/fast heart beat or if it is very slow or "s. " a beat
- Lightheadedness, dizziness or feeling unstea
- Worsening changes in your incisions or wound ellling, redness, drainage)
- · Signs of bleeding
- Aith Care ≠ 614-685-800 Vomit that looks like coffee grounds or vomit with
 - Bright red blood in stool or dark, tarry stool

practicioner

Call 614-293-5502

If unable to reach us, please contact your local physician

for further assessment by a doctor or nurse

You May Need to be Evaluated Right Away

Yellow Zone: Caution

If you have any of the following signs or symptoms:

- Weight gain of 2 or more pounds in 24 hours; or 5 pounds in a week
- · Increased swelling in your legs, feet, ankles or stomach
- Increased cough or increase in shortness
- · Loss of appetite, nausea and/or vomiting
- Swelling, redness, drainage of wounds or
- Questions or concerns about medications

First Call Card

Show this card to any healthcare provider you see.

Green Zone

- · No shortness of breath, swelling or weigh
- No chest pain
- · No increase in surgical site pain
- · No swelling, no redness, no drainage of w
- · Ability to maintain your activity level

Your Symptoms Need Further Assessment We will work to determine if medications or other therapies may need adjusted or if an appointment may be needed:

- If you are at a skilled nursing/rehabilitation facility or if you have home health services, notify your nurse (they may need to contact vour doctor)
- If you are at home, please call 614-293-5502

rogressing as Expected

Your symptoms are under control Continue taking your medications as ordered Continue daily weights

Continue to follow dietary restrictions that have been recommended

Keep all physician appointments

If you are not feeling like yourself or something has changed and is bothering you, please call 614-293-5502.

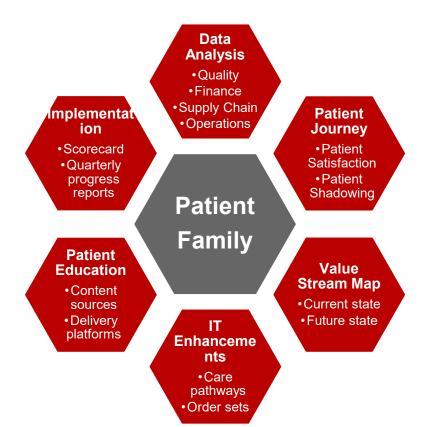
THE OHIO STATE

UNIVERSITY

WEXNER MEDICAL CENTER



Standardized Clinical Transformation: A Start









Quality Indicators

- Achieve 80% or more of Quality Targets
- Achieve 50-79% of Quality Targets
- Achieve less than 50% of Quality Targets

Cost Indicators

- Cost less than or equal to 125% of Medicare reimbursement
- Cost is between 126-150% of Medicare reimbursement
- Cost is over 150% of Medicare reimbursement



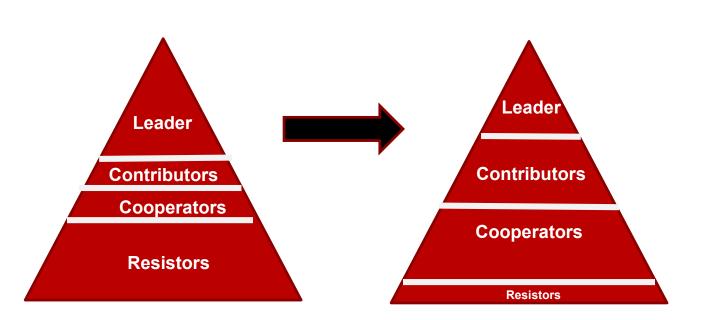




















Sometimes you have to go slow to go fast

-Stowe Boyd









Thank You

wexnermedical.osu.edu



















Panel: Do Clinicians Care About Standards?

•Mr. David Berridge, Consultant Vascular Surgeon, Deputy Chief Medical Officer, Medical Director – Operations, the Leeds Teaching Hospital, UK

•Dr. Chun-Che Shih, Chief of Division of Cardiovascular Surgery, Taipei Veterans General Hospital, Professor of Institute of Clinical Medicine National Yang-Ming University, Taiwan

•Dr. Hinne A. Rakhorst, Plastic Surgeon, Medisch Spectrum Twente, Enschede, Chair, Dutch Association of Plastic Surgeons, ICOBRA member, The Netherlands



Panel: Do clinicians care about standards?



Chair: Prof. Dr. Susan Moffatt-Bruce

Mr. David Berridge

Dr. Chun-Che Shih

Dr. Hinne A. Rakhorst











Teaching Hospitals



Do Clinicians Care about Standards?

34th Global GS1 Healthcare Conference Bangkok, Thailand October 30, 2018

Mr David Berridge

Deputy Chief Medical Officer - Medical Director Operations ,WYAAT Exec.Sponsor, Consultant Vascular Surgeon, The Leeds Teaching Hospitals NHS Trust, UK



Tech Transformation is coming





"In all my experience, the small part is finding or inventing the technology. The big part is embedding the culture of always looking for the best possible technology and embracing it. I want to drive that culture change... But from today let this be clear: tech transformation is coming"

Matt Hancock Secretary of State for Health and Social Care



Nursing Time



"Nurses waste 'an hour a shift' finding equipment"

(Source: S Ford, Nursing Times vol. 105, 10 February 2009)

- In a Trust the size of Leeds, that equates to 20 hours per month per nurse, or 212 working hours per year
- Of the 3,794 registered nurses at Leeds that equals 1,241,026 hours per year
- In total, a loss of 411 Nurses to looking for equipment



The Leeds Vision



To be the best for specialist and integrated care













A hospital of needs and wants



Patient Location

Test Results Sufficient Stock Availability of

Resources

Medicines



Research Innovate Explore Outcomes

Communication

Bod Side Care

Plans for care

Resources



Support patient recovery Innovate

Patient Location
Bed Side Notes

Plans for care

Observations Medicines

To receive the best

care available in a

timely manner



To provide the best levels of care in the best surroundings

Bed Side Care



Patient Location
Accurate
Outcomes
Financial

Control



To be the best for specialist and integrated care

Patient Location

Bed Side Notes

Plans for care

Availability

Referrals



The standards we need



Patient



Global Service Relationship Number (GSRN)

Place



Global Location Number (GLN)

Product



Global Trade
Item Number
(GTIN)



How this looks in real life



GSRN

















How this looks in real life



GLN







How this looks in real life



GTIN





Information from Catalogue in to Inventory

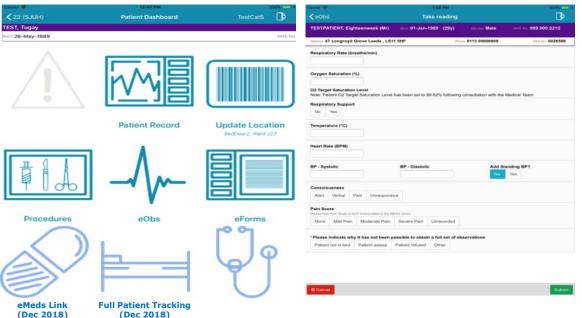




Scanning for Safety



Mobile Application









GSRN + **GLN** = **Patient** Tracking





LTHT is able to label down to bed space level and start unlocking the potential





Associates patient, to place, to product, to process.

Automatically updates the e-whiteboard



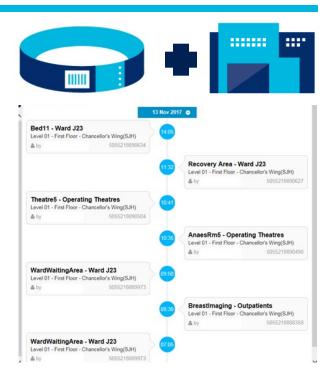






GSRN + **GLN** = **Patient Tracking**









GTIN + **GLN** = **Stocks** and **Stores**



Organisation
The Leeds
Teaching Hospitals

Physical Location









GTIN + GSRN + GLN = Recall





























Can this be done at Scale?







120 Specialist Services





114 Wards



135 Departments and Clinical Areas



69 Operating Theatres



82 Adult Specialities 28 Paediatric Specialities

5 Pathology Services 5 Medicines Management and Pharmacy Services



















232 Materials Management Areas



28 Inventory Managed locations



£18m Inventory





- Over 17,000 staff
- Over 2,000 beds





Global Location Numbering







22,303

22,303

2,000+

Plus Over 1,400 function GLNs for Stores





Patients – All patients receiving medication or intervention have a GS1 Compliant Wristband



114,000 inpatients



242,000 Emergency Department attendees



9,969 babies born



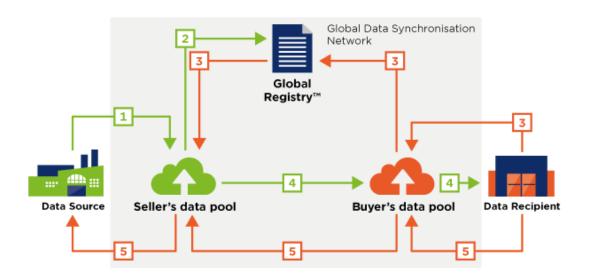
72,532 Day Cases







Catalogue Management



Our work with GHX and two other demonstrator sites (Plymouth and Salisbury) has given us access to over 130,000 GTINs





790,000 Order lines



630,000 Invoices



300 Systems and Applications





Inventory Management



32 of 69 Theatres fully scanning at **Point of Care** (awaiting a development in PPM+ before further roles out due December 2018)

Reviewing usage information to **reduce** Inventory further





Reduced Wastage



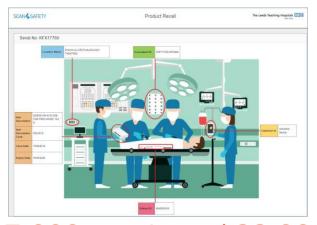




Product Recall



2 months work checking we had no cases



17,000+ patients / 22,000 implanted items checked in under 30 minutes





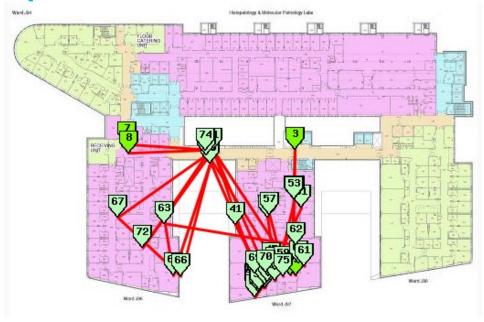
Finding Equipment







Improving Equipment Use







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.

Every Time







Do Clinicians Care about Standards?

Mr David Berridge

Deputy Chief Medical Officer - Medical Director Operations ,WYAAT Exec.Sponsor, Consultant Vascular Surgeon, The Leeds Teaching Hospitals NHS Trust, UK





Does it work?







Blown away by the tech at @LeedsHospitals

Why? With 30 techies they've built an EHR that costs 10x LESS than external & is constantly improved according to clinical need

NHS IT needn't cost £££. It needs standards & inhouse expertise

And it's working - on the wards - in Leeds





Thank You







The Adoption of GS1 UDI Standards - A Chief Cardiovascular Surgery Perspective

34th Global GS1 Healthcare Conference Bangkok, Thailand

Dr. Chun-Che Shih, Chief of Division of Cardiovascular Surgery, Taipei Veterans General Hospital, Professor of Institute of Clinical Medicine National Yang-Ming University, Taiwan

October 30, 2018



What is the impact on first line staff in the OR?



- 1. Current Situation of Medical Recordings in Taiwan
- 2. The Impacts on the Adoption of GS1 UDI Standards
- 3. The Effects of UDI Standard Adoptions on Patient Safety and Hospital
- 4. The Benefits of UDI Standard Adoptions in Department of Cardiovascular Surgery
- 5. Conclusions

TFDA announce class III medical device ungoing for clinical UDI application on Oct. 30, 2015



Taipei Veterans General Hospital (VGH)



 National first-class medical and teaching center providing tertiary patient care, undergraduate and residency educational programs in Taiwan. It was founded in 1958 and administered by the Veterans Affairs Commission. It is in Beitou District, Taipei and majorly serves patients in northern Taipei and New Taipei. Three branches, Taoyuan Veterans Hospital, Yuanshan Veterans Hospital, and

Suao Veterans Hospital, were established.

Hospital Size: 73 hectares(Site area);

457,492 m² (Floor area)

No. of staff: 6,141

Hospitalized Patients: 3,531,913

No. of beds: 3,077

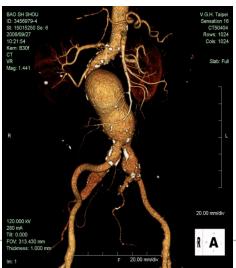


Cardiovascular Surgery Department, TVGH



The Cardiovascular Surgery Division at Taipei Veterans General Hospital was
founded in 1958 in order to provide the public with the most advanced
treatment for cardiovascular diseases and to conduct the highest level of basic
as well as applied research on the cardiovascular system and diseases.





The Global Language of Business





Tremendous Work Loading for High-price Class III Medical Device Management



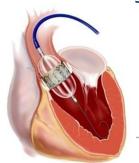
Services includes:

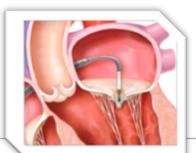
- Cardiac Surgery: CABG, cardiac valve repair or replacement, congenital heart disease, heart transplantation, ECMO, and VAD.
- Endovascular Stent Graft Surgery: Minimally invasive endovascular stent graft surgery for thoracic aortic aneurysm(TAA), abdominal aortic aneurysm (AA), transcatheter aortic valve implantation (TAVI), mitral Clip.

Robotic-assisted minimal invasive cardiac surgery











The Global Language of Business

Management Process for high price Class III Medical Device at Taipei VGH

Centralized Purchasing Process

Before Adoption

- Taipei VGH department of Supply Department
- Division of Cardiovascular Surgery and Operation Room Manual Inventory management Process
- Suppliers by TEL order and account reconciliation one month later



The Adoption Purpose of Medical Supply Chain Management System



Material Inventory



- Smart capability managing general medical supplies, consumables, high-value implants.
- Reduce the managing burden of administration personnel
- ■Clear and simple accounting
- Less procurement process
- Less expired inventory in Hospital

Clinical utilization



- ■One Scan and easy use.
- Significantly reduce the problems of out-of-stock.
- ■Lower the cost

Healthcare Practitioners



- ■Improve the accuracy of health insurance declaration
- Reduce medical loss of hospital
- provide complete Electronic Medical Records (EMRs)

Suppliers



■Precise reconciliation



Application of WHOLESALE Management System





1978 Taiwan

1983 Seattle USA



Wholesales 7-11 System

The Adoption Customized System since 2013



Complicated Waste of Man-power

Nurses/ MD suppliers/ Purchaser/ IT

- Upload Database during Registration
- Manual Data-checking
- Precision Rate: 50-60%
- Multi-systems
- High risks on Information Security

Traditional

EASY to USE



EASY INTEGRATION on Clinical systems

- Smart Algorithm
- Easy Integration of Existing Clinical Systems
- Precision Rate: 100%
- Cloud Computing: Easy Integration on data (clinical/ logistics/ suppliers)
- Low risks on Information Security

NEW Design

(GS1

One Item, one ID (Spirit UDI)

The Adoption of GS1 UDI Standards- A Chief Cardiovascular Surgery Perspective in 2013



No hardware device added





Same Nursing Care Computer

One Scan for Inventory Registry



Current Medical Recordings Methods in Taiwan



- Item Number in Hospital
 - One Item Number for Numerous Medical Equipment
 - Diverse Hospital-dedicated Own Item Number
 - Nurses-serviced Centered Pricing and Reimbursement Insurance Declaration
- Burdens on Nurses
 - Reorder of Medical Equipment by Phone
 - Communication between Nursing Colleagues and Medical Devices Manufactures/Wholesalers
 - Extra Un-nursing Services After Surgery
 - Lengthy Time On Closing the Ledger and Requesting for Invoice





Current Medical Recordings Methods in Taiwan



Manpower-Serviced Centered Recording Process

Patient Photographic Image Numbering Books

Used Medical Equipment Recording Notebooks

- Surgery Participants Recording Notebooks

Triplicate Paper Forms on Pricing

Phone Ordering and Reordering Notebooks







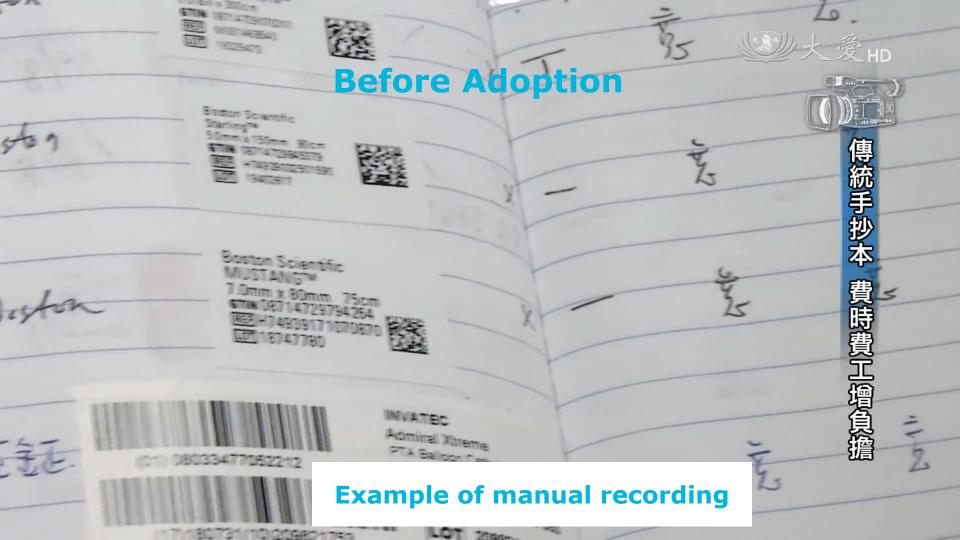


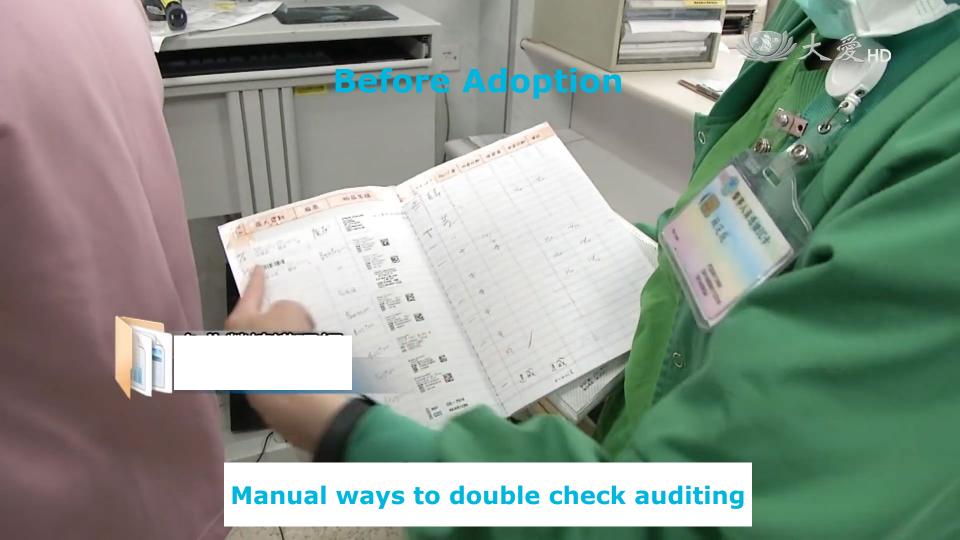
- Infinite Medical Equipment
 - Periodic Self-Inventory Check from Manufacturers and Wholesalers
 - Frequent Discrepant Data and Delayed Procurement on Current Inventory
 - Require Designated Nurse on Medical Equipment Management





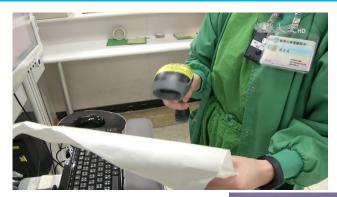






Current process after adoption of UDI system







Just one scan to get all information of Product data



Detailed Recording Easy Auditing



The Frequent Encountered Problems on the Adoption of GS1 UDI Standards

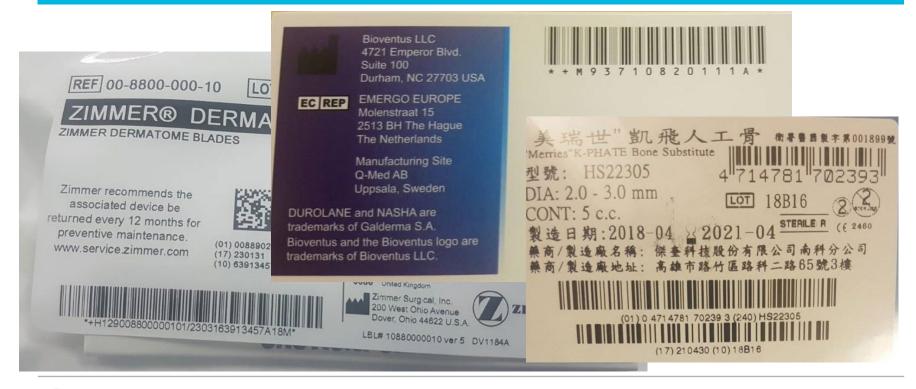


- 1. Insufficient Cognitions on UDI Standard of Medical Equipment Manufacturers and Wholesalers
- 2. Database is Inappropriate for UDI Decoding
- 3. Hardly Achievement on UDI Barcode Information of Imported Implants and Medical Equipment
- 4. Difficult Data Interfacing with the Old Hospital System
- 5. Nurses resistance on Electronic pricing process
- 6. Unreadable UDI barcode and Ingrained Pricing behavior on nurses



Different kinds of label layout increase the difficulties for human-eye identification and machine scan







The Impacts of UDI Standard Adoptions on Patient Safety



- **Before** UDI adoption, the information such as batch no. and Expiration date is not so easy to manage. This is no doubt against patient safety.
- After UDI adoption,
 - Increase the automated administration of surgical operating room (pricing, declaration)
 - Avoid misusing or accessing of the expired products.
 - Complete the medical and nursing records of patients immediately.
 - Improve the turnover rate of operating room and the surgical quality and nursing care.

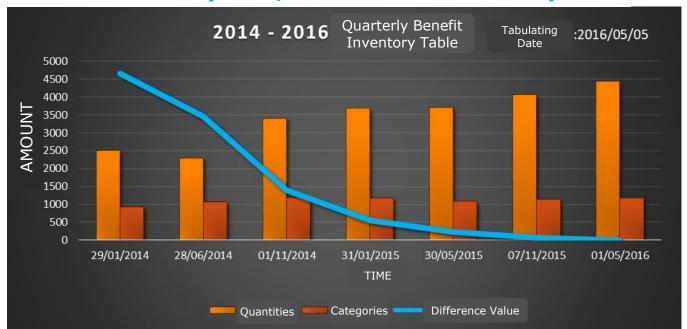




The Benefits of UDI Standard Adoptions in Department of Cardiovascular Surgery



Loss before UDI adoption; Gain after UDI adoption





Income Growth of Medical Device after UDI adoption



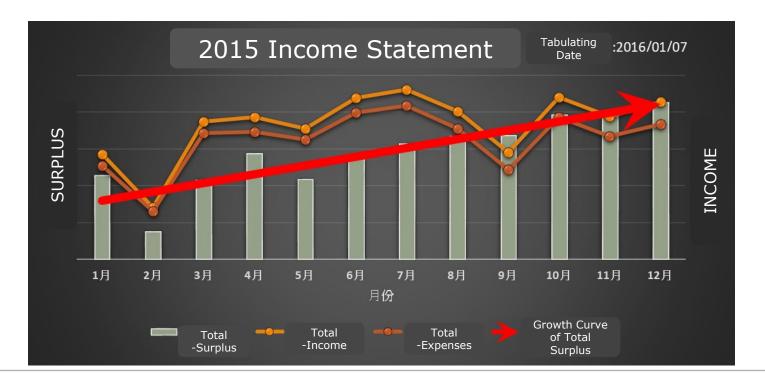




Chart of Cost Analysis



Cost Analysis on Sets

(2016/01/01~2016/05/10)

Items Name (Sets)	Total Expenses (average)	Total Income (average)	Implied Income (average)	Surplus (average)	GPM (average)	Income Percentage (average)	Income Percentage (no implied income)
Cook AAA Stent Graft	379263.3	493527.8	14453.9	128718.3	24.10%	77.68%	75.09%
Cook AAA Stent Graft(一段式)	46482.0	56686.0	12769.7	22973.7	29.11%	82.00%	59.47%
Cook TAA Stent Graft	423310.0	487000.0	7124.5	70814.5	14.31%	86.96%	85.44%
Cook TAA Stent Graft(一段式)	407160.0	468000.0	0.0	60840.0	13.00%	87.00%	87.00%
Cook TAA Stent Graft(二段式)	407160.0	468000.0	0.0	60840.0	13.00%	87.00%	87.00%
Cook TAA Stentgraft - 1支	407160.0	468000.0	6348.9	67188.9	14.14%	87.00%	85.64%
Cook TAA Stentgraft - 3支	363375.0	427500.0	28347.0	92472.0	20.29%	85.00%	78.37%
GORE TAA Stentgraft - 1支	402632.0	470877.2	7660.6	75905.8	15.78%	85.56%	83.93%
GORE TAA Stentgraft - 2支	363375.0	427500.0	52634.0	116759.0	24.32%	85.00%	72.69%
Gore-AAA 一段式-PXC	47230.0	56686.0	0.0	9456.0	16.68%	83.32%	83.32%
Gore-Excluder AAA Stent Graft	366846.0	431534.5	10344.7	75033.2	16.92%	85.00%	82.62%
Gore-Excluder TAA Stent Graft	402632.0	469438.6	3326.1	70132.7	14.78%	85.80%	85.10%
Gore-Excluder TAA Stent Graft一段	429780.0	468000.0	0.0	38220.0	8.17%	91.83%	91.83%
Gore-Excluder TAA Stent Graft二段	429780.0	468000.0	0.0	38220.0	8.17%	91.83%	91.83%
Medtromic -Endurant AAA	342000.0	427500.0	3269.1	88769.1	20.58%	80.00%	79.24%
Medtromic -Valiant TAA	402632.0	468000.0	631.1	65999.1	14.08%	86.03%	85.90%
Medtronic Cora-Valve System(1)	990000.0	1070000.0	581.0	80581.0	7.53%	92.52%	92.47%
Medtronic TAA Stentgraft - 1支	402632.0	468000.0	3956.0	69324.0	14.69%	86.03%	85.19%
Total	441668.4	512017.4	6957.4	77306.5	15.85%	85.47%	83.66%

The Global Language of Business

Conclusions



UDI brings benefits:

- 1. Efficiency for Hospital management
- 2. Accuracy for Healthcare practices
- 3. Easy & simplified accounting
- 4. Income profits for Hospital execution





"Smart" Medical Care and Management Process



Contact Information



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Why standardize? Why UDI? A work floor perspective

34th Global GS1 Healthcare Conference Bangkok, Thailand

Dr. Hinne A. Rakhorst, Plastic Surgeon, Medisch Spectrum Twente, Enschede, Chair, Dutch Association of Plastic Surgeons, ICOBRA member, The Netherlands

October 30, 2018









Why standardize?

Why UDI?

A work floor perspective

Hinne Rakhorst Babette Becherer, Marc Mureau, Juliette Hommes, Xavier Keuter, Pauline Spronk,, Manuel Harmsen All plastic surgeons in the Netherlands

Disclosures

None other than voluntary professional board work

No connections to industry

Thank you

Here for you

Questions/requests; Rakhorst@gmail.com

SLIDES ARE SHARED

STRONGER TOGETHER

Nobody really knows how many women have them

Breast implants;

Who knows someone with breast implants?

Estimate 1:30 adult Dutch women

Approximately the same as hip athroplasties



70% vs 30%

Esthetic vs Reconstructive

Many types, few variables

Texture; Smooth vs macrotextured vs microtexture vs nanotexture

Shape; Round vs Anatomical

Fill; Saline fill vs silicone vs methylcelullose vs air

Coating; Silicone vs polyurethane coating

Duration; Temporary (tissue expander) vs Permanent

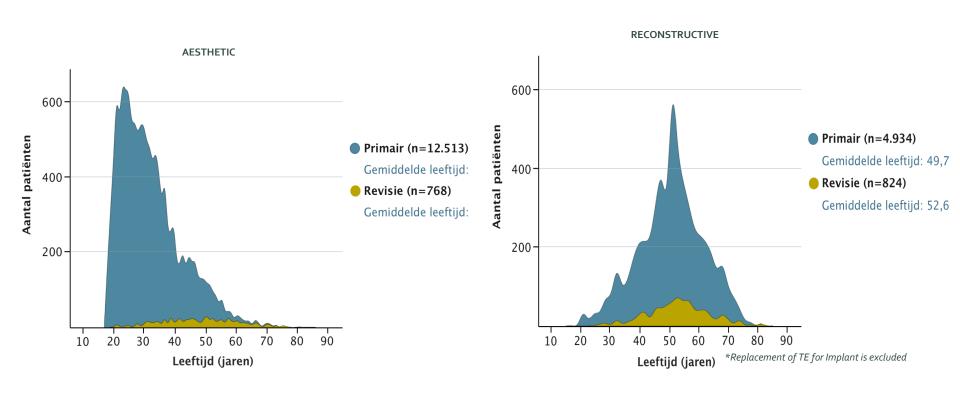
Large international variation in preference



Breast implants are safe implants, class III

Breast implants have adverse events

Breast implants often need revision surgery



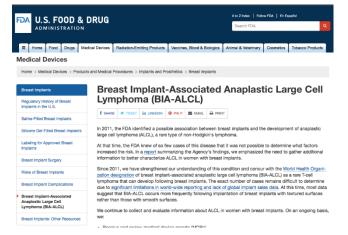
Breast implants have serious adverse events

HEALTH

A Shocking Diagnosis: Breast Implants 'Gave Me Cancer'

By DENISE GRADY MAY 14, 2017





Breast implants and Anaplastic Large Cell Lymphoma



Scientific Committee on Health Environmental and Emerging Risks SCHEER

Scientific Advice on

The state of scientific knowledge regarding a possible connection between breast implants and anaplastic large cell lymphoma



The SCHEER adopted this advice by written procedure on 5 April 2017

Breast implants have serious adverse events so what do we tell

What is the risk?

Risk; Numerator Denominator

Number of cases

Total number of women that have implants

Challenge

≈ Rough estimate number of cases

≈ Rough estimate number of women that have implants

Challenge

≈ Rough estimate number of cases

≈ Rough estimate number of women with **types of** implants

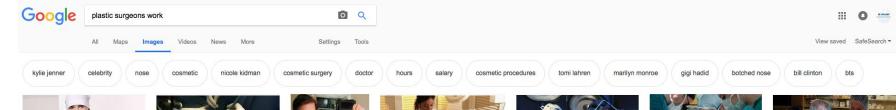
Solution come when we know about; Numbers Types

So register these data

What do you think I do all day?

SIDOOD

knows





Patients Complain of Plastic Surgeries ... geniusbeauty.com



What Does a Plastic Surgeon Do? | Chron.c... work.chron.com



Plastic Surgery Facts plasticsurgervfacts.blogspot.c...



The Salary of an Esthetician Working ... work.chron.com



Plastic surgeons offering revolutionary ... irishmirror.ie



Jobs in Cosmetic Surgery ... wisegeek.com



GLZG.ORG - Training of Surgeons glzg.org



Cosmetic surgery can be an 'aggression ... catholicherald.co.uk



Choosing The Right Plastic Surgeon ... divalikes.com



Surgery - Wikipedia en.wikipedia.org



Careers in Plastic Surgeons' Offices ... work.chron.com



Weekly Earnings for a Plastic Surgeon ... work.chron.com



AAMC plastic surgeon gives back through ... aamgplasticsurgery.com



What are the Different Surgeon Jobs ... wisegeek.com



Jobs: Women Consider Plastic Surgery to ... abcnews.go.com



The 20 Richest Plastic Surgeons in the ... moneyinc.com



hair transplant surgery on April 27 ... gettylmages.com



What does a Plastic Surgery Nurse do ... wisegeek.com



Cuthbertson's Volunteer in Nepal ... chuffed.org



Making Plastic Surgery Work for You ... lynchburgbusinessmag.com



plastic surgeons undergo cosmetic ... belvedereclinic.co.uk



February 2012 ENT/Plastic Surgery ... lao-foundation.org



Plastic Surgery rebelcircus.com



How To Find Cheap Plastic Surgery and ... smartguy.com



Plastic surgery addict left with ... news.com.au



plasticsurgeonsnyc.com



Kylie Jenner's Plastic Surgery - Spent ... medium.com

My surgical working day

Registration time

Surgery

- 1-8 patients
- Surgery is great
- 'turn over time' is 5 minutes
 - Write or report
 - Write discharge letter
 - Pills
 - Call family
 - Focus on next case, read notes
 - Say hi to next patient
 - Mark up next patient
 - Have coffee
 - EXTRA TIME

So what about breast implants?

so what can we tell patients/ clients/ citizens / salespersons

Breast implants have serious adverse events

Challenge

Rough estimate number of cases

Rough estimate number of women with **types of** implants

Need to register data

Need to register data

Big data

Need to register data Big data

NO TIME!

DBIR

Dutch Breast Implant Registry

Start 2015

National

All patients

All procedures

Data

Patient;

Name

Age

History?

Other diseases

Surgery

L/R/L+R

Cosmetic/reconstructive

New or exchange

Implant

Shape

Texture

Fill

Patient characteristics Unique patientnumber, clinic* What is the ASA classification before operation* A normal healthy patient. A patient with a mild systemic disease. A patient with a severe systemic disease that limits activity but is not incapacitating. A patient with an incapacitating systemic disease that is a constant threat to life. Texture* A moribund patient not expected to survive 24 hours with or without operation. Textured ASA unknown O Smooth Nicotine abuse* Side of operation* O Yes Coating* O No Right O Silicone O Not known Left O Polyurethane O Other Height in centimeters* Weight in kilograms* Indication of surgery* O Silicone O Cosmetic augmentation O Saline Hydrogel Reconstruction post cancer Other Reconstruction benign Congenital deformity Shape* Reconstruction post profylactic mastectomy O Round O Shaped / Anatomical Weight/Volume of implant (cc or gr)* In case of revision, register indication and timing (if applicable) of primary surgery. Volgende sectie Toevoegen device Het maximum aantal records is al bereikt (1)

Timing initial reconstruction*

Results



DUTCH BREAST IMPLANT REGISTRY (DBIR) ANNUAL REPORT 2015 – 2017





Rederlandse Vereniging voor Plastische Chirurgie) handchirungle, recombructieve en exthetische chirurgie

40.000 implants

(2015 - 2017)

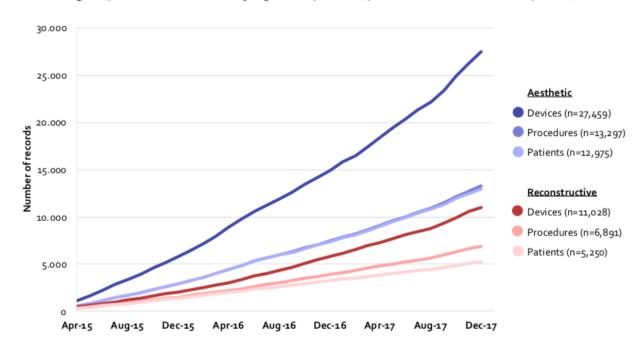
Total number of

• Patients ± 18.000

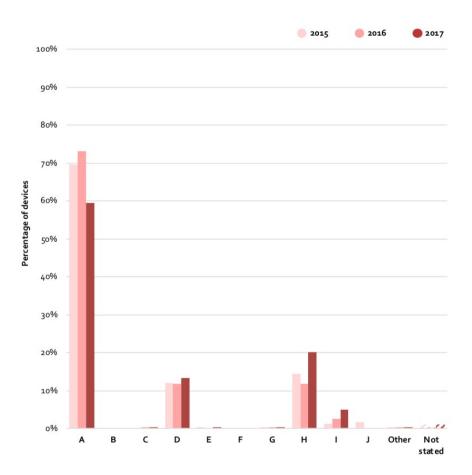
• Operations ± 20.000

• Implants ± 38.000

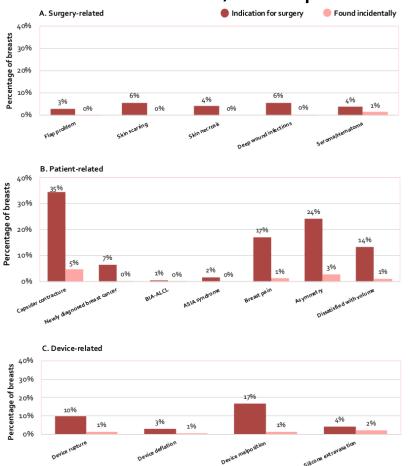
Figure 3. Cumulative number of registered patients, procedures and devices (2015 – 2017)



Vendor distribution



Adverse events; reoperation







International Collaboration of Breast Registry Activities

25 countries





International professionals all want the same data ICOBRA set of minimum datapoints

ICOBRA MINIMUM DATA SET; implant

- UDI; serial number/Lot
- Producer
- Texture
- Fill
- Shape
- Volume of implant



We have an international professional standard



DUTCH BREAST IMPLANT REGISTRY (DBIR) ANNUAL REPORT 2015 – 2017



DUTCH BREAST IMPLANT REGISTRY









BRIMP-BREAST IMPLANT REGISTER ANNUAL REPORT 2017





Lessons learned;

- Reduce typo's
- Reduce administrative time
- Enhance re-use of already registered data
- Use IT
- Enhance reliability in tracing and output

What would help?

• A single indentifier for an implant

What helps?

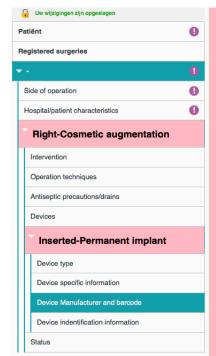
• UDI Unique device Identifier

What did we do to make use of UDI?

Choose one

- Ask industry for support
- Ask government for guidance

Made it functional

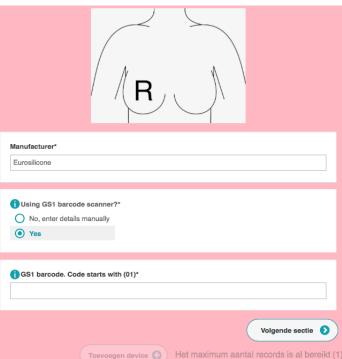


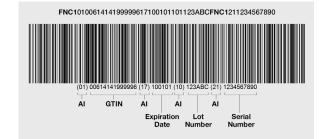


General information:

IMPLANT REGISTRY

- Registration of a patient is finished when all errors
 have disappeared.
- Please visit the DICA website for instruction videos (section DBIR - Documenten).







Barcode modality

- Less typos
- Quicker entry
- More reliable output;
 - Manufacturer
 - Surgeons
 - Patients
 - Society

Future

More automation



Unique Device Identifier





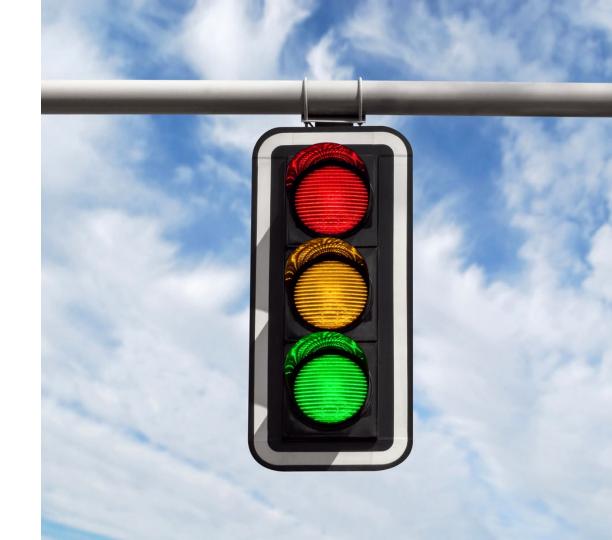
Key to

Fixed number of globally agreed device datapoints



Stakeholders

- Surgeons
- Patients
- Hospitals
- Industry
- Governments









Why standardize?

YES PLEASE

Hinne Rakhorst Babette Becherer, Marc Mureau, Juliette Hommes, Xavier Keuter, Pauline Spronk,, Manuel Harmsen All plastic surgeons in the Netherlands





Do clinicians care about standards?

34th Global GS1 Healthcare Conference Bangkok, Thailand

Wrap up

October 30, 2018



Do clinicians care about standards? Wrap up



A vision, a plan, a roadmap and global sharing facilitates good implementations

Clinicians are used to procedures and protocols for the content of their work

GS1 standards / identifiers support aggregation and decision making

GS1 is an enabler to assure the patient rights in healthcare









GS1 in clinical processes: correct product data support quality & safety, efficiency & cost containment





Thank you very much for your attention

