









Lean London Forum

11th February 2010

Royal College of Surgeons - Holborn



We have several broad aims

- To create the environment where Lean Solutions in the NHS are shared, discussed and acted upon by practitioners in the Health service
- To engage in a debate about strengths and weakness of lean in the current NHS climate
- To network and with new colleagues and friends



Agenda

•	1800 - 1805	Introductions to Speakers, Agenda and Ground Rules Rob Worth, kinetik solutions
•	1805 - 1825	Challenges in Implementing Lean - A Clinical Perspective Dr Ahmed Chekairi - Whittington Hospital
•	1825 - 1835	A Better Definition of 'Value' in Lean Ketan Varia - kinetik Solutions
•	1835 - 1900	Lean in the pharmaceutical drugs supply process Niall Ferguson - Milton Keynes Hospital
•	1900 - 1930	Questions and Answers from practitioners Facilitator - <i>Ketan Varia</i>
•	1930 - 2000	Networking and Drinks

Challenges in Implementing Lean, a Clinical Perspective

Ahmed CHEKAIRI

MD, FRCA, PGCert Management in Healthcare Consultant Anaesthetist, Whittington Hospital

Lean London Event: Royal College of Surgeons 11 February 2010



Organisation Structure







Leadership



'Develop leaders who live your system from to top Bottom' *The Toyota way* chapter 10: 219-241





Leadership

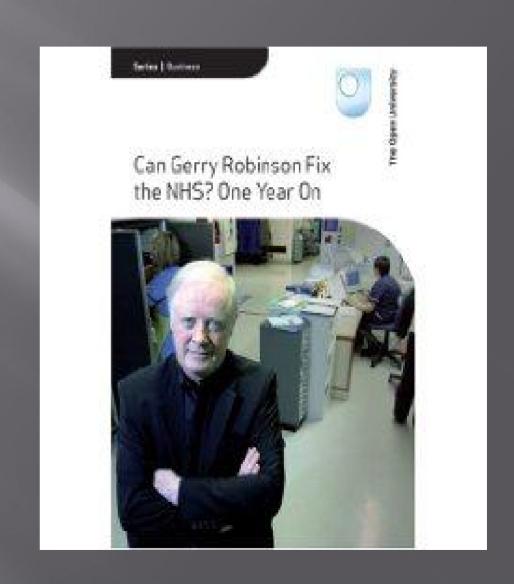


'Develop leaders who live your system from to top Bottom' *The Toyota way chapter 10: 219-241*

NHS

'what strikes managers
entering healthcare
organisations from other
sectors, whether from
public or commercial
sectors is the absence of
defined hierarchical
structures for command
and control'

Sir Roy Griffiths, 1983



Customer & Product









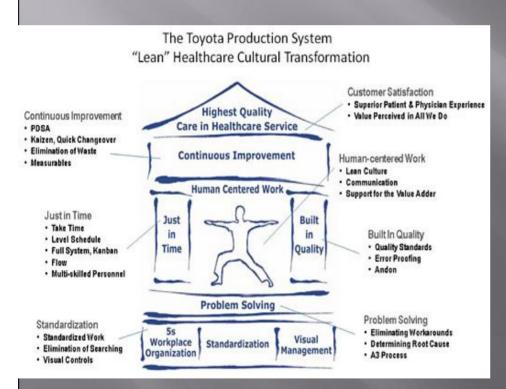


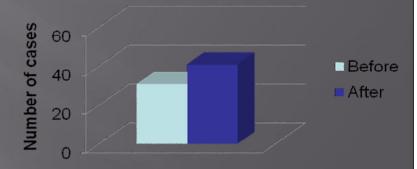
Measuring Performance



NHS

Number of cases done before and after introduction of Trauma List Plan





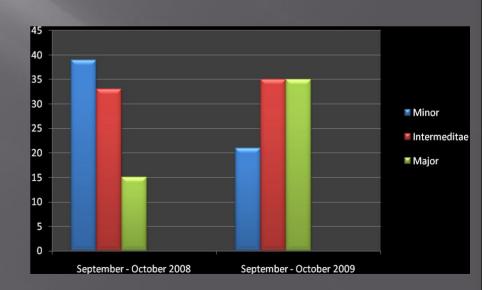


Figure 1. The types of trauma operations performed in September and October 2008 and 2009

DATE: 14 Feb 2010 THEATRE: 2 AM/PM

SURGEON: Mr Smith ANAESTHETIST: ?

First/Family name	Sex	Hospital Number	Date of Birth	Ward	Operation	G&S(Units crossmatched)*	Other information**
Ms JK	F	32555564	21/02/23	JS	Right knee replacement	?	
Mr LKH	М	45566565	03/12/44	МН	Right knee replacement	?	
MrTHJ	М	45456666	25/07/33	VH	Right hip revision	4	Diabetic
4							
5							
6							
7							

*If risk of >500ml blood loss (7ml/kg in children), ** alert like: MRSA, diabetes, latex allergy, operation urgency

In case of cancellation or change of order of the list, please bleep the floor lead on 2709

DATE: 14 February 2010 THEATRE: 4 AM/PM

SURGEON: Mrs Smith ANAESTHETIST: Dr White

First/Family name	Sex	Hospital Number	Date of Birth	Ward	Operation	G&S(Units crossmatched)*	Other information**
MrJHY	М	7579598	12/09/56	НЈ	Right knee replacement	2	
Mrs MJA	F	87479730	12/11/12	ER	Right knee replacement	2	
Mr FGJ	М	897429970	23/07/67	НС	Right Hip revision	?	
4							
5							
6							
7	T						

*If risk of >500ml blood loss (7ml/kg in children), ** alert like: MRSA, diabetes, latex allergy, operation urgency

In case of cancellation or change of order of the list, please bleep the floor lead on 2709

How do measure safety?





Waste



- 1. Overproduction
- 2. Transportation
- 3. Waiting
- 4. Inventory
- 5. Motion
- 6. Defects
- 7. Over processing





Philosophy/Culture



NHS

"experienced leaders within
Toyota kept telling me that
these tools and techniques
were not the key to TPS. Rather
the power behind TPS is a
company's management
commitment to continuously
invest in its people and promote
a culture of continuous
improvement." (The Toyota
Way; J Liker)

'Thank you so much for the unexpected present which I found in.... Take every opportunity of work that is offered to you both in the NHS....Make friends out of everyone: porters, switchboard,.... And learn to be patient: you now have decades ahead of you in which to get things right,...' (Mentor)





'Toyota's defence strategy: Wrap itself in the American flag'

'The car in front was a Toyota... now can it find road to recovery? '

'Toyota recalls, hydrogen cars and James Hunt's Porsche'

'Toyota The company's problems sharply illustrate the failings of Japanese corporate Governance'

Belief...'be lean'





kinetik solutions



Lean Principles and Processes - Understanding 'Value' to drive change

Ketan Varia - kinetik solutions

February 11 2009

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Recap – What is Lean?

- Focus on Value from a Customer (Patient) point of view on every step of process
- Obsession on removing waste within the 'whole system'
- Bottom up approach in identifying value and waste assumption that much of waste and value is hidden
- A true lean system would "flow" and need little command and control



What does Value mean?

What this means

•The customer normally defines value

Value

•What does the process 'change' that someone is willing to pay for

What this means in the NHS

- Anything that transforms patient care and experience, otherwise it is waste:
 - meets expectations all the 'value' elements of a journey
 - would recommend the experience to a friend/relative
- Customer is normally the patient/GP, but may be other stakeholders (who is the customer?)



Current methods of patient experience analysis are poor and reveal little

"We need a tool that provides rapid, simple feedback from patients to staff in order to improve their performance. The current method is not helpful to those of us who wish to improve the patient experience"

Dr John Coakley – feature writer HSJ journal July 2008

"Patient experience - Quality of care includes quality of caring. This means how personal care is — the compassion, dignity and respect with which patients are treated. It can only be improved by analysing and understanding patient satisfaction with their own experiences"

Lord Darzi- NHS Next Stage Review June 2008

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Patient/Stakeholder value is based around four attributes and managing expectations

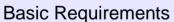
Satisfying Features

- Features where satisfaction and dissatisfaction are in line with availability and performance.
- "more is better", the better the performance, the more satisfied the service user will be.

Attractive features

- Features that the service user perceives as unusually high in value.
- Can achieve disproportionately high satisfaction.





- Elements of the service that are taken for granted as 'must be there'.
- Huge dissatisfaction if missing or if performance is poor
- Only limited satisfaction if available or performed well.

Indifferent

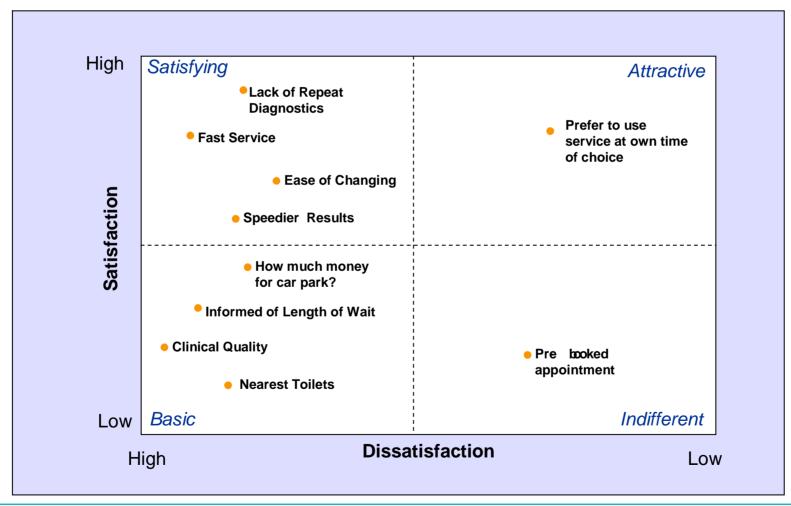
- Elements which the service user does not consider important, on deeper examination.
- Dissatisfaction if service element missing is low

Patient Expectation Provider Expectation



Elements of the patient experience should be categorized around a matrix of satisfaction/dissatisfaction

Example – Diagnostic Service





Managing expectations need to be aligned around all elements of service





Mismatch in Expectations is a critical element of measurement Example – Diagnostic Area

Patient/Stakeholder Expectations

Basic

- Need to know in advance how much money to put in car park
- How long will I wait?
- Where are the nearest toilets?
- Professional service

Satisfying

- Easy to change in cubicle
- Quicker the journey the better
- Speedier the results the better
- Adapted X-Ray for certain patients*

Attractive

Prefer appointment date/time of their choice

Trust Expectation

Basic

- People arrive dressed appropriately
- Professional clinical service

Satisfying

- Quicker the journey the better
- Speedier the results the better
- Little re-work for diagnostic test (right first time)

Attractive

Absence of DNA

Gathering patient experience information needs to be done in a 3 leg approach



 Understand latent and functional elements with a dialogue on the experiences of a sample of patients.



 Focus on giving choice in the fields of basic, satisfying, attractive. SERVICE ELEMENT DEFINITION

Appreciative Enquiry

Create Appropriate

Questionnaire & Analyse

Stakeholder Interviews & Workshops



•Articulate a list of features and functionality with a wide range of stakeholders (including clinicians, GPs, administration)

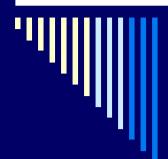
Our approach for defining service elements is in depth and ensures our Kano Survey is enabled for success



The 'value' part of Lean needs more exploration in an NHS service environment

- Current methods of the 'value' a service provides needs exploration in four dimensions
- Exploring 'value' mismatches from stakeholders is what the start point of sustainable service improvement
- Value can be delivered before doing detail process mapping/Value stream mapping





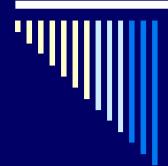
Milton Keynes Hospital

- 500 bedded District General
- □ Average length of stay 3 4 days
- Located centrally
- 25 years old
- Expanding services
- Repatriating patients
- □ Population of 270,000 and growing



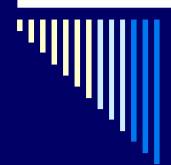
Lean in the Drug Supply Process

- Dispensary
- Stores
 - Goods receipt
 - Distribution
 - □ Top up
- Procurement



W. Edwards Deming

"Trying harder is the worst plan."

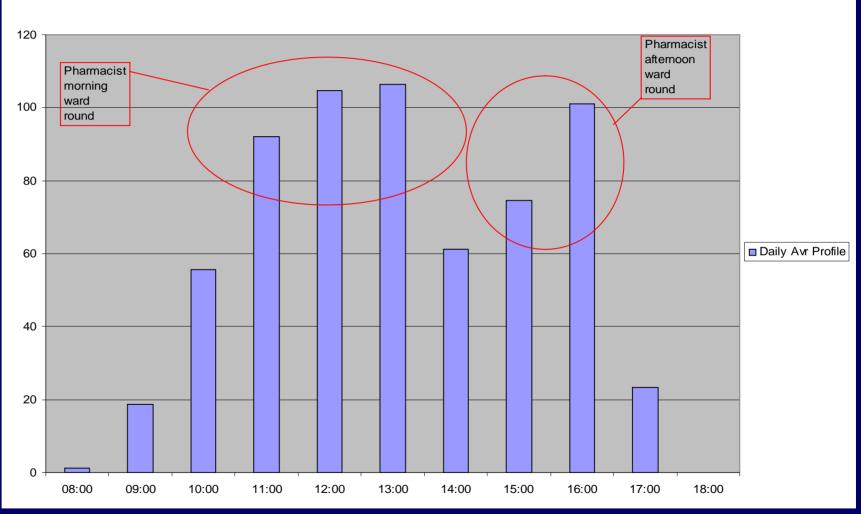


Paul Batalden

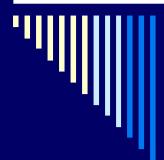
"Every system is perfectly designed to achieve exactly the results it gets."





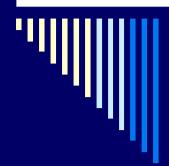


Tracker/Hatch Co-Ordinator Validation	Extra Duties Controlled Drugs PEC Study Emergency Boxes
Co-Ordinator	PEC Study Emergency
	Study
Validation	Emergency
	Boxes
	Top-Up
	Тор-ор
	Annual Leave



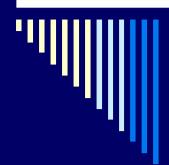
Project Activity

- Mapped process
 - Confirmed
 - staff
 - Previous work
- Observed staff
- Brainstorming with staff
- □ Trial
- □ Feedback to staff



Concerns / Issues

- Large amount of interruptions telephone calls and reception (Around 4 hours/day)
- No clear roles & responsibilities
- Delays in receiving scripts back to Pharmacy

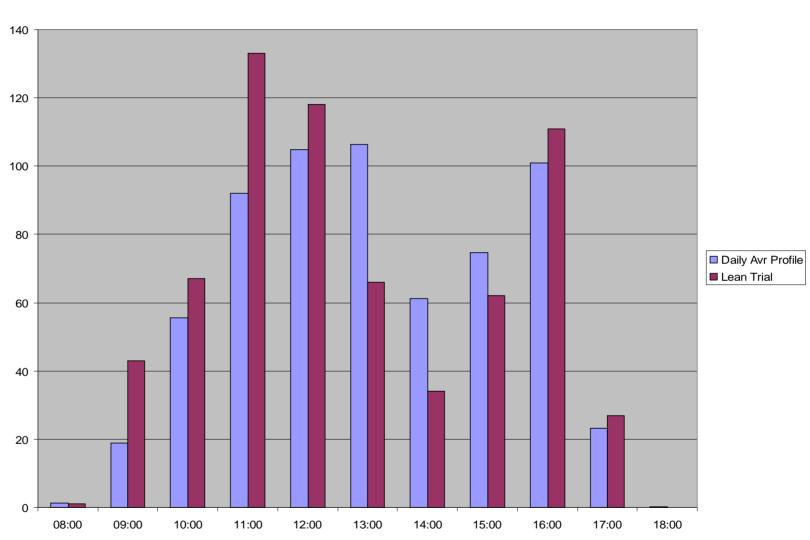


Results

- Much smoother flow of work through Pharmacy 30% more scripts processed before 12:00 v's the daily average.
- 50% reduction in turnaround time.
- □ Time freed up within the working day to utilise for training & housekeeping tasks.
- Reduction of telephone calls during the afternoon











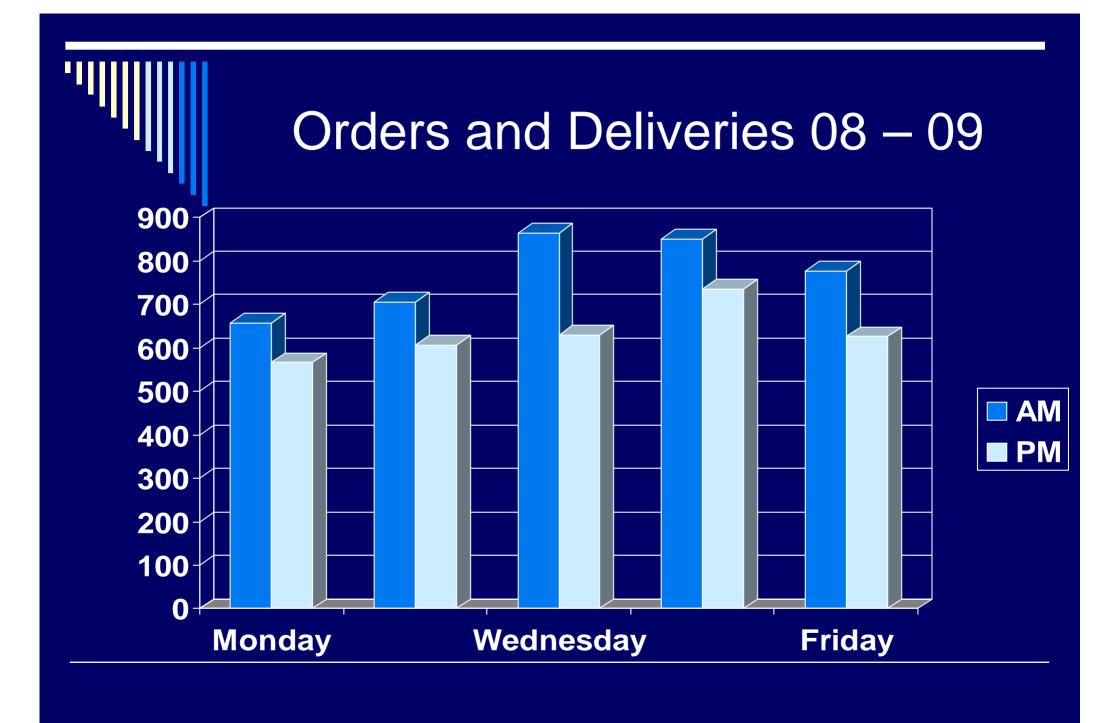


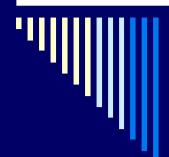


Order and Deliveries

- Before
 - No Deliveries Mon/Tue
 - Order day Tue
 - Deliveries Wed/Thur
 - Wholesalers 2 orders a day

- After
 - Deliveries every day
 - Majority before 1pm
 - Wholesalers 1 delivery a day



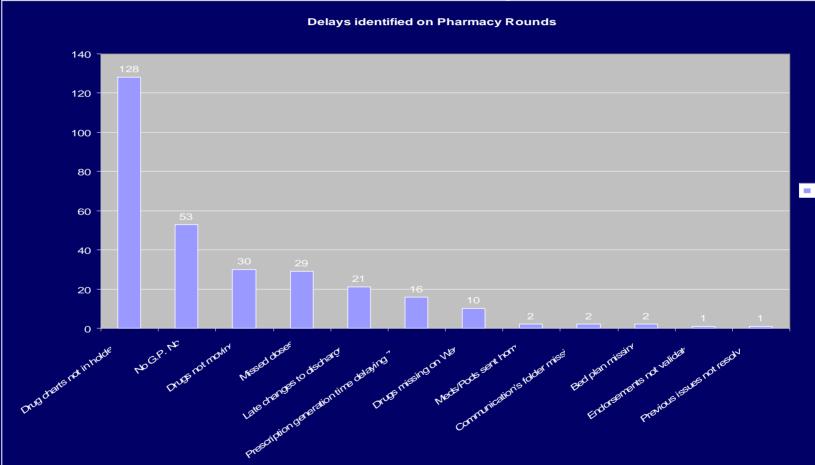


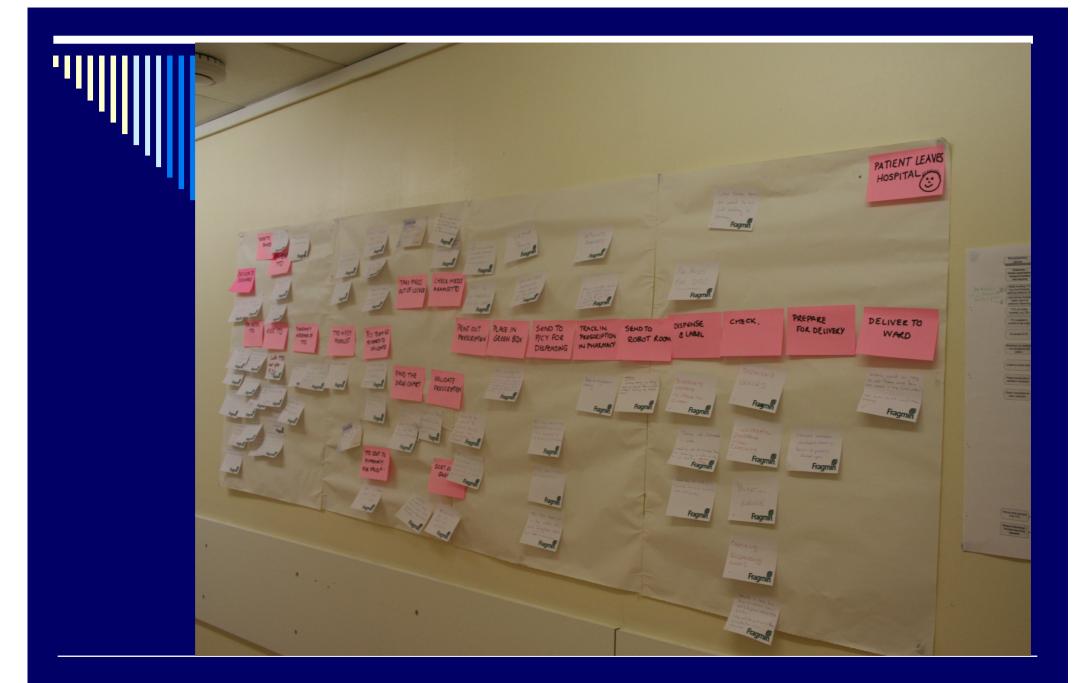
Lean in Clinical Pharmacy

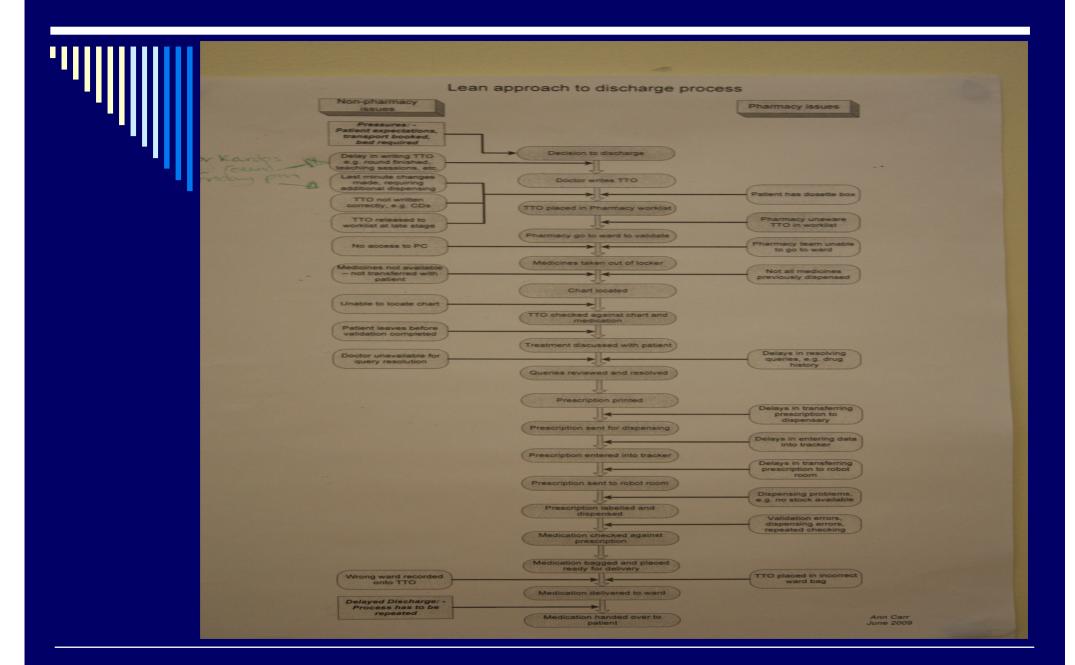
- Delays
- Barriers / problems
- Improvements Productive ward
- Medicines management
- Discharge process



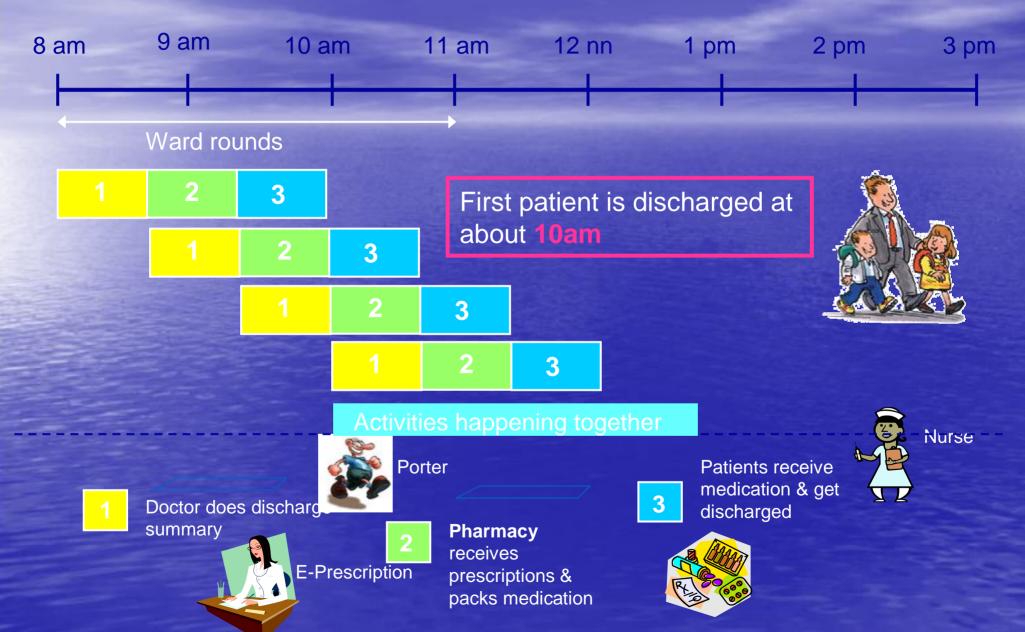
Interruptions to Clinical Pharmacy







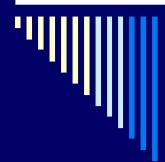
Minimise Batching - Discharge Process (After)





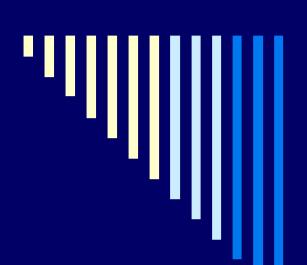
Continuous Improvement

- One off projects
- Way of thinking
- Review all processes
- Small improvements
- Suggestion schemes
- Setting up pilots
- Evaluating changes
- Acceptance by staff



Lessons Learnt

- Involve staff at all stages
- ☐ Give plenty of feedback
- Asking the relevant questions
- Barriers
- □ Test solutions
- Do not be afraid of failure



'First Change Myself'



What's Next?

- Today's presentation and feedback survey sent out by email within 24 hours
- The Next Lean London Form will be on Tuesday, 25th May 2010
 - We will send out reminders to all participants from today
 - If you'd like to take up one our presentation slots, please do let us know. We are keen
 to hear from Ambulance trusts and Mental Health Trusts.
- Kinetik solutions is running a one day 'introduction to lean course' on 10th March – for further details pleas see http://www.kinetik.uk.com/pdf/Course March10.pdf or contact kvaria@kinetik.uk.com



Solution

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