



Overview



- Introduction to the 'Big Room' & 'Flow coaching'
- Diabetes Foot Big Room case study
- Learnings & challenges from the reality of its application in today's NHS
 - Can we mitigate?
 - What can we do as individuals, teams and institutions



What is the 'Big Room'







Microvascular Complications



£1 in every £140 of NHS money is spent on diabetic foot problems.

90% of diabetes budget (0.8-0.9% NHS budget)



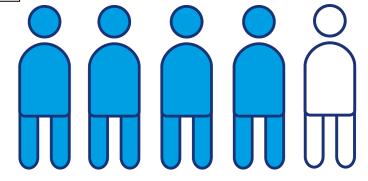


86% of inpatient costs are for ulcer admissions



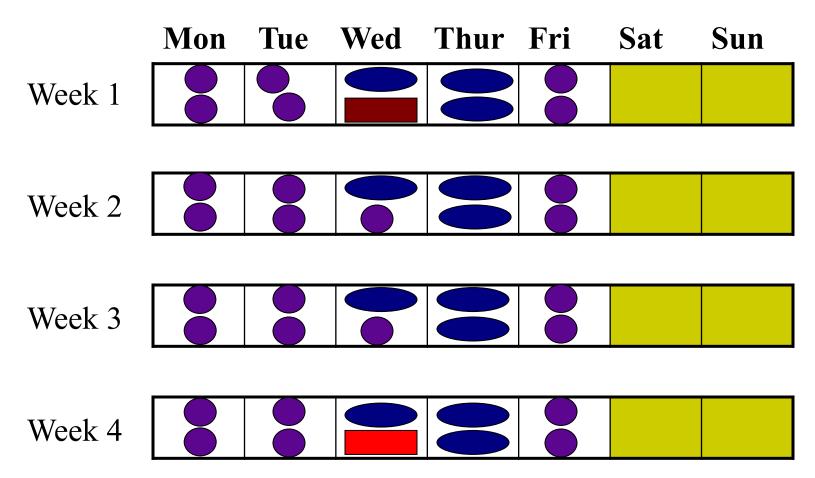
7,000/year

In England there are over 140 leg, foot or toe amputations a week.

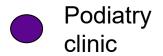


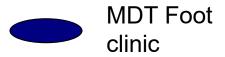
Four out of five amputations could be prevented as 80 per cent are preceded by largely treatable foot ulcers.





Imperial Multidisciplinary Foot Service

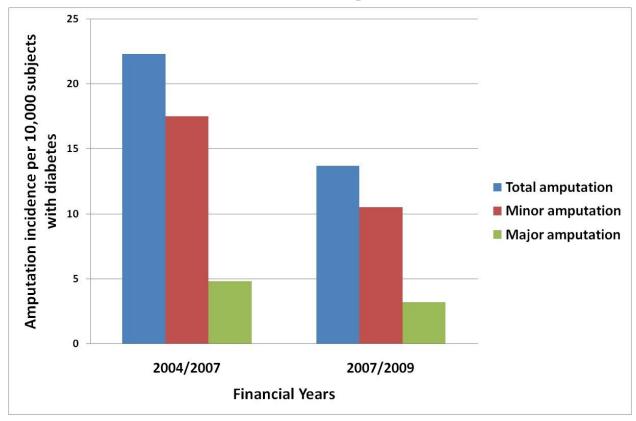








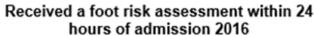
Amputation incidence per 10,000 subjects with diabetes in Westminster treated at St Mary's in financial years 2004-2007 compared to 2007-2009

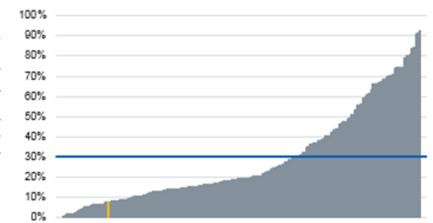


J Valabhji. Reducing Amputations at a multidisciplinary diabetic foot clinic. *The Diabetic Foot Journal* 2011 14 82-87

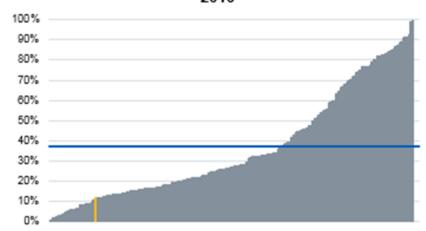








Received a foot risk assessment during stay 2016



Received a foot risk assessment within 24 hours of admission 2010 - 2016

110	urs or aurilissi	011 2010 - 20	10
Audit year	Chosen site	Quartile	England
2010	26.1%	Quartile 3	23.7%
2011	17.5%	Quartile 3	21.7%
2012	22.7%	Quartile 2	29.8%
2013	40.9%	Quartile 3	37.3%
2015*	19.7%	Quartile 2	28.7%
2016	7.9%	Quartile 1	30.1%

^{*} There was no audit collection or report in 2014, so 2014 data is not available.

Received a foot risk assessment during stay 2010 - 2016

2010 -	2016	
Chosen site	Quartile	England
33.5%	Quartile 3	28.4%
23.1%	Quartile 3	26.2%
29.9%	Quartile 3	35.3%
47.5%	Quartile 3	43.5%
30.9%	Quartile 3	34.1%
11.9%	Quartile 1	37.5%
	23.1% 29.9% 47.5% 30.9%	23.1% Quartile 3 29.9% Quartile 3 47.5% Quartile 3 30.9% Quartile 3

^{*} There was no audit collection or report in 2014, so 2014 data is not available.

care 5 Trust

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2017: And then came FLOW...

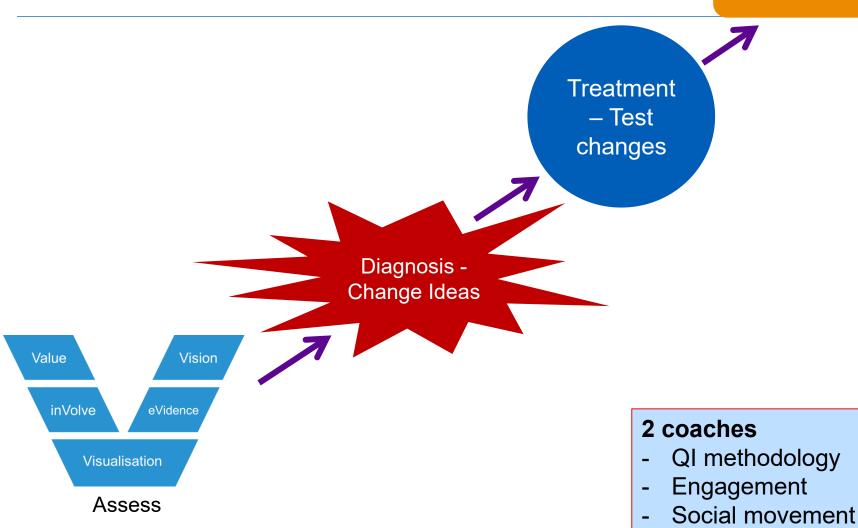




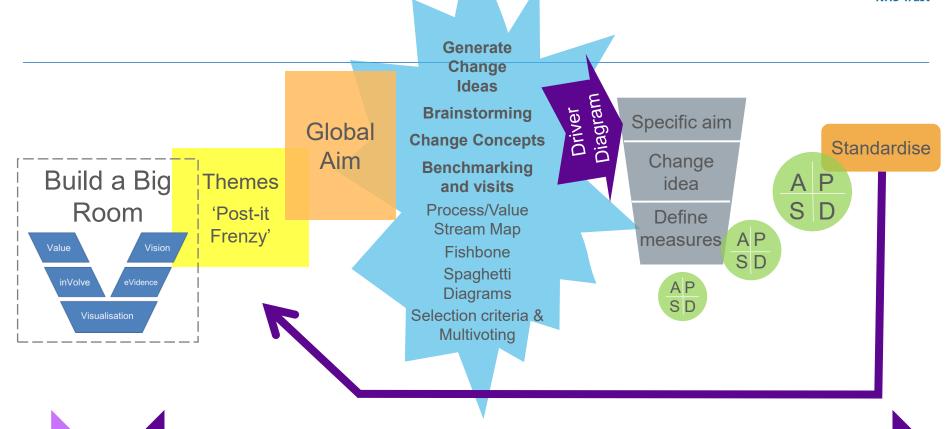
FLOW improvement: the structure



Behaviour change







Pre-Phase

Coached weekly meetings

Patient stories

System data

Reflective learning

Coaching skills



Helping

Active Listening

COM-B

Reframing

Ladder of Inference

Resistance & Reflection

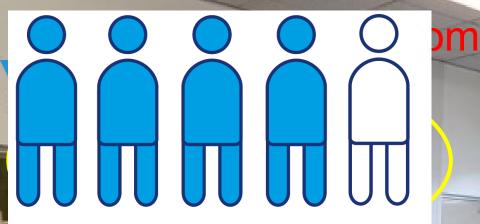
Psychology

ARTS & PEARLS

Giving & Receiving Feedback

Time Management Coaching Roadblocks

Troika Consulting



Four out of five amputations could be prevented as 80 per cent are preceded by largely treatable foot ulcers.

> Early access to expert care

Patient journey & experience

High Interest/Low

Satisfy

High Influence/High Interest:

Closely manage

Stakeholders

High Influence/Low Interest:

Inform

Influence

Effective meetings – for the first time (and always since)



- Conducted in a disciplined manner
- Active participation of all
- Clear action items
- Agenda for the next meeting
- Evaluation of meeting
- Runs to time

Leader Prepares the agenda and help the team move through it by eliciting participation from all.

Timekeeper

- Keeps the team on time by tracking time through each agenda
- Re-negotiates time allocations where necessary
- Announces half time, one minute from end and end times



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What went well?

What could be improved?

Facilitator

- Manages the group processes by ensuring balanced participation from all members of the group
- Alerts the group when the discussion is not focused on the agenda



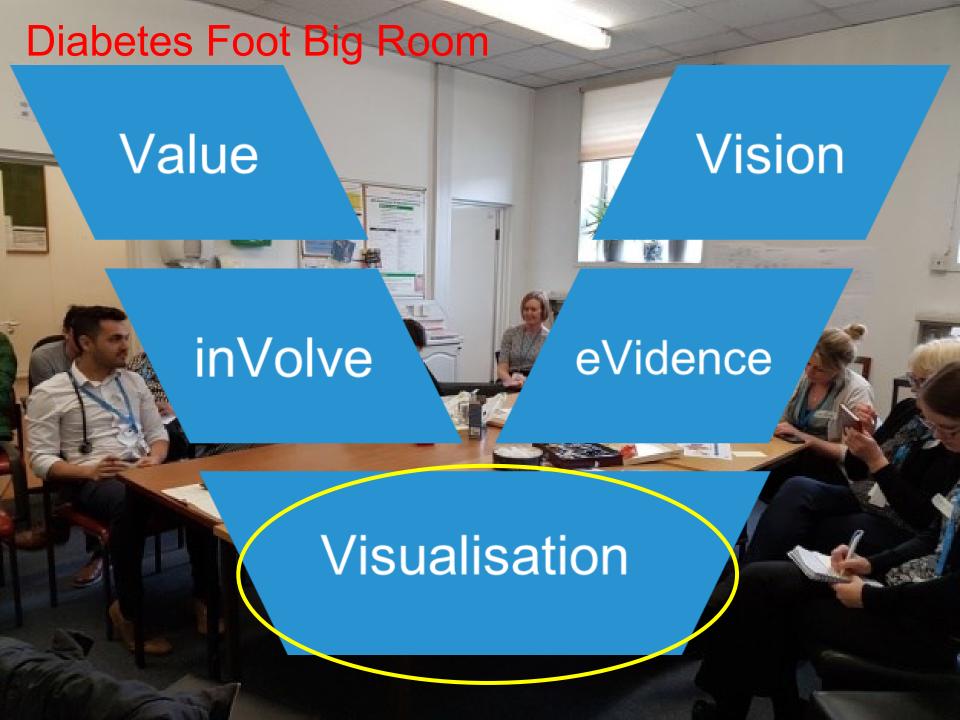


Recorder

- Keeps a visual record for the team
- Tracks the next steps/ action items/parking lot







Process

IR and Vascular delays

- No robust F/U of plasties for renal pts lack of ownership and no pathway
- Antibiotic ownership when given over dialysis
- Some disconnect re anti-microbial resistance – who advises?
- · Few inpatient visits by podiatry on HH wards
- No foot round at HH
- No treat and transfer delays in angio and vascular for pts at HH
- Renal unit not aware when podiatrists are on site
- Timing of foot WR and dialvsis
- Renal ward nurses don't know who to refer to
- Dialysis patients off-site for long periods of time due to transport
- Renal ward nurses don't know who to refer to
 - Service level agreement between renal and podiatry not defined
 - Pts who dialyse at other hospitals e.g. NWP seen by several specialties
 - HD causes pts to miss WR/drugs/podiatry reviews/investigations

- Palliative care involvement can be late
- Foot Waterloo score not done properly
- Access to equipment e.g. prevalon boots, pressure relief mattresses
- Outcome measures quality of life not taken into account
 - Lack of continuity between teams
 - Lack of continuity consultant of the week model
 - Lack of screening falls, cognition, frailty
 - Lack of recognition of DF issue at admission
 - FWR 1xweek and only at SMH
 - · Lack of screening of diabetes inpts
 - EDD not always known or no medical decision on care plans
 - OT/PT time of assessment
 - No defined DF pathways
 - · Board round lack of structure
 - No foot ward round template

Infrastructure

- Service centred care not patient centred care
- Microbiology expertise is at SMH
- No dialysis at HH*
- No interventional service at HH
- Visibility of scans access to duplex results from HH/SMH/CXH
- Renal dialysis at HH while vascular hub at SMH*
- Not all specialist consultants (in endo) are DF specialists
- Thistlewhaite facilities
- Beds capacity and allocation
- · Waits for Zachary Cope
- · Multi-site issues
- No co-location with vascular
- Cerner issues e.g. template delays, no diabetes flags, not user friendly to read notes
- Imaging MRI scanner breaks down
- · Staffing e.g. duplex, nurses on Thistlewhaite

MDT ward

function

Investigations Interventions

Scheduling (dialysis, ward rounds, interventions, surgery)

- Surgery delays due to dialysis*
 - Delays duplex, angio, imaging, surgery
 - Lack of dedicated slots
 - Pts bumped off emergency surgery lists and inpt slots
 - Unnecessary investigations previous history not known/not read
 - Variability & timing of MDT
 - Admit pts to bypass OPD waiting lists
 - Contradictory opinions on right course

Effect:

Long length of stay for diabetic foot patients

- Conservative approach to treatment
- Expectation of long stays leads to not chasing tests
- Frailty status not always performed/identified
- HCPs not reading notes
- Cognition not always determined/identified
 as an issue
- Staff overwhelmed with complex needs of patients and need regular up-skilling from diabetes specialist nurse
- Challenges with dressings on renal wards and centres
- Lack of advanced care planning between foot and renal MDTs
- Main focus on renal/dialysis issues associated comorbidities sometimes overlooked

Institutional competition works against pathway

Between Foot MDT & ward teams

Between Sites

Between specialties

- Between nursing staff and medical team
- Between investigation depts
- · Lack of coordination of care
- With other organisations (GPs, Community, Trusts)
- Difficulty in liaising with satellite units
- Varying levels of clinician engagement
- Lack of communication between microbiology at HH and SMH re foot pts
- Duplication lack of clarity over points of contact

TTA delays

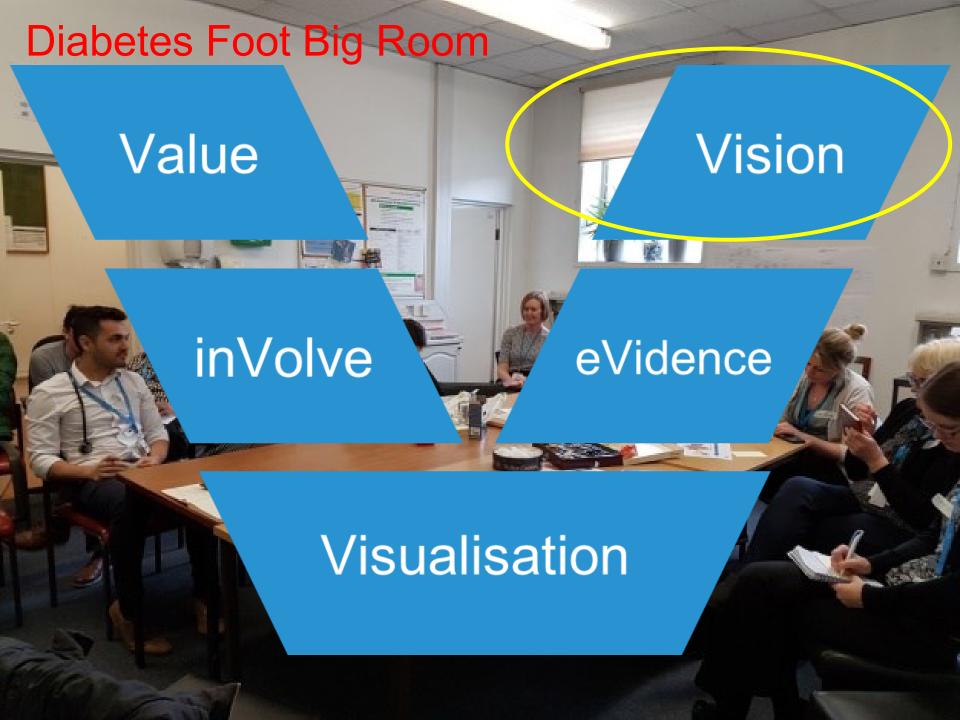
- Late referrals to OT/PT
- New care package delays
- Delays in referring/starting community vac
- No confirmation re DNs receiving referral
- Vac and larvae not provided by all boroughs (Brent & HF)
- · Delay in referral to DN
- Social Services

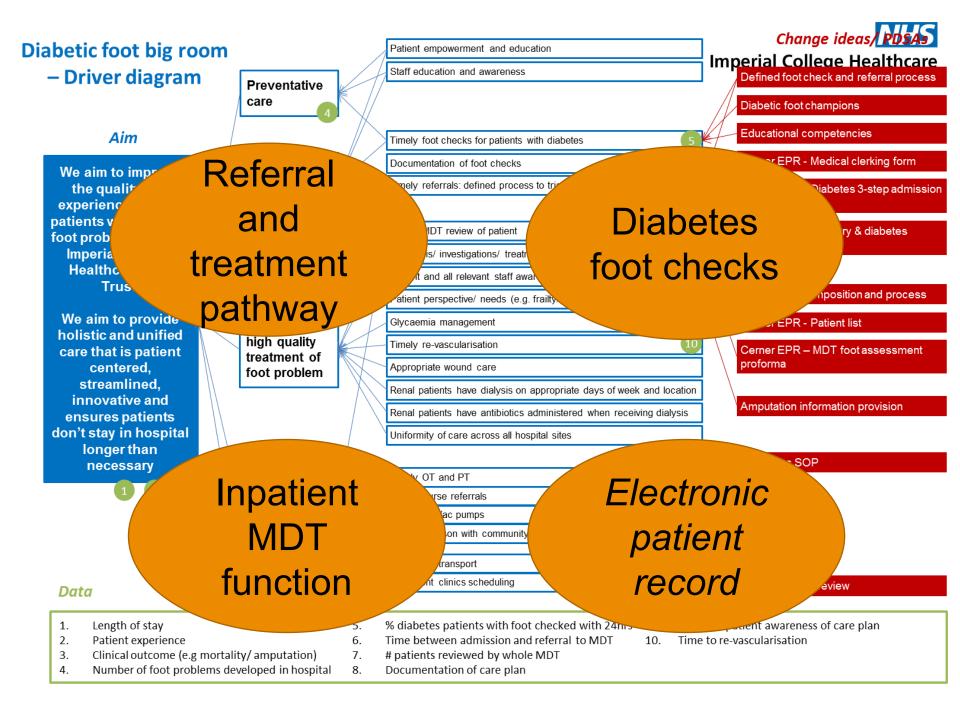
People Factors

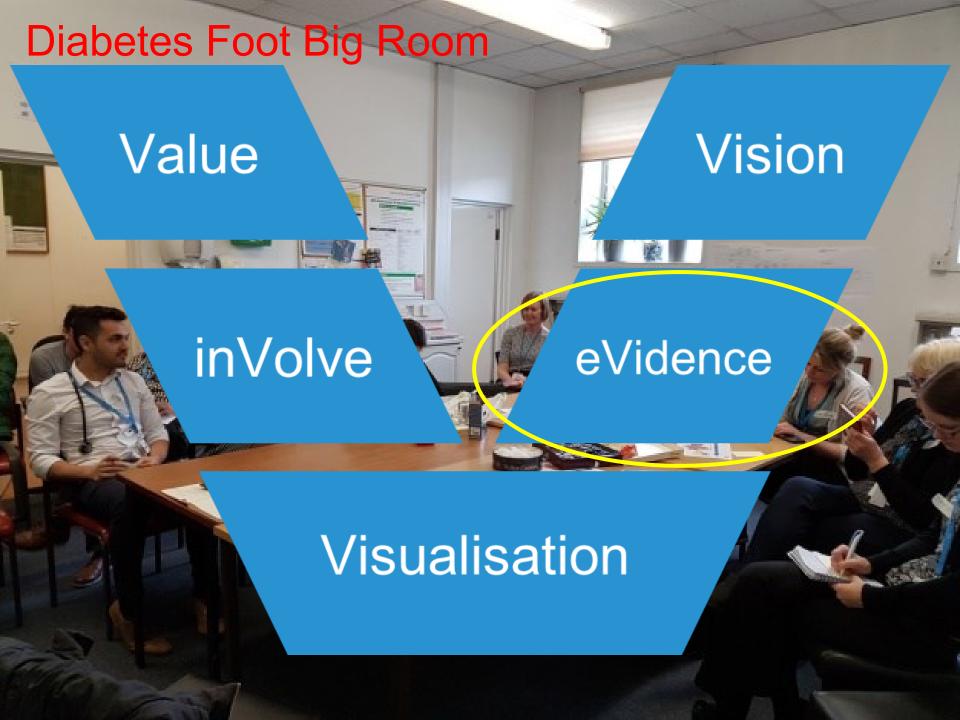
Communication

Discharge















Diabetes

Diabetes 1 Training





1. The Person

Listen to Diabetes

2.Know the diffe

People w People w If the pe Stopping

3.Feet (see foot c

Within 2 Always r Problem[®] SpR blee Podiatry Refer to

4. Hypoglycaemia

Hypogly Identify (Refer to

5. Hyperglycaemia

Prolonae Avoid PR If blood Out of h

6. How do I prescribe and administer insulin safely?

Insulin is a high risk drug

Ensure right person, right insulin, right dose, right time, right device

NEVER omit long-acting insulin in patients with type 1 diabetes: Ask if unsure

Always use e-prescribing on CERNER

7. How do I manage a tube fed person on insulin?

Give insulin at start of feed

Remember to review insulin dose or regimen when feed is increased/reduced OR if the timing has changed

8.Does my patient need IV insulin? (Not DKA/HHS)

Not if they are eating and drinking

Only in: NBM/peri-operatively/acutely ill patients (see guideline on The Source)

Check blood glucose hourly until stable (blood glucose 6-10 mmol/L) and 2 hourly thereafter

ALWAYS continue basal insulin alongside IV insulin

ALWAYS use Trust variable rate intravenous insulin infusion (VRIII) Guidelines on The Source

All patients receiving IV insulin MUST be prescribed IV dextrose

9. Diabetic ketoacidosis (DKA) & Hyperosmolar hyperglycaemic state (HHS)

DKA and HHS are diabetic emergencies

Seek senior medical advice and follow Trust guidelines. ALWAYS refer to the Diabetes Specialist Team Patient will require fixed rate intravenous insulin infusion (FRIII) when unwell: IV fluids must be prescribed

10. Know how to refer to Diabetes Team

Start discharge planning from the moment of admission.

Refer on CERNER if patient meets referral criteria

Urgent referrals: DKA, HHS, acute diabetic foot, severe recurrent hypoglycaemia, pregnancy, insulin pump

Urgent out of hours referrals: contact medical doctor on-call DSN bleeps: SMH 1224, CXH 6753, HH 6759, Renal 5238

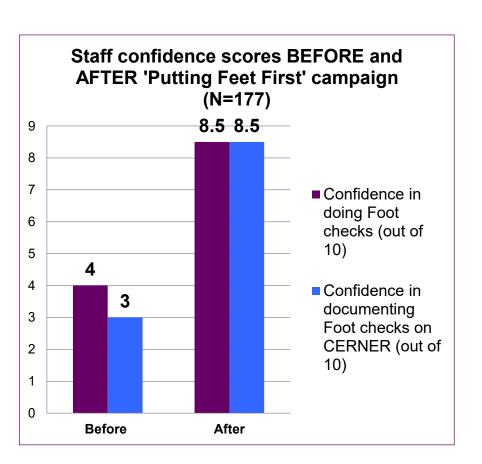
Podiatry 02033125437/ Vascular on-call 02033128737 if urgent

© Developed by Ruth N © Developed by Ruth Miller 2014 Diabetes Nurse Consultant, North West London Diabetes Transformation Team

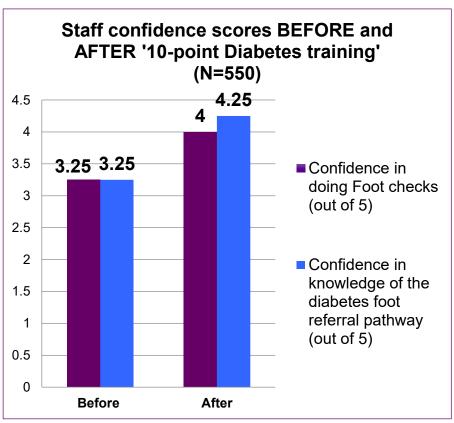
Staff Confidence scores



'Putting Feet First' campaign



'10-Point Diabetes Training'

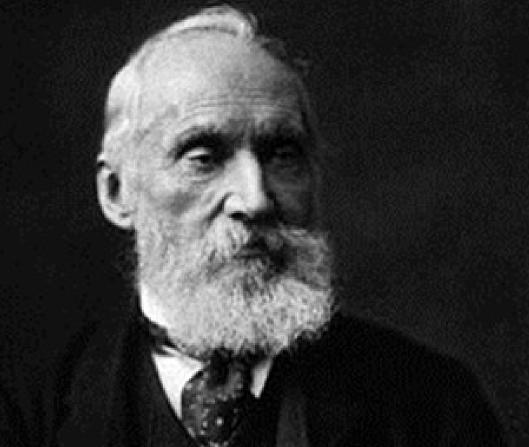


Diabetes foot check audit Sep 2017 (n=43) vs Dec 2017 (n=53) vs Nov 2018 (n=52)









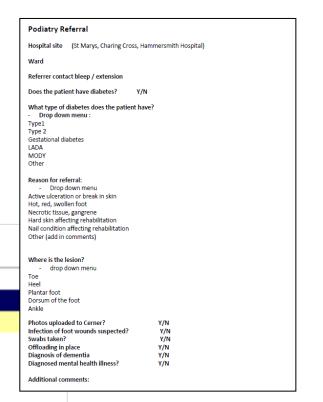
If you can't measure it,
you can't improve it.

Lord Kelvin





SM Pharmacy Ward Stent Registry			
All Patients - SM Pharmacy Ward			
Alerts Name	MRN	DOB	Age (of p
YYYELDMED, YYYTEST	30555596	29/Aug/83	34 years
ZZZTEST, BABYZERO	30478794	09/Jun/16	15 month
ZZZTEST, XXX	30555644	02/Feb/90	27 years
YYYTEST, HTLVRETEST	30555840	09/Sep/90	27 years
ZZZTEST, DO NOT TOUCH SEPSIS A	3055549	01/Feb/78	39 years
YYYTEST, COMMENTFIELD	30555920	01/Jan/93	24 years
YYYTEST VTEREPORTING CERT, RISK	3055567	01/Jan/80	37 years
ZZZTEST, LISAF	30552580	01/Jan/55	62 years
YYYTEST VTEREPORTING CERT. NO RIS	SK 30555673	01/Jan/80	37 years





Patient List

Waterlow Score (If Pressure Ulcer)

Reason for Referral TVN

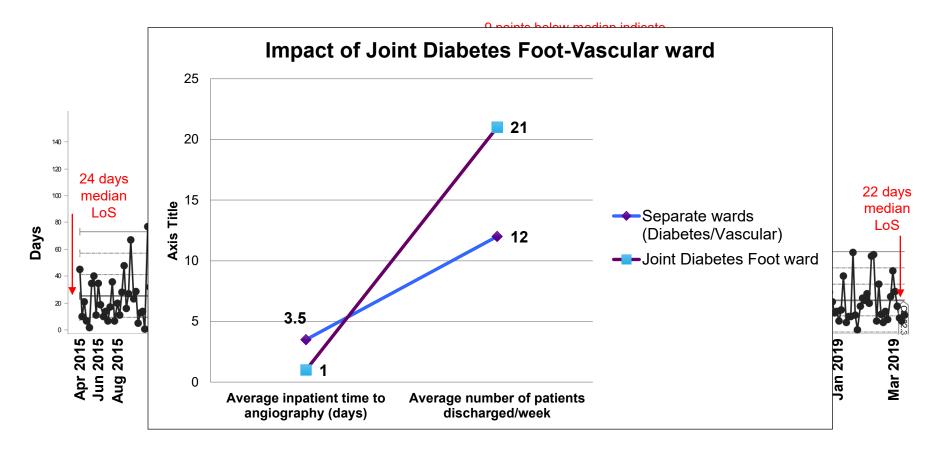
Wound Type and Site

Wound Bed Condition Additional Information

m) being Addr	essed this Visi	
Convert	Display:	Active 🔻
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		+
	₿ No	Chronic Problems
		•
у	Name of Prob	lem 📤 🛕
	Clinical	
		Convert No

Individual patient length of stay – Patients under care of MDT Diabetes Foot team NHS Trust

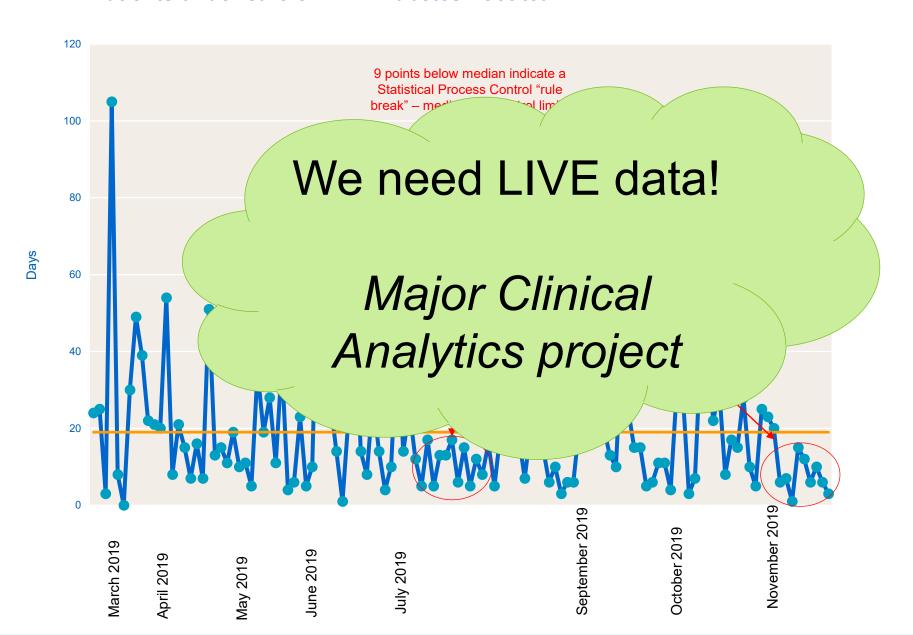
(April 2015 – March 2019)



Achievements:

- Reduced length of stay
- Reduced variation
 - Reduced long stay patients

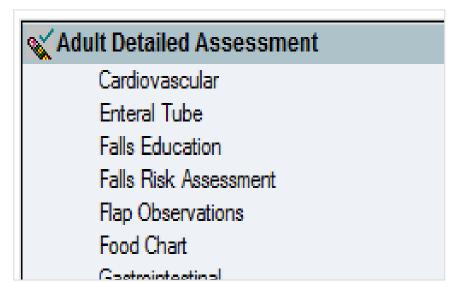
Individual patient length of stay – Patients under care of MDT Diabetes Foot team





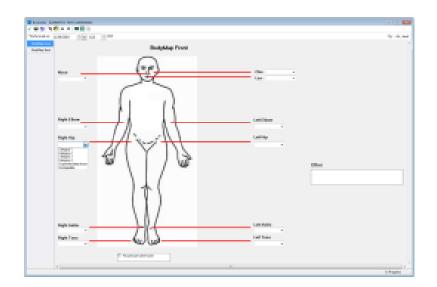


Diabetes Foot Checks – launched May 2019

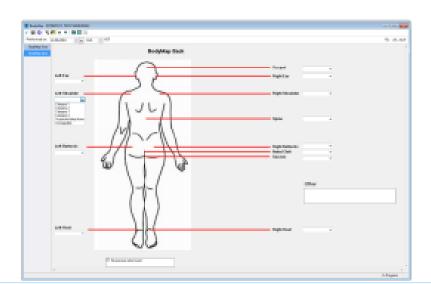


Watch this space...
NADIA HARMS

Front



Back



Innovation? - Journey of reflective self-improvement



- 'Big Room' & Changes through it
- Clinically & N
- Clinically drive
- Non-hierarch
- Permission to
- Patient participant
- Ownership of
- £500 budget
- Business 'as u

Improvement is 80% human and 20% technical ('about people')

'Serving the community can indeed be joy'

Challenges



Changing culture at Institutional level involves giving people the TIME to sustain the Big Room

- Time
- Data quality
- Engagement (specialties/sites)
- Time to implement changes
- People's commitment to 'doing the work' can be variable



- •Business as usual: 'We will Big Room it'
 - Focus on problems with good diagnostics



Challenges

Imperial College Healthcare

Timeline of FCA

2016

2017

2018

2019

2020

2021

2022















































































- Depart
- Clinica
- Membe underg be able



February

2019



NHS Trust

Make A Difference award

The Diabetic foot MDT were the winners of the Make A Difference award last week. They were nominated by Richard Gibbs - Clinical Director General and Vascular Surgery - based in the Zachary Cope ward St Marys.

The Imperial Multidisciplinary Diabetes Foot Team is currently making great headway in improving the treatment and pathway for this vulnerable group of patients (who account for the greatest number of inpatient bed days in the NHS).

The latest 2018 GIRFT data shows very significant improvement in lengths of stay -now down to or better than the national average for diabetic patients requiring angioplasty and open surgery.

Imperial remains excellent at saving legs with lower than expected rates of leg amputation, but now with far more efficient pathways. We have a high rate of % procedures performed electively (75% vs 60% England average). Ratio of lower limb major amputation to revascularisation in top 10% England Trusts.

The Imperial Diabetic Foot MDT has achieved these clear and objective improvements by implementing a new service and placing patients with diabetic foot disease at the centre of all they do -irrespective of traditional silo thinking. Their collegiate way of working across Medicine, Surgery and Interventional Radiology has brought great flexibility and benefit -both clinically to patients and also to the Trust in terms of freeing up beds and working more efficiently.



Contact: Richard Gibbs Clinical Director General & Vascular

CHEGORY





BMJ Awards 2019

Congratulations to the Diabetic Foot Team who were shortlist finalist at the BMJ Awards 2019 for "Diabetes Team of the year".

The team have also been shortlisted for the Chairwoman's Award in the category of "Driving improvement through data".

The Big Room concept of designing and improving services was harnessed by the team and the project supported the service in creating systems to capture data within existing electronic records. The Diabetes Foot MDT tool which is used for all patients with active disease, is an example of this. The data captured converts into auditable measures which can be used to benchmark against national standards.

The project has promoted collaborative working from all stakeholders and improved both staff and patient experience.



Contact: Donyale French
General Manager, Specialist Medicine HH



Imperial College Healthcare NHS Trust 'Chairman's Award 2019 nomination'









Next...















Mitigating our challenges



RESILIENCE

- Clinical coach = Clinical lead for the service
 - 'Stepping back' physically in the Big Room
 - Active weekly coaching by nonpathway coach
 - Independent coaching (at home)
- Involve key Big Room members in QI Hub 'coaching' activities
 - Building team leadership in coaching

- IT leadership rather than support
 - Live data to support the Big Room weekly
- Clear direction of travel
 - NOT everything can be fixed immediately and in a finite period of time





