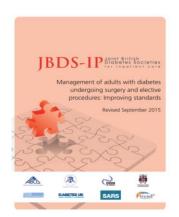


Making Surgery Safer in Patients with Diabetes

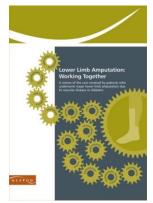
An example of success through collaboration and integrated leadership

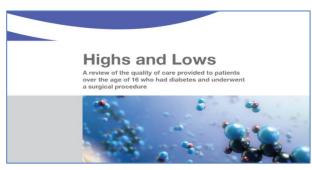
National priority and patient need

- In-patients with diabetes = £10 billion
- 1 in 6 beds
- Surgical wards unsafe (NADIA 2010-18)













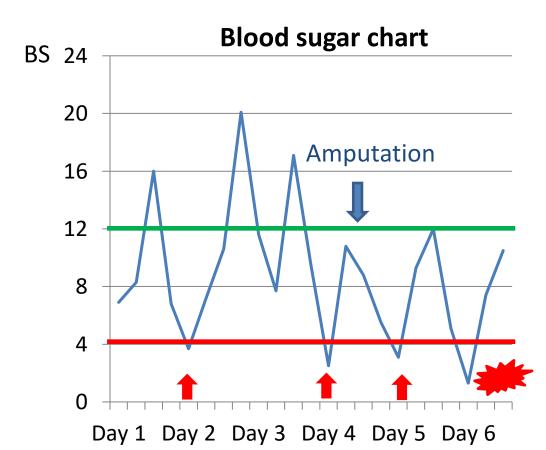
What are the risks across the country for patients with diabetes on surgical wards?

Patients with diabetes	Patient safety risk NaDIA 2018
1 in 3	Medication error
1 in 6	Hypoglycaemia
1 in 12	Severe hypoglycaemia





Patient harm event



Type 1 diabetes patient

Recurrent hypoglycaemia not treated = insulin error

Day 6 – patient found comatose 02.00, BM 1.3.





Patient harm











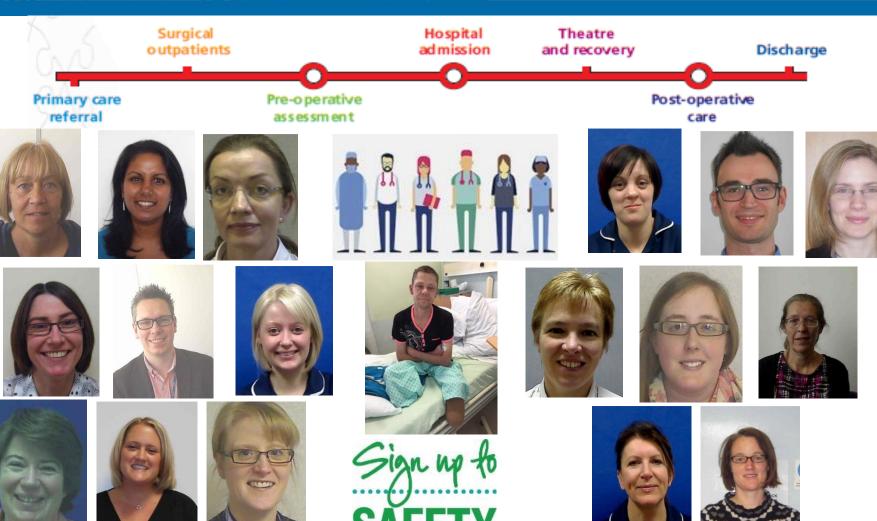
Newcastle 2015

- Surgical wards unsafe
- High rates insulin errors and hypoglycaemia
- High patient harm events
- Inadequate planning and delivery high quality peri-operative care throughout pathway
- Inadequate handover
- Excessive length of stay

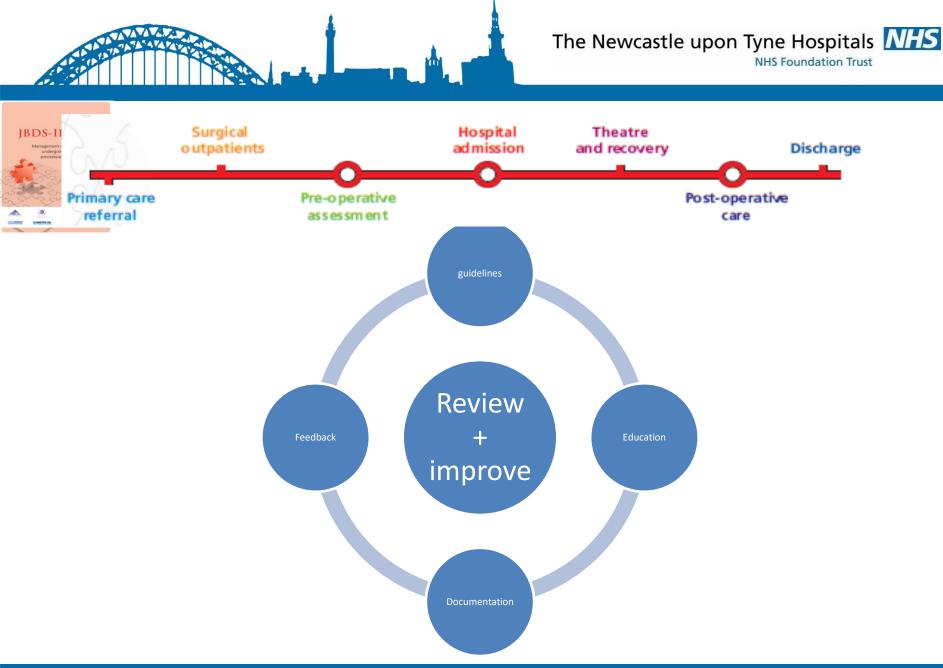








Healthcare at its very best - with a personal touch



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Pre-operative planning

	2015	2017
Peri-op plan	34%	82%
First third list	48%	64%
Hypo on admission	14%	0%
Hyper on admission	58%	1%

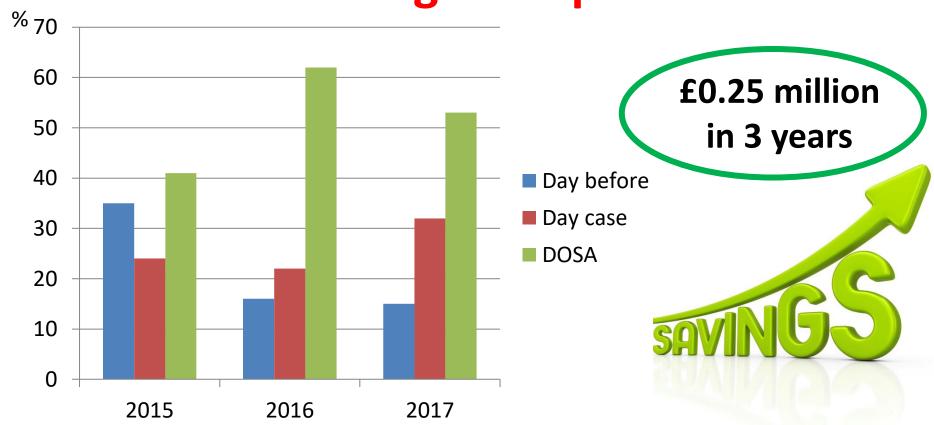








Improved day of surgery admission rates for high risk patients



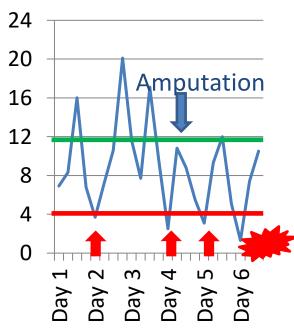
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WEUK	Source and year or current report	value	Liigiailu	Position	variation than t
Mean length of stay for patients with or without diabetes*					
Patients with diabetes	HES Apr 2016 - Mar 2017	8.80	8.44	84 of 136	
Patients with type 1 diabetes	HES Apr 2016 - Mar 2017	7.71	6.81	110 of 136	
Patients with type 2 diabetes	HES Apr 2016 - Mar 2017	8.91	8.60	80 of 136	
Patients without diabetes	HES Apr 2016 - Mar 2017	6.32	6.17	75 of 136	•
Mean length of stay for patients with or without diabetes admitted for surgery*					
Patients with diabetes	HES Apr 2016 - Mar 2017	8.56	9.88	15 of 136	(
Patients with type 1 diabetes	HES Apr 2016 - Mar 2017	8.95	9.85	44 of 136	
Patients with type 2 diabetes	HES Apr 2016 - Mar 2017	8.53	9.89	15 of 136	(
Patients without diabetes	HES Apr 2016 - Mar 2017	6.70	6.84	64 of 136	\rightarrow
Million I and the Committee of the Commi					





Making the connection...







Electronic Whiteboard Alerts

Alert	What for?	Intended Action
	Active significant hypoglycaemia	Manage hypoglycaemia. Reduce insulin
	Active hyperglycaemia	Consider increasing insulin (2 x BS > 12 in 24 hours, persistent or progressive hyperglycaemia)
	Poor glycaemic control with hypoglycaemia	Review BS daily - check insulin reduced to avoid recurrence/patient harm
H	Poor glycaemic control with hyperglycaemia	Review BMs daily – check insulin increased if required

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NaDIA: Surgical Ward Medication Errors

	Newcastle Surgical 2016	Newcastle Surgical 2017	Newcastle Surgical 2018	UK 2018
Medication errors	40.8%	33.1%	17.6%	31.3%
Prescription errors	10.2%	10.1%	7.4%	19%
Management errors	32.7%	26.1%	11.8%	24%
Insulin errors	30.6%	24.6%	10.3%	22.7%



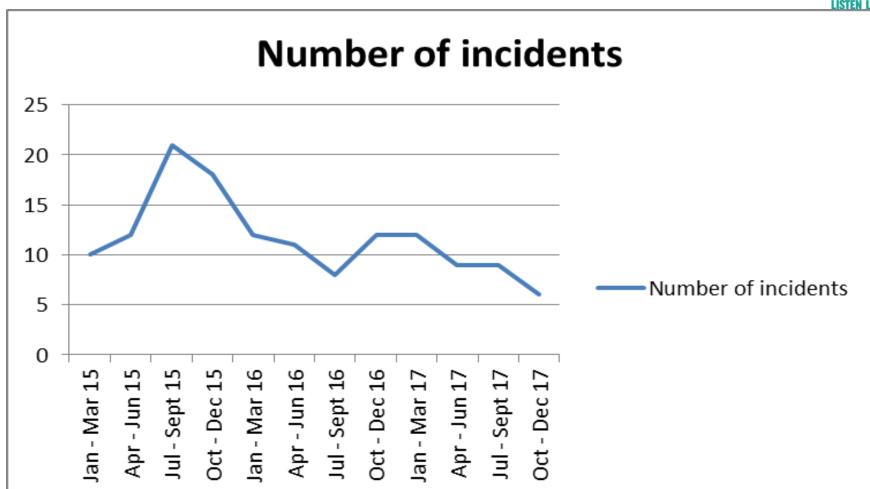






Reduction in Patient Harm





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Patient Satisfaction

	Newcastle Overall 2018	Newcastle Medical Wards 2018	Newcastle Surgery Wards 2018	UK 2018
Patient Satisfaction	91%	88%	97%	83%







How did we achieve success?

No specific hierarchy/ chair

Sub sections

Regular meetings/alt sites

Colleague buy in championed by sub leader

Seeing positive results





Why did we think it worked?

Commitment to each other

Drive and passion

Clear goals



Humour / enthusiasm

Respect and communication



Where Next?

- Sharing good practice in regional networks
 - Training and Education of Peri Operative Teams
- Extending focus diabetes at referral and discharge
- Surgery as a turning point for patients with diabetes













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