

Hip fracture care -East Lancashire NHS Hospitals Three years Journey



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Demographic

- Population 521,000
- 7000 staff
- 46 GP practices
- 950 + beds
- 450 # NOF/ Year

Demographic

- Royal Blackburn Hospital- Acute care
- Burnley General Hospital- Elective care
- Pendle Community Hospital- In-patient Rehabilitation
- 21 Consultant Orthopaedic Surgeons

Demographics

- 2 Consultant Orthogeriatrician providing Daily ward round(Mon-Fri) , once a week MDT meeting, and falls Clinics.
- 16/21 Consultant contributing to Trauma on call, fracture clinics and Trauma lists
- 19 Planned day time trauma theatre sessions per week with flexibility to add 4 additional trauma list per week (includes all day Saturday and Sunday)

Demographics

- Two trauma Theatres
- 10 Specialist Registrar
- 4 Trauma coordinators including one dedicated NHFD data input staff.
- Dedicated Hip fracture Unit in 56 bed Trauma ward

Demographics

- All trauma list are consultant led with direct supervision and presence in theatres.
- Multi disciplinary fragility fracture stakeholder Group
- Fracture Liaison Service steering Group
- Whole project is Clinically led and managerially Supported.

Areas for improvement (2009)

- Improvement in wider awareness about the core standards of care for every Fracture neck of femur.
- Improvement in orthogeriatric input.
- Lack of agreed protocol across the specialties (anaesthetic, orthogeriatrician, orthopaedics) lead to cancellations and delayed surgery.
- Number of Patients were still admitted to other than trauma wards.
- pressure ulcer(inconsistency in grading, lack of accurate documentation). etc

Journey

Appointed two trauma co-ordinators and Registered with NHFD in September 2009

Set up multi-disciplinary stakeholder group.

Started Submitting data prospectively from 09/02/2010

Introduced Joint Admission Protocol, Care Bundle and Integrated care Pathway.

Multi-disciplinary stakeholder group

Business manager (project Lead) Matron Trauma Ward Manager Trauma coordinators Senior Physiotherapist **Occupational Therapist** Falls coordinator Radiographer Primary care management representative **Consultant Ortho-geriatrician** Consultant A& E **Consultant Anaesthetist** Consultant orthopaedic surgeon(Lead Clinician NHFD)

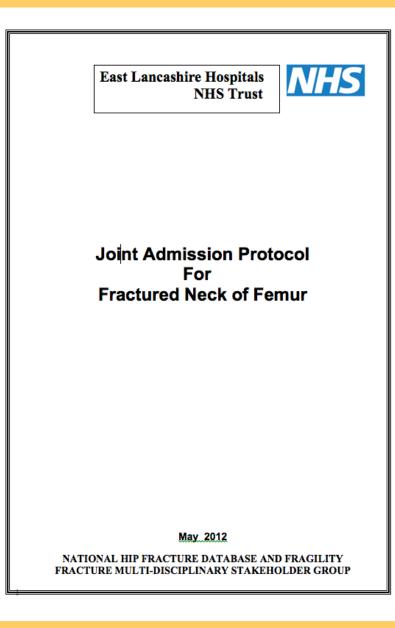
Intergrated Care East Lancashire Hospitals Pathway

Fractured Neck of Femur PLEASE REMEMBER TO CONSULT THE ALERT SHEET

					_
Planned Procedure:		Pre-Op		BP	
Actual Procedure:		TCI		Pulse	
Consultant:		Admiss	ion	SaO ₂	
		Operat	ion	Weight	
(Atta	ich patient label here)				
Hospital No:		Prov. D	ischarge	Height	
First Name:		Act. Dis	charge	BMI	
Last Name:	GP:				
Address:		-		MRSA Date	
				Bone Donation	

	Once only Medication											
Date Required	Time Required	Drug	Dose Metric	Route	Doctor's Signature	Pharm	Given by	Time Given				

ate	PRINT Name	Designation	Signature	Initials
x				



East Lancashire Hospitals	NHS
NHS Trust	

FRACTURED NECK of FEMUR (#NOF) CARE BUNDLE

-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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D.O.B.			

Hospital No.

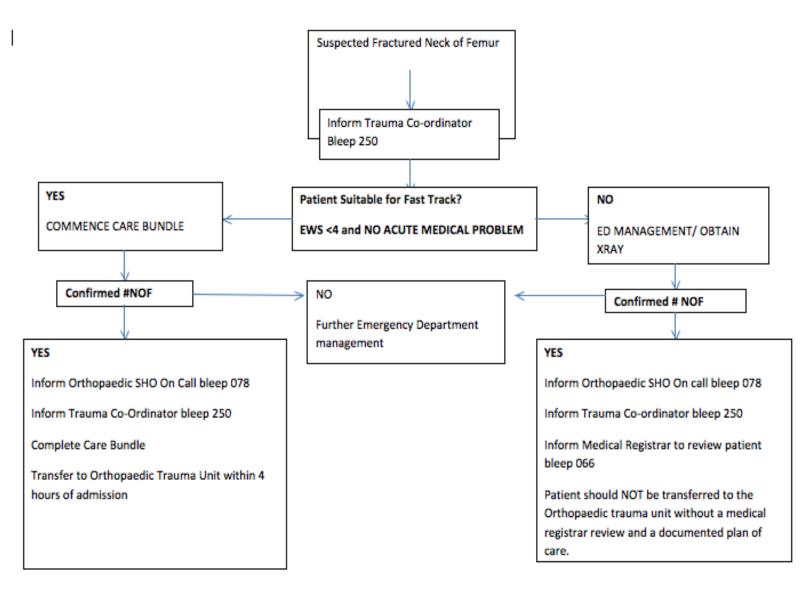
All patients with a hip fracture should be admitted to an acute trauma ward within 4hrs

**Patient is not appropriate for fast track if A. Any acute evidence of cardiorespiratory compromise or needs urgent medical care

B. EWS >4?

ACHIEVED →	YES	NO	If NO- Reason If YES-Date/Time	TIME	
Trauma Coordinator contacted: bleep 250 Orthopaedic on-call contacted: bleep 078					Irs
**Initial Assessment & commencement of Early Warning Score and Pain Assessment Chart					4 hou
Bloods: FBC/U&E/Creatinine/Glucose/LET's/Bone/Group & Save Clotting (if on warfarin or liver disease) CRP ECG					Bundle #NOF within 4 hours
Patient fast tracked through ED to X-ray (Chest & affected limb x-rays)					Bundle
X-ray findings/Type of #					Care I
Oxygen (4-6l/min to keep Sats>94%)					
IV access & fluids: Hartmann's 1L over 6 hrs					<u>E</u>
Pain assessment and analgesia given? Paracetamol 1g iv					Department
Fascia liace Block (If trained personnel available) Morphine titrated iv					N D
Pain reassessed 30mins following intervention?					enc
Drug Chart for analgesia written to include <u>Paracetamol</u> , MST and <u>Oramoprh</u> and any regular medications					Emergency
Time and reason if Bundle stopped					

East Lancashire Hospitals Trust Orthopaedic Department - April 2012- NHFD Group



 Shared and monitored NHFD data and focused on areas for improvement, by regular quarterly meetings and action plans

• NHFD data demonstrated clear areas for improvement.

 Shared the data and quality standard improvement with senior managers and demonstrated a business case for extra resources which are likely to fund itself by achieving BPT and reduction in LOS

Blue Book Standards-**ELHT (%)** 2010 2011 2012 69 1. Admission to orthopaedic ward within 4 hours 57 58 2. Surgery within 48 hours and during working 88 hours 80 87 3. Patients developing pressure ulcers 6 3 2.394. Pre-operative assessment by an orthogeriatrician 31 37 49.7 57 66 97.17 5. Discharged on bone protection medication 63 81 98.91 6. Received a falls assessment prior to discharge

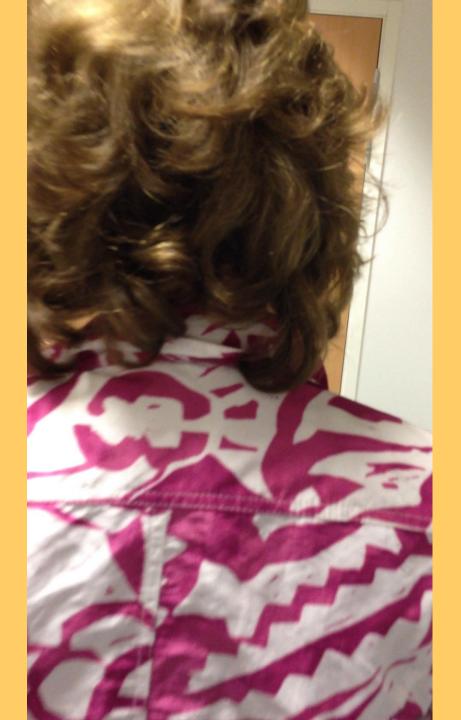
September 2012

Bluebook Indicators	ELHT 2010	ELHT 2011	ELHT 2012	SHA 2012	National 2012
Avg Time to Orthopaedic Ward (Hrs)	6.3	5.6	5.1	8.8	8.9
Avg Time to Theatre (Hrs)	29.4	29	30.4	33.3	31.8
Avg Trust Length of Stay (Days)	20.5	21.2	21.2	21.5	19.4
Pressure Ulcers	3.9	2.6	3	3.3	3.3
Preoperative Assessment	20.6	48.2	68.2	63.9	72.1
Bone Protection Medication	74	97.1	97.2	87.4	91.6
Specialist Falls Assessment	94.4	99.5	99.4	88.4	90.9

2010- September 2010 to August 2011(Total NOFs -412) 2011- March 2011 to February 2012(417) 2012- March 2012- February 2013(468)

Total hip replacement for NOF	2010	2011	2012
ELHT	6.8	6.2	5.2
SHA	3.5	5.1	5.1
National	3.3	4.1	5.1





No operation

%	ELHT	SHA	National
2010-2011	4.1	2.8	2.7
2011-2012	3.5	3.1	2.7
2012-2013	1.6	2.5	2.5

Admission to surgery

	Surgery within 48 hours	Surgery within 36 hours
2010-2011	87%	55%
2011-2012	88%	76%
2012-2013	89 %	75%

Ortho-geriatrician led Pre-operative assessment and secondary prevention

%	2010-2011	2011-2012	2012-2013	SHA- 2012-13	National 2012-13
Preoperativ e Assessment	20.6	48.2	68.2	63.9	72.1
Bone Protection Medication	74	97.1	97.2	87.4	91.6
Specialist Falls Assessment	94.4	99.5	99.4	88.4	90.9

Type of Anaesthesia- % 2010-2011

	ELHT	SHA	National
GA	14.8	59.5	61.2
Spinal	85	40.5	38.6
	2011-2012		
GA	11.3	57.5	59.9
Spinal	88.5	42.6	39.9
	2012-2013		
GA	6.1	52.1	58.3
Spinal	90.7	47.1	41



Type of anaesthesia

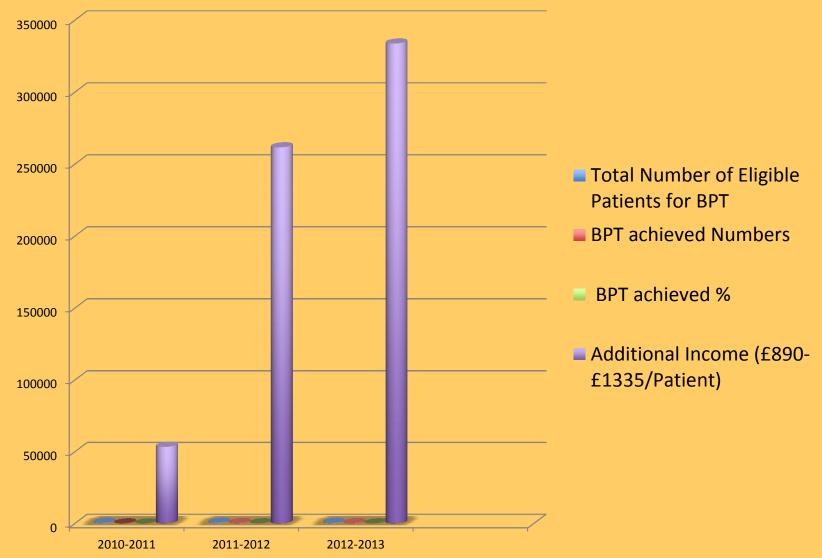




BPT(Best Practice Tariff)

	Patients	BPT achieved Numbers		Additional Income
				(£890- £1335/Pati ent)
2010- 2011	384	60	15.62	£53,400
2011- 2012	450	294	65.33	£261,660
2012- 2013	391	277 Un to	71 Feb-2013	*£369,795

BPT



NHFD National Report- 2012

- ELHT is N0.1 data contributor in North West(458 patients)
- Attracting most # NOF in NW
- One of top 4 NHS trust attracting highest BPT in North West (best practice tariff).
- Improved in all 6 standard consistently since 2010 (nationally standard dropped in 2 out of six standards during 2011/2012)

NHFD National Report- 2012

- Ranked 11/180 nationally in offering better operation (THR) for fit active patients with #NOF
- ELHT -88% operated within 48 hours(rank 47/180. (National average dropped from 87% in 2010/11 to 83% in 2011/12)
- 76% operation within 36 hours(rank 47/180)
- 69% admitted in orthopaedic wards within 4 hours (rank 35/180). National average dropped from 52% in 2010/11 to 49.4% in 2011/12.

NHFD National Report- 2012

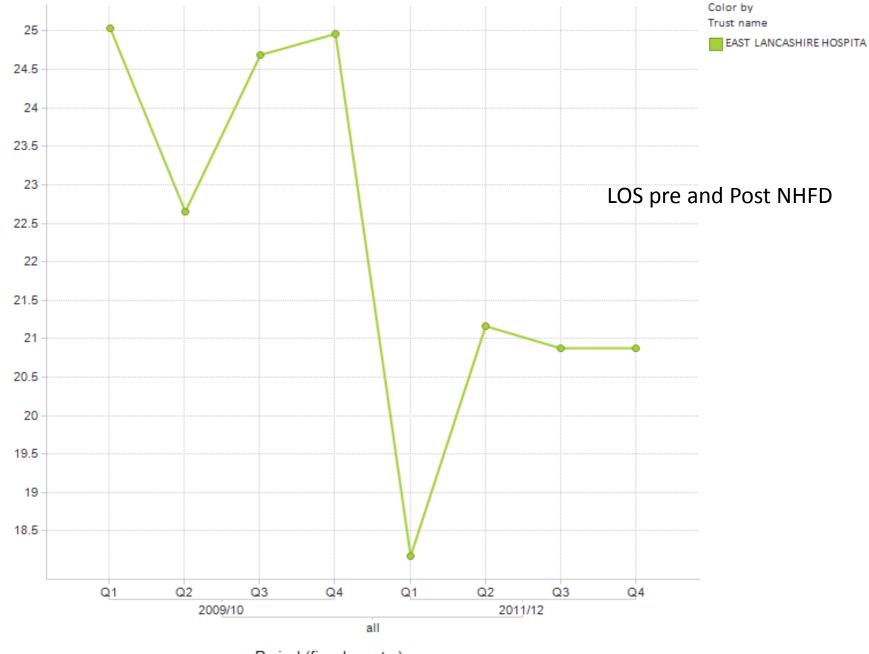
 Good improvement in care in spite of 13/180 from bottom i.e. more higher grade (ASA and AMT score) sick patient.

• BPT achievement rank 41/180

ELHT is using HED (Healthcare Evaluation Data) to evaluate data



Healthcare Evaluation Data (HED) Driving quality and efficiency



Period (fiscal quarter)

Average Total Spell Duration

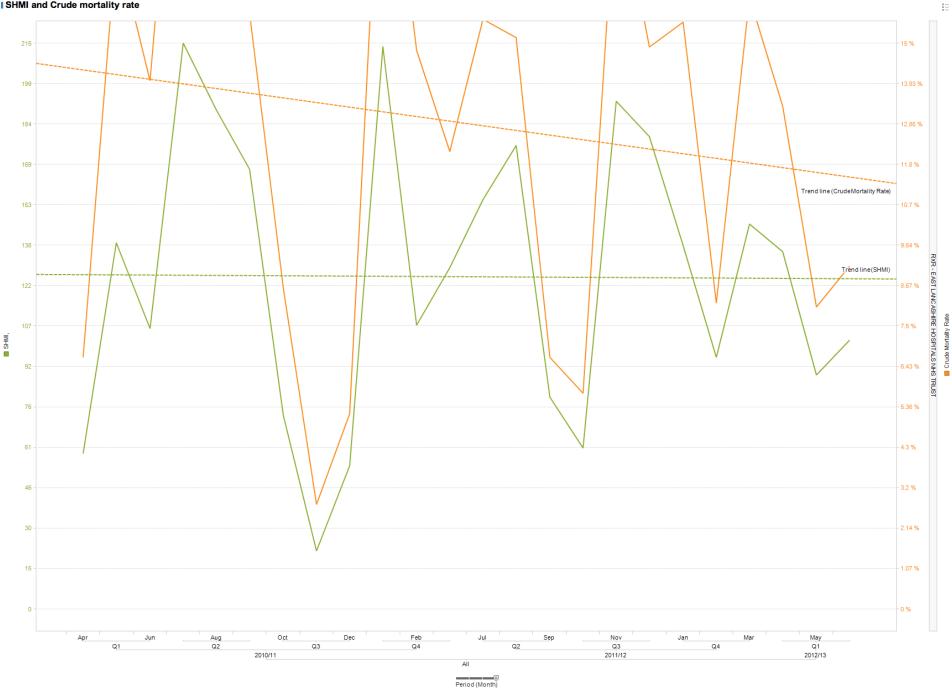
		2009/10(pre NHFD set up	2009/10		2009/10	2011/12	2011/12	2011/12(post	NHFD set up)
Trust name	Treatment Spe	Total Spell Duration	Spells		Average Total	Total Spell Dur	Spells	Average Total	Spell Duration
EAST LANCAS	Trauma & orth	11225	4	460	24.4	9149	450	20.33	
		Average LOS for #NOF 20	09-2010		24.4 days				
		Average LOS for #NOF 20			20.33days				
		That is 1800 less bed days	s per year						
		1800x£300			£540,000				
		£0.5million saving + BP	T(£0.25m)	Per	Year				

NHFD- In Hospital Mortality

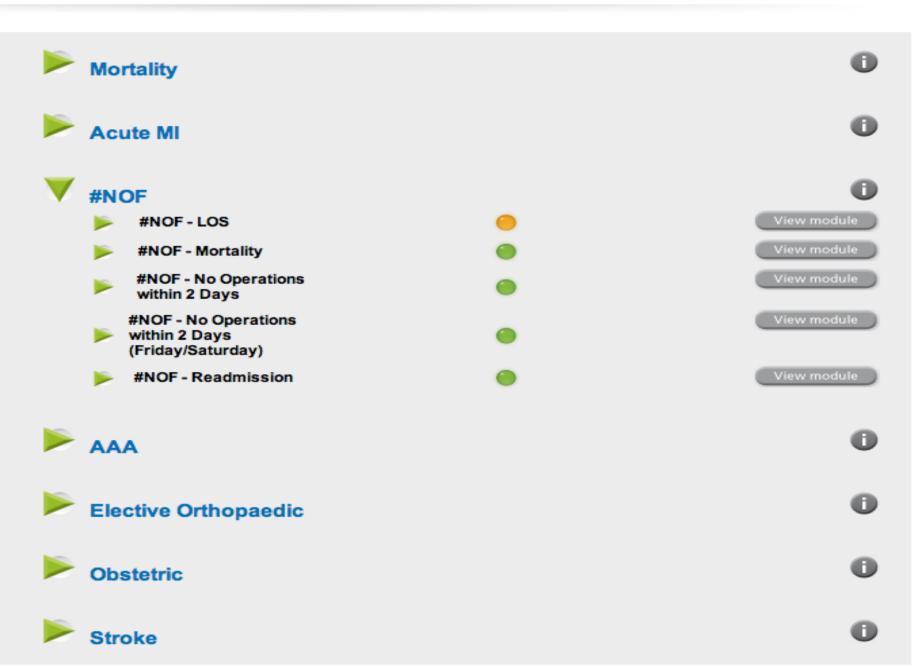
%	ELHT	SHA	National
2010-2011	10.92	9.02	9.05
2011-2012	10.43	9.37	8.76

HED Mortality data - NOF

Fiscal	Year	Fracture	of neck	of femur	r (hip)						
Fiscal	Year	Expecte	Number	HSMR	Number	Average	Number	Mortality	Rate		
2009/	10	51.7	60	116.1	0	7.85	502	11.95%			
2010/	11	49.3	46	93.3	5	8.95	477	9.64%			
2011/	/12	24.7	22	89.2	3	7.8	302	7.28%			
2012/	13	19.6	17	86.5	2	8.63	245	6.94%			



Nationally Published Indicators (2011/12)



NICE Quality standard for Fracture NOF(30 March 2012)

A set of specific, concise statements and associated measures

 Markers of high-quality, cost-effective patient care, covering the treatment and prevention of different diseases and conditions. Published quality standards

- Alcohol dependence and harmful alcohol use
- Breast cancer
- <u>Chronic heart failure</u>
- <u>Chronic kidney disease</u>
- <u>Chronic obstructive pulmonary disease (COPD)</u>
- Dementia
- <u>Depression in adults</u>
- Diabetes in adults
- End of life care for adults
- <u>Glaucoma</u>
- <u>Hip fracture</u>
- Lung cancer
- Patient experience in adult NHS services
- Service user experience in adult mental health
- Specialist neonatal care
- <u>Stroke</u>
- <u>VTE prevention</u>

No.	Quality statements
1	People with hip fracture are offered a formal Hip Fracture Programme from admission. Ortho geriatrician Lead with weekly MDT
2	The Hip Fracture Programme team retains a comprehensive and continuing clinical and service governance lead for all stages of the pathway of care, including the policies and criteria for both intermediate care and early supported discharge. Ortho geriatrician Lead with weekly MDT
3	People with hip fracture have their cognitive status assessed, measured and recorded from admission. NHFD
4	People with hip fracture receive prompt and effective pain management, in a manner that takes into account the hierarchy of pain management drugs, throughout their hospital stay. Care bundle and ICP
5	People with hip fracture have surgery on the day of, or the day after, admission. NHFD
6	People with hip fracture have their surgery scheduled on a planned trauma list, with consultant or senior staff supervision. Fully compliant
7	People with displaced intracapsular fracture receive cemented arthroplasty, with the offer of total hip replacement if clinically eligible. NHFD

8	People with trochanteric fractures above and including the lesser trochanter (AO classification types A1 and A2) receive extramedullary implants such as a sliding hip screw in preference to an intramedullary nail. NHFD
9	People with hip fracture are offered a physiotherapist assessment the day after surgery and mobilisation at least once a day unless contraindicated. ICP
10	People with hip fracture are offered early supported discharge (if they are eligible), led by the Hip Fracture Programme team. Ortho geriatrician Lead with weekly MDT
11	People with hip fracture are offered a multifactorial risk assessment to identify and address future falls risk, and are offered individualised intervention if appropriate. NHFD
12	People with hip fracture are offered a bone health assessment to identify future fracture risk and offered pharmacological intervention as needed before discharge from hospital. NHFD

Further Quality improvement Plans

- Fracture Liaison Service due to start from April 2013(Ortho geriatrician lead)
- To be fully compliant with dementia care and improve ward environment to suit patients with dementia.
- Improve LOS further by offering Enhanced recovery programme to previously otherwise active patient with good pre fracture mobility

Further Quality improvement Plans

- Active participation in Anaesthetic Sprint Audit Project(ASAP)- conducted jointly by NHFD and NHS Hip fracture peri operative network
- Joint Mortality review (Orthopaedic and orthogeriatric)
- Full implementation of hip fracture programme leading to further improvement in rehabilitation and discharge

Thank you



