

THE NATIONAL HIP FRACTURE DATABASE

Data Quality & NHFD Website

Regional Meeting
Chester 2010
Stewart Fleming



The National Hip
Fracture Database

What is Problem Data?

Patients

- Born in 207 (over 1800 years old)
- having surgery before being admitted
- having a length of stay > 300 days

Centres

- 100% preoperative medical assessment
- unlikely proportion of surgical procedures



Report Problems

- Unfair comparisons
- Skewed charts
- Unrealistic percentages
- Unhelpful conclusions



What are the data challenges?

- Accuracy – Has the data been entered accurately from the source?
- Completeness – Is all the data in for all patients?
- Correctness – Is the data entered actually correct?



Improving Accuracy

- Validation of date fields
- Sense checks on timelines
- Validation of NHS numbers
- Re-entry of data



Improving Correctness

- Derived validation checks
 - Unlikely Surgery / Fracture combinations
- Exception reports
 - Time to Ward > 500 hours
 - Time to Theatre > 450 hours
 - Time to Discharge > 200 days



Improving Completeness

- Draft mode for mandatory fields.
- Completeness report for all relevant fields.
- Validation of patient numbers via monthly report.
- Monthly report and SHA comparison to encourage full completeness
- Faster/Easier to use web site.



New Website Design & Features

- Better access to high-use functions
- Increased speed of regular views
- Up to date NHFD News
- Monthly National/SHA/Local report
- Access to E-learning module
- PBR reports to help with compliance



New Home Page

The NHFD

[Home](#) [Data](#) [Reports](#) [Resources](#) [More](#)

User: NHFD Demouser
Hospital: All Centres
[Logout](#)



[Welcome](#)
[News Archive](#)

[3 New Hospitals join NHFD](#)

Welcome to the newest members of the NHFD family - Nevill Hall, Walsall Manor and Frimley Park.

19/01/2010

[NHFD registration over 90%](#)

91% of eligible hospitals in England, Wales, Channel Isles and Northern Ireland have now registered with NHFD.

16/01/2010

Welcome to the National Hip Fracture Database (NHFD).

The NHFD is a joint venture of the British Geriatrics Society and the British Orthopaedic Association, and is designed to facilitate improvements in the quality and cost effectiveness of hip fracture care.

It allows care to be audited against the six evidence-based standards set out in the BOA/BGS Blue Book on the care of patients with fragility fracture; and enables local health economies to benchmark their performance in hip fracture care against national data.

We hope participation will stimulate your organisation to improve both the acute hip fracture pathway of care and subsequent falls prevention and bone health management: with direct benefits to patient care and outcomes, and eventual reductions in fracture incidence too.



Finbarr Martin

Consultant Geriatrician - Guys & St Thomas's NHS Trust
Co-chair NHFD Executive




David Marsh

Professor of Clinical Orthopaedics - UCL
Co-chair NHFD Executive


Patient Data

 [New Patient](#)
[Live Data](#)
[Upload Data](#)
[Export Data](#)

Reports

 [National Map](#)
[Participation](#)
[BB2 Indicators](#)
[Exceptions](#)

Resources

 [Welcome Pack](#)
[Blue Book](#)
[FAQs](#)
[Best Practice](#)
[Downloads](#)

More Information

 [E-Learning](#)
[Literature](#)
[Review](#)
[Contact Us](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

Design & Technology by CCAD



The National Hip
Fracture Database

New Active Patient view

The **NHFD**

Home **Data** Reports Resources More

Login

User: NHFD Demouser

Hospital: All Centres

Logout

Reset <- Prev Next -> Records per page: 20

Patient Name	Hospital Number	NHS Number	Admission Date	Fracture Summary
Able, Albert	10654987	3692581590	14/01/2010	Subtrochanteric, Unknown side
Able, Ann	IC326854	3216549879	21/01/2010	Subtrochanteric, Unknown side
Brown, Bob	slp876543	234 890 8321	02/09/2009	Intracapsular - displaced, Unknown side
Green, Theresa	123456	1234567890	01/07/2009	Subtrochanteric, Unknown side
Mancini, Henry	IC6543298	1472583690	14/07/2009	Intracapsular - undisplaced, Right-sided
Pott, Pol	333000	426 5476 9854	01/09/2009	Other, Unknown side
Settse, Teset	DE1234566	1239876540	NA	Other, Unknown side
User1, Test	IC654987	6549873210	13/01/2010	Intertrochanteric, Left-sided
White, Megan	HG654987	25873691470	22/01/2010	Intertrochanteric, Unknown side

Showing 0 to 9 of 9 active records

Reset <- Prev Next ->

Patient Data



[New Patient](#)
[Active Patients](#)
[All Patients](#)
[Draft Records](#)

Follow-Ups

[30 day follow-ups](#)
[120 day follow-ups](#)
[365 day follow-ups](#)

Reports



[National Map](#)
[Participation](#)
[Facilities Audit](#)

BB2 Indicators

[Time To Ward](#)
[Time To Surgery](#)
[Pressure Ulcers](#)
[Routine Assessments](#)
[Antiresorptive Therapy](#)
[Falls Assessments](#)

Exceptions

[Unlikely Combinations](#)
[Time to ward > 500 hrs](#)
[Time to surgery > 450 hrs](#)
[Time to discharge > 200 days](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

Design & Technology by CCAD



The National Hip
Fracture Database

Sort & Search

The NHFD

Home **Data** Reports Resources More

Login

User: NHFD Demouser

Hospital: All Centres

Logout

[Reset](#)

[<- Prev](#)

[Next ->](#)

Records per page:

20

Search:

Patient Name	Hospital Number	NHS Number	Admission Date	Fracture Summary
Green, Theresa	123456	1234567890	01/07/2009	Subtrochanteric, Unknown side
Pott, Pol	333000	426 5476 9854	01/09/2009	Other, Unknown side
Settse, Teset	DE1234566	1239876540	NA	Other, Unknown side
White, Megan	HG654987	25873691470	22/01/2010	Intertrochanteric, Unknown side
Able, Ann	IC326854	3216549879	21/01/2010	Subtrochanteric, Unknown side
Mancini, Henry	IC6543298	1472583690	14/07/2009	Intracapsular - undisplaced, Right-sided
User1, Test	IC654987	6549873210	13/01/2010	Intertrochanteric, Left-sided
Able, Albert	IJ654987	3692581590	14/01/2010	Subtrochanteric, Unknown side
Brown, Bob	slp876543	234 890 8321	02/09/2009	Intracapsular - displaced, Unknown side

Showing 0 to 9 of 9 active records

[Reset](#)

[<- Prev](#)

[Next ->](#)

Patient Data



[New Patient](#)
[Active Patients](#)
[All Patients](#)
[Draft Records](#)

Follow-Ups

[30 day follow-ups](#)
[120 day follow-ups](#)
[365 day follow-ups](#)

Reports



[National Map](#)
[Participation](#)
[Facilities Audit](#)

BB2 Indicators

[Time To Ward](#)
[Time To Surgery](#)
[Pressure Ulcers](#)
[Routine Assessments](#)
[Antiresorptive Therapy](#)
[Falls Assessments](#)

Exceptions

[Unlikely Combinations](#)
[Time to ward > 500 hrs](#)
[Time to surgery > 450 hrs](#)
[Time to discharge > 200 days](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

Design & Technology by CCAD



The National Hip
Fracture Database

NHFD News

The NHFD

[Home](#) [Data](#) [Reports](#) [Resources](#) [More](#)

User: NHFD Demouser
Hospital: All Centres
[Logout](#)



[Welcome](#)
[News Archive](#)

[NHFD registration over 90%](#)

91% of eligible hospitals in England, Wales, Channel Isles and Northern Ireland have now registered with NHFD.

16/01/2010

[Regional Meetings Spring 2010](#)

NHFD Regional meetings are taking place in Chester and London early February.

15/01/2010

[2009 Literature Review](#)

91% Registered

There are now 91% of eligible hospitals in England, Wales, Channel Isles and Northern Ireland registered with the NHFD.

Well done everyone – the more complete data we have the more meaningful the database becomes.



With good quality data we can prove that we are giving good quality care and also highlight where we need to improve the care of hip fracture patients.

When we have 100% registration and 100% of all hip fracture records on the database we will be able to show a true picture of what is going on with our patients

Patient Data



[New Patient](#)
[Live Data](#)
[Upload Data](#)
[Export Data](#)

Reports



[National Map](#)
[Participation](#)
[BB2](#)
[Indicators](#)
[Exceptions](#)

Resources



[Welcome](#)
[Pack](#)
[Blue Book](#)
[FAQs](#)
[Best Practice](#)
[Downloads](#)

More Information



[E-Learning](#)
[Literature](#)
[Review](#)
[Contact Us](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

[Design & Technology by CCAD](#)



The National Hip
Fracture Database

E-Learning Module

The NHFD

[Home](#) [Data](#) [Reports](#) [Resources](#) **More**

User: NHFD Demouser
Hospital: All Centres
[Logout](#)

Improving data quality

As an audit that covers almost two hundred hospitals, NHFD relies on many people to enter data accurately. For some, the data may be collected from areas of clinical practice in which they do not have training or expertise.

At other times it may be that ambiguity exists with terminology.

A 'fair' audit is one in which there is consistency in data entry. This is more important than 'being right' in the sense of entering data in a way that is locally considered to be more precise than that which is used nationally.

At the point of data entry there is help in the form of 'hover buttons'



and an area of [Frequently Asked Questions](#).

[Database Records](#) [FAQs](#) [Best Practice](#)

These links look at a limited number of fields in greater depth, in order to help the 'non - expert' enter data confidently.

Further help can be obtained from the helpdesk:
helpdesk@nhfd.co.uk

ELearning



[Home](#)

[ASA Grade](#)
[Bone Protection Medication](#)
[Fracture Types](#)
[Operation Performed](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

[Design & Technology by CCAD](#)



The National Hip
Fracture Database

E-Learning Module

The NHFD

[Home](#) [Data](#) [Reports](#) [Resources](#) **More**

User: NHFD Demouser
Hospital: All Centres
[Logout](#)

ASA Grade

ASA grading is best considered a measure of a person's overall health, rather than a fitness for anaesthesia.

Currently, the ASA grade is included in less than 50% of submitted records. There is no definitive guide to grading but for the purpose of NHFD data collection:

1. A grading recorded on the anaesthetic record of the initial hip fracture operation should be assumed to be correct. Sometimes the number is supplemented with an 'E' to indicate an emergency procedure.

2. If there is no recorded grade, one can often be derived from the case notes. The grading refers to 'systemic disease', chiefly cardiovascular and respiratory disease, along with poor kidney and liver function.

It does not take into account neurological disease, musculoskeletal disease or obesity.

As grading does not take into account acute illness, a patient can be ASA grade 1 and still be 'unfit', due to a chest infection.

3. Remember, an ASA grade is still a useful factor in assessing casemix, even if the patient does not have an operation.

E-Learning



[Home](#)
[ASA Grade](#)

[ASA Grade 1](#)
[ASA Grade 2](#)
[ASA Grade 3](#)
[ASA Grade 4](#)
[ASA Grade 5](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

[Design & Technology by CCAD](#)



The National Hip
Fracture Database

E-Learning Module

The NHFD

[Home](#) [Data](#) [Reports](#) [Resources](#) **More**

User: NHFD Demouser
Hospital: All Centres
[Logout](#)

Displaced Intracapsular

Fractures that occur within the joint, with movement between the fragments are termed 'displaced intracapsular'.

These may be treated by internal fixation, but as this may result in complications needing further surgery, some form of arthroplasty is more common.



These account for 41% of the total number of hip fractures.

ELearning



[Home](#)

[Fracture Types](#)

[Undisplaced Intracapsular](#)

[Displaced Intracapsular](#)

[Intertrochanteric](#)

[Subtrochanteric](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [Contact NHFD](#)

[Design & Technology by CCAD](#)



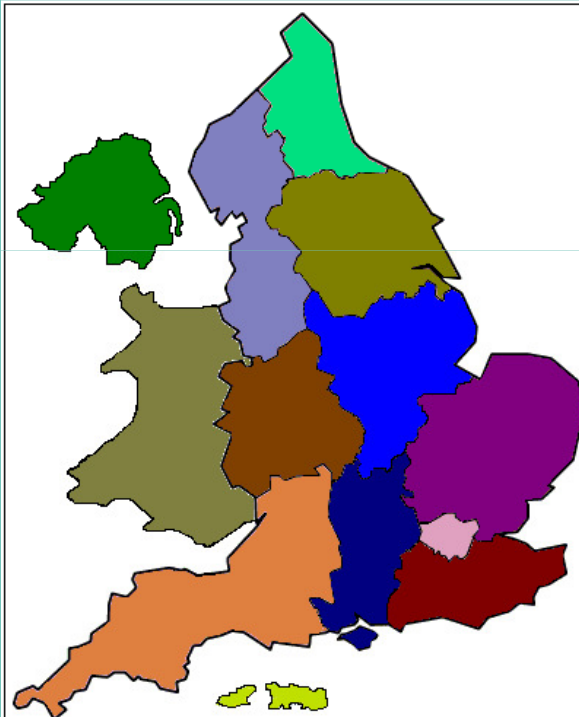
The National Hip
Fracture Database

Monthly National/SHA/Local report

The **NHFD**

[Home](#) [Data](#) **Reports** [Resources](#) [More](#)

User: NHFD Demouser
Hospital: All Centres
[Logout](#)



Click on a SHA to zoom in

National Summary Figures

Report run date: 18/01/2010

Records created in the last 12 months	14291
Records created in the last month	143
Draft records for the last 12 months	2557

National Blue Book Indicators

	National
Time to Ward	8.01 hrs
Time to Theatre	46.31 hrs
Length of Stay	20.24 dys

	National
Pressure Ulcers	3.79 %
Preoperative Assessment	52.45 %
Bone Protection Medication	53.36 %
Specialist Falls Assessment	49.87 %

Figures Options

[Bluebook Indicators](#)
[Operations Performed](#)

Patient Data

 [New Patient](#)
[Active Patients](#)
[All Patients](#)
[All draft records](#)

Follow-Ups

[30 day follow-ups](#)
[120 day follow-ups](#)
[365 day follow-ups](#)

Reports

 [National Map](#)
[Participation](#)
[Facilities Audit](#)

BB2 Indicators

[Time To Ward](#)
[Time To Surgery](#)
[Pressure Ulcers](#)
[Routine Assessments](#)
[Antiresorptive Therapy](#)
[Falls Assessments](#)

Exceptions

[Unlikely Combinations](#)
[Time to ward > 500 hrs](#)
[Time to surgery > 450 hrs](#)
[Time to discharge > 200 days](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [User Notice](#) [Feedback](#)

Design & Technology by CCAD



The National Hip
Fracture Database

Monthly National/SHA/Local report

The **NHFD**

[Home](#) [Data](#) **Reports** [Resources](#) [More](#)

User: NHFD Demouser
Hospital: All Centres
[Logout](#)

Hospital Report - BAS. Basildon Hospital Report run date: 15/01/2010

Report Options

[Summary](#)
[BlueBook Indicators](#)
[Exceptions](#)
[Data Completeness](#)
[Admitted From](#)
[ASA Grades](#)
[Age At Event](#)
[Walking Ability](#)
[Fracture Type](#)
[Operation Performed](#)

[East of England
Figures](#)
[National Figures](#)

December 2010 | Last 12 Months

Summary Last 12 months	Local	SHA	National
Total Patients:	365	2767	30465
Active Patients:	15	472	5713
Draft Patients:	1	333	4298
Mortality:	20	245	2642
Days since last update:	2	0	0

Patient Data



[New Patient](#)
[Active Patients](#)
[All Patients](#)
[All draft records](#)

Follow-Ups

[30 day follow-ups](#)
[120 day follow-ups](#)
[365 day follow-ups](#)

Reports



[National Map](#)
[Participation](#)
[Facilities Audit](#)

BB2 Indicators

[Time To Ward](#)
[Time To Surgery](#)
[Pressure Ulcers](#)
[Routine Assessments](#)
[Antiresorptive Therapy](#)
[Falls Assessments](#)

Exceptions

[Unlikely Combinations](#)
[Time to ward > 500 hrs](#)
[Time to surgery > 450 hrs](#)
[Time to discharge > 200 days](#)

[Terms and Conditions](#) [Privacy Policy](#) [Disclaimer](#) [User Notice](#) [Feedback](#)

[Design & Technology by CCAD](#)



The National Hip
Fracture Database

PBR reports

- Quarterly
 - Admitted using assessment tool under the joint care of a Consultant Geriatrician & a Consultant Orthopaedic Surgeon
 - Time to Theatre < 36 hours
 - Geriatrician assessment < 72 hours
 - Falls and bone health assessments

