

## Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2010 to March 2011 and April to July 2011. Post-operative Data: Experimental Statistics Data Quality Note

The data quality note will be updated in the event of issues arising post-publication. A summary of changes made will appear in the table below. For the most recent version of this data quality note, please refer to [HESonline](http://www.hesonline.nhs.uk) [http://www.hesonline.nhs.uk].

Version control	
Date	Summary of update
15/12/2011	'Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2010 to March 2011 and April to July 2011. Post-operative Data: Experimental Statistics Data Quality Note' published

Please note this data is provisional and subject to changes and revisions each month. It should be treated as an estimate until the final annual publication.

### PROMs publication

This is the latest publication of provisional post-operatives scores from the Patient Reported Outcome Measures (PROMs) programme for the period April 2010 to March 2011 and April to July 2011. This publication considers the change in patients' self-reported health status for the four common elective surgical procedures in the PROMs programme: groin hernia surgery, hip replacement, knee replacement and varicose vein surgery. Analysis covers the period from April 2010 to the end of March 2011 and the period from April to July 2011, and includes pre-operative questionnaires that all English providers treating NHS patients have been asked to collect from patients who wish to participate and post-operative questionnaires returned by patients following their surgery. Not all patients undergoing the relevant operations returned questionnaires for a variety of reasons.

### Experimental dataset

The report is classed as experimental statistics as it contains new official statistics that are undergoing evaluation. Its aim is to provide an overall summary and presentation of the key findings based on the data available rather than to provide a detailed interpretive analysis. Detailed analysis of the data has been commissioned by the Department of Health from the London School of Hygiene and Tropical Medicine.

Publishing the post-operative PROMs questionnaire data as experimental statistics enables:

- initial findings to be presented for discussion and further investigation;
- information on data coverage and quality to be made available to encourage local action to improve these areas;
- users to comment on methodology and their needs for analysis. Statistical and casemix adjustments to the PROMs data, developed by contractors<sup>1</sup> on behalf of the Department of Health, are being applied in this publication in advance of a planned cycle of further refinement to the methodology.

<sup>1</sup> CHKS Ltd in conjunction with Northgate Information Solutions Ltd.

## Data quality considerations

A full list of data quality considerations including coverage, missing values, ambiguous values and demographics is contained within the PROMs guide, which is available to download from [HESonline](http://www.hesonline.nhs.uk) [www.hesonline.nhs.uk].

## Data completeness

Monthly provisional data may be incomplete or contain errors which have not been investigated or adjusted yet. **The number of eligible episodes and questionnaires received may change for previous months due to updated clinical coding and delayed submission of questionnaires.** In general, counts from the monthly provisional data are likely to be lower than those generated for the same period in the final annual dataset. The tables in Annex 1 display the most recent counts.

As part of the continued verification of questionnaires, it is possible for questionnaires to be identified as ineligible. Ineligible questionnaires are those which should not have been administered. This may be because the recipient of the questionnaire is not due to have/has had a procedure, or that they have previously completed a questionnaire. These questionnaires have therefore not been included within any counts and any responses from these questionnaires have not been included within any analysis. As such, a decrease in the number of pre-operative questionnaires may be seen in some months.

## Known provider issues in HES: coverage issues

PROMs data is linked to HES inpatient data. HES inpatient data in the PROMs dataset is cumulative and includes all provisional linked episodes from 2010-11 and provisional linked episodes from 2011-12. The HES 2010–11 Month 14 Inpatient Data Quality Note noted that the following organisations have been identified as having shortfalls/missing data or specific data quality issues with their HES inpatient data. Their data should be interpreted with caution.

### Organisations with HES inpatient shortfalls/missing data in the HES 2010–11 Month 14 Inpatient Data Quality Note

Organisation name	Organisation code	Months affected	Approx. total number of records missing
Bournemouth and Pool Teaching PCT	5QN	Feb	40
Cambridgeshire and Peterborough NHS Foundation Trust	RT1	Feb	300
Central Lancashire PCT	5NG	Mar	30
Devon Partnership NHS Trust	RWV	Dec - Mar	200
Dorset PCT	5QM	Feb	100
East Riding of Yorkshire PCT	5NW	Apr - Oct	620
Hampshire PCT	5QC	Mar	800
Heart of Birmingham Teaching PCT	5MX	Dec - Mar	80
Norfolk PCT	5PQ	Nov - Feb	1,800
North East London NHS Treatment Centre	NTP15	Apr	500
Northamptonshire Teaching PCT	5PD	Apr - Feb	1,700
Oxfordshire and Buckinghamshire Mental Health NHS Foundation Trust	RNU	Dec - Feb	600

Peninsula NHS Treatment Centre	NTC05	Apr-Aug	1,200
Rotherham PCT	5H8	Oct - Feb	600
Southampton NHS Treatment Centre	NTP11	Apr - Aug	1,200

The HES 2011–12 Month 5 Inpatient Data Quality Note noted that the following organisations have been identified as having shortfalls/missing data or specific data quality issues with their HES inpatient data. Their data should be interpreted with caution.

**Organisations with HES inpatient shortfalls/missing data in the HES 2011–12 Month 5 Inpatient Data Quality Note**

Organisation name	Organisation code	Months affected	Approx. total number of records missing
Abbey Gisburne Park Hospital	NTF01	Jun - Jul	140
Devon PCT	5QQ	Jun - Jul	140
Lincolnshire Partnership NHS Foundation Trust	RP7	Jul	150
Nuffield Health, North Staffordshire Hospital	NT230	Apr - May	60
Pain Management Solutions (Oaks Park)	NY601	Apr	60
Spire Cheshire Hospital	NT324	Apr - May	70
St Hugh's Hospital	NTE02	Jul	170
The Cheshire & Merseyside NHS Treatment Centre	NTD02	May - Jul	1,200
The Midlands NHS Treatment Centre	NTA03	Jul	700
Tower Hamlets PCT	5C4	May - Jul	400

## Annex A - Data completeness tables

Eligible HES episodes												
Period	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
Aug 10 - Jan 11	18,939	21,191	20,965	22,141	15,968	18,409	-	-	-	-	-	-
Aug 10 - Feb 11	19,052	21,293	21,034	22,229	16,056	18,632	19,662	-	-	-	-	-
Aug 10 - Mar 11	18,987	21,213	21,044	22,271	16,058	18,643	19,816	22,610	-	-	-	-
Aug 10 - Apr 11	18,987	21,213	21,045	22,272	16,059	18,644	19,827	22,773	16,904	-	-	-
Aug 10 - May 11	18,987	21,213	21,045	22,272	16,059	18,644	19,831	22,803	17,072	19,876	-	-
Aug10 - Jun 11	19,175	21,457	21,168	22,412	16,165	18,772	19,930	22,872	16,880	19,886	21,620	-
Aug 10 – Jul 11	19,175	21,457	21,168	22,412	16,165	18,772	19,930	22,888	17,011	19,910	21,741	19,682

Pre-operative questionnaires												
Period	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
Aug 10 - Jan 11	13,278	14,693	14,836	14,681	10,246	12,638	-	-	-	-	-	-
Aug 10 - Feb 11	13,269	14,703	14,852	14,714	10,297	12,932	12,374	-	-	-	-	-
Aug 10 - Mar 11	13,705	15,369	15,362	15,482	10,830	14,145	13,684	15,213	-	-	-	-
Aug 10 - Apr 11	13,701	15,352	15,352	15,477	10,828	14,154	13,726	15,340	11,894	-	-	-
Aug 10 - May 11	13,703	15,345	15,337	15,458	10,829	14,166	13,757	15,374	11,963	14,395	-	-
Aug10 - Jun 11	13,709	15,351	15,337	15,443	10,825	14,169	13,752	15,388	11,989	14,467	15,176	-
Aug 10 – Jul 11	13,712	15,359	15,337	15,440	10,809	14,174	13,756	15,395	12,008	14,522	15,378	14,203

Questionnaires linked to episodes <sup>2</sup>												
Period	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
Aug 10 - Jan 11	10,169	11,171	10,915	9,831	5,891	4,466	-	-	-	-	-	-
Aug 10 - Feb 11	10,199	11,189	11,229	10,571	6,914	7,691	4,220	-	-	-	-	-
Aug 10 - Mar 11	10,501	11,620	11,582	11,609	8,169	10,335	9,467	9,148	-	-	-	-
Aug 10 - Apr 11	10,504	11,627	11,588	11,625	8,205	10,685	10,221	10,836	7,053	-	-	-
Aug 10 - May 11	10,506	11,627	11,583	11,611	8,205	10,733	10,569	11,614	8,355	8,905	-	-
Aug10 - Jun 11	10,624	11,758	11,660	11,672	8,262	10,769	10,630	11,932	8,861	10,263	9,543	-
Aug 10 – Jul 11	10,626	11,760	11,661	11,671	8,252	10,772	10,632	11,965	9,171	10,976	11,174	8,951

Post-operative questionnaires returned <sup>3</sup>												
Period	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
Aug 10 - Jan 11	7,204	5,422	2,470	1,573	662	15	-	-	-	-	-	-
Aug 10 - Feb 11	8,527	8,494	6,720	3,042	1,526	1,195	334	-	-	-	-	-
Aug 10 - Mar 11	9,558	9,620	8,333	5,841	2,088	1,634	1,030	276	-	-	-	-
Aug 10 - Apr 11	10,386	11,118	9,828	8,480	4,619	2,978	1,923	1,617	421	-	-	-
Aug 10 - May 11	10,531	11,516	10,940	9,640	6,007	6,095	3,086	2,215	1,193	473	-	-
Aug10 - Jun 11	10,567	11,657	11,423	10,888	6,828	7,871	6,035	3,386	1,665	1,496	364	-
Aug 10 – Jul 11	10,580	11,683	11,540	11,349	7,522	8,861	7,856	7,031	2,611	2,093	1,424	276

<sup>2</sup> These figures are based on questionnaires linked to HES episodes using an algorithm that compares a number of different combinations of patient identifiers. This methodology may be revised or enhanced for future publications. The counts are based upon the pre-operative questionnaire completion date.

<sup>3</sup> The counts are based upon the pre-operative questionnaire completion date.