

Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2010 to March 2011 and April 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
15/09/2011	'Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2010 to March 2011 and April 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 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 for April 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 contractors¹ 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.

¹ 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 13 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 13 Inpatient Data Quality Note

Organisation name	Organisation code	Months affected	Approx. total number of records missing
Bournemouth and Poole 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
Eccleshill NHS Treatment Centre	NTA01	Jul - Feb	2,400
Enfield PCT	5C1	Apr, May	40
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

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Northamptonshire Teaching PCT	5PD	Apr - Feb	1,700
Oxfordshire and Buckinghamshire Mental Health NHS Foundation Trust	RNU	Dec - Feb	600
Rotherham PCT	5H8	Oct - Feb	600
Somerset Partnership NHS Foundation Trust	RH5	Unfinished*	172
Southampton NHS Treatment Centre	NTP11	Apr - Aug	1,200
Woodlands Day Hospice	8E339	Sept - Feb	120
York Teaching Hospitals NHS Foundation Trust	RCB	Jul - Sept	25,000

* This refers to unfinished episodes (Episode Status = '1') that are missing rather than finished episodes (Episode Type = '3').

The HES 2011–12 Month 2 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 2 Inpatient Data Quality Note

Organisation name	Organisation code	Months affected	Approx. total number of records missing
Devon Partnership NHS Trust	RWV	Apr	100
Liverpool Heart and Chest Hospital NHS Trust	RBQ	Apr	1,000
Sheffield Teaching Hospitals NHS Foundation Trust	RHQ	Apr	5,000

Annex A - Data completeness tables

Eligible HES episodes												
Period	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
May 10 - Oct 10	19,749	21,989	20,916	18,774	20,812	20,513	-	-	-	-	-	
May 10 - Nov 10	19,515	21,859	20,755	18,717	20,833	20,652	21,685	-	-	-	-	
May 10 - Dec 10	19,741	21,856	20,889	18,841	21,007	20,723	21,799	15,682	-	-	-	
May 10 - Jan 11	19,734	21,992	21,013	18,939	21,191	20,965	22,141	15,968	18,409	-	-	
May 10 - Feb 11	19,910	22,127	21,114	19,052	21,293	21,034	22,229	16,056	18,632	19,662	-	
May 10 - Mar 11	19,915	22,115	21,022	18,987	21,213	21,044	22,271	16,058	18,643	19,816	22,610	
May 10 - Apr 11	19,915	22,115	21,022	18,987	21,213	21,045	22,272	16,059	18,644	19,827	22,773	16,904

Pre-operative questionnaires												
Period	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
May 10 - Oct 10	12,982	13,553	12,444	11,788	12,490	9,290	-	-	-	-	-	
May 10 - Nov 10	13,218	14,490	13,798	13,100	14,360	13,703	8,379	-	-	-	-	
May 10 - Dec 10	13,240	14,520	13,880	13,264	14,646	14,737	14,344	9,593	-	-	-	
May 10 - Jan 11	13,245	14,513	13,873	13,278	14,693	14,836	14,681	10,246	12,638	-	-	
May 10 - Feb 11	13,250	14,507	13,856	13,269	14,703	14,852	14,714	10,297	12,932	12,374	-	
May 10 - Mar 11	13,777	14,977	14,441	13,705	15,369	15,362	15,482	10,830	14,145	13,684	15,213	
May 10 - Apr 11	13,781	15,006	14,447	13,701	15,352	15,352	15,477	10,828	14,154	13,726	15,340	11,894

Questionnaires linked to episodes ²												
Period	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
May 10 - Oct 10	10,040	10,665	9,598	8,497	7,997	3,962	-	-	-	-	-	
May 10 - Nov 10	10,104	11,133	10,509	9,807	10,122	8,595	3,627	-	-	-	-	
May 10 - Dec 10	10,123	11,154	10,595	10,034	10,779	10,069	8,187	3,221	-	-	-	
May 10 - Jan 11	10,220	11,251	10,711	10,169	11,171	10,915	9,831	5,891	4,466	-	-	
May 10 - Feb 11	10,253	11,283	10,746	10,199	11,189	11,229	10,571	6,914	7,691	4,220	-	
May 10 - Mar 11	10,594	11,588	11,055	10,501	11,620	11,582	11,609	8,169	10,335	9,467	9,148	
May 10 - Apr 11	10,594	11,589	11,060	10,504	11,627	11,588	11,625	8,205	10,685	10,221	10,836	7,053

Post-operative questionnaires returned ³												
Period	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
May 10 - Oct 10	5,024	4,623	1,966	1,337	692	142	-	-	-	-	-	
May 10 - Nov 10	6,569	7,467	5,206	2,111	1,515	1,104	263	-	-	-	-	
May 10 - Dec 10	8,837	9,039	7,385	5,100	2,541	1,854	1,065	201	-	-	-	
May 10 - Jan 11	9,626	10,093	8,558	7,204	5,422	2,470	1,573	662	15	-	-	
May 10 - Feb 11	9,941	10,912	9,808	8,527	8,494	6,720	3,042	1,526	1,195	334	-	
May 10 - Mar 11	10,335	11,385	10,612	9,558	9,620	8,333	5,841	2,088	1,634	1,030	276	
May 10 - Apr 11	10,385	11,465	10,953	10,386	11,118	9,828	8,480	4,619	2,978	1,923	1,617	421

² 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.

³ The counts are based upon the pre-operative questionnaire completion date.