



Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2009 to September 2010. 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].

Version control											
Date	Summary of update										
10/02/2011	'Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2009 to September 2010. 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

Following the first publication of post-operative scores in September 2010, this is the latest monthly update from the Patient Reported Outcome Measures (PROMs) programme. This publication builds upon the published pre-operative data and 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 2009 to the end of September 2010 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 [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. Over time these will be updated to show the month-on-month change.

As part of the continued verification of questionnaires, it is possible for questionnaires to be identified as ineligible. Ineligible questionnaire 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.

POIS audit

Approximately 80 providers were involved from April 2009 to September 2009 in the Patient Outcomes in Surgery (POIS) audit for orthopaedic procedures. Data from the POiS Audit is now included within the PROMs data set. As such an increase has been seen in the participation rate when compared to last month. Further details around the POIS audit are included in the PROMs guide, which is available to download from HESonline">HESonline

[http://www.hesonline.nhs.uk/Ease/servlet/ContentServer?siteID=1937&categoryID=1295].

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 finalised linked episodes from 2009-10 and provisional linked episodes from 2010-11. The HES 2009-10 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 interpreted with caution.

Organisations with HES inpatient shortfalls/missing data in the HES 2009-10 Month 14 Inpatient Data Quality												
Organisation name	Organisation code	Months affected	Approx. total number of records missing									
Bournemouth and Poole Teaching Hospital	5QN	Jan - Mar	120									
Nuffield Health	NT2	Apr - Mar	6,000									
Spire Healthcare	NT3	Apr - Mar	29,000									

The HES 2010–11 Month 7 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 interpreted with caution.

Organisations with HES inpatient shortfalls/missing data in the HES 2010-11 Month 7 Inpatient **Data Quality Note** Approx. total **Organisation Months** number of **Organisation name** code affected records missing Cambridgeshire and Peterborough NHS Foundation RT1 Jul - Sep 540 Trust Cambridgeshire PCT 5PP Apr - Sep 1,800 Cornwall Partnership NHS Trust RJ8 Apr - Sep 635 East Riding of Yorkshire PCT 5NW Arp - Sep 480 **Eccleshill NHS Treatment Centre** NTA01 Jul - Sep 900 NVC09 Apr - Jul 720 New Hall Hospital

5PD

NT219

NT242

NT245

5M7

Apr - Sep

Aug - Sep

Sep

Aug - Sep

May - Sep

900

60

80

20

450

Known issues in PROMs: coverage issues

Northamptonshire Teaching PCT

Nuffield Health, Hereford Hospital

Nuffield Health, York Hospital

Sutton and Merton PCT

Nuffield Health, Wolverhampton Hospital

Due to the festive period and adverse weather in December 2010, the number of pre- and postoperative questionnaires sent out and returned was affected. This has had the effect of reducing the pre-operative participation rate and increasing the post-operative return rate. These issues have been addressed and the corrective impact will be seen over the forthcoming months.

Annex A - Data completeness tables

Eligible H	Eligible HES episodes ²																	
Period	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
April 09 – April 10	18,726	18,642	20,843	20,649	17,731	20,591	21,604	21,066	17,712	18,447	19,906	23,501	18,997	-	-	-	-	-
April 09 – May 10	18,726	18,642	20,843	20,649	17,731	20,591	21,604	21,066	17,713	18,447	19,907	23,542	19,455	19,414	-	-	-	-
April 09 – June 10	18,726	18,642	20,844	20,649	17,731	20,591	21,604	21,066	17,712	18,447	19,910	23,531	19,327	19,441	21,595	-	-	-
Apr 09 – Jul 10	18,726	18,644	20,838	20,646	17,743	20,758	21,605	21,068	17,714	18,448	19,913	23,616	19,454	19,580	21,788	20,684	-	-
Apr 09 – Aug 10	18,726	18,644	0,837	20,646	17,743	20,756	21,605	21,068	17,714	18,447	19,912	23,553	19,529	19,661	21,935	20,859	18,701	-
Apr 09 – Sep 10	18,727	18,644	20,838	20,647	17,745	20,759	21,613	21,079	17,733	18,492	19,995	23,707	19,603	19,824	22,084	20,994	18,827	20,865

Pre-operat	tive que	stionna	ires															
Period	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
April 09 – April 10	5,537	9,512	11,447	10,914	9,390	11,703	13,567	12,594	11,141	12,374	12,910	15,184	12,430	-	-	-	-	-
April 09 – May 10	5,537	9,512	11,452	10,919	9,396	11,696	13,556	12,585	11,141	12,386	12,933	15,266	12,755	11,707	-	-	-	-
April 09 – June 10	5,537	9,512	11,457	10,920	9,398	11,703	13,558	12,568	11,138	12,417	12,961	15,346	12,938	12,527	11,782	-	÷	-
Apr 09 – Jul 10	5,538	9,512	11,460	10,921	9,400	11,723	13,820	13,522	11,126	12,422	12,968	15,359	12,963	12,597	12,454	10,600	-	-
Apr 09 – Aug 10	7,725	11,448	13,622	13,236	11,294	14,009	14,530	13,856	11,128	12,436	12,996	15,448	13,153	12,856	13,167	12,080	10,721	-
Apr 09 – Sep 10	7,725	11,448	13,623	13,236	11,294	14,008	14,530	13,863	11,133	12,432	12,987	15,461	13,168	12,904	13,400	12,295	11,450	9,402

² These figures are based upon episode start date. The majority of data from April 2009 to March 2010 has been finalised and will not change. HES episodes ending from April 2010 onwards are currently provisional and are subject to change.

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HOSPITAL EPISODE STATISTICS: Provisional Monthly Patient Reported Outcome Measures (PROMs) in England – April 2009 to August 2010. Pre-operative Data: Experimental Statistics Data Quality Note

Questionr	naires lir	nked to	episode	s ³														
Period	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
April 09 – April 10	4,314	7,418	8,565	8,164	6,849	8,589	9,876	8,904	8,086	8,739	8,751	9,281	4,547	-	-	-	-	-
April 09 – May 10	4,314	7,419	8,566	8,167	6,852	8,586	9,922	8,964	8,094	8,960	9,253	10,552	7,972	4,405	-	-	-	-
April 09 – June 10	4,322	7,428	8,571	8,196	6,889	8,619	9,947	8,994	8,110	8,993	9,479	11,219	9,102	7,955	4,767	-	-	-
Apr 09 – Jul 10	4,321	7,425	8,576	8,209	6,932	8,669	10,152	9,813	8,146	9,027	9,499	11,495	9,634	9,021	8,057	4,156	-	-
Apr 09 – Aug 10	5,921	8,836	10,144	9,920	8,303	10,215	10,611	10,081	8,146	9,035	9,531	11,559	9,970	9,660	9,479	7,578	3,932	-
Apr 09 – Sep 10	5,921	8,837	10,145	9,920	8,303	10,215	10,613	10,081	8,147	9,035	9,526	11,565	10,021	9,953	10,258	8,898	7,216	3,867

Post-opera	ative qu	estionn	aires ret	turned ⁴														
Period	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
April 09 – April 10	4,150	7,146	8,600	8,184	6,919	8,465	8,514	6,719	4,339	2,353	1,905	1,265	6	-	-	-	-	-
April 09 – May 10	4,157	7,150	8,611	8,214	6,968	8,676	9,339	7,315	5,432	4,100	2,221	1,501	7	6	-	-	-	-
April 09 – June 10	4,164	7,155	8,631	8,256	7,041	8,911	10,155	8,807	6,535	6,321	5,324	2,054	11	9	12	-	-	-
Apr 09 – Jul 10	4,169	7,164	8,737	8,360	7,149	9,015	10,552	9,475	7,638	7,584	7,165	5,837	1,188	35	24	26		-
Apr 09 – Aug 10	5,950	8,733	10,491	10,189	8,596	10,617	10,888	10,008	8,261	8,665	7,852	7,842	3,248	936	1,520	991	199	-
Apr 09 – Sep 10	5,951	8,737	10,493	10,190	8,599	10,656	11,026	10,239	8,427	9,078	8,591	8,345	3,933	2,283	1,892	1,259	597	55

³ 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.

⁴ The counts are based upon the pre-operative questionnaire completion date.