

PROMs report for:**Neil Bradbury****Comprising primary hips and knees with pre-op and 6 month post-op PROMs data:****Procedures From: 23/03/2009**
To: 23/12/2020**Produced on: 18/07/2021****Contents**

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This analysis is based on data collected by the NJR, and PROMs data collected by NHS Digital. PROMs data has been collected from providers of NHS-funded care in England since April 2009. PROMs scores are included in this analysis where complete paired pre-operative and 6-month post-operative scores are available, and have been linked to consented and traceable NJR primary hip and knee procedures.

This report is made available to Neil Bradbury , who is free to share this report as required.

PROMs records by Hospital

Hospital	Bicondylar Knees	Unicondylar Knees	Total Hips
Circle Bath Hospital	197 (1168)	23 (359)	0 (2)
Royal United Hospital	54 (160)	5 (33)	0 (9)
BMI Bath Clinic	1 (62)	0 (21)	0 (0)
The Princess Grace Hospital	0 (17)	0 (4)	0 (0)
Practice Plus Group Hospital - Emersons Green	1 (3)	1 (1)	0 (0)
The Wellington Hospital	0 (3)	0 (2)	0 (0)
Total	253 (1413)	29 (420)	0 (11)

Table includes all procedures for which paired pre-operative and 6-month post-operative scores are available for any of the PROMs collected (Oxford Score, EQ-5D, EQ-VAS).

Figures in brackets correspond to the total number of procedures for which the consultant was responsible in that hospital over the same time period.

Primary Bicondylar Knee Replacement

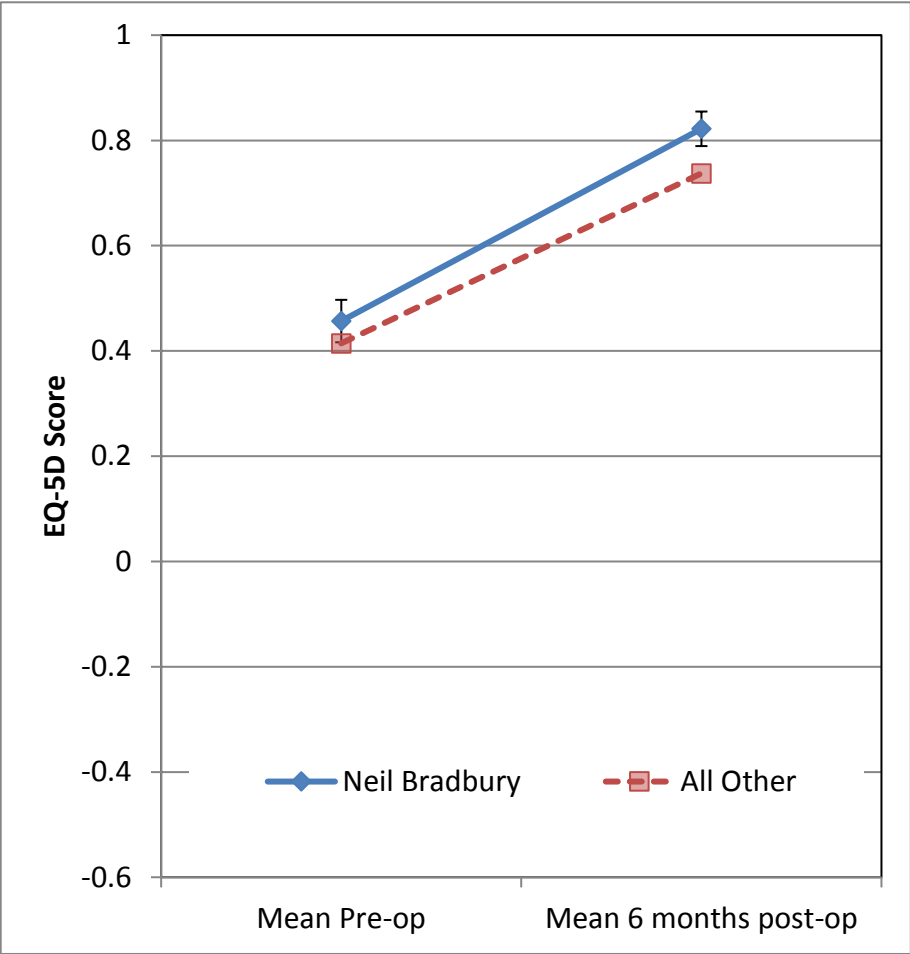
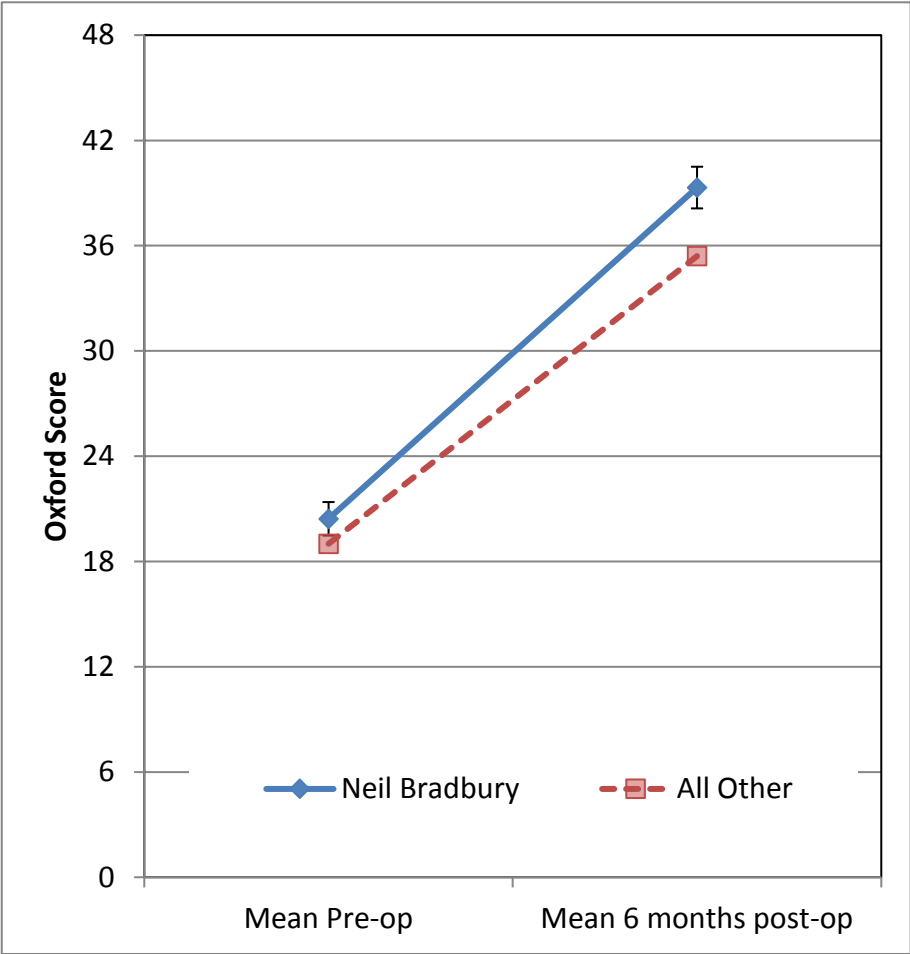
Patient Details

	Consultant TKR with paired PROMs	All other TKR in NJR with paired PROMs
Total Procedures	253	339,208
Total Patients	242	308,492
Demographics		
Mean age	69.6	70.4
< 50	1.6%	1.2%
50 – 59	13.0%	10.2%
60 – 69	31.6%	32.9%
70 – 79	41.5%	40.4%
≥ 80	12.3%	15.3%
Median BMI	28	30
% BMI information available	90.5%	76.3%
Underweight (BMI < 18.5)	0.0%	0.2%
Normal (18.5 ≤ BMI < 25)	18.8%	9.3%
Overweight (25 ≤ BMI < 30)	45.0%	34.4%
Obese I (30 ≤ BMI < 35)	23.1%	33.2%
Obese II (35 ≤ BMI < 40)	11.4%	16.6%
Obese III (BMI ≥ 40)	1.7%	6.4%
% Male	33.2%	43.3%
ASA Grades		
P1 - Fit and healthy	13.0%	8.3%
P2 - Mild disease not incapacitating	77.9%	74.6%
P3 - Incapacitating systemic disease	9.1%	16.8%
P4 / P5	0.0%	0.3%
Indications		
Osteoarthritis	98.42%	97.83%
Rheumatoid Arthritis	0.00%	1.18%
Other Inflammatory Arthropathy	0.00%	0.66%
Previous Trauma	0.79%	0.52%
Avascular Necrosis	0.00%	0.30%
Other	1.19%	0.28%

Total of indications may exceed total number of procedures, since more than one indication can be listed per case.

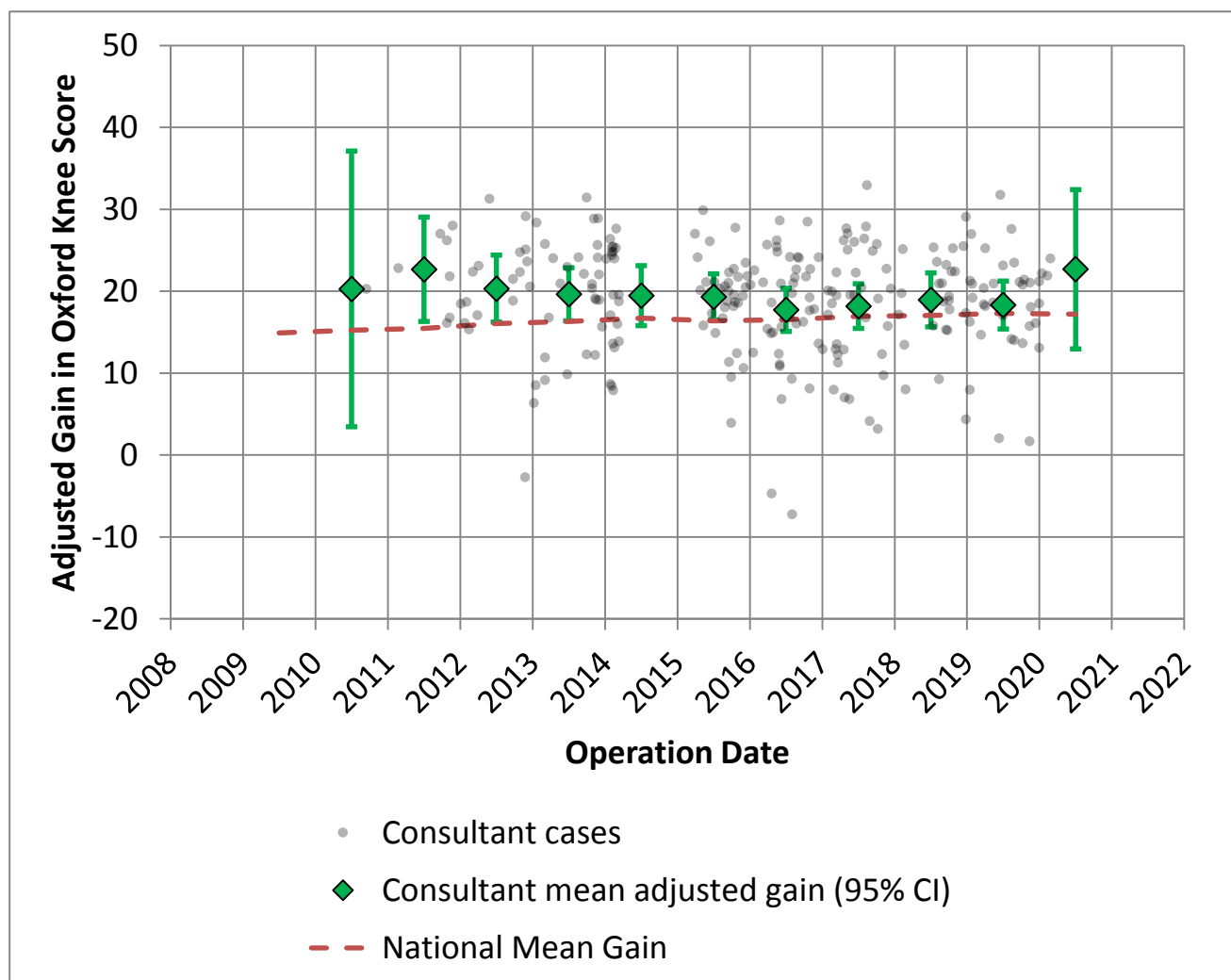
Primary Bicondylar Knee Replacement

PROMs Analysis



Primary Bicondylar Knee Replacement

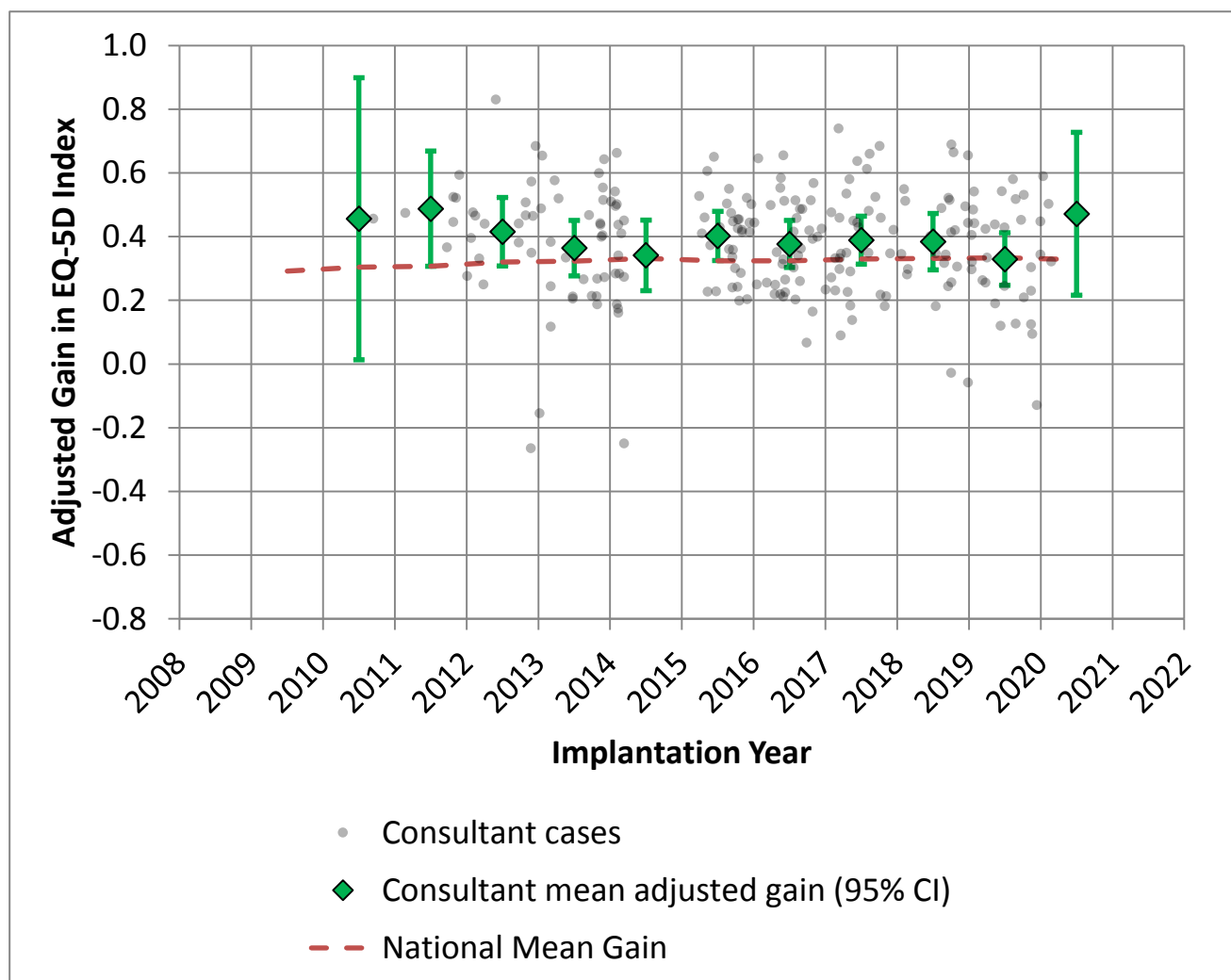
Oxford Knee Score



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Bicondylar Knee Replacement

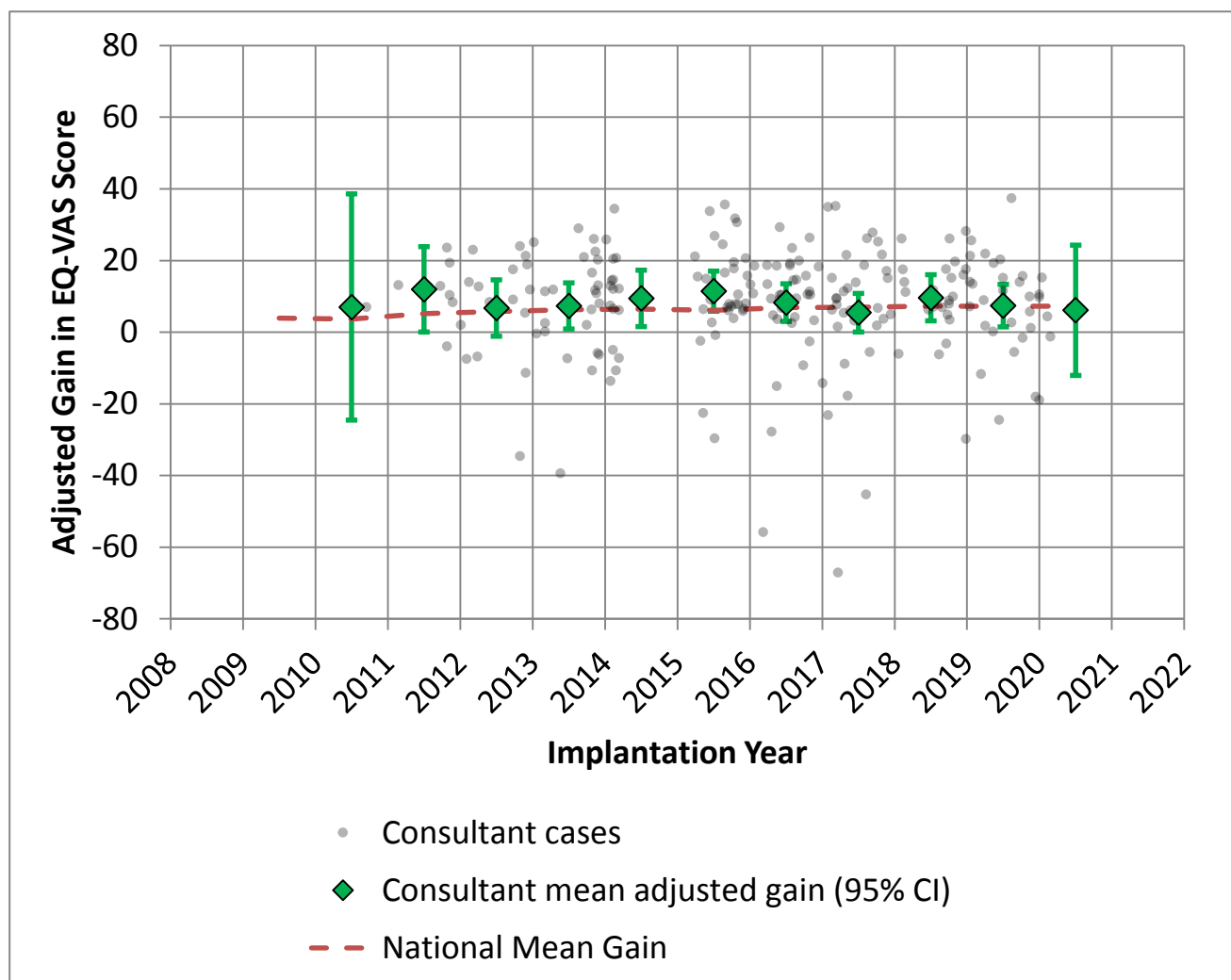
EQ-5D Index



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Bicondylar Knee Replacement

EQ-VAS



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Bicondylar Knee Replacement

PROMs Analysis

Oxford Knee Score (0 - 48)	Neil Bradbury	All other TKR
Paired Records	250	326,508
PreOp score	20.4 (19.5 - 21.4)	19.0 (19.0 - 19.0)
6 month score	39.3 (38.1 - 40.5)	35.4 (35.4 - 35.4)
Health gain	18.9 (17.7 - 20.1)	16.4 (16.4 - 16.4)
Health gain (adjusted)	19.0 (17.9 - 20.0)	16.4 (16.3 - 16.4)
Difference in adjusted gain *	1.5 to 3.7	
% Score Improved	98.0%	93.9%
% Adjusted gain > 0	98.8%	95.2%
p value % adjusted gain > 0	0.003	

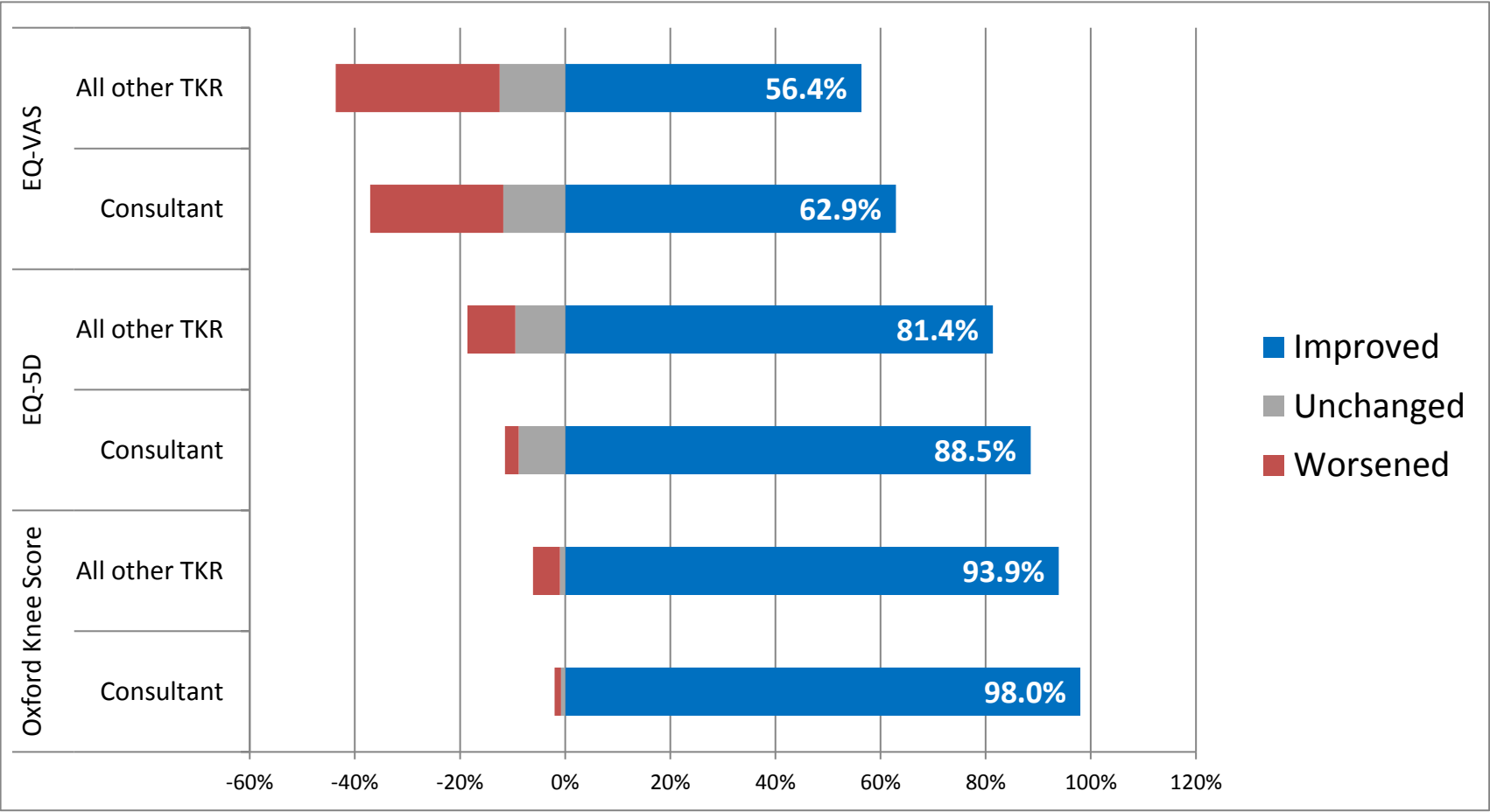
EQ-5D Index (-0.59 - 1.00)	Neil Bradbury	All other TKR
Paired Records	227	302,836
PreOp score	0.457 (0.416 - 0.497)	0.414 (0.413 - 0.415)
6 month score	0.822 (0.789 - 0.855)	0.737 (0.736 - 0.738)
Health gain	0.365 (0.323 - 0.408)	0.323 (0.322 - 0.324)
Health gain (adjusted)	0.381 (0.351 - 0.410)	0.322 (0.321 - 0.322)
Difference in adjusted gain *	0.030 to 0.088	
% Score Improved	88.5%	81.4%
% Adjusted gain > 0	97.4%	92.4%
p value % adjusted gain > 0	0.002	

EQ-VAS (0 - 100)	Neil Bradbury	All other TKR
Paired Records	221	290,577
PreOp score	68.6 (66.0 - 71.3)	67.9 (67.8 - 67.9)
6 month score	77.8 (75.3 - 80.2)	74.0 (73.9 - 74.1)
Health gain	9.1 (6.3 - 12.0)	6.1 (6.1 - 6.2)
Health gain (adjusted)	8.3 (6.2 - 10.4)	6.2 (6.1 - 6.2)
Difference in adjusted gain *	0.0 to 4.2	
% Score Improved	62.9%	56.4%
% Adjusted gain > 0	81.0%	71.7%
p value % adjusted gain > 0	0.002	

Adjusted scores correspond to the NHS Digital version 3 casemix-adjustment model. See methodology page for details. Figures in brackets correspond to 95% confidence intervals. * 95% confidence interval for the mean adjusted gain for the consultant, minus the national average adjusted gain.

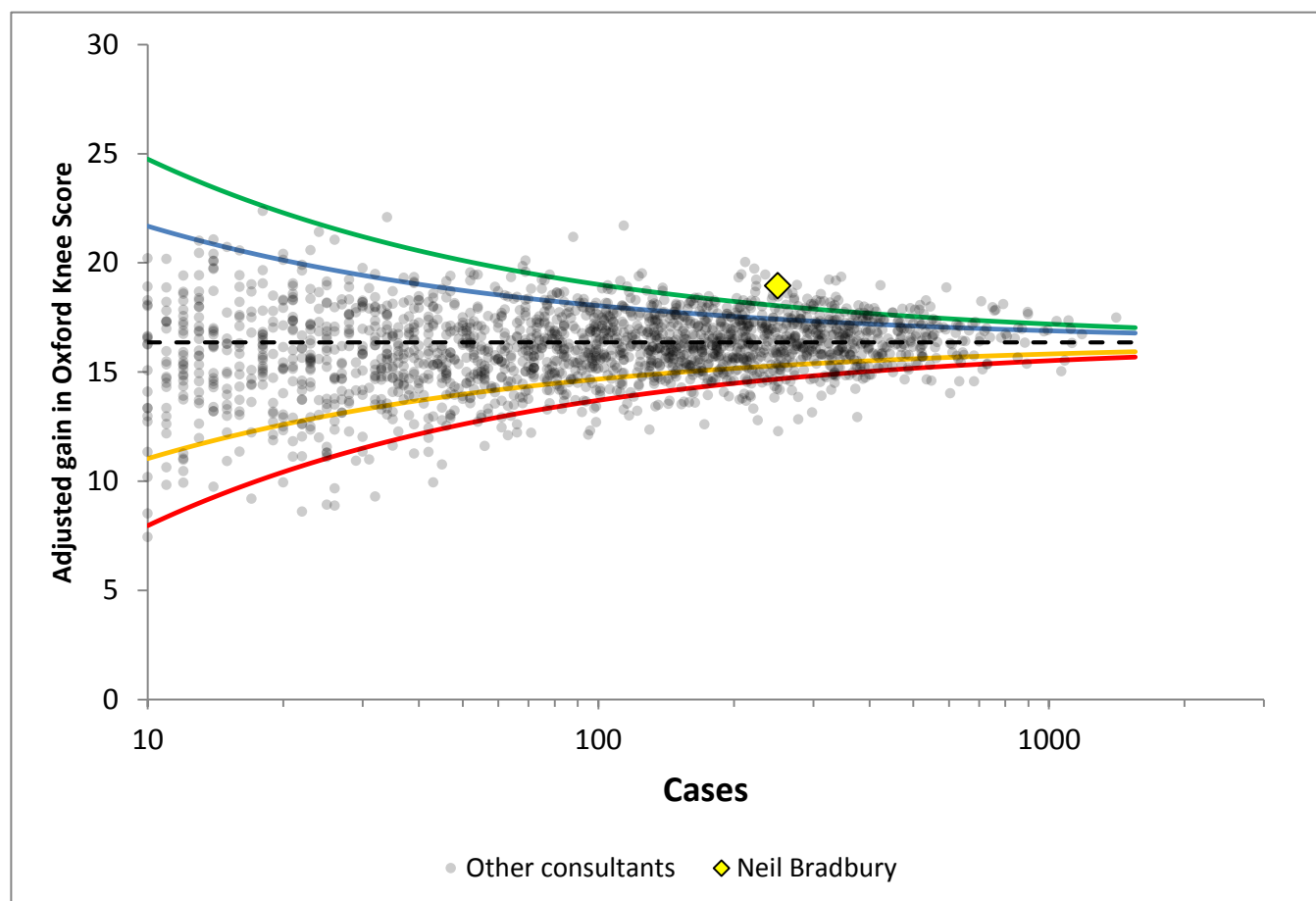
Primary Bicondylar Knee Replacement

PROMs Analysis



Primary Bicondylar Knee Replacement

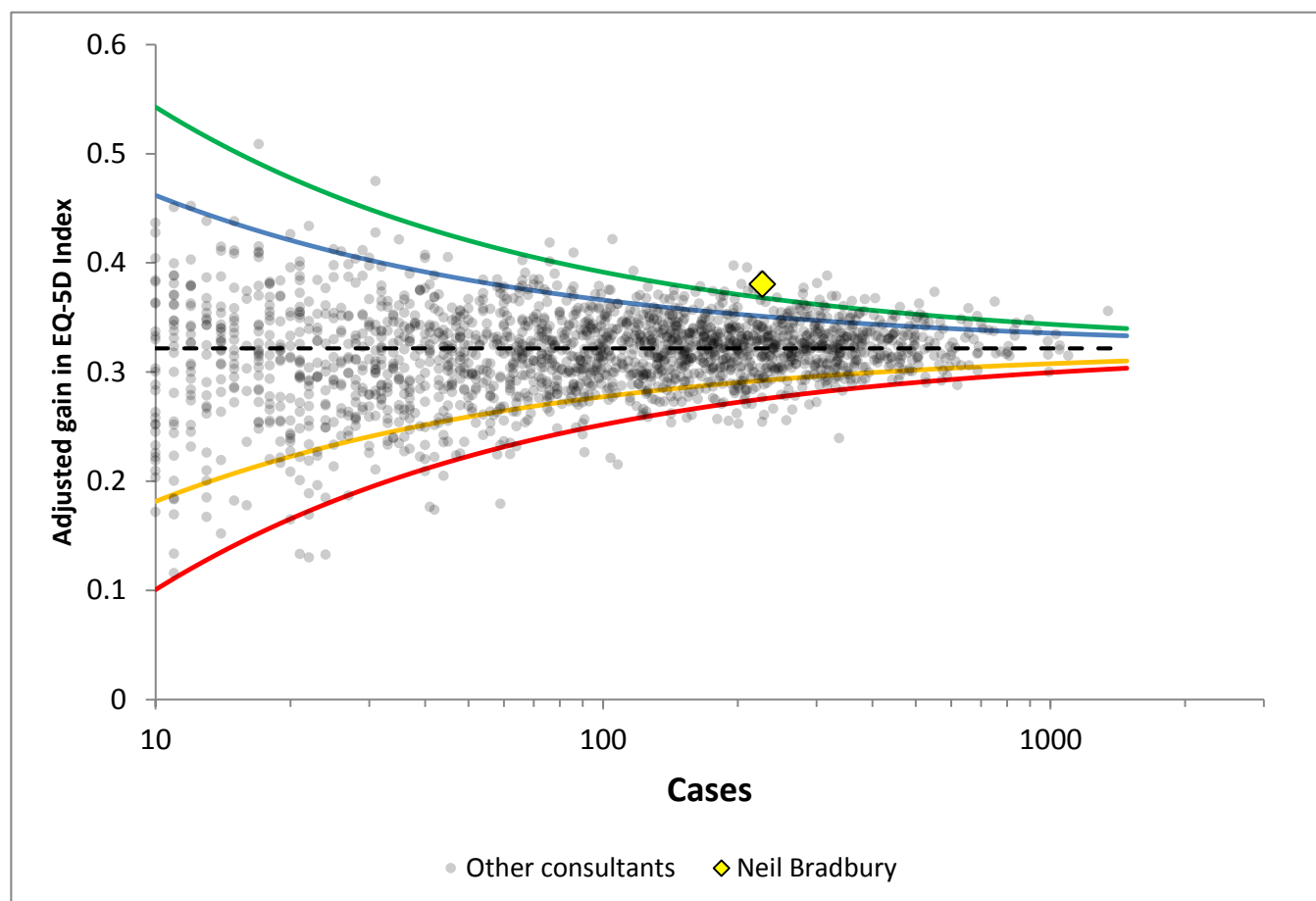
Oxford Knee Score



Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

Primary Bicondylar Knee Replacement

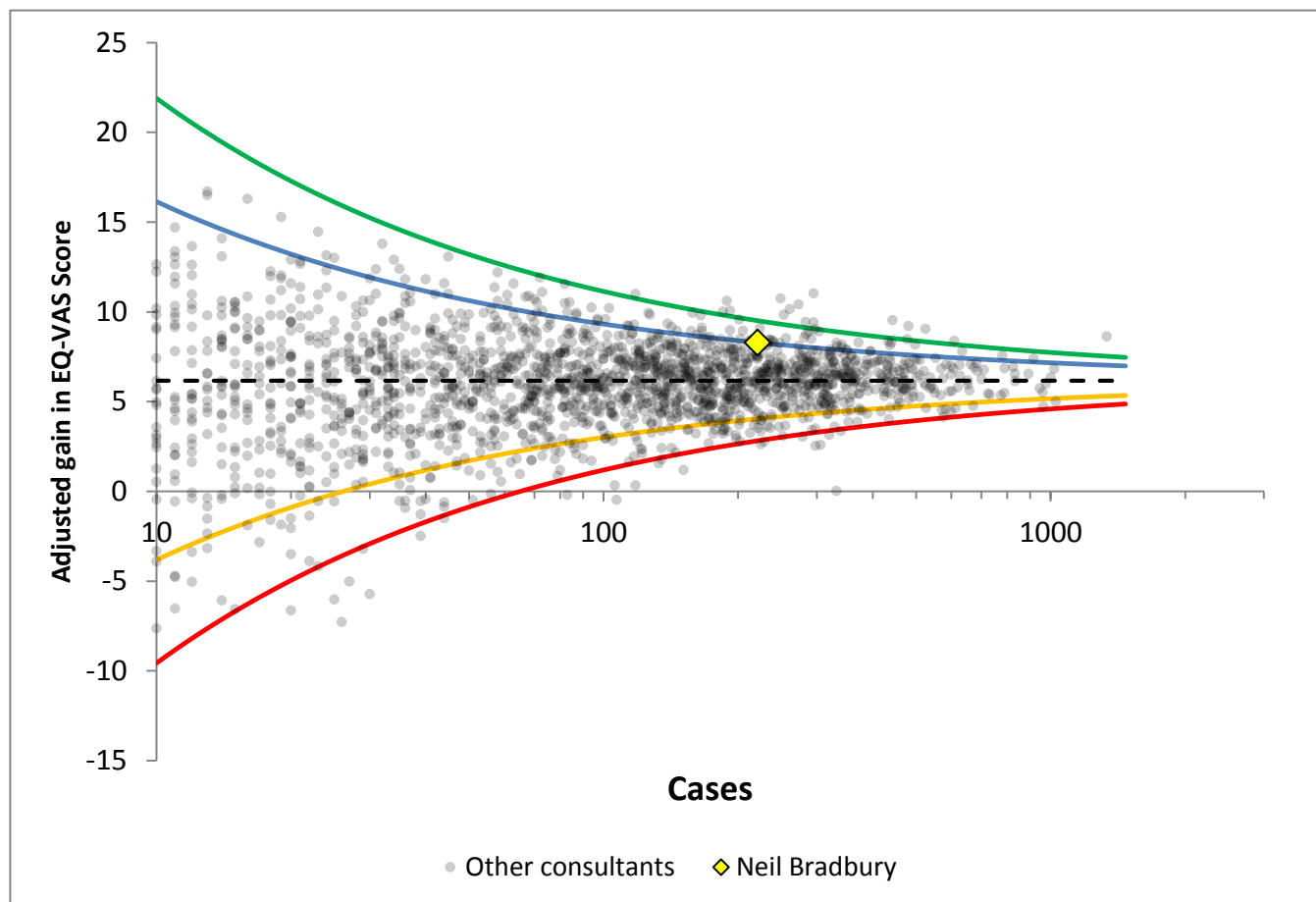
EQ-5D Index



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Primary Bicondylar Knee Replacement

EQ-VAS



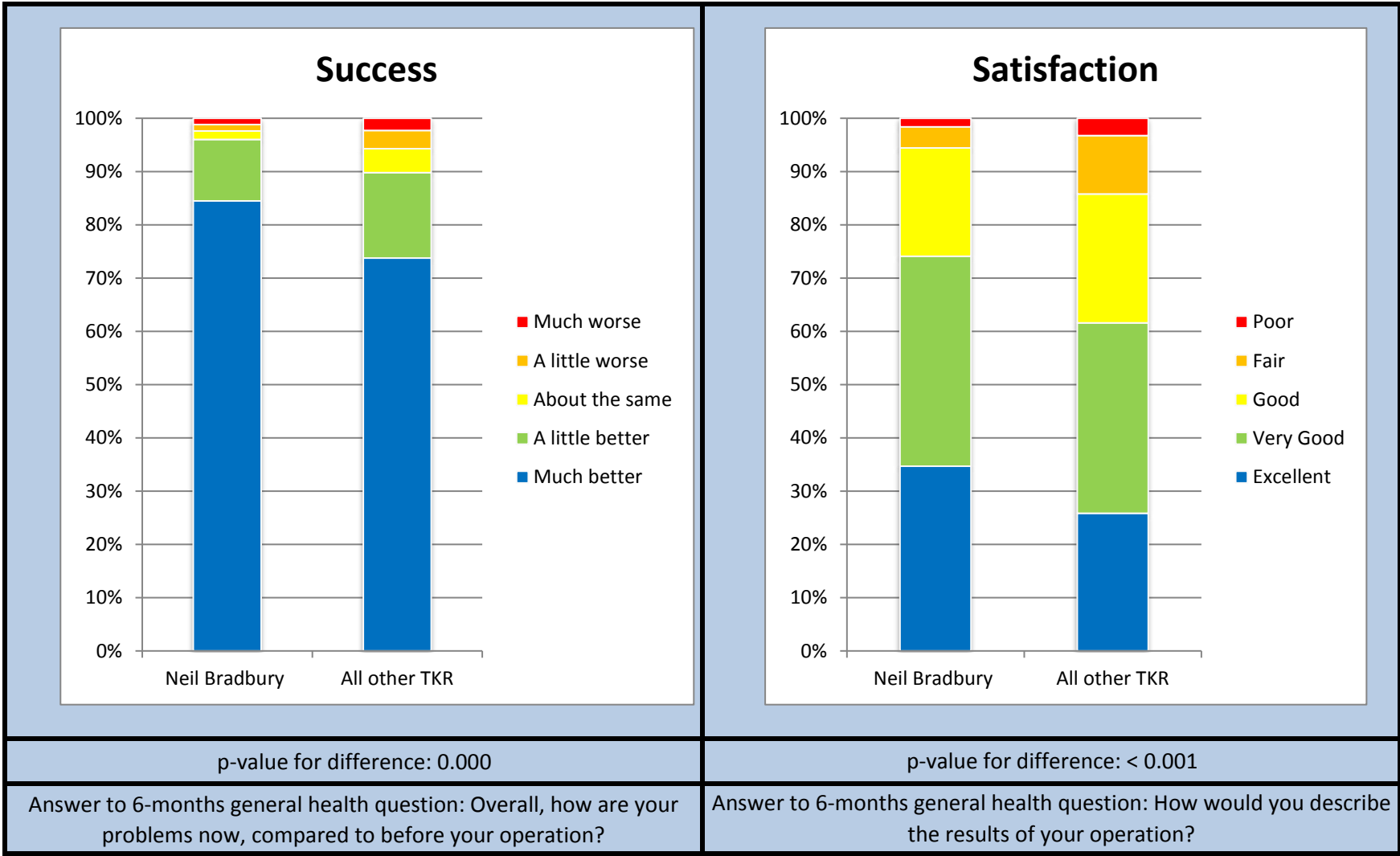
Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

PROMs Report for:

Responses are not case-mix adjusted

Neil Bradbury

Primary Bicondylar Knee Replacement



Primary Bicondylar Knee Replacement

Success and Satisfaction

Success	Neil Bradbury		All other TKR
	Number	Observed %	Expected %
Much better	212	84.5%	74.6%
A little better	29	11.6%	15.6%
About the same	4	1.6%	4.3%
A little worse	3	1.2%	3.3%
Much worse	3	1.2%	2.2%
Total	251	100.0%	100.0%

Answer to 6-months general health question:

"Overall, how are your problems now, compared to before your operation?"

Satisfaction	Neil Bradbury		All other TKR
	Number	Observed %	Expected %
Excellent	87	34.7%	26.5%
Very Good	99	39.4%	35.8%
Good	51	20.3%	23.9%
Fair	10	4.0%	10.7%
Poor	4	1.6%	3.2%
Total	251	100.0%	100.0%

Answer to 6-months general health question:

"How would you describe the results of your operation?"

Expected scores are calculated from the responses for all primary bicondylar knee replacement, adjusted for age, sex, pre-operative Oxford knee score, and pre-operative EQ-5D score.

Primary Unicondylar Knee Replacement

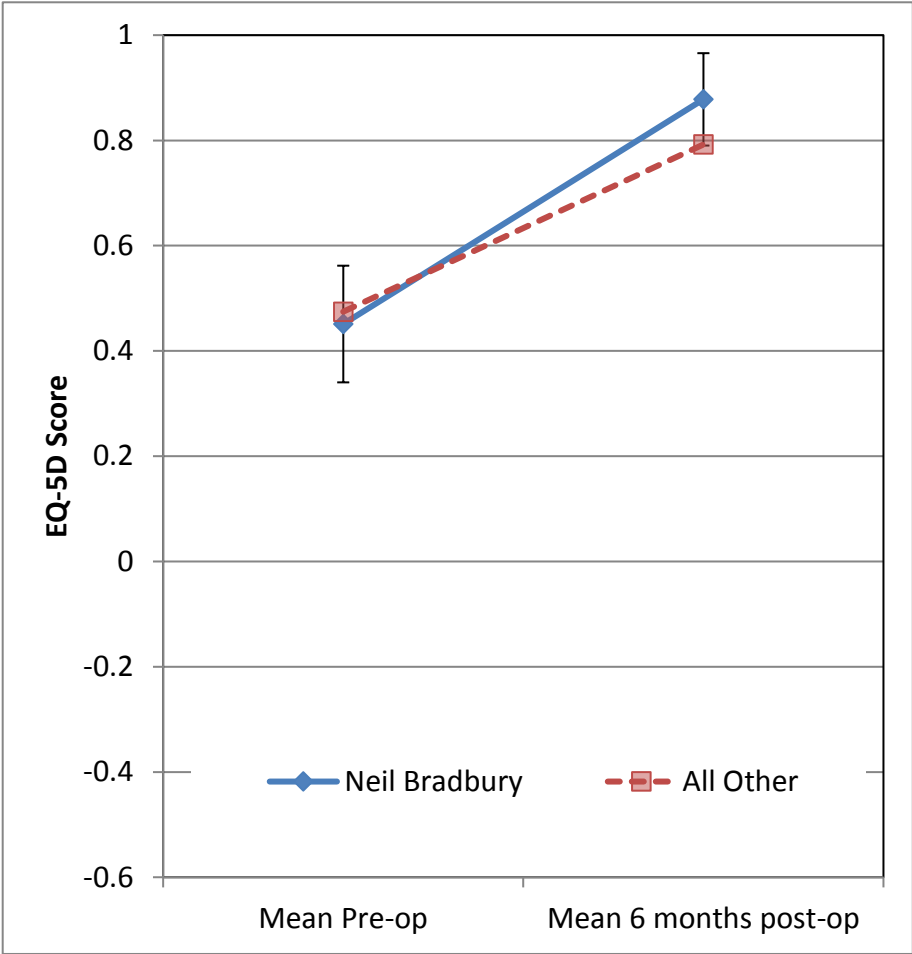
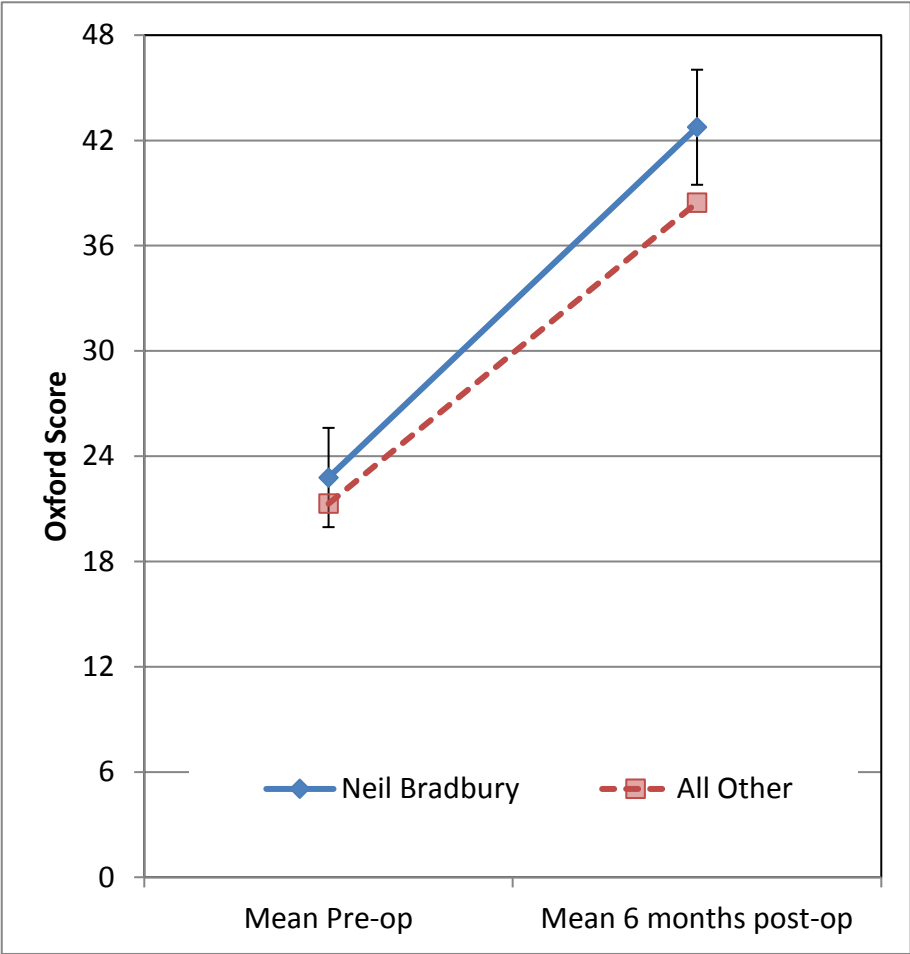
Patient Details

	Consultant UKR with paired PROMs	All other UKR in NJR with paired PROMs
Total Procedures	29	13,353
Total Patients	28	12,821
Demographics		
Mean age	68.1	65.7
< 50	0.0%	3.9%
50 – 59	20.7%	23.3%
60 – 69	34.5%	36.2%
70 – 79	41.4%	29.6%
≥ 80	3.4%	7.0%
Median BMI	27	30
% BMI information available	79.3%	82.6%
Underweight (BMI < 18.5)	0.0%	0.2%
Normal (18.5 ≤ BMI < 25)	30.4%	10.9%
Overweight (25 ≤ BMI < 30)	47.8%	38.3%
Obese I (30 ≤ BMI < 35)	17.4%	33.5%
Obese II (35 ≤ BMI < 40)	4.3%	13.0%
Obese III (BMI ≥ 40)	0.0%	4.1%
% Male	55.2%	53.5%
ASA Grades		
P1 - Fit and healthy	10.3%	14.5%
P2 - Mild disease not incapacitating	89.7%	74.9%
P3 - Incapacitating systemic disease	0.0%	10.5%
P4 / P5	0.0%	0.1%
Indications		
Osteoarthritis	100.00%	98.98%
Rheumatoid Arthritis	0.00%	0.03%
Other Inflammatory Arthropathy	0.00%	0.04%
Previous Trauma	0.00%	0.23%
Avascular Necrosis	0.00%	0.89%
Other	0.00%	0.28%

Total of indications may exceed total number of procedures, since more than one indication can be listed per case.

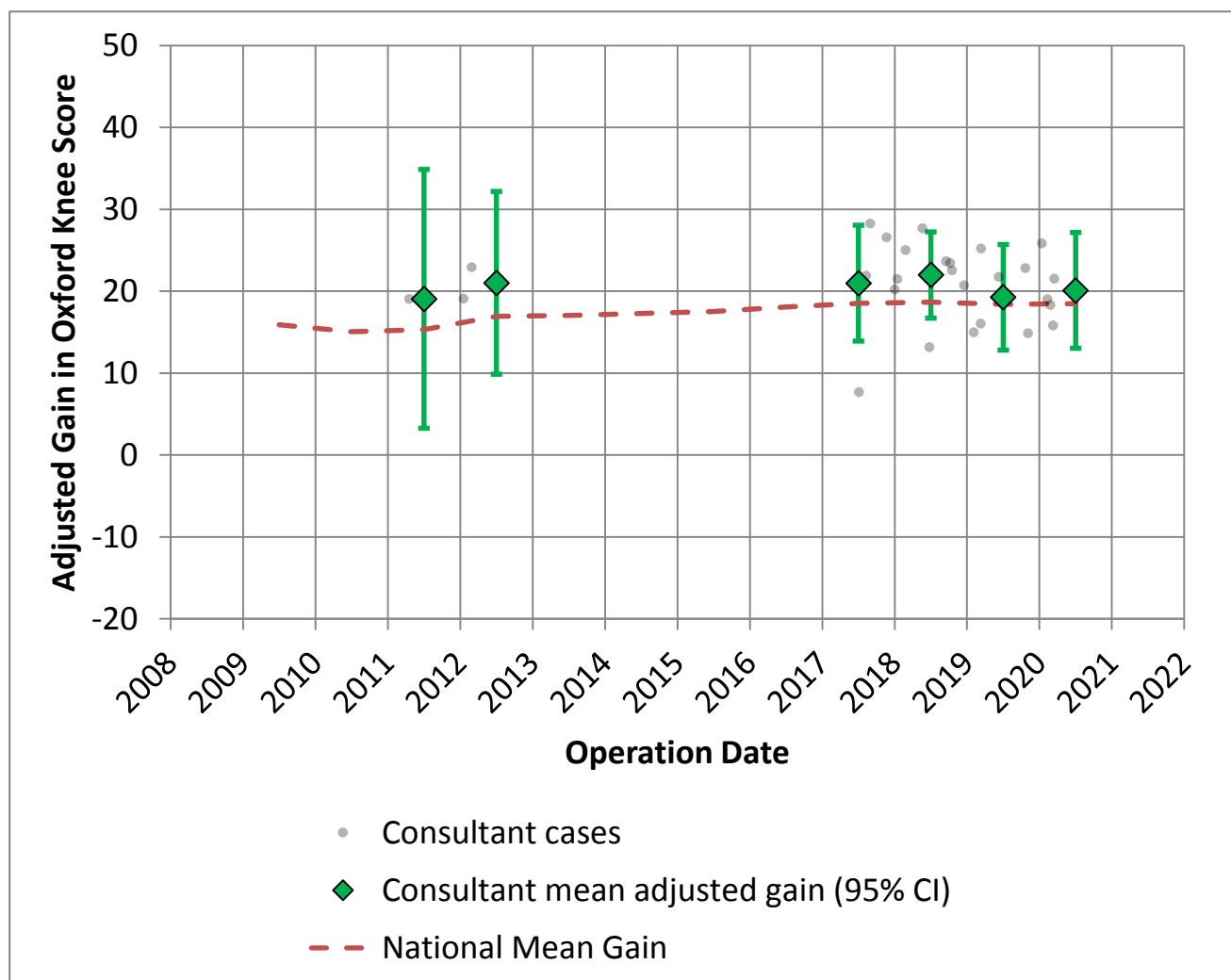
Primary Unicondylar Knee Replacement

PROMs Analysis



Primary Unicondylar Knee Replacement

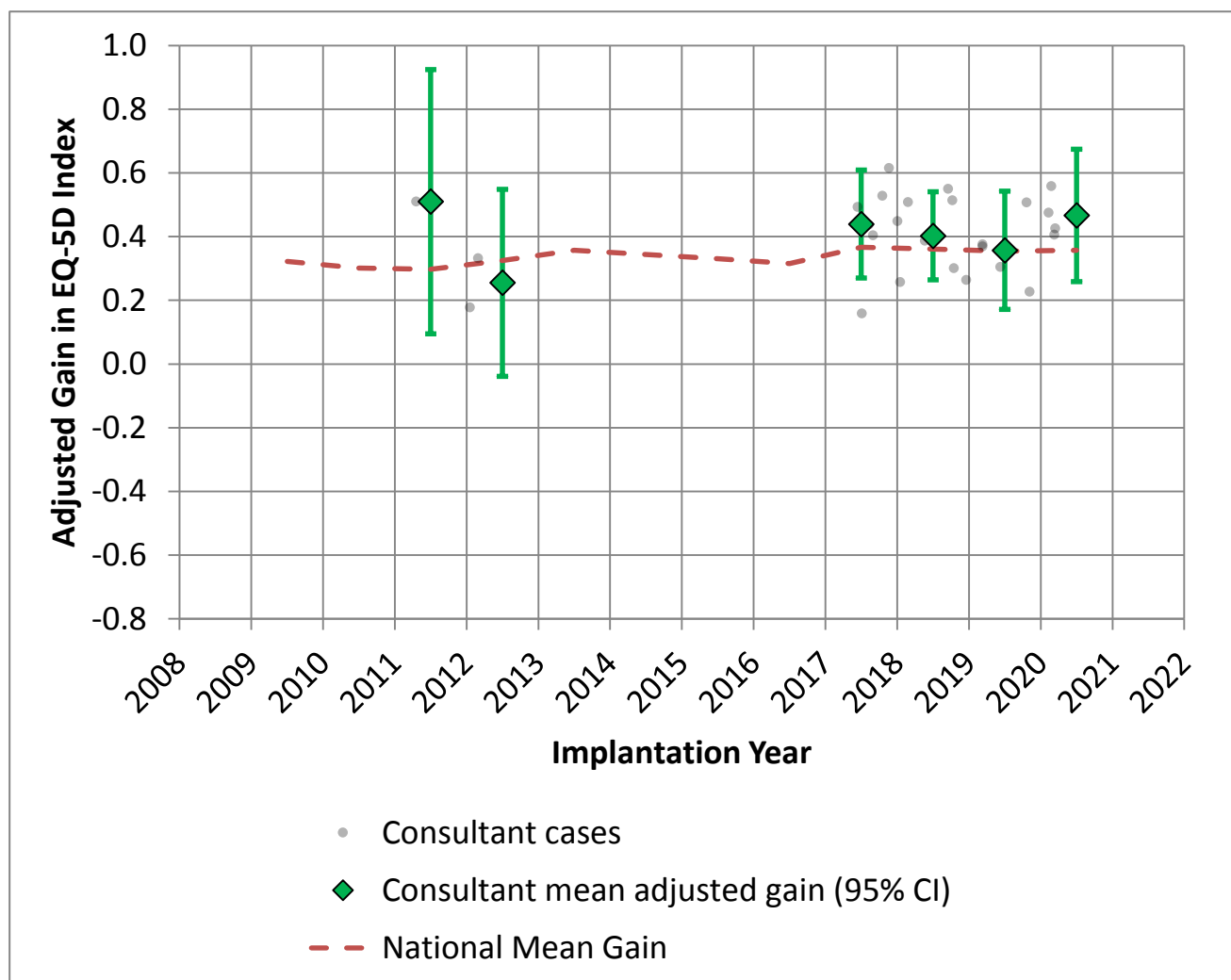
Oxford Knee Score



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Unicondylar Knee Replacement

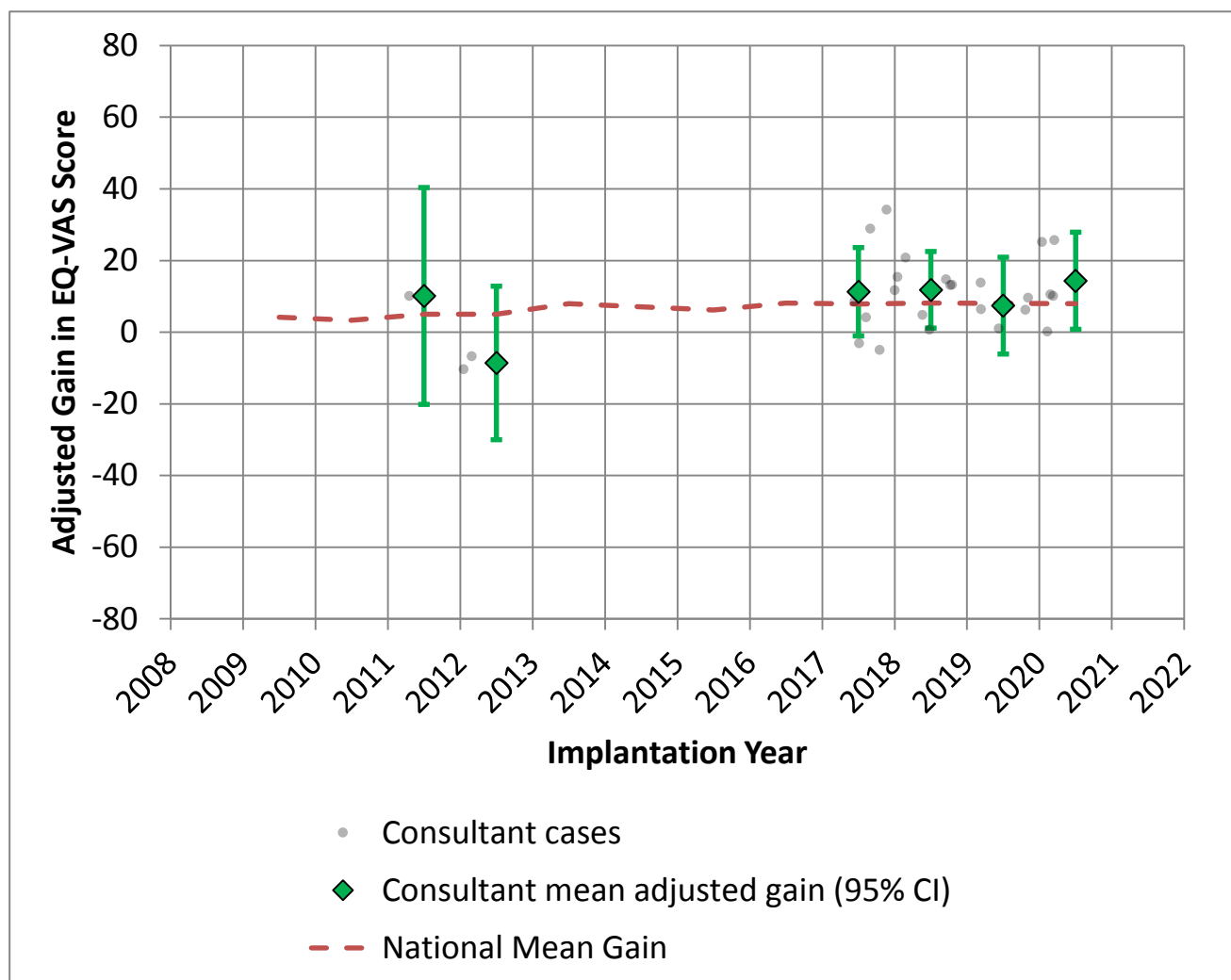
EQ-5D Index



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Unicondylar Knee Replacement

EQ-VAS



The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Unicondylar Knee Replacement

PROMs Analysis

Oxford Knee Score (0 - 48)	Neil Bradbury	All other Uni Knees
Paired Records	28	12,957
PreOp score	22.8 (20.0 - 25.6)	21.3 (21.2 - 21.4)
6 month score	42.8 (39.5 - 46.0)	38.5 (38.3 - 38.6)
Health gain	20.0 (16.4 - 23.5)	17.2 (17.0 - 17.3)
Health gain (adjusted)	20.7 (17.7 - 23.7)	18.2 (18.0 - 18.3)
Difference in adjusted gain *	-0.4 to 5.6	
% Score Improved	100.0%	94.9%
% Adjusted gain > 0	100.0%	96.4%
p value % adjusted gain > 0	0.63	

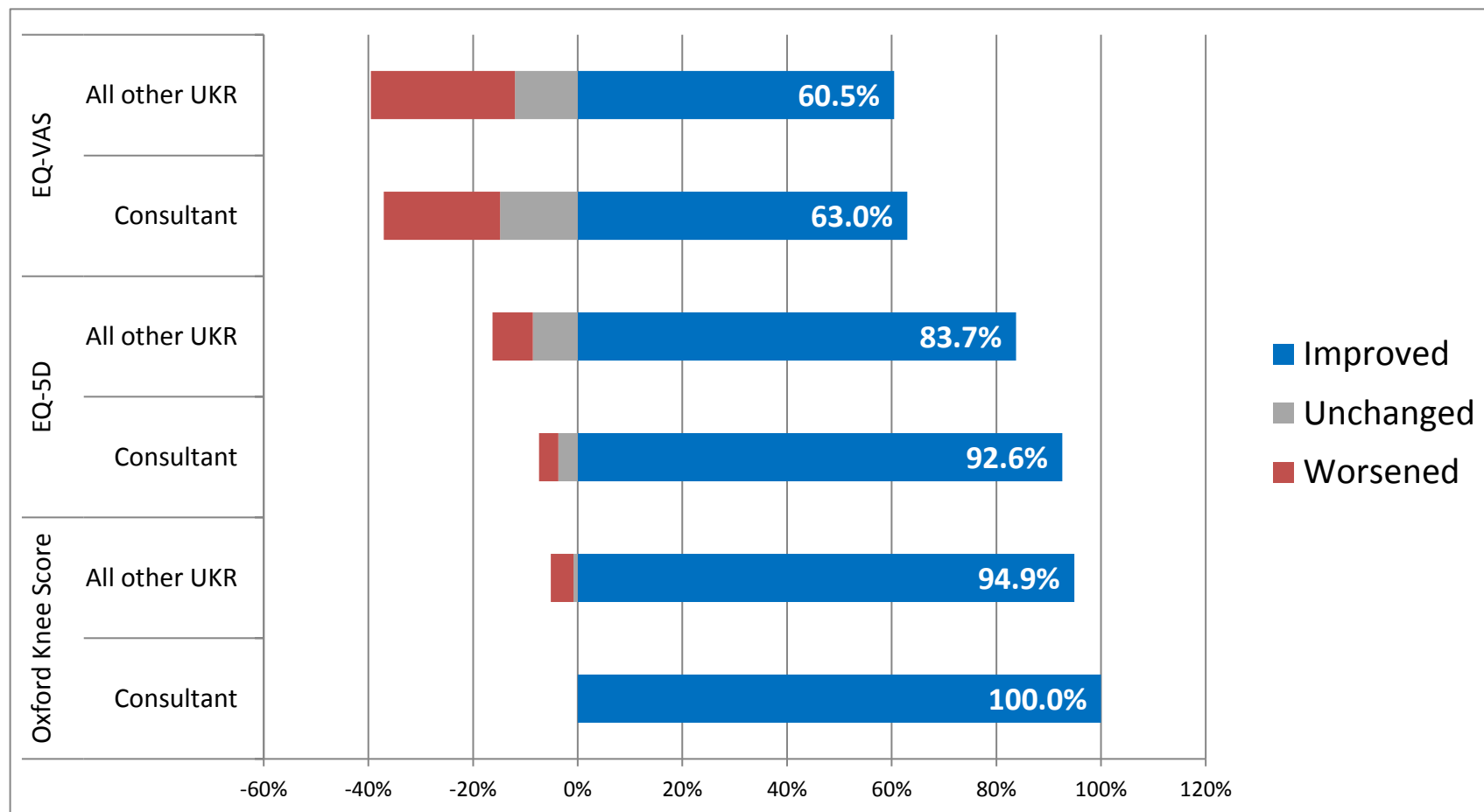
EQ-5D Index (-0.59 - 1.00)	Neil Bradbury	All other Uni Knees
Paired Records	27	12,239
PreOp score	0.451 (0.340 - 0.562)	0.475 (0.469 - 0.480)
6 month score	0.878 (0.790 - 0.966)	0.792 (0.788 - 0.796)
Health gain	0.427 (0.308 - 0.545)	0.318 (0.312 - 0.323)
Health gain (adjusted)	0.405 (0.325 - 0.485)	0.353 (0.349 - 0.357)
Difference in adjusted gain *	-0.028 to 0.132	
% Score Improved	92.6%	83.7%
% Adjusted gain > 0	100.0%	94.5%
p value % adjusted gain > 0	0.4	

EQ-VAS (0 - 100)	Neil Bradbury	All other Uni Knees
Paired Records	27	11,961
PreOp score	69.8 (62.2 - 77.3)	69.4 (69.0 - 69.8)
6 month score	81.8 (75.2 - 88.3)	77.5 (77.2 - 77.8)
Health gain	12.0 (4.0 - 20.0)	8.1 (7.7 - 8.5)
Health gain (adjusted)	9.8 (3.9 - 15.6)	7.6 (7.3 - 7.9)
Difference in adjusted gain *	-3.7 to 8.0	
% Score Improved	63.0%	60.5%
% Adjusted gain > 0	85.2%	76.5%
p value % adjusted gain > 0	0.37	

Adjusted scores correspond to the NHS Digital version 3 casemix-adjustment model. See methodology page for details. Figures in brackets correspond to 95% confidence intervals. * 95% confidence interval for the mean adjusted gain for the consultant, minus the national average adjusted gain.

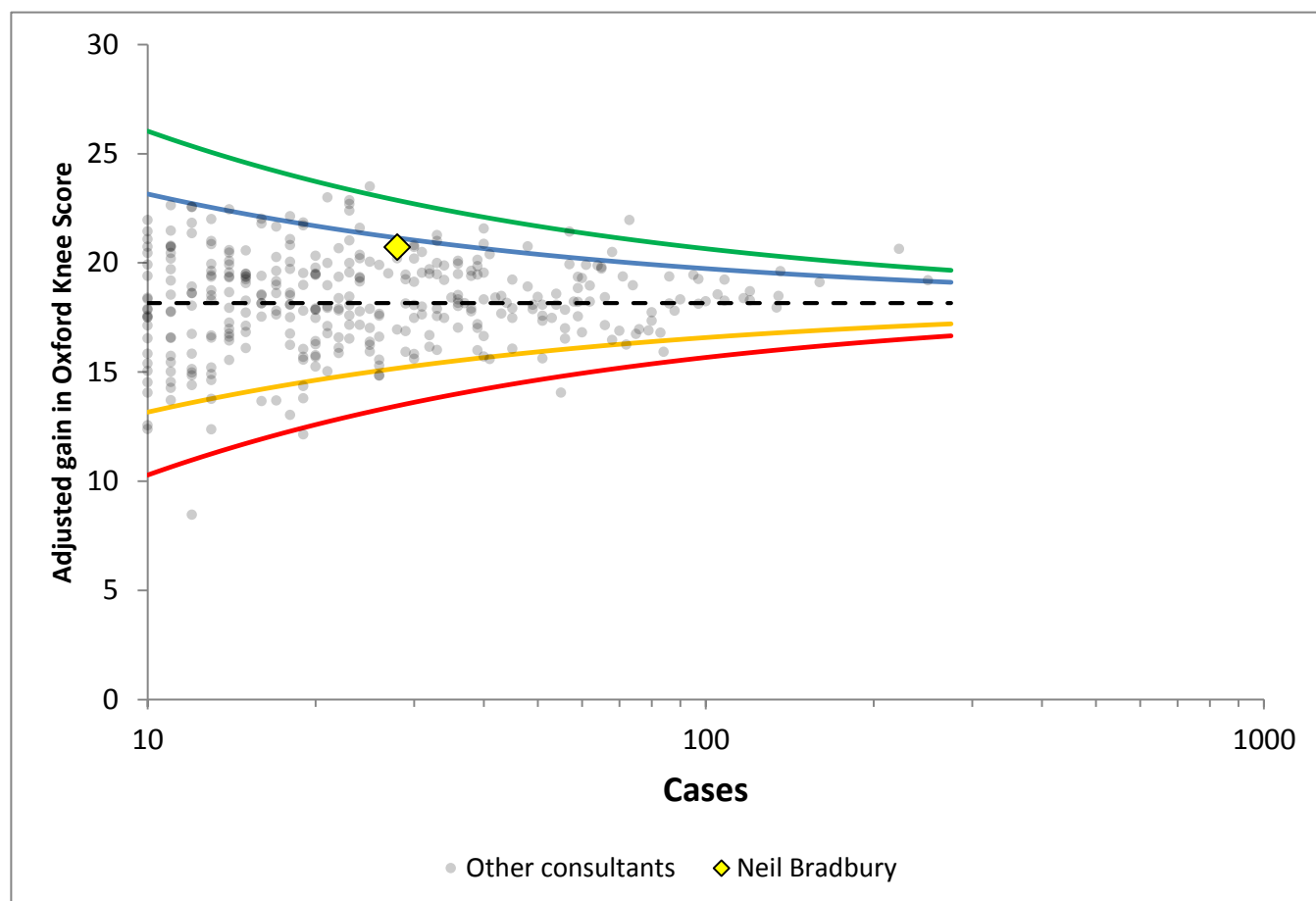
Primary Unicondylar Knee Replacement

PROMs Analysis



Primary Unicondylar Knee Replacement

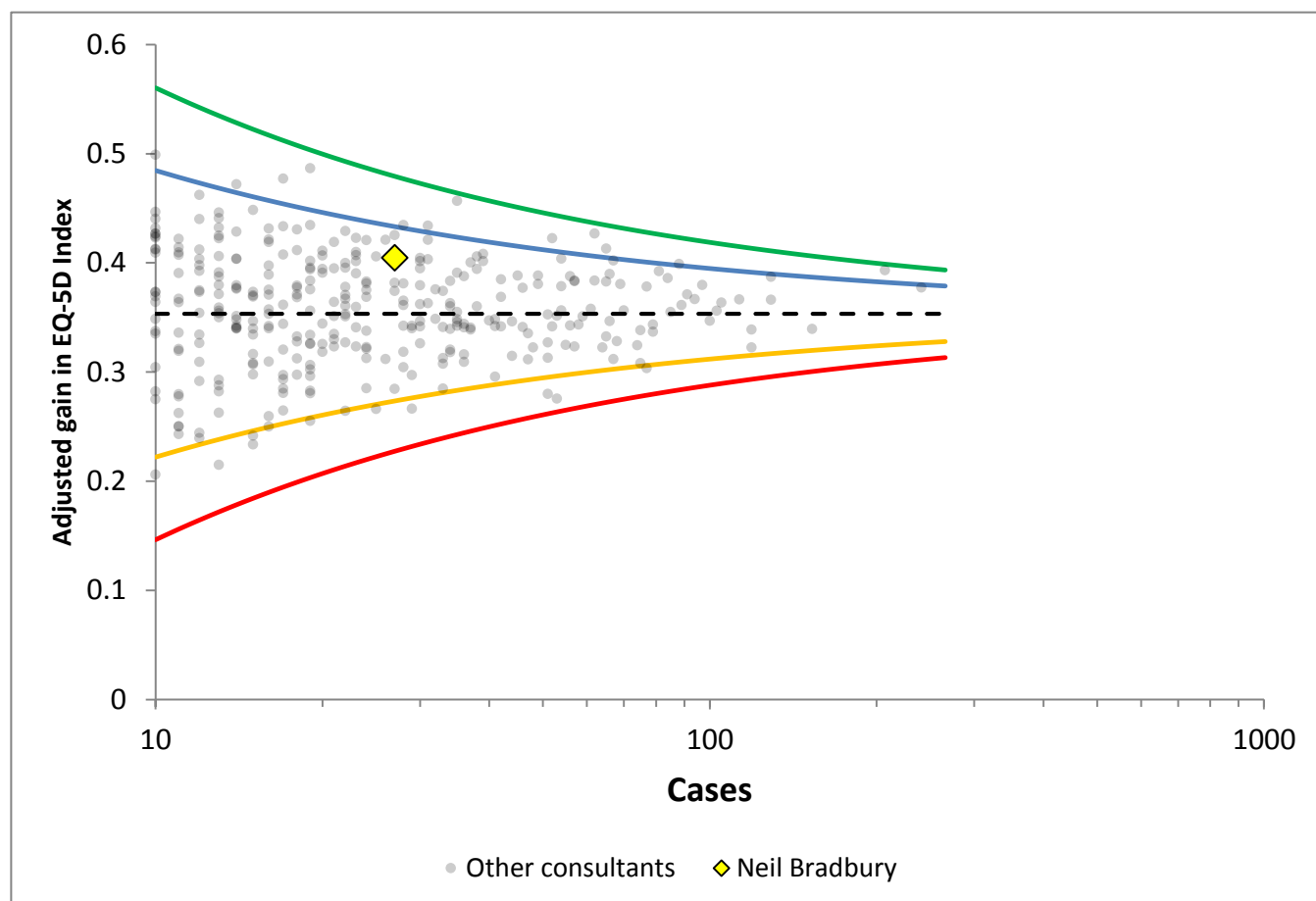
Oxford Knee Score



Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

Primary Unicondylar Knee Replacement

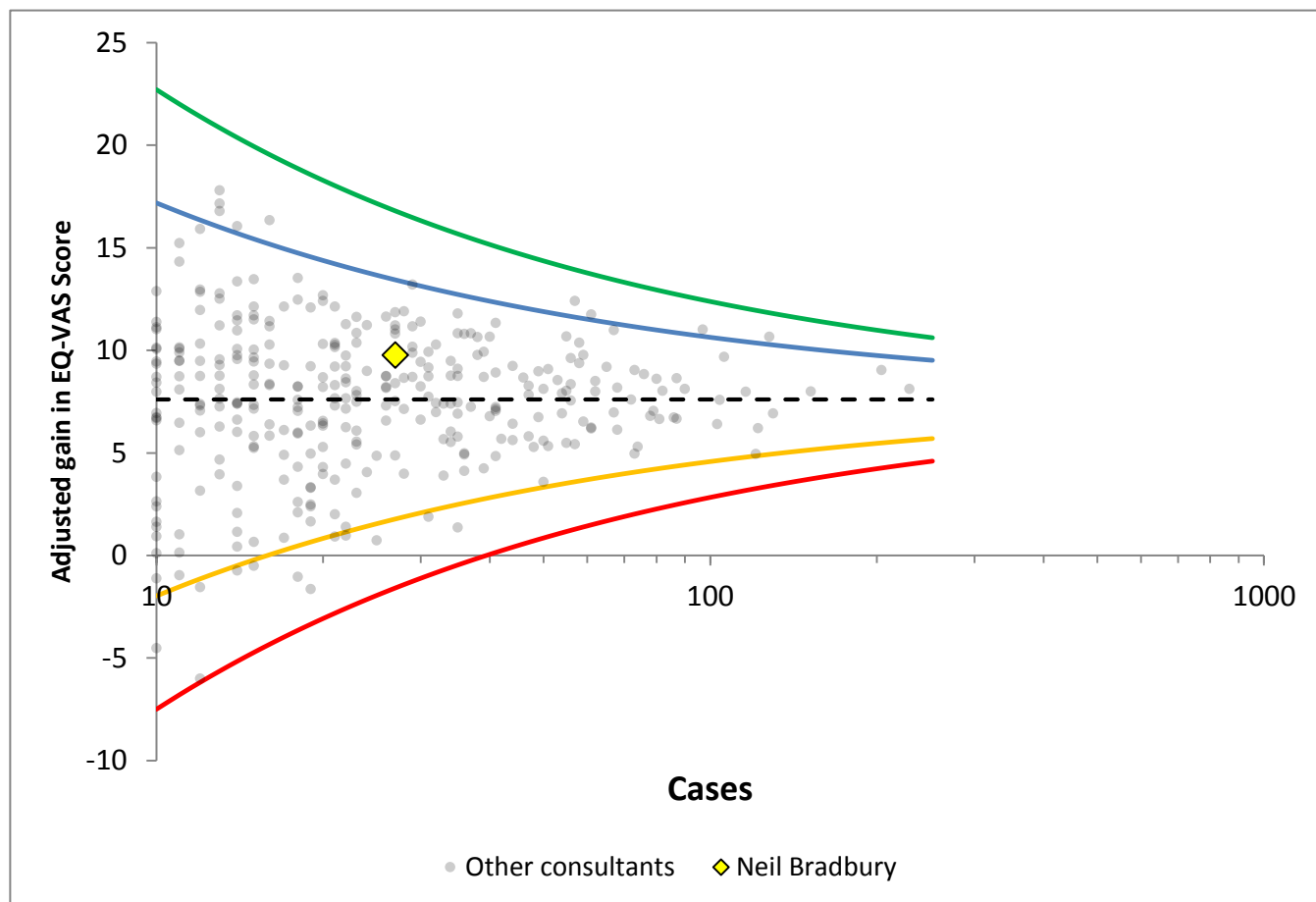
EQ-5D Index



Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

Primary Unicondylar Knee Replacement

EQ-VAS



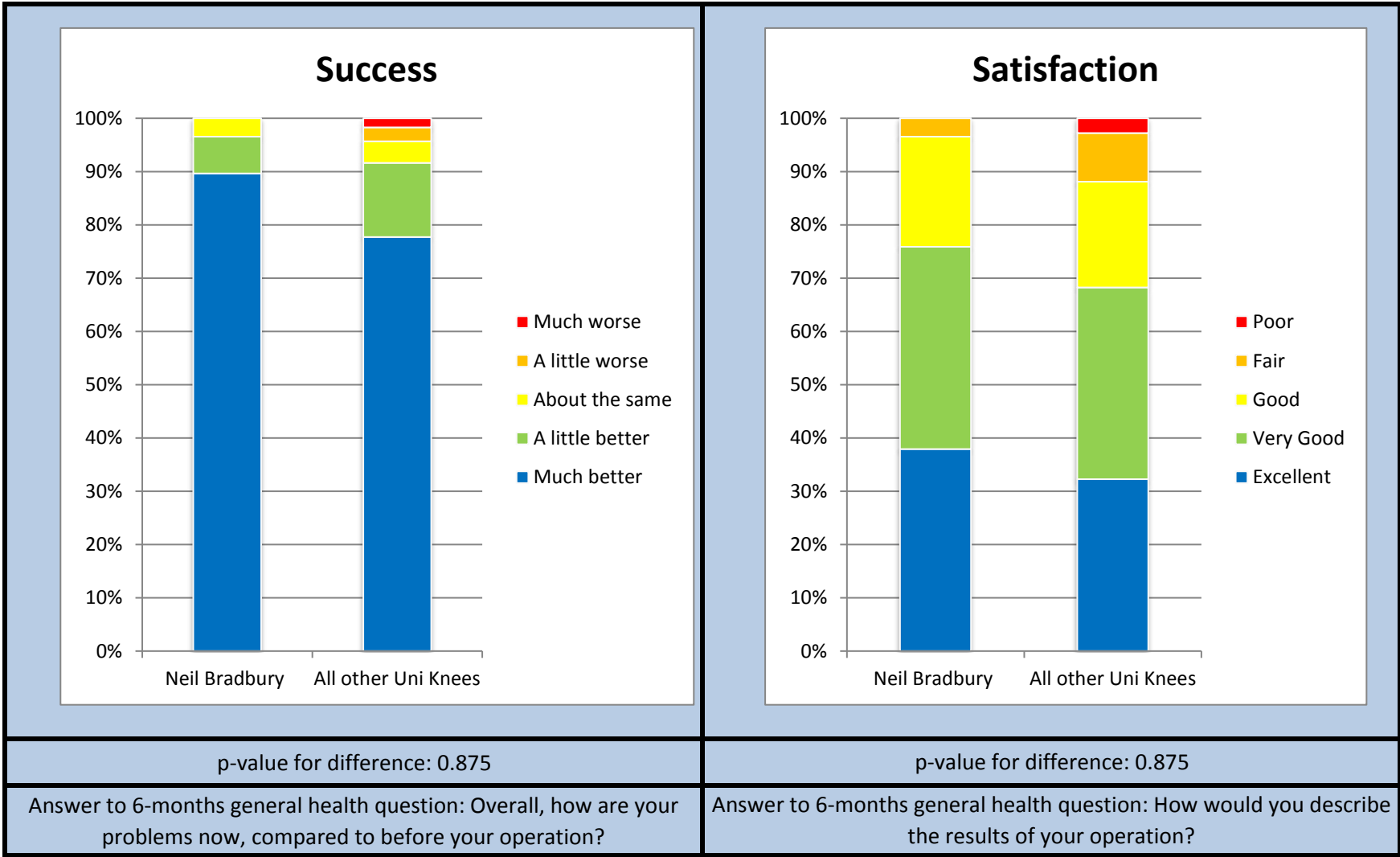
Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

PROMs Report for:

Responses are not case mix adjusted

Neil Bradbury

Primary Unicondylar Knee Replacement



Primary Unicondylar Knee Replacement

Success and Satisfaction

Success	Neil Bradbury		All other UKR
	Number	Observed %	Expected %
Much better	26	89.7%	73.8%
A little better	2	6.9%	16.0%
About the same	1	3.4%	4.5%
A little worse	0	0.0%	3.4%
Much worse	0	0.0%	2.3%
Total	29	100.0%	100.0%

Answer to 6-months general health question:

"Overall, how are your problems now, compared to before your operation?"

Satisfaction	Neil Bradbury		All other UKR
	Number	Observed %	Expected %
Excellent	11	37.9%	26.7%
Very Good	11	37.9%	35.9%
Good	6	20.7%	23.7%
Fair	1	3.4%	10.6%
Poor	0	0.0%	3.1%
Total	29	100.0%	100.0%

Answer to 6-months general health question:

"How would you describe the results of your operation?"

Expected scores are calculated from the responses for all primary Unicondylar knee replacement, adjusted for age, sex, pre-operative Oxford knee score, and pre-operative EQ-5D score.

Methodology

Adjustment

Adjusted gain in score is taken from the NHS Digital version 3 casemix-adjustment model, which is used in publications of Trust level PROMs scores. Variables considered for inclusion in the adjustment model are taken from the PROMs dataset, HES, and Index of Multiple Deprivation. These include pre-operative score, age, sex, ethnicity, deprivation index, comorbidities, symptom period and diagnosis. Details of the adjustment methodology can be found on the NHS Digital website in the document: <https://www.england.nhs.uk/statistics/wp-content/uploads/sites/2/2013/10/proms-meth-prim-revis.pdf>

Expected proportions of Success and Satisfaction scores have been calculated using proportional odds logistic regression to adjust for patient age, gender, and pre-operative Oxford score and EQ-5D score.

Disclaimer

Disclaimer

The National Joint Registry (NJR) produces this service using data collected, collated and provided by third parties. As a result of this the NJR takes no responsibility for the accuracy, currency, reliability and correctness of any data used or referred to in this service, nor for the accuracy, currency, reliability and correctness of links or references to other information sources and disclaims all warranties in relation to such data, links and references to the maximum extent permitted by legislation.

The NJR shall have no liability (including but not limited to liability by reason of negligence) for any loss, damage, cost or expense incurred or arising by reason of any person using or relying on the data within this service and whether caused by reason of any error, omission or misrepresentation in the presentation of data or otherwise. Presentations of data are not to be taken as advice. Third parties using or relying on the data in this service do so at their own risk and will be responsible for making their own assessment and should verify all relevant representations, statements and information with their own professional advisers.