National Joint Registry
www.njrcentre.org.uk

PROMs report for: Kevin Conn

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

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 Kevin Conn , who is free to share this report as required.

PROMs Report for: **Kevin Conn**

PROMs records by Hospital

Hospital	Bicondylar Knees	Unicondylar Knees	Total Hips
Basingstoke and North Hampshire Hospital	113 (229)	39 (137)	223 (475)
BMI Hampshire Clinic	14 (60)	12 (40)	33 (204)
Royal Hampshire County Hospital	0 (1)	0 (4)	0 (4)
Total	**127 (290)**	**51 (181)**	**256 (683)**

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.

PROMs Report for: **Kevin Conn**
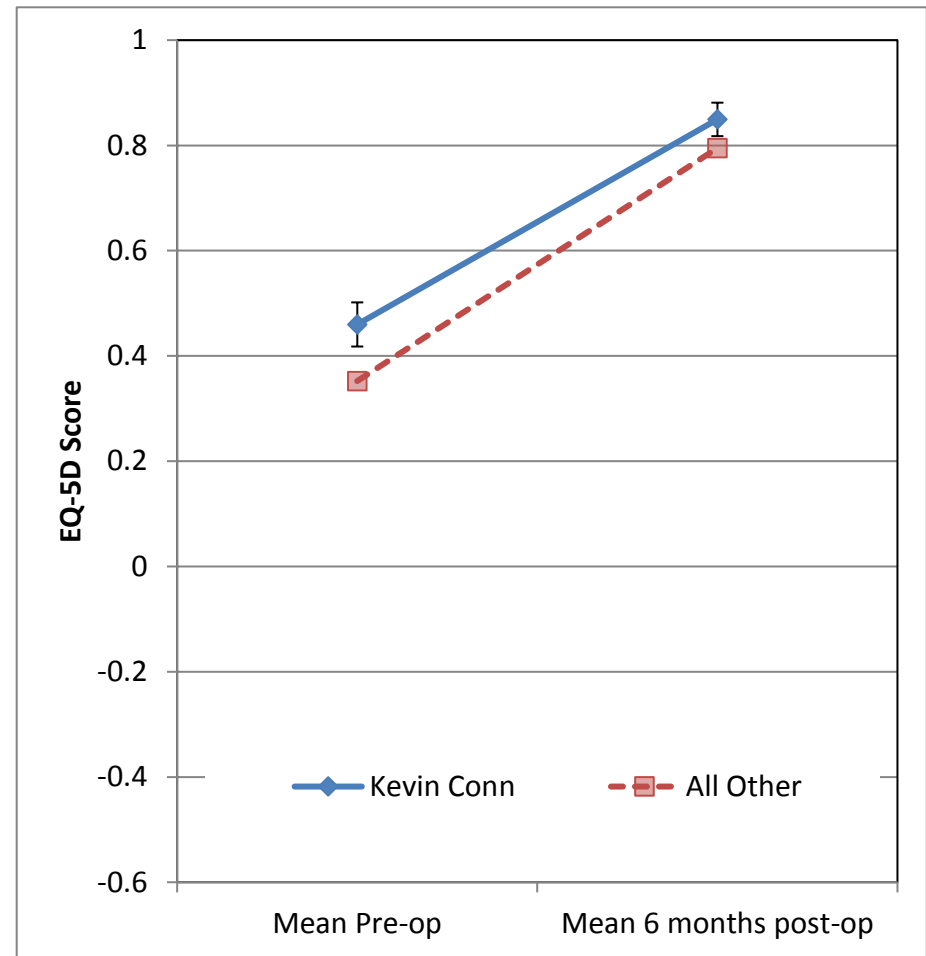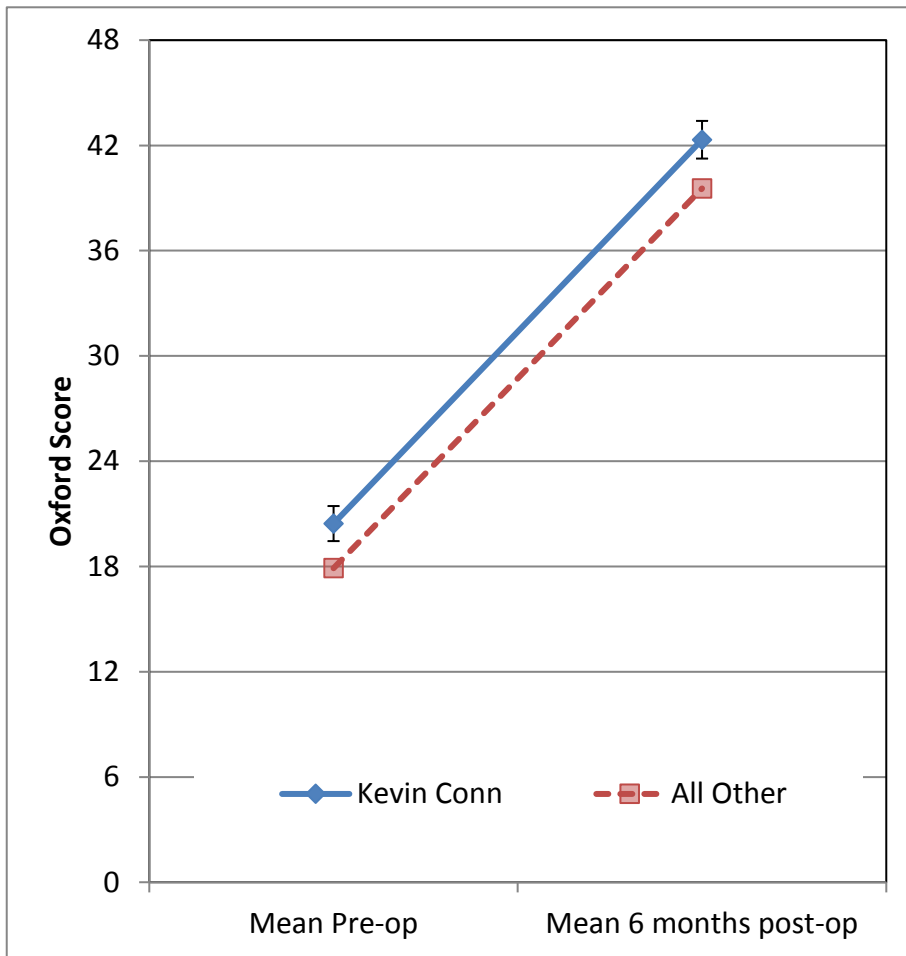
Primary Total Hip Replacement

Patient Details

	Consultant THR with paired PROMs	All other THR in NJR with paired PROMs
Total Procedures	256	324,431
Total Patients	230	300,665
Demographics		
Mean age	**70.9**	**69.2**
< 50	3.5%	4.2%
50 – 59	10.5%	12.4%
60 – 69	26.2%	30.7%
70 – 79	39.5%	37.2%
≥ 80	20.3%	15.5%
Median BMI	**27**	**28**
% BMI information available	55.5%	76.5%
Underweight (BMI < 18.5)	2.1%	0.7%
Normal (18.5 ≤ BMI < 25)	26.8%	19.2%
Overweight (25 ≤ BMI < 30)	43.0%	40.5%
Obese I (30 ≤ BMI < 35)	19.7%	26.7%
Obese II (35 ≤ BMI < 40)	7.0%	9.9%
Obese III (BMI ≥ 40)	1.4%	3.0%
% Male	42.6%	40.1%
ASA Grades		
P1 - Fit and healthy	6.6%	13.1%
P2 - Mild disease not incapacitating	89.8%	71.3%
P3 - Incapacitating systemic disease	3.5%	15.3%
P4 / P5	0.0%	0.3%
Indications		
Osteoarthritis	99.61%	96.29%
Rheumatoid Arthritis	0.00%	1.29%
Avascular Necrosis	0.00%	1.85%
Fractured Neck of Femur	0.00%	0.10%
CDH/DDH	0.00%	1.44%
Other	0.39%	1.10%

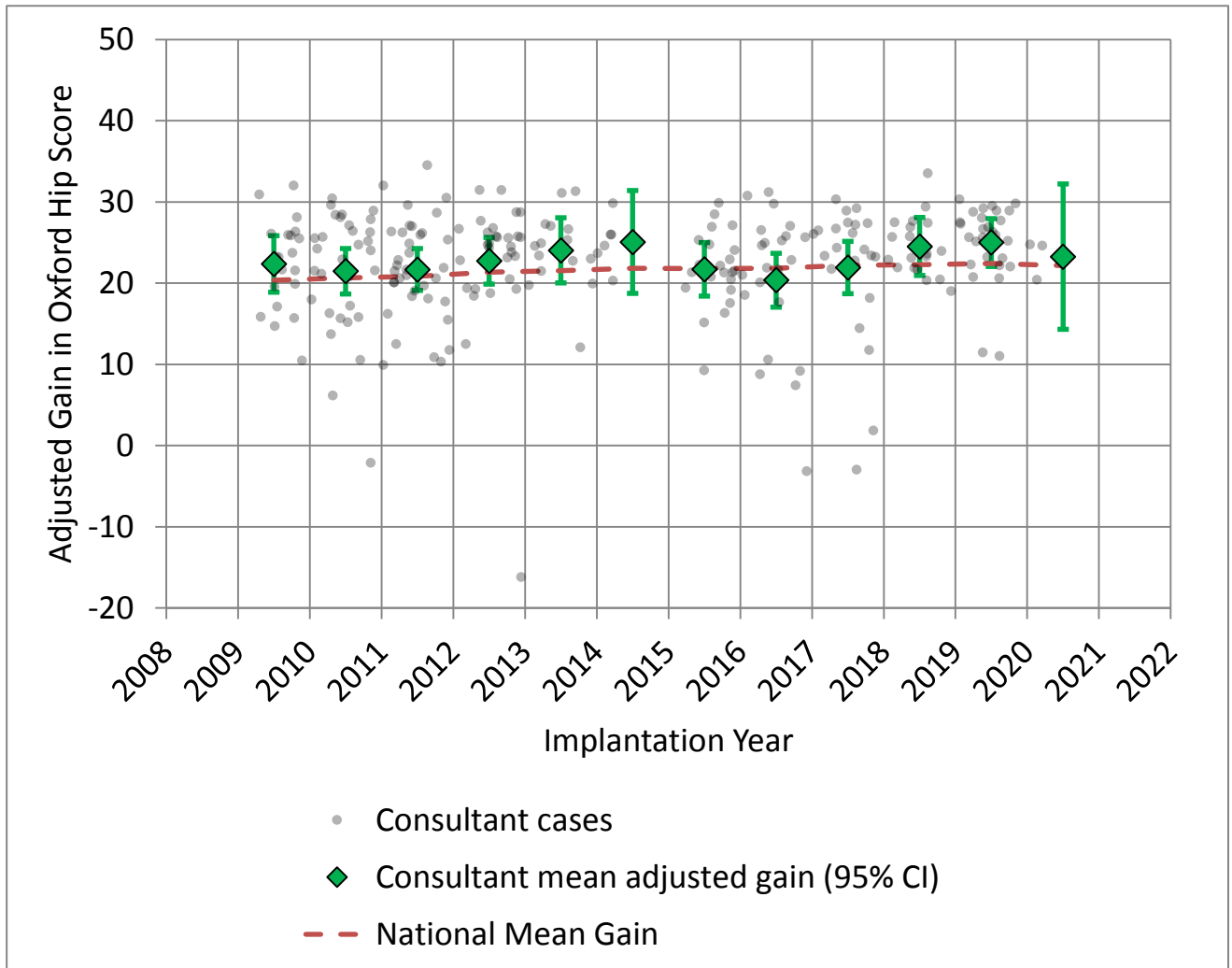Total of indications may exceed total number of procedures, since more than one indication can be listed per case.

Primary Total Hip Replacement

PROMs Analysis

Primary Total Hip Replacement

Oxford Hip Score

Consultant cases

Consultant mean adjusted gain (95% CI)

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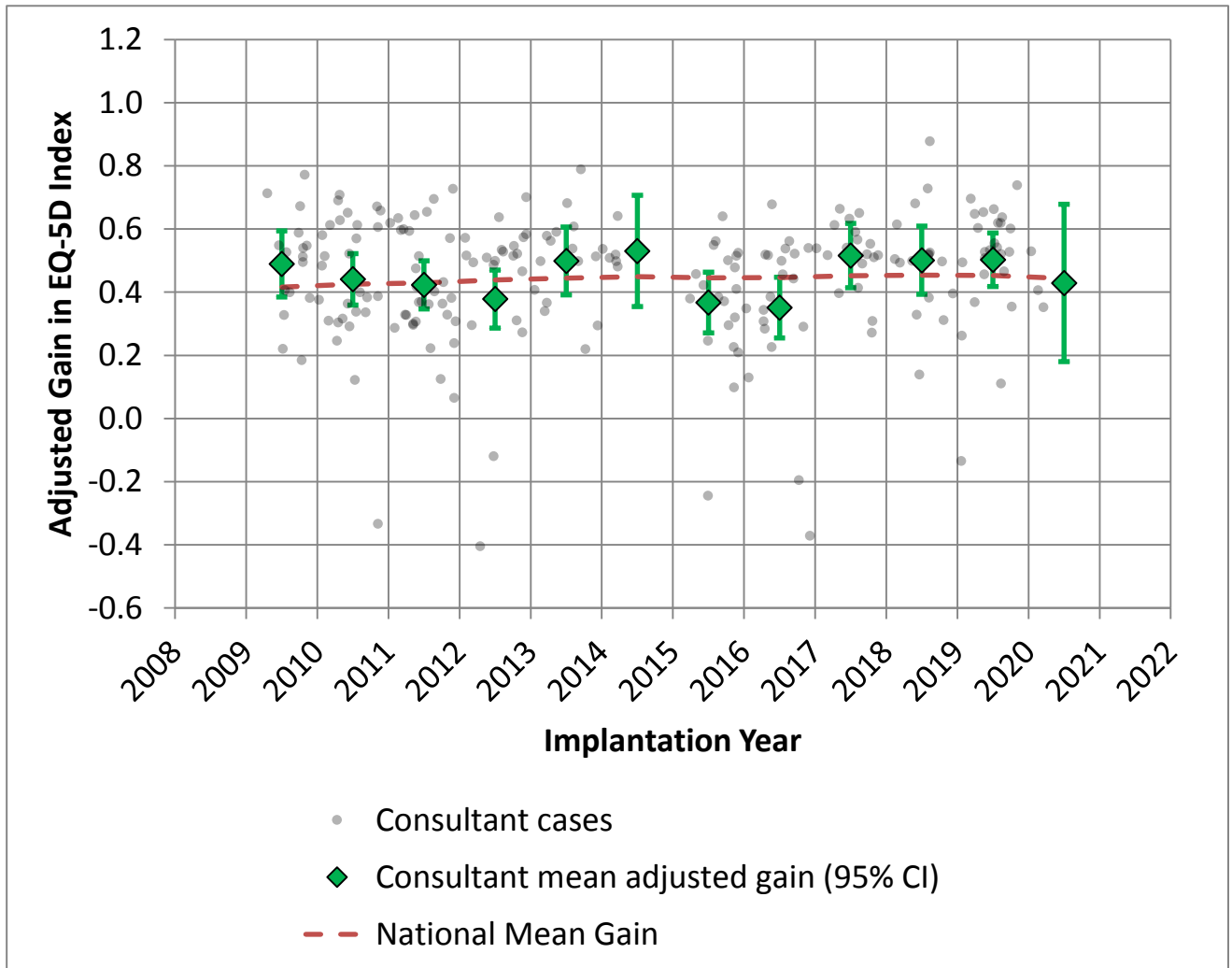
The dashed red line representing national mean gain shows the mean adjusted gain in PROMs score for each implantation year. This is based on all procedures with an NHS PROMs score linked to an NJR record, and can vary from year to year.

Primary Total Hip Replacement

EQ-5D Index

Legend:
- · Consultant cases
- ◆ Consultant mean adjusted gain (95% CI)
- – – National Mean Gain

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.
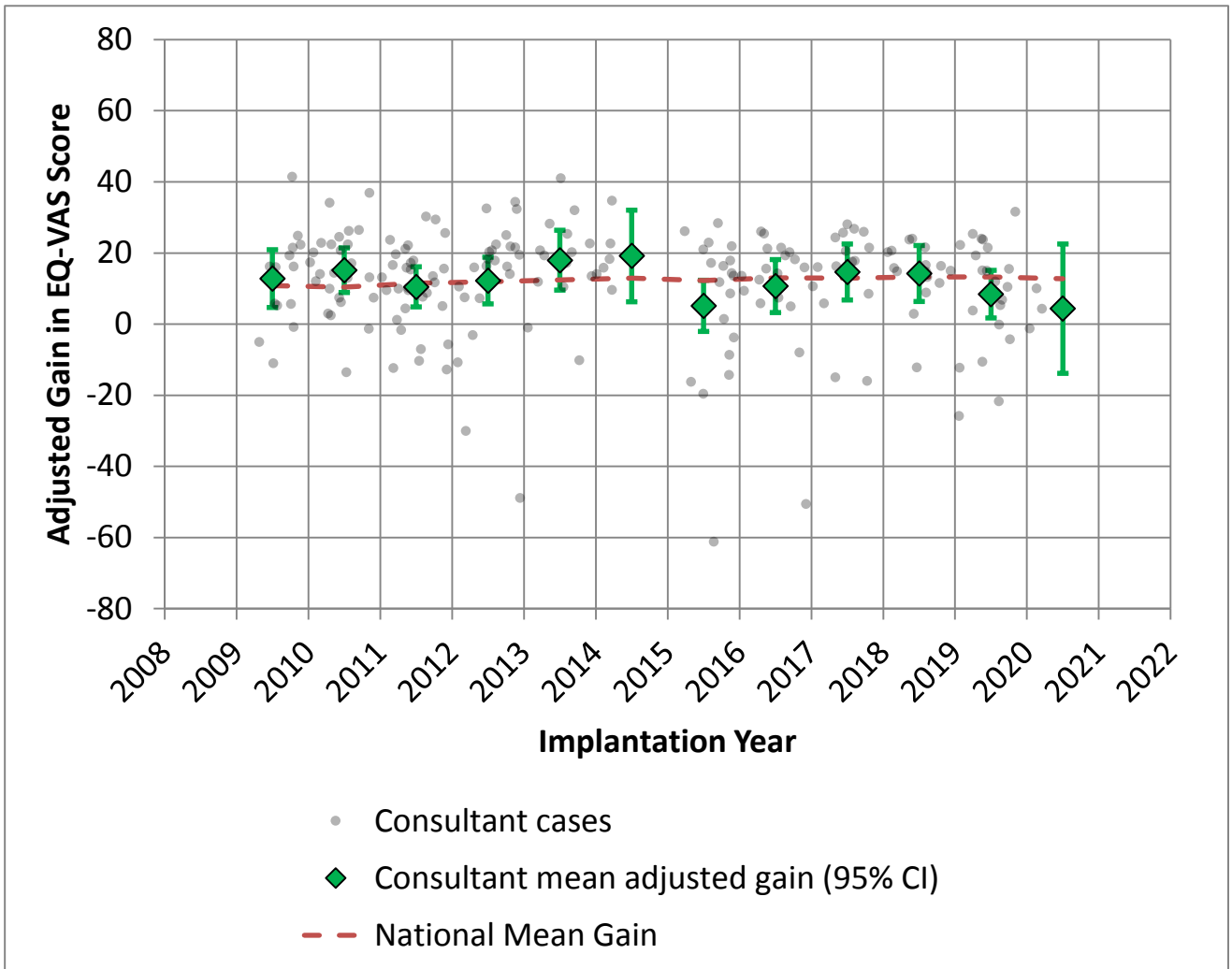
Primary Total Hip Replacement

EQ-VAS

Legend:
- • Consultant cases
- ◆ Consultant mean adjusted gain (95% CI)
- – – National Mean Gain

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.

PROMs Report for: **Kevin Conn**

Primary Total Hip Replacement

PROMs Analysis

Oxford Hip Score (0 - 48)	Kevin Conn	All other THR
Paired Records	254	314,111
PreOp score	20.4 (19.4 - 21.4)	17.9 (17.9 - 17.9)
6 month score	42.3 (41.2 - 43.4)	39.5 (39.5 - 39.6)
Health gain	21.9 (20.7 - 23.1)	21.6 (21.6 - 21.7)
Health gain (adjusted)	22.6 (21.6 - 23.5)	21.6 (21.6 - 21.7)
Difference in adjusted gain *	-0.1 to 1.9	
% Score Improved	98.4%	97.3%
% Adjusted gain > 0	98.4%	98.0%
p value % adjusted gain > 0	1	

EQ-5D Index (-0.59 - 1.00)	Kevin Conn	All other THR
Paired Records	224	289,501
PreOp score	0.460 (0.418 - 0.502)	0.352 (0.351 - 0.353)
6 month score	0.849 (0.818 - 0.881)	0.795 (0.794 - 0.796)
Health gain	0.390 (0.345 - 0.434)	0.443 (0.441 - 0.444)
Health gain (adjusted)	0.445 (0.416 - 0.474)	0.443 (0.442 - 0.443)
Difference in adjusted gain *	-0.026 to 0.032	
% Score Improved	89.3%	89.7%
% Adjusted gain > 0	96.4%	95.1%
p value % adjusted gain > 0	0.44	

EQ-VAS (0 - 100)	Kevin Conn	All other THR
Paired Records	208	278,872
PreOp score	70.7 (67.8 - 73.7)	64.6 (64.6 - 64.7)
6 month score	80.7 (78.2 - 83.1)	77.0 (76.9 - 77.1)
Health gain	9.9 (6.8 - 13.1)	12.4 (12.3 - 12.4)
Health gain (adjusted)	12.0 (9.8 - 14.2)	12.3 (12.3 - 12.4)
Difference in adjusted gain *	-2.5 to 1.8	
% Score Improved	69.7%	66.6%
% Adjusted gain > 0	83.2%	82.2%
p value % adjusted gain > 0	0.79	

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.
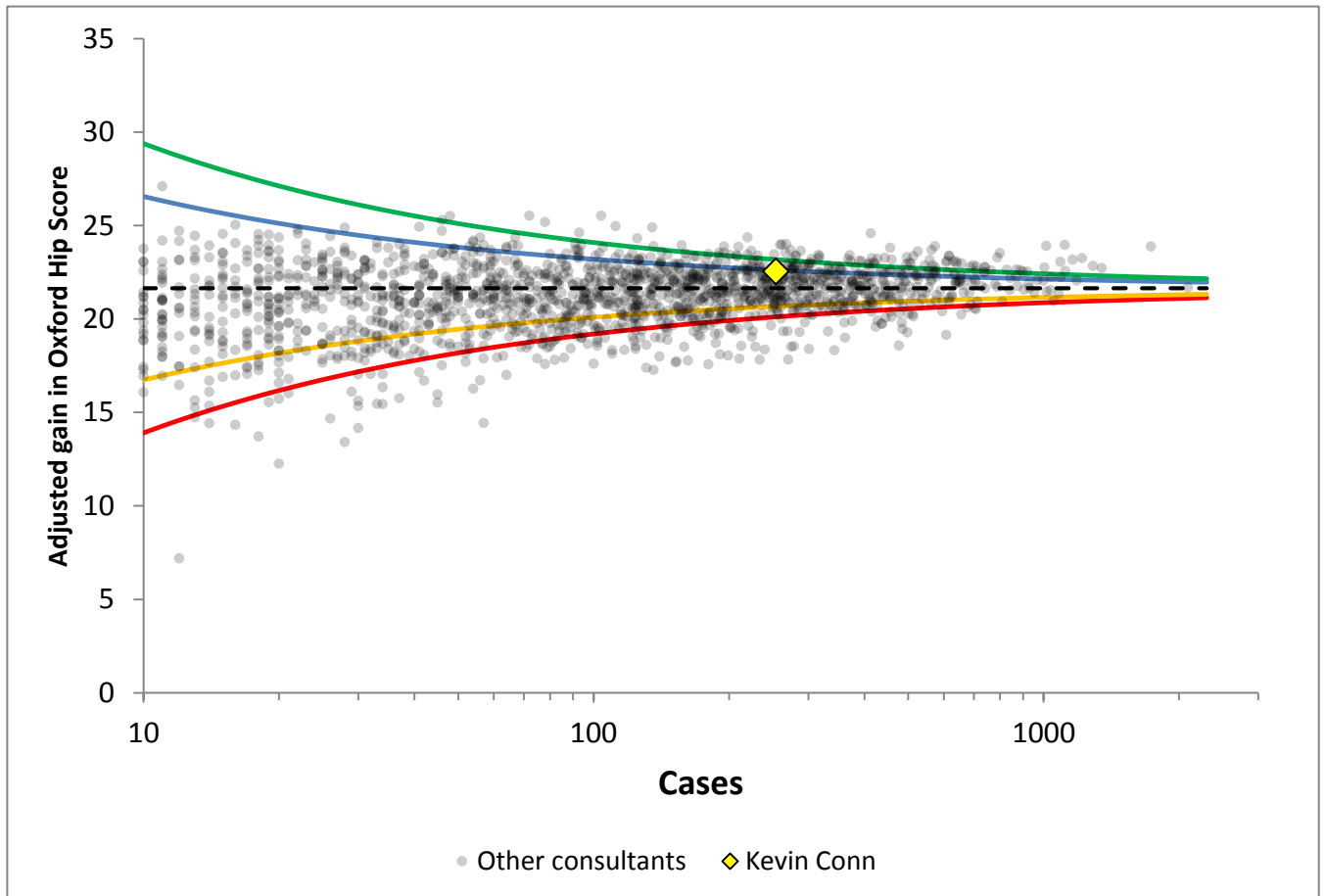
PROMs Report for: **Kevin Conn**

Primary Total Hip Replacement

PROMs Analysis

	Improved	Unchanged	Worsened

EQ-VAS
- All other THR: 66.6%
- Consultant: 69.7%

EQ-5D
- All other THR: 89.7%
- Consultant: 89.3%

Oxford Hip Score
- All other THR: 97.3%
- Consultant: 98.4%
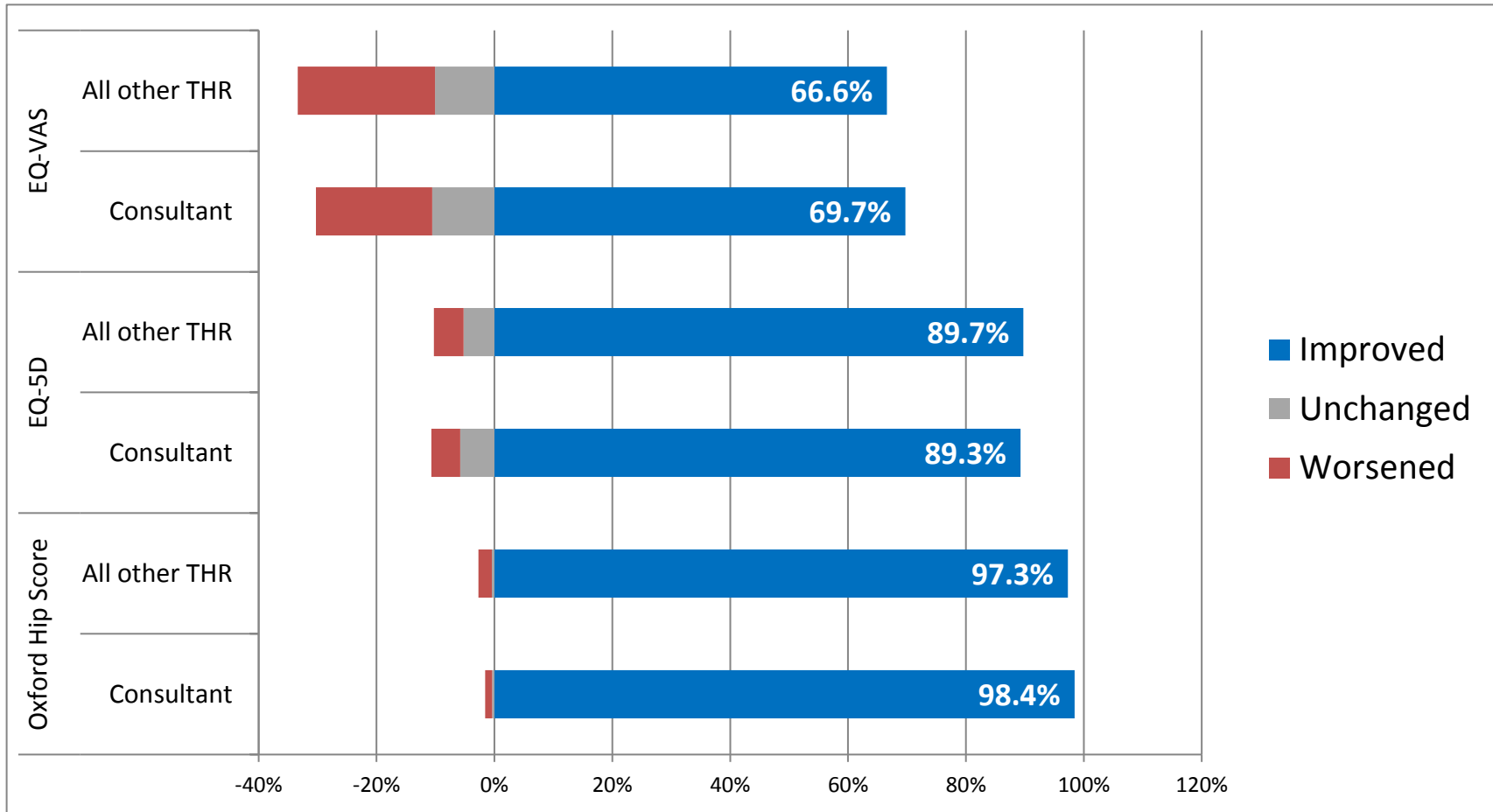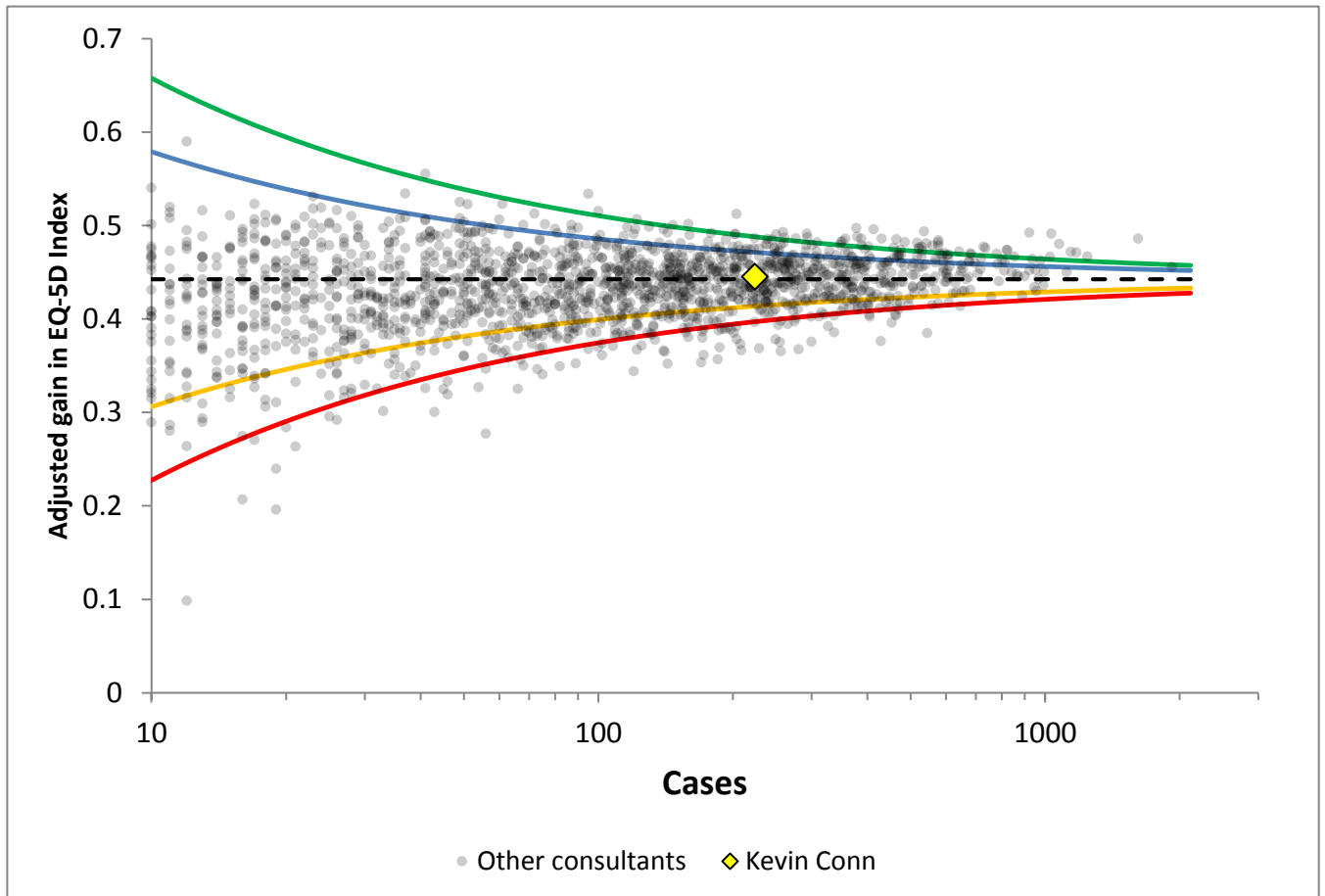
Primary Total Hip Replacement

Oxford Hip Score

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

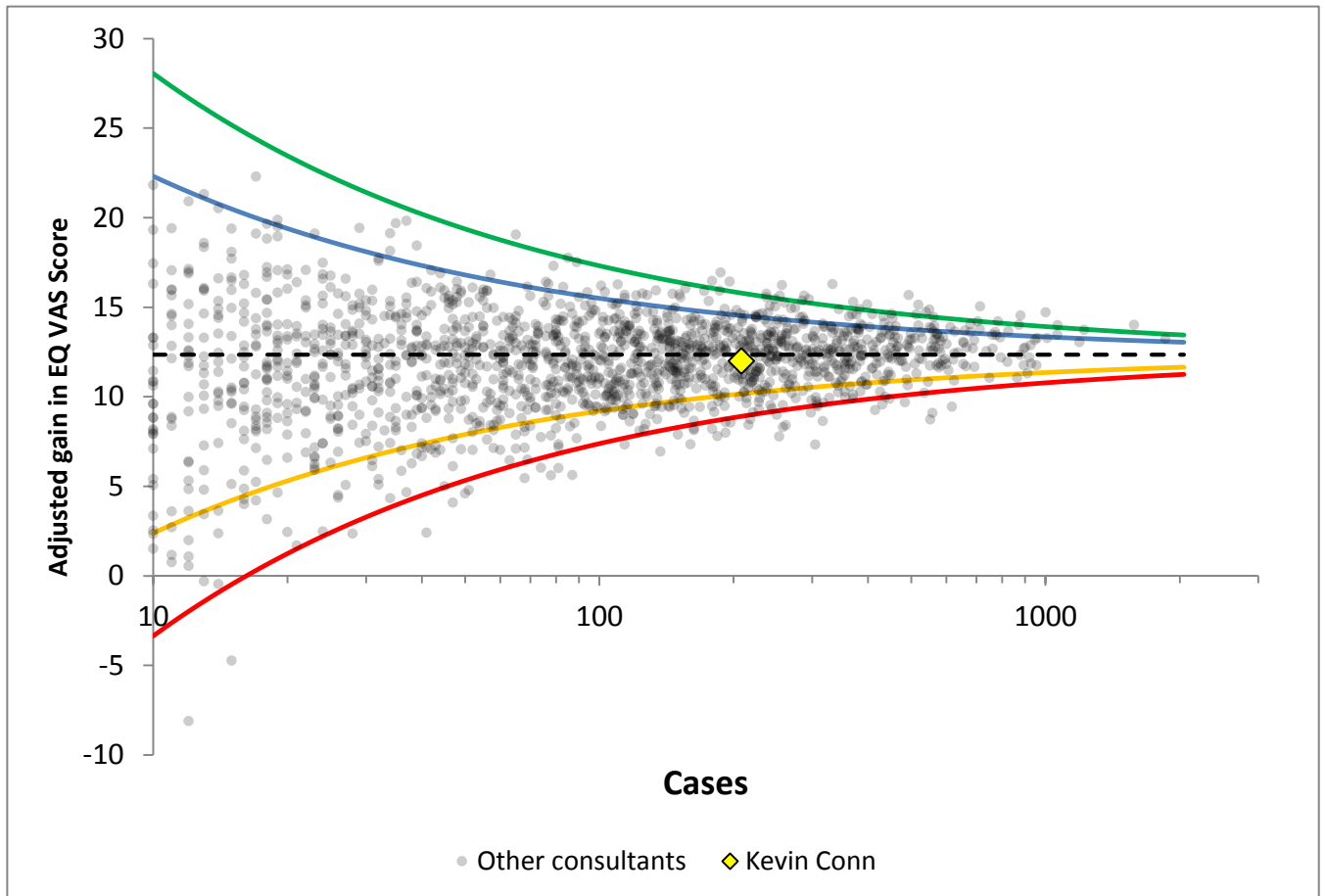## Primary Total Hip Replacement

EQ-5D Index

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

Primary Total Hip Replacement

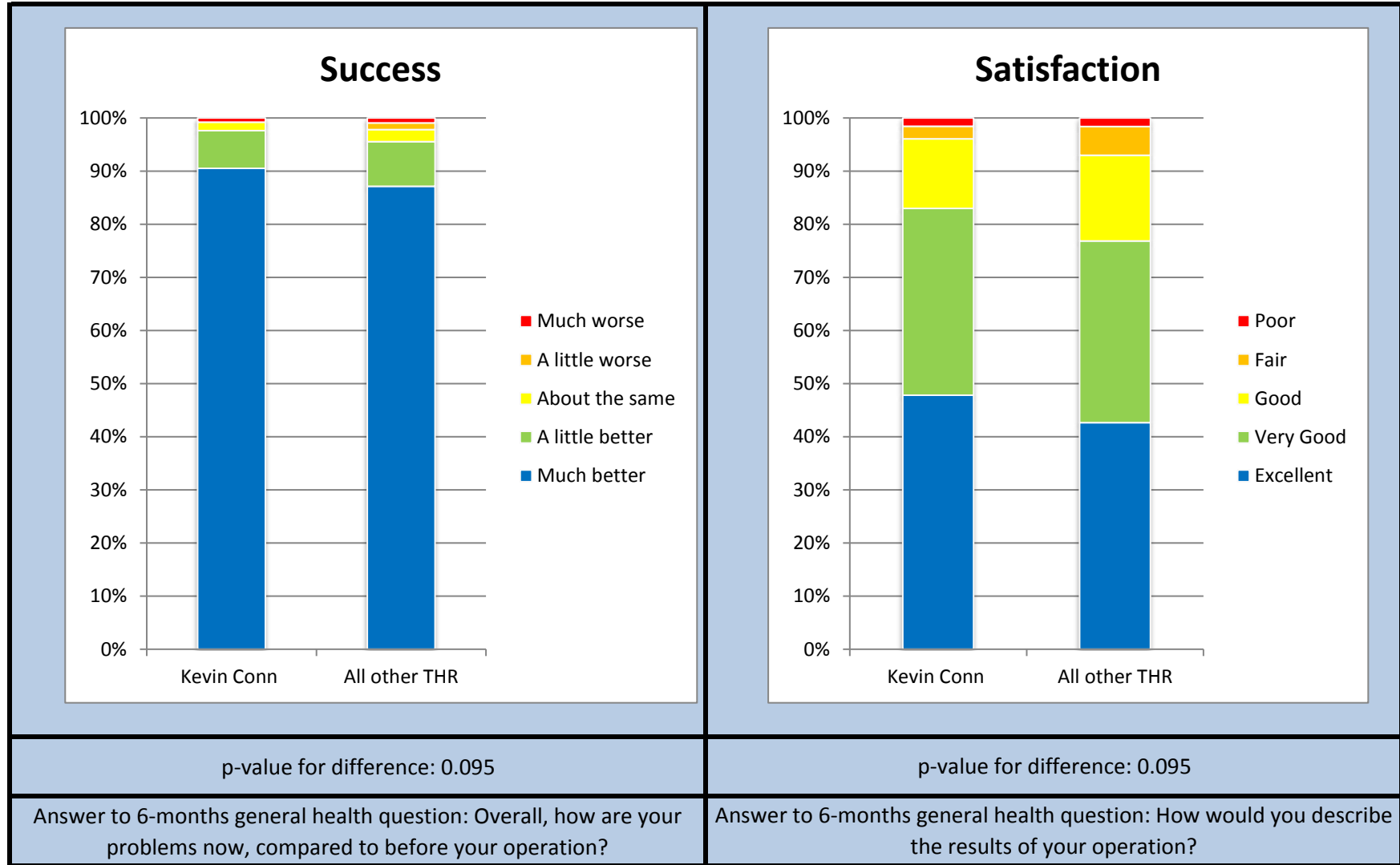## EQ-VAS

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

PROMs Report for: **Kevin Conn**

Responses are not case-mix adjusted

<div style="text-align:center">Primary Total Hip Replacement</div>

Success

Legend:
- Much worse (red)
- A little worse (orange)
- About the same (yellow)
- A little better (green)
- Much better (blue)

Categories: Kevin Conn, All other THR

p-value for difference: 0.095

Answer to 6-months general health question: Overall, how are your problems now, compared to before your operation?

Satisfaction

Legend:
- Poor (red)
- Fair (orange)
- Good (yellow)
- Very Good (green)
- Excellent (blue)

Categories: Kevin Conn, All other THR

p-value for difference: 0.095

Answer to 6-months general health question: How would you describe the results of your operation?

PROMs Report for: **Kevin Conn**

Success and Satisfaction

Success	Number	Kevin Conn Observed %	Expected %	All other THR Observed %
Much better	229	90.5%	87.5%	87.1%
A little better	18	7.1%	8.2%	8.4%
About the same	4	1.6%	2.2%	2.2%
A little worse	0	0.0%	1.2%	1.3%
Much worse	2	0.8%	0.9%	0.9%
Total	**253**	**100.0%**	**100.0%**	**100.0%**

Answer to 6-months general health question:
"Overall, how are your problems now, compared to before your operation?"

Satisfaction	Number	Kevin Conn Observed %	Expected %	All other THR Observed %
Excellent	121	47.8%	43.1%	42.6%
Very Good	89	35.2%	34.2%	34.2%
Good	33	13.0%	15.9%	16.1%
Fair	6	2.4%	5.3%	5.4%
Poor	4	1.6%	1.6%	1.6%
Total	**253**	**100.0%**	**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 total hip replacement, adjusted for age, sex, pre-operative Oxford hip score, and pre-operative EQ-5D score.

Consultant PROMs Report for: **Kevin Conn**
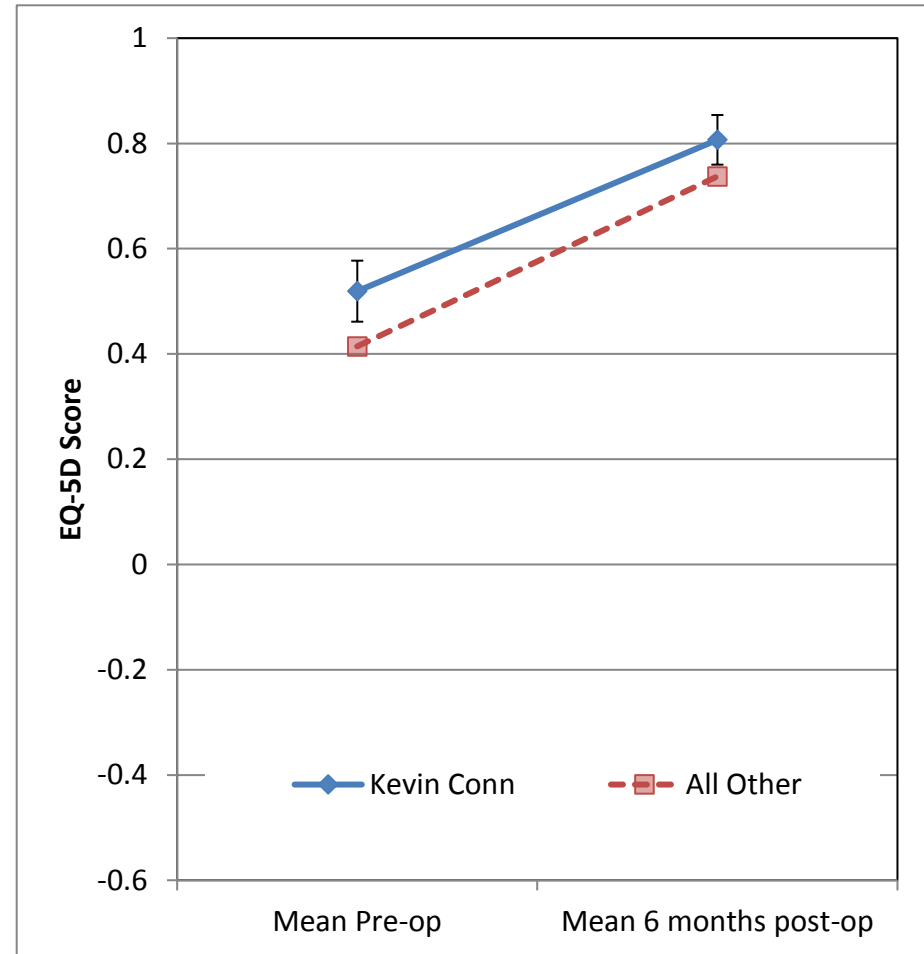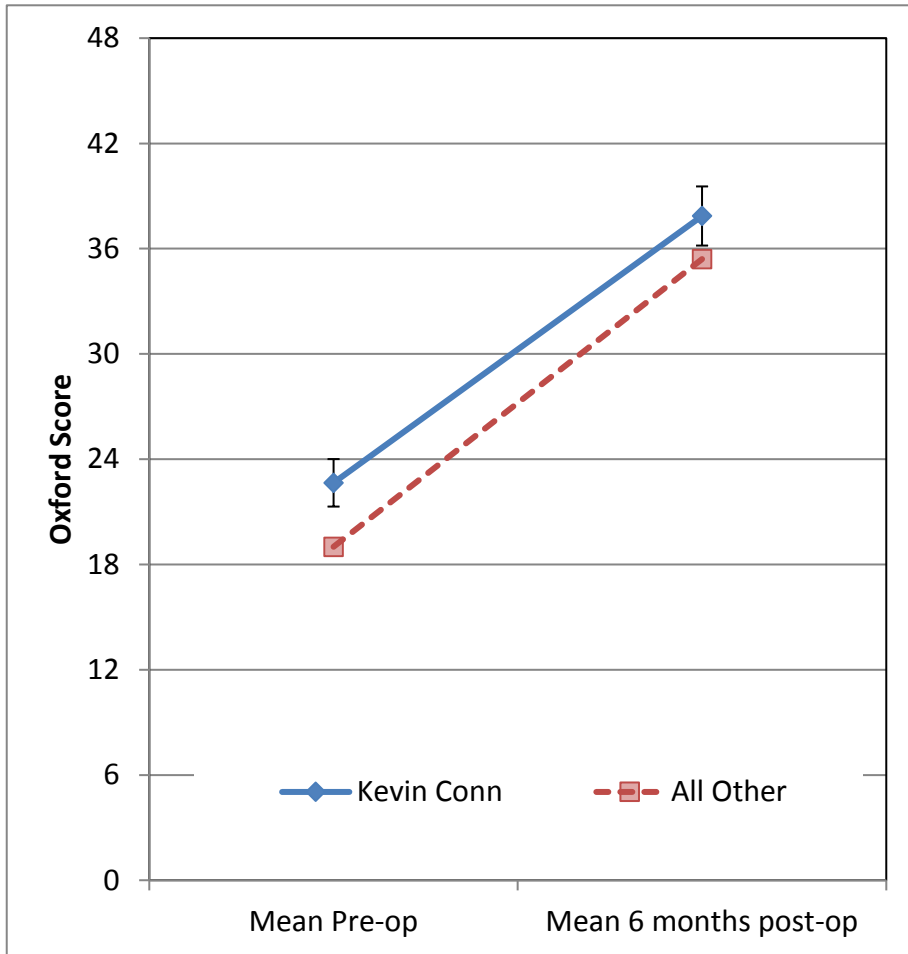
Primary Bicondylar Knee Replacement

Patient Details

	Consultant TKR with paired PROMs	All other TKR in NJR with paired PROMs
Total Procedures	127	339,334
Total Patients	116	308,604
Demographics		
Mean age	**72.5**	**70.4**
< 50	0.8%	1.2%
50 – 59	4.7%	10.2%
60 – 69	26.8%	32.9%
70 – 79	47.2%	40.4%
≥ 80	20.5%	15.3%
Median BMI	**29**	**30**
% BMI information available	63.8%	76.3%
Underweight (BMI < 18.5)	0.0%	0.2%
Normal (18.5 ≤ BMI < 25)	13.6%	9.3%
Overweight (25 ≤ BMI < 30)	44.4%	34.4%
Obese I (30 ≤ BMI < 35)	27.2%	33.2%
Obese II (35 ≤ BMI < 40)	7.4%	16.6%
Obese III (BMI ≥ 40)	7.4%	6.4%
% Male	44.1%	43.3%
ASA Grades		
P1 - Fit and healthy	6.3%	8.3%
P2 - Mild disease not incapacitating	91.3%	74.6%
P3 - Incapacitating systemic disease	2.4%	16.8%
P4 / P5	0.0%	0.3%
Indications		
Osteoarthritis	100.00%	97.83%
Rheumatoid Arthritis	0.00%	1.18%
Other Inflammatory Arthropathy	0.00%	0.66%
Previous Trauma	0.00%	0.52%
Avascular Necrosis	0.00%	0.30%
Other	0.00%	0.28%

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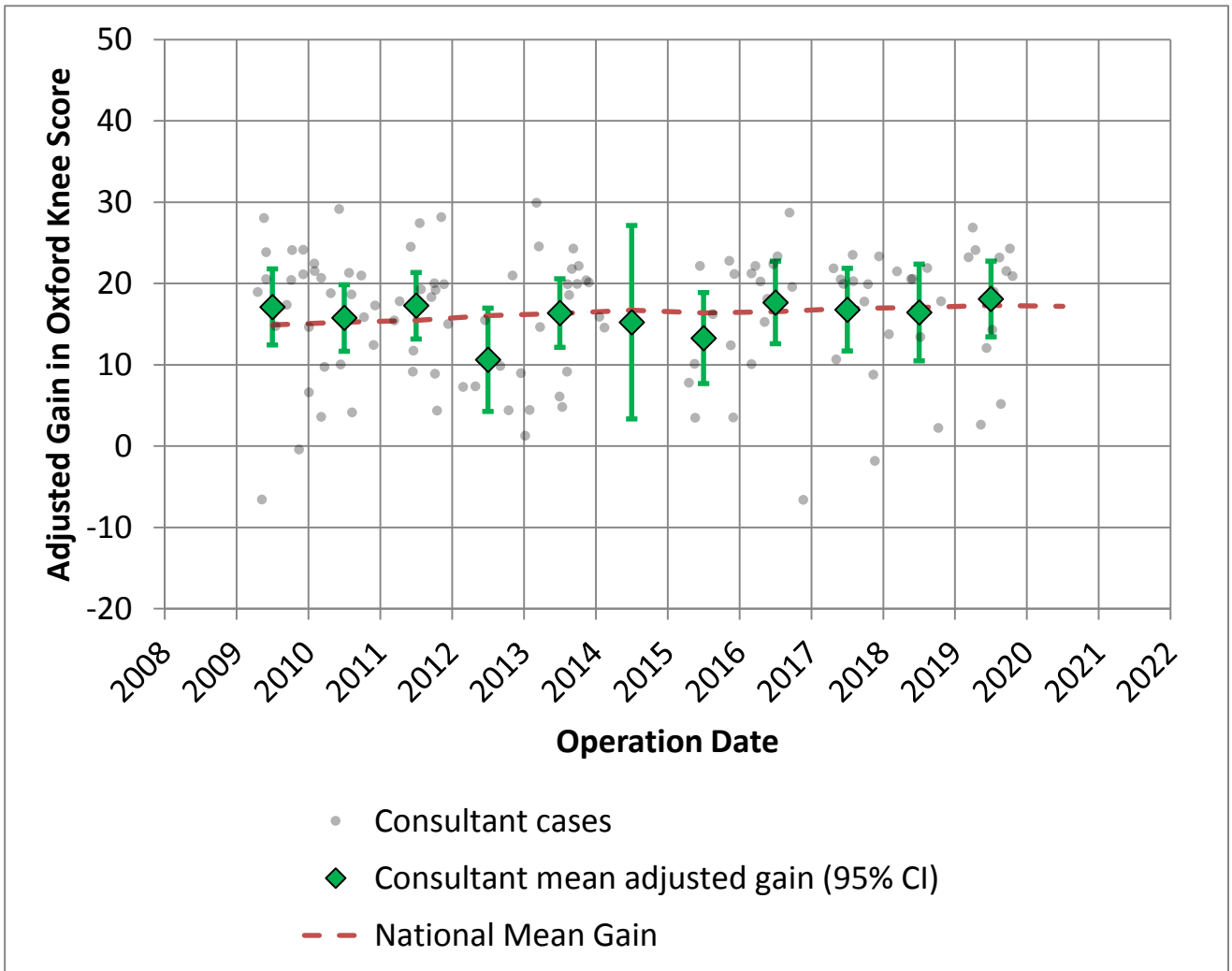
Primary Bicondylar Knee Replacement

PROMs Analysis
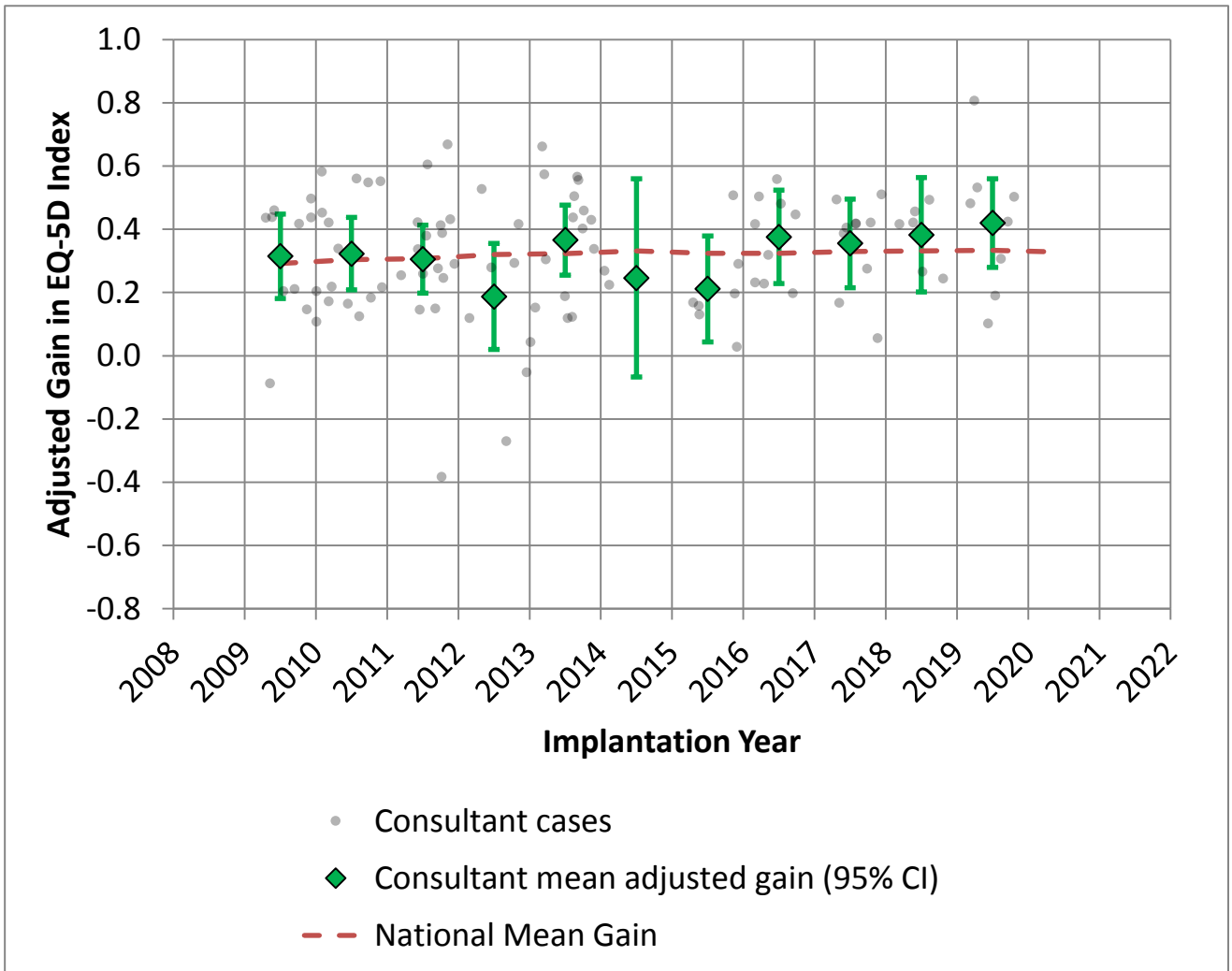
Primary Bicondylar Knee Replacement

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.
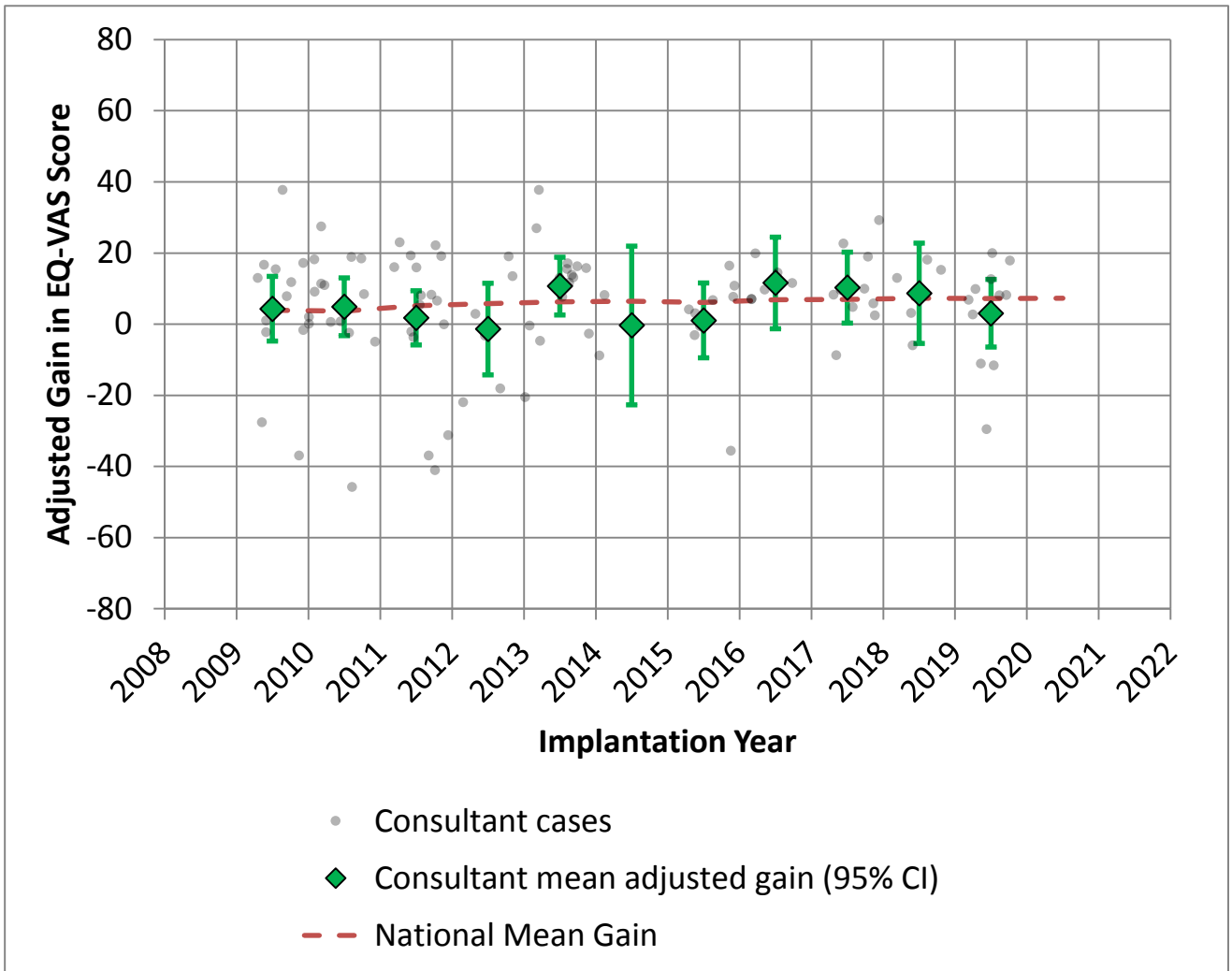
Primary Bicondylar Knee Replacement

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

- Consultant cases
- Consultant mean adjusted gain (95% CI)
- – – National Mean Gain

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.

PROMs Report for: **Kevin Conn**

Primary Bicondylar Knee Replacement

PROMs Analysis

Oxford Knee Score (0 - 48)	Kevin Conn	All other TKR
Paired Records	124	326,634
PreOp score	22.7 (21.3 - 24.0)	19.0 (19.0 - 19.0)
6 month score	37.9 (36.2 - 39.5)	35.4 (35.4 - 35.4)
Health gain	15.2 (13.5 - 16.9)	16.4 (16.4 - 16.4)
Health gain (adjusted)	16.3 (14.7 - 17.8)	16.4 (16.3 - 16.4)
Difference in adjusted gain *	-1.6 to 1.4	
% Score Improved	93.5%	93.9%
% Adjusted gain > 0	96.8%	95.2%
p value % adjusted gain > 0	0.53	

EQ-5D Index (-0.59 - 1.00)	Kevin Conn	All other TKR
Paired Records	110	302,953
PreOp score	0.519 (0.461 - 0.577)	0.414 (0.413 - 0.415)
6 month score	0.807 (0.760 - 0.854)	0.737 (0.736 - 0.738)
Health gain	0.288 (0.226 - 0.349)	0.323 (0.322 - 0.324)
Health gain (adjusted)	0.328 (0.286 - 0.370)	0.322 (0.321 - 0.322)
Difference in adjusted gain *	-0.036 to 0.049	
% Score Improved	82.7%	81.4%
% Adjusted gain > 0	96.4%	92.4%
p value % adjusted gain > 0	0.15	

EQ-VAS (0 - 100)	Kevin Conn	All other TKR
Paired Records	108	290,690
PreOp score	73.9 (70.1 - 77.7)	67.9 (67.8 - 67.9)
6 month score	77.6 (74.1 - 81.0)	74.0 (73.9 - 74.1)
Health gain	3.6 (0.0 - 7.7)	6.1 (6.1 - 6.2)
Health gain (adjusted)	5.2 (2.2 - 8.3)	6.2 (6.1 - 6.2)
Difference in adjusted gain *	-4.0 to 2.1	
% Score Improved	52.8%	56.4%
% Adjusted gain > 0	73.1%	71.7%
p value % adjusted gain > 0	0.83	

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.
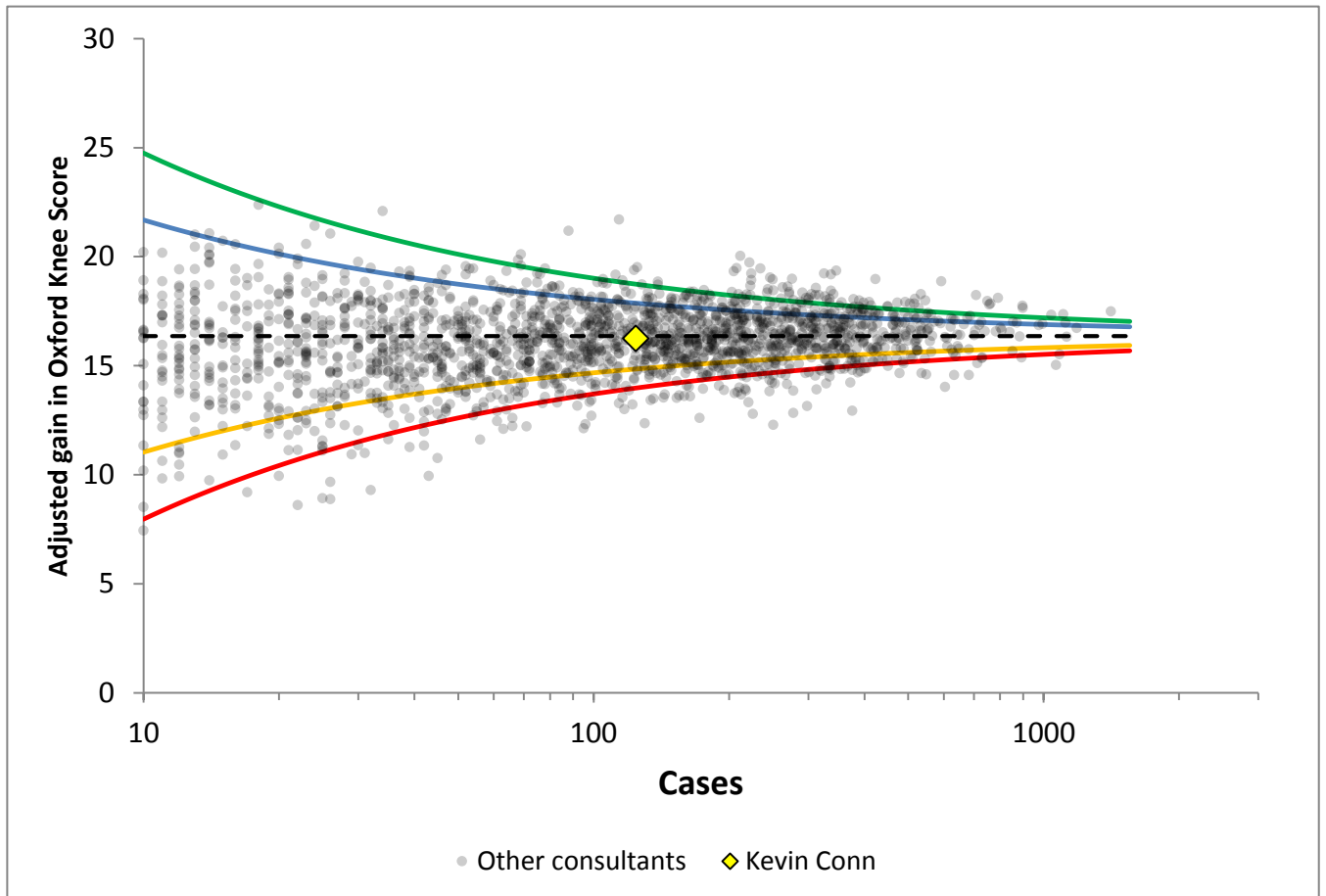
PROMs Report for: **Kevin Conn**

Primary Bicondylar Knee Replacement

PROMs Analysis

EQ-VAS	All other TKR	56.4%
	Consultant	52.8%
EQ-5D	All other TKR	81.4%
	Consultant	82.7%
Oxford Knee Score	All other TKR	93.9%
	Consultant	93.5%

Legend: ■ Improved ■ Unchanged ■ Worsened

X-axis: -60% -40% -20% 0% 20% 40% 60% 80% 100% 120%
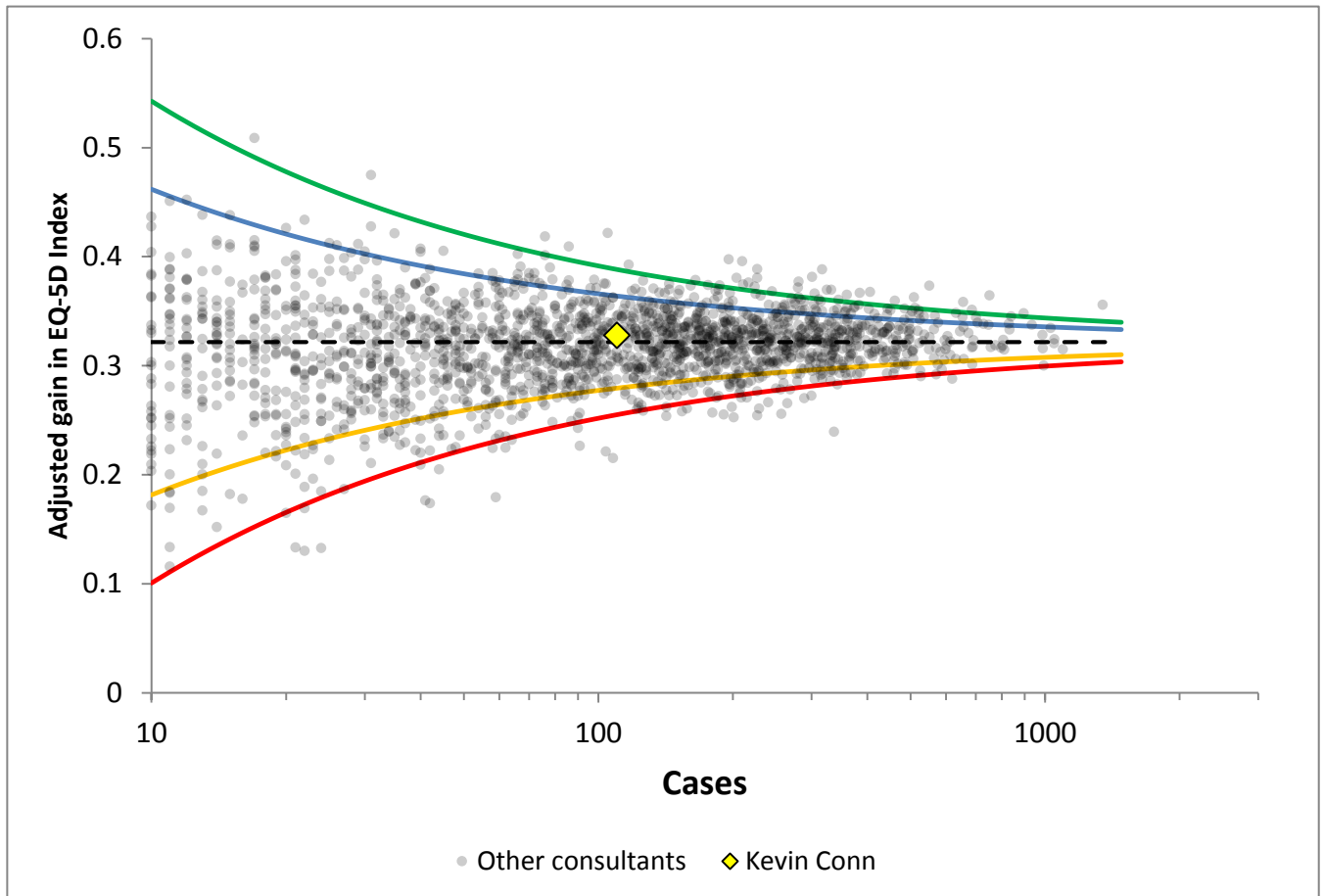
Primary Bicondylar Knee Replacement

Oxford Knee Score

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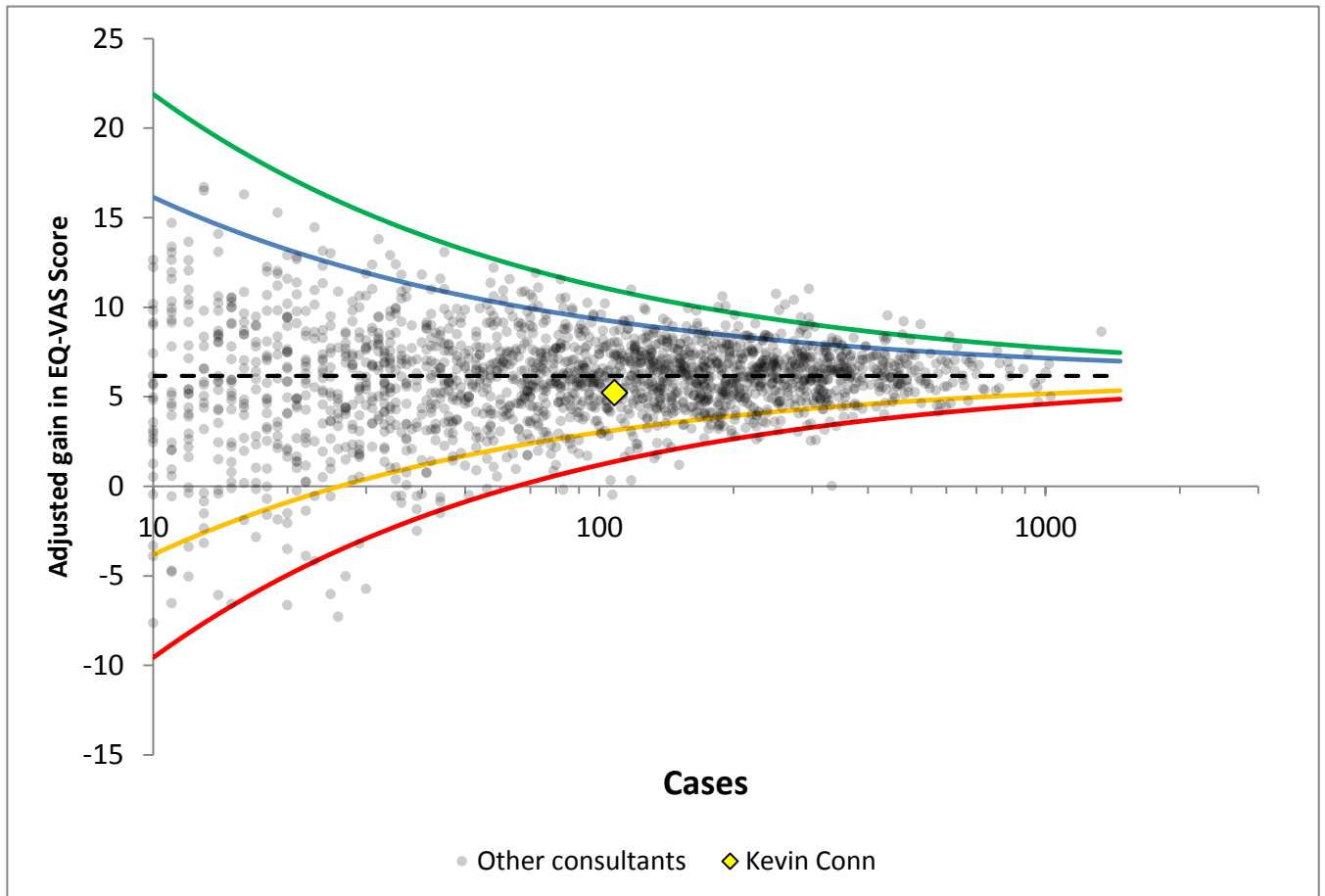
Primary Bicondylar Knee Replacement

EQ-5D Index

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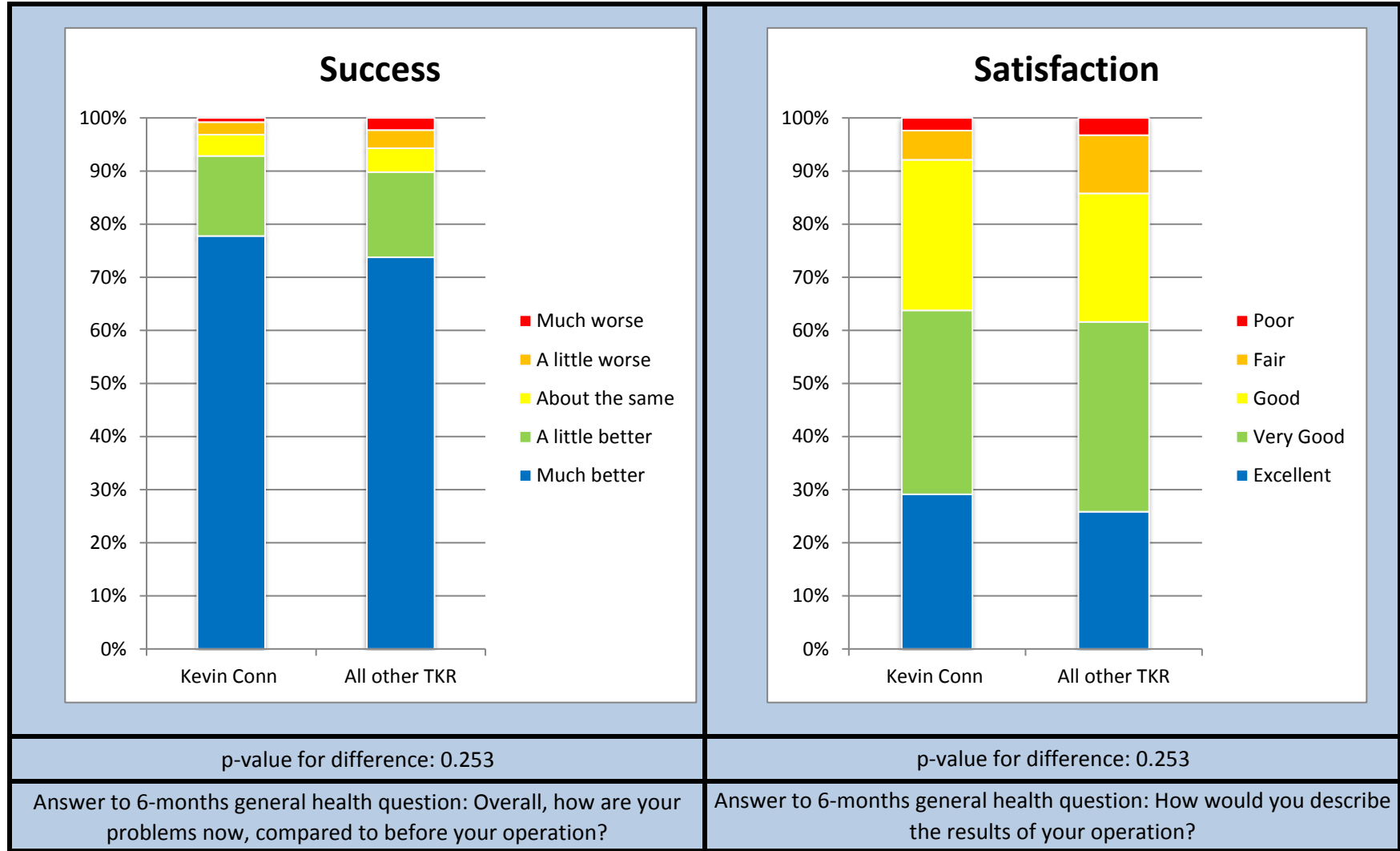
Primary Bicondylar Knee Replacement

EQ-VAS

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

Kevin Conn

Primary Bicondylar Knee Replacement

Responses are not case-mix adjusted

Success

Legend:
- Much worse (red)
- A little worse (orange)
- About the same (yellow)
- A little better (green)
- Much better (blue)

Categories: Kevin Conn, All other TKR

p-value for difference: 0.253

Answer to 6-months general health question: Overall, how are your problems now, compared to before your operation?

Satisfaction

Legend:
- Poor (red)
- Fair (orange)
- Good (yellow)
- Very Good (green)
- Excellent (blue)

Categories: Kevin Conn, All other TKR

p-value for difference: 0.253

Answer to 6-months general health question: How would you describe the results of your operation?

PROMs Report for: **Kevin Conn**

Success and Satisfaction

Success	Number	Kevin Conn Observed %	Expected %	All other TKR Observed %
Much better	98	77.8%	76.1%	73.8%
A little better	19	15.1%	14.8%	16.0%
About the same	5	4.0%	4.0%	4.5%
A little worse	3	2.4%	3.0%	3.4%
Much worse	1	0.8%	2.0%	2.3%
Total	**126**	**100.0%**	**100.0%**	**100.0%**

Answer to 6-months general health question:
"Overall, how are your problems now, compared to before your operation?"

Satisfaction	Number	Kevin Conn Observed %	Expected %	All other TKR Observed %
Excellent	37	29.1%	27.8%	25.8%
Very Good	44	34.6%	36.1%	35.8%
Good	36	28.3%	23.1%	24.2%
Fair	7	5.5%	10.1%	10.9%
Poor	3	2.4%	2.9%	3.3%
Total	**127**	**100.0%**	**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.

Consultant PROMs Report for: **Kevin Conn**

Primary Unicondylar Knee Replacement

Patient Details

	Consultant UKR with paired PROMs	All other UKR in NJR with paired PROMs
Total Procedures	51	13,331
Total Patients	51	12,798
Demographics		
Mean age	**68.5**	**65.7**
< 50	0.0%	3.9%
50 – 59	13.7%	23.3%
60 – 69	39.2%	36.2%
70 – 79	43.1%	29.5%
≥ 80	3.9%	7.1%
Median BMI	**27**	**30**
% BMI information available	82.4%	82.6%
Underweight (BMI < 18.5)	2.4%	0.2%
Normal (18.5 ≤ BMI < 25)	16.7%	10.9%
Overweight (25 ≤ BMI < 30)	40.5%	38.4%
Obese I (30 ≤ BMI < 35)	14.3%	33.6%
Obese II (35 ≤ BMI < 40)	19.0%	12.9%
Obese III (BMI ≥ 40)	7.1%	4.1%
% Male	52.9%	53.5%
ASA Grades		
P1 - Fit and healthy	7.8%	14.5%
P2 - Mild disease not incapacitating	90.2%	74.9%
P3 - Incapacitating systemic disease	2.0%	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%	0.29%

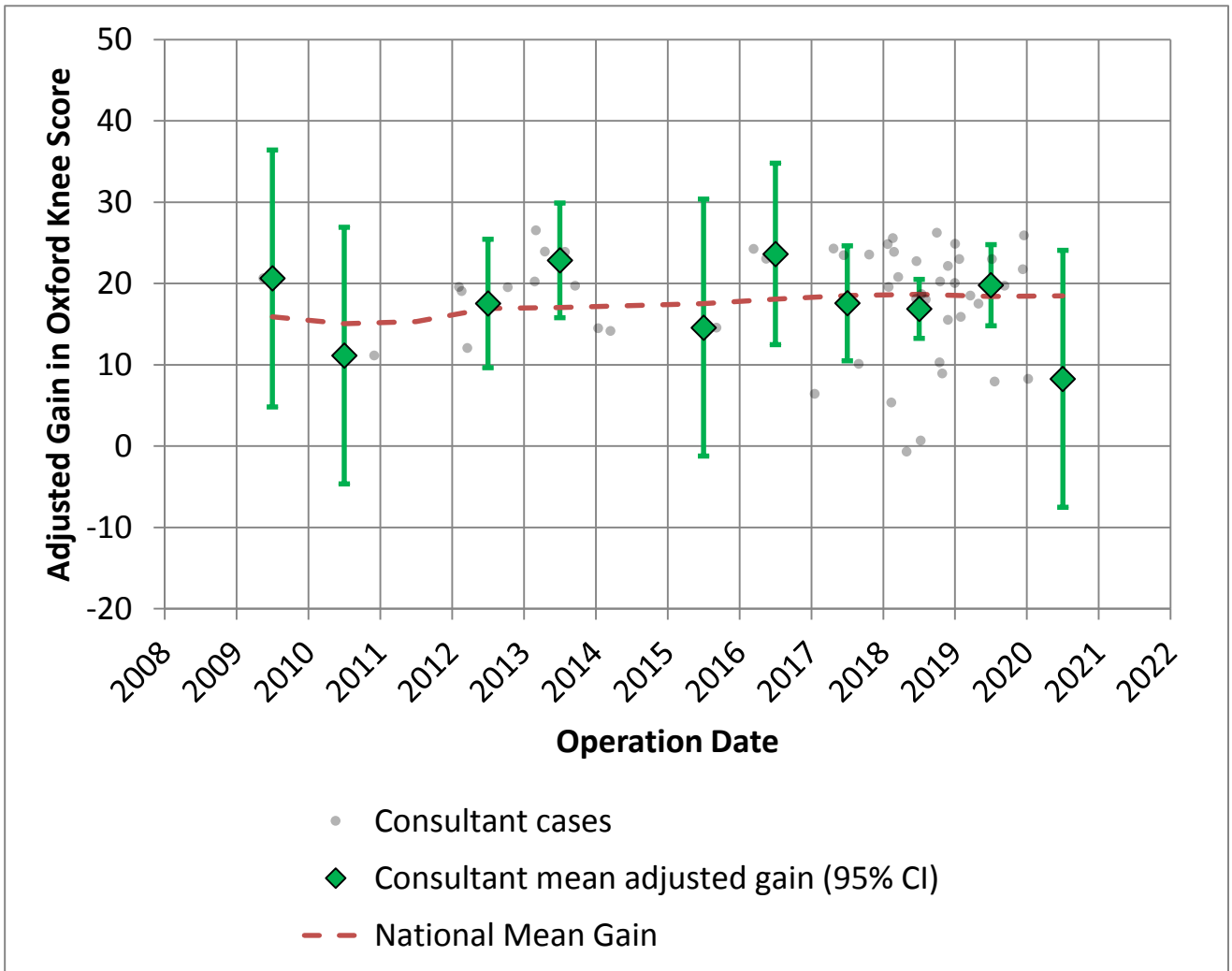Total of indications may exceed total number of procedures, since more than one indication can be listed per case.

Primary Unicondylar Knee Replacement
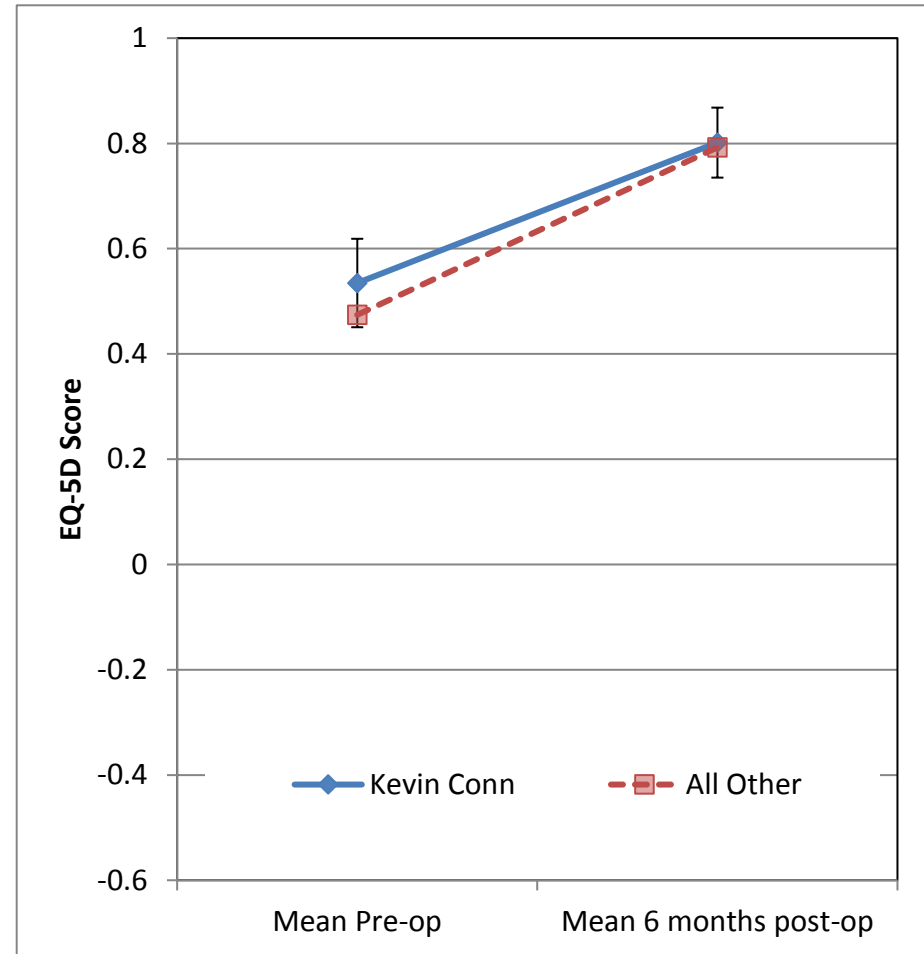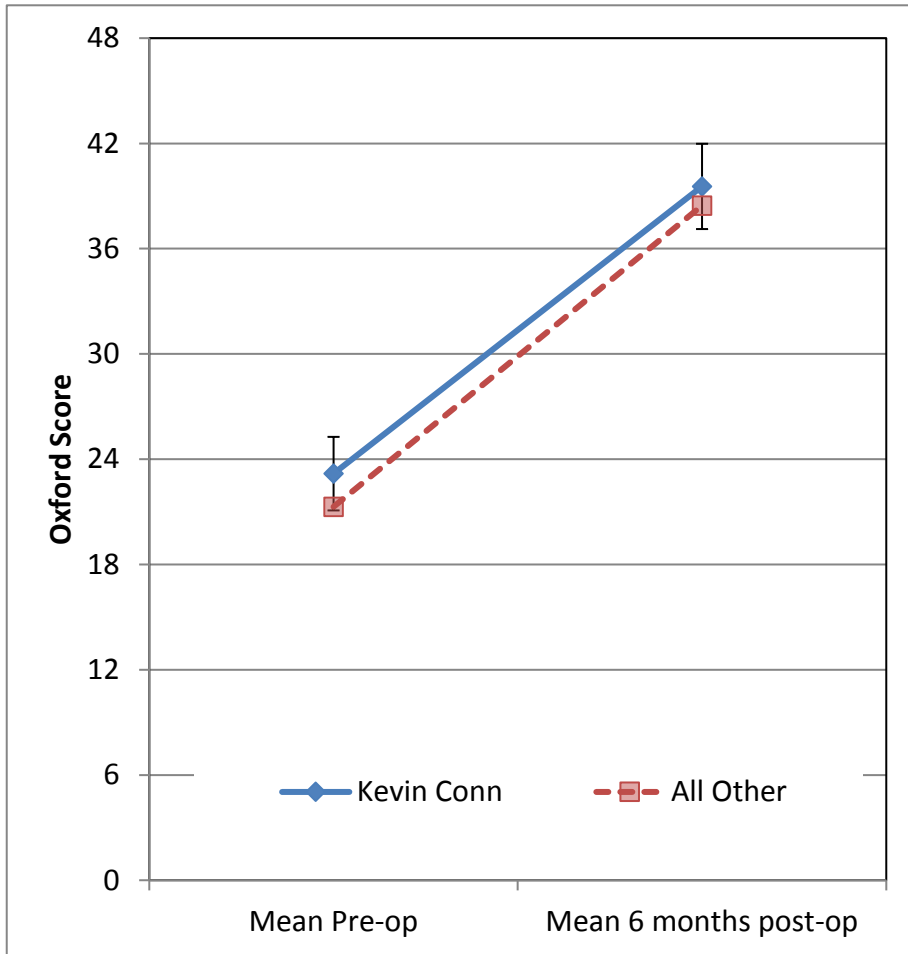
PROMs Analysis
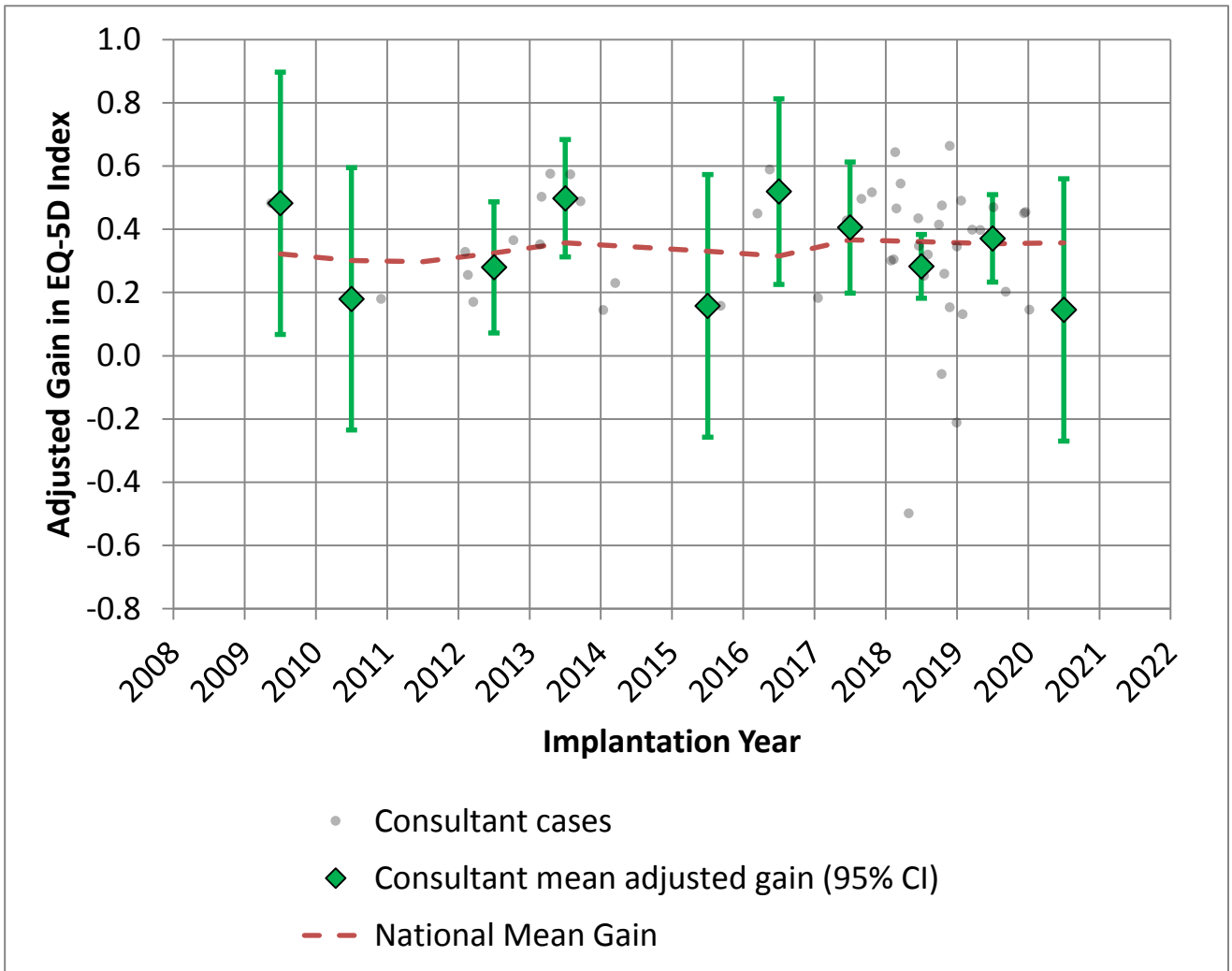
Primary Unicondylar Knee Replacement

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.

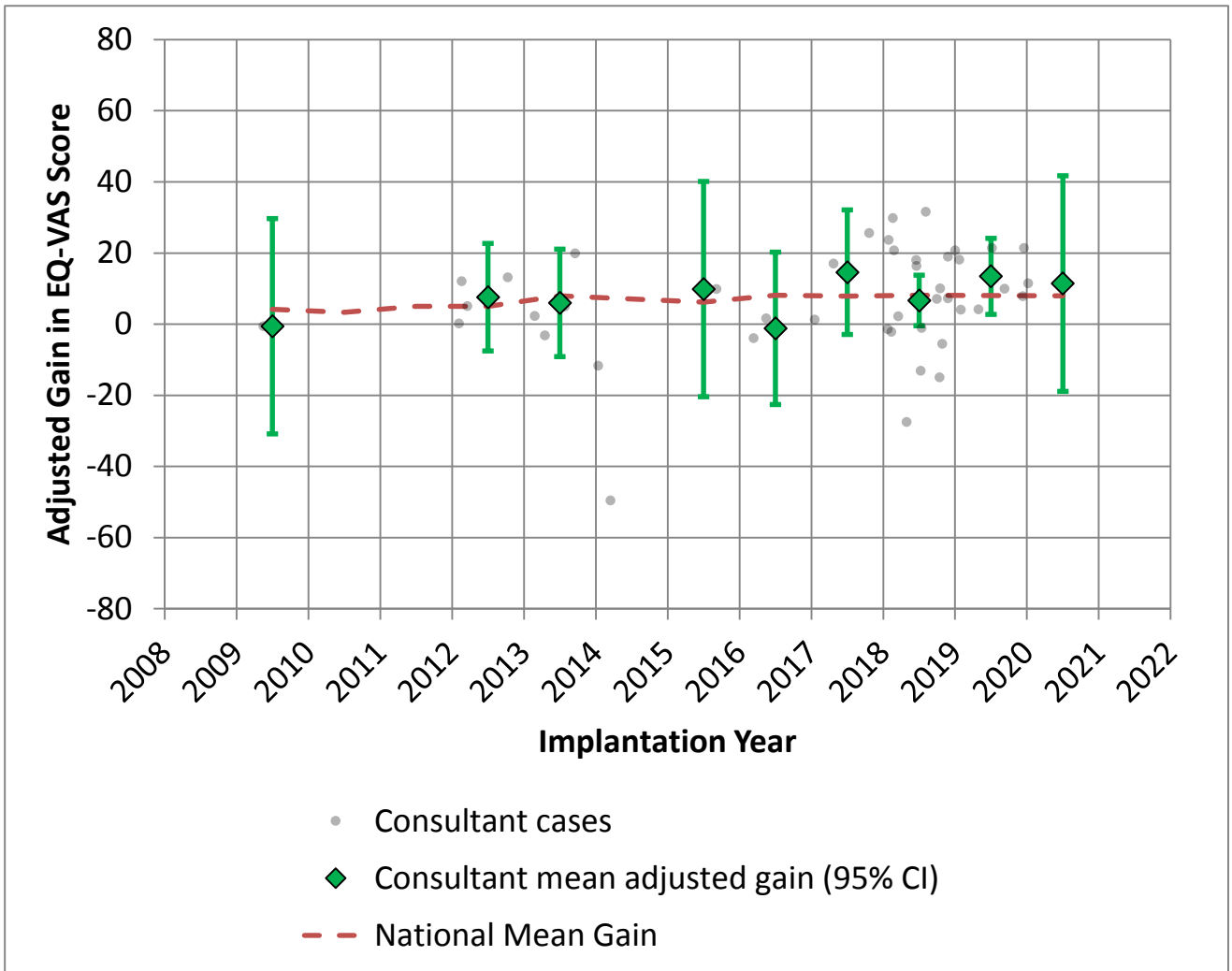## Primary Unicondylar Knee Replacement

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.

PROMs Report for: **Kevin Conn**

PROMs Analysis

Oxford Knee Score (0 - 48)	Kevin Conn	All other Uni Knees
Paired Records	51	12,934
PreOp score	23.2 (21.1 - 25.3)	21.3 (21.2 - 21.4)
6 month score	39.5 (37.1 - 42.0)	38.5 (38.3 - 38.6)
Health gain	16.4 (13.7 - 19.0)	17.2 (17.0 - 17.3)
Health gain (adjusted)	18.1 (15.9 - 20.3)	18.2 (18.0 - 18.3)
Difference in adjusted gain *	-2.3 to 2.1	
% Score Improved	100.0%	94.9%
% Adjusted gain > 0	98.0%	96.4%
p value % adjusted gain > 0	1	

EQ-5D Index (-0.59 - 1.00)	Kevin Conn	All other Uni Knees
Paired Records	47	12,219
PreOp score	0.535 (0.451 - 0.619)	0.474 (0.469 - 0.479)
6 month score	0.802 (0.735 - 0.868)	0.792 (0.788 - 0.797)
Health gain	0.267 (0.177 - 0.357)	0.318 (0.313 - 0.324)
Health gain (adjusted)	0.335 (0.275 - 0.396)	0.353 (0.350 - 0.357)
Difference in adjusted gain *	-0.079 to 0.043	
% Score Improved	83.0%	83.8%
% Adjusted gain > 0	93.6%	94.5%
p value % adjusted gain > 0	0.74	

EQ-VAS (0 - 100)	Kevin Conn	All other Uni Knees
Paired Records	44	11,944
PreOp score	70.6 (64.7 - 76.5)	69.4 (69.0 - 69.7)
6 month score	77.4 (72.3 - 82.5)	77.5 (77.2 - 77.8)
Health gain	6.8 (0.6 - 13.1)	8.1 (7.7 - 8.5)
Health gain (adjusted)	6.4 (1.9 - 11.0)	7.6 (7.3 - 7.9)
Difference in adjusted gain *	-5.8 to 3.4	
% Score Improved	59.1%	60.5%
% Adjusted gain > 0	72.7%	76.5%
p value % adjusted gain > 0	0.59	

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.
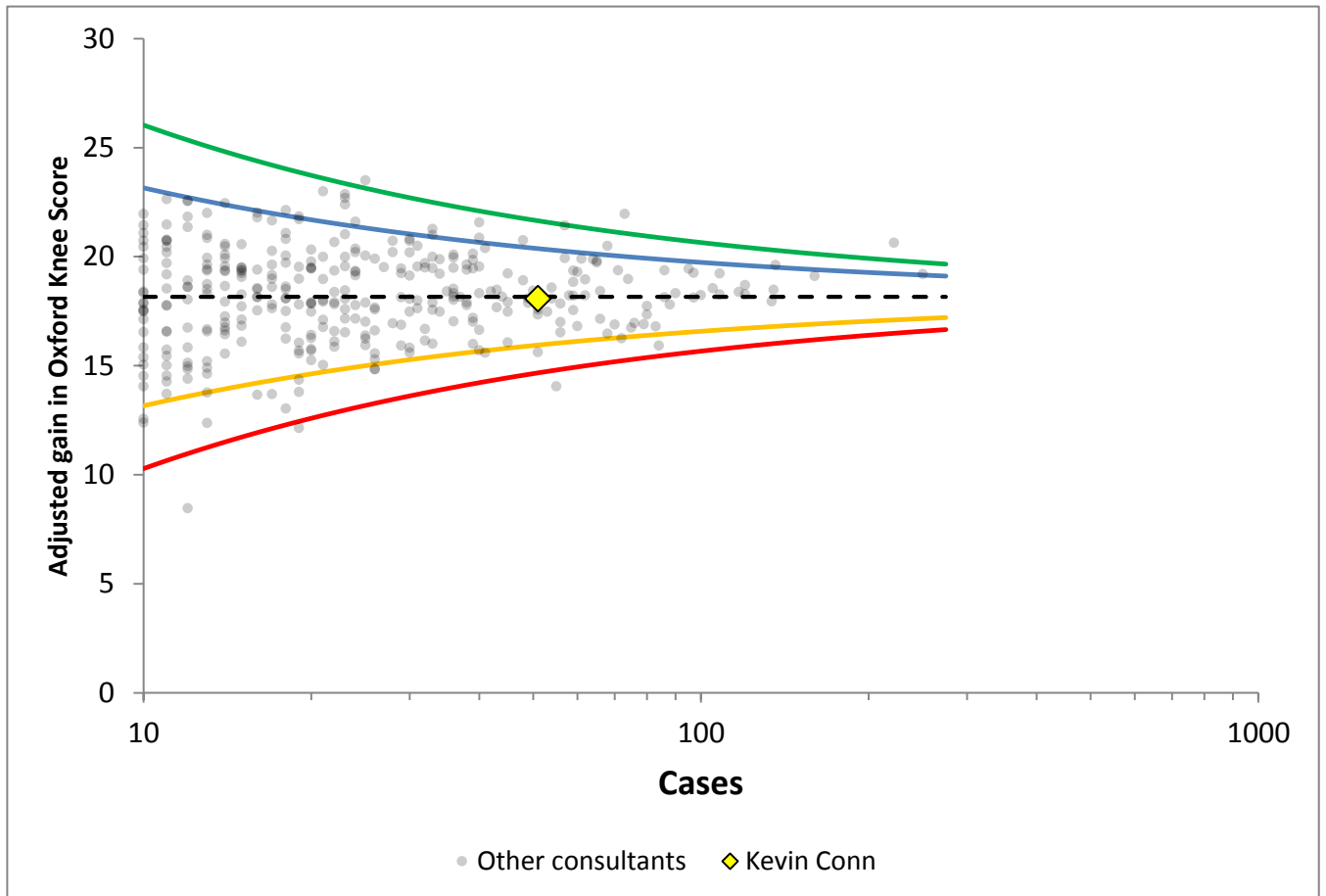
PROMs Report for: **Kevin Conn**

PROMs Analysis
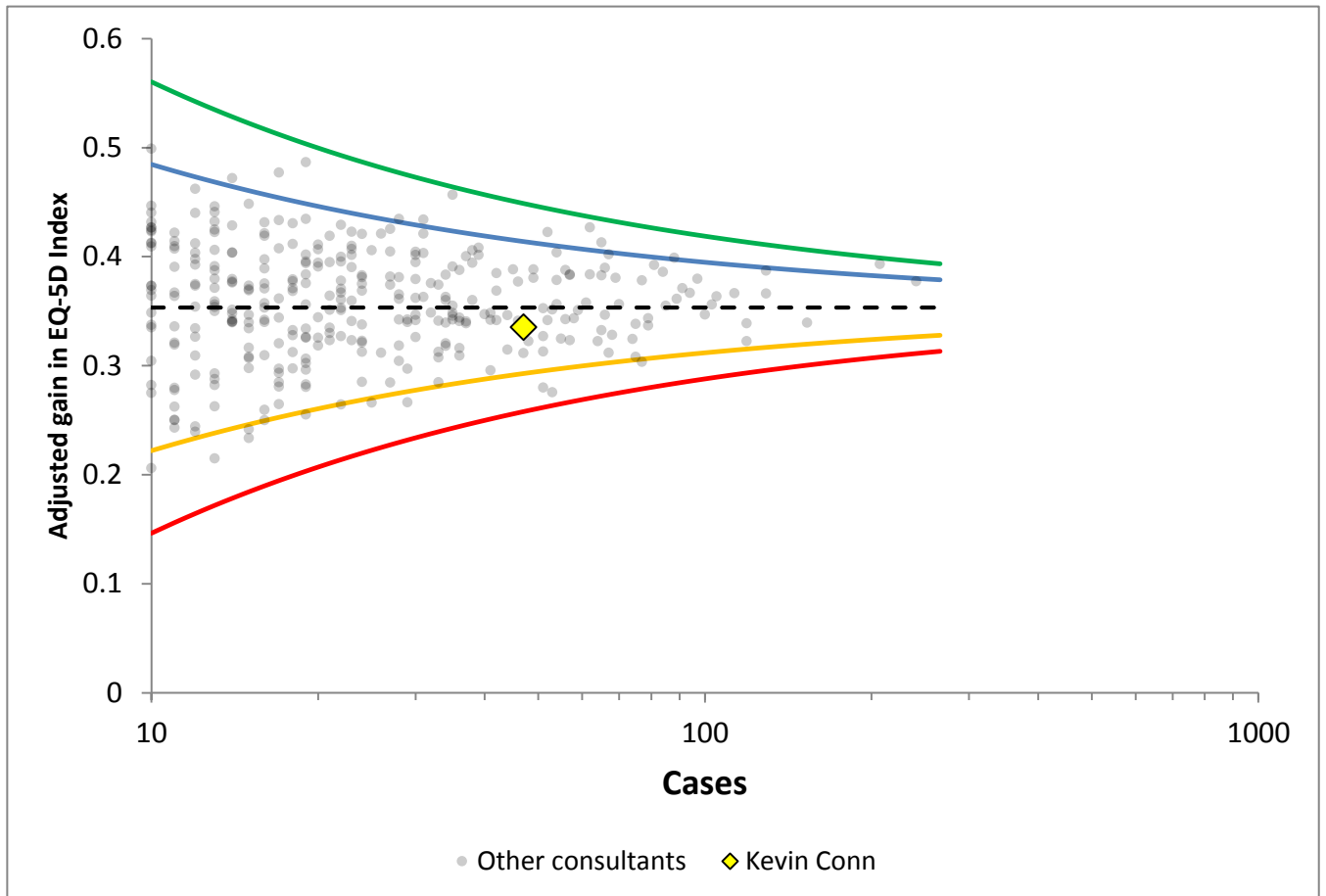
Primary Unicondylar Knee Replacement

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.

Kevin Conn

Primary Unicondylar Knee Replacement

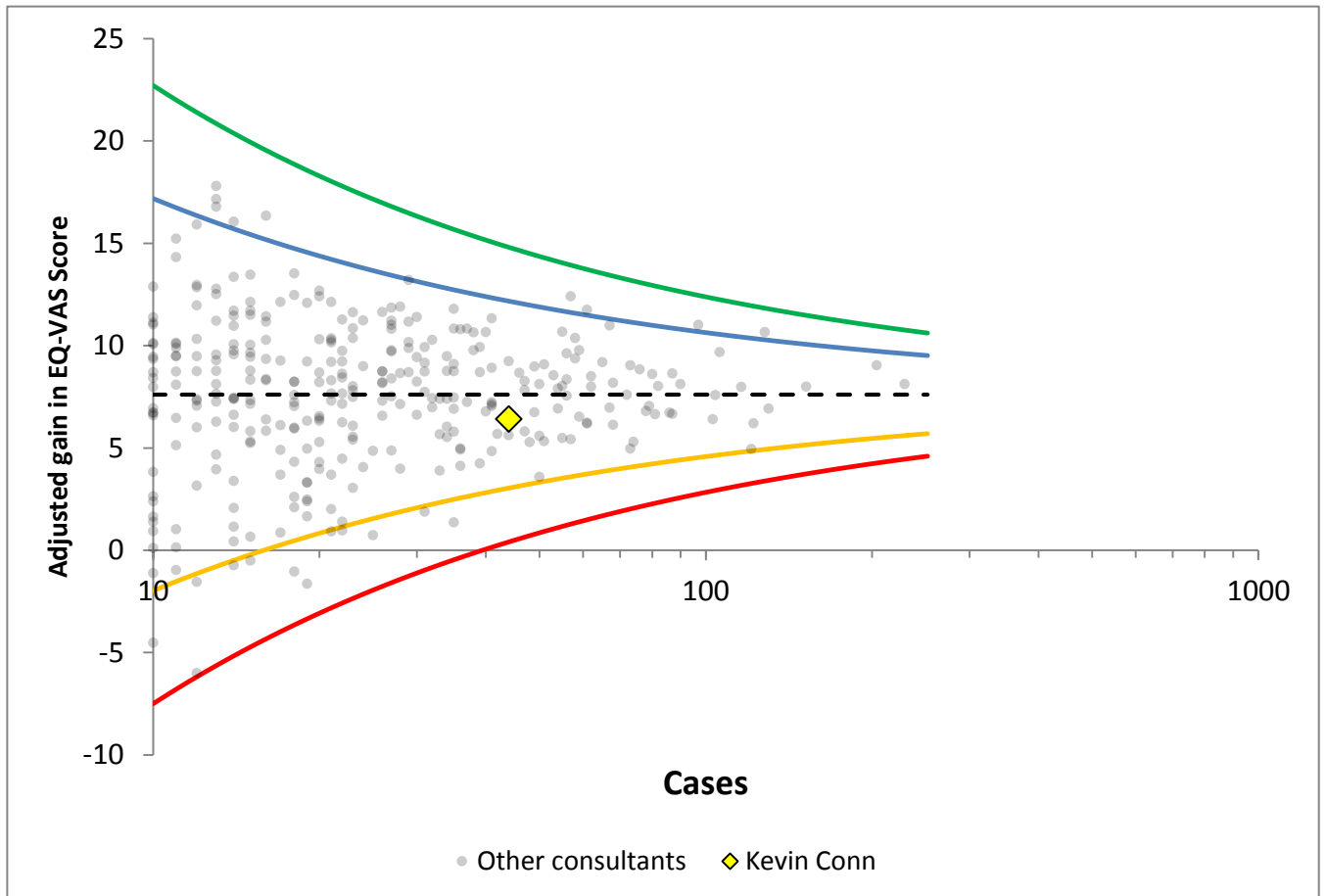## EQ-VAS
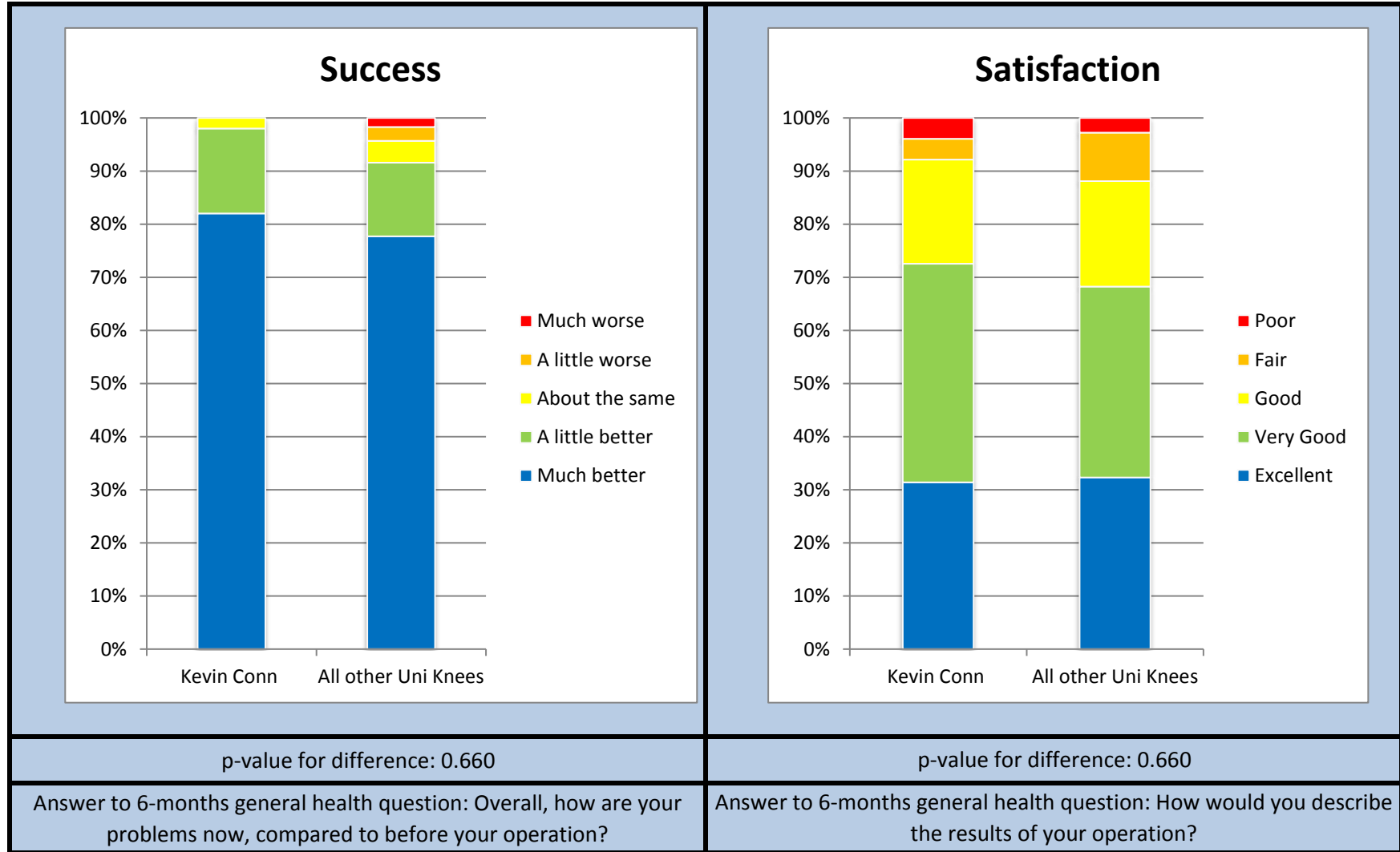

Gain in score is adjusted for case-mix using the model developed by NHS Digital. See methodology page for details.

Kevin Conn

Responses are not case mix adjusted

Primary Unicondylar Knee Replacement

Success

Legend:
- ■ Much worse
- ■ A little worse
- ■ About the same
- ■ A little better
- ■ Much better

Categories: Kevin Conn, All other Uni Knees

p-value for difference: 0.660

Answer to 6-months general health question: Overall, how are your problems now, compared to before your operation?

Satisfaction

Legend:
- ■ Poor
- ■ Fair
- ■ Good
- ■ Very Good
- ■ Excellent

Categories: Kevin Conn, All other Uni Knees

p-value for difference: 0.660

Answer to 6-months general health question: How would you describe the results of your operation?

PROMs Report for: **Kevin Conn**

Success and Satisfaction

Success	Number	Kevin Conn Observed %	Expected %	All other UKR Observed %
Much better	41	82.0%	75.5%	77.7%
A little better	8	16.0%	15.1%	13.9%
About the same	1	2.0%	4.2%	4.1%
A little worse	0	0.0%	3.1%	2.6%
Much worse	0	0.0%	2.1%	1.7%
Total	**50**	**100.0%**	**100.0%**	**100.0%**

Answer to 6-months general health question:
"Overall, how are your problems now, compared to before your operation?"

Satisfaction	Number	Kevin Conn Observed %	Expected %	All other UKR Observed %
Excellent	16	31.4%	27.9%	32.3%
Very Good	21	41.2%	35.9%	36.0%
Good	10	19.6%	23.1%	19.8%
Fair	2	3.9%	10.1%	9.1%
Poor	2	3.9%	3.0%	2.8%
Total	**51**	**100.0%**	**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, comorbitities, 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

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