



Australian Orthopaedic Association
National Joint Replacement Registry

AD HOC REPORT (FORM A)

REQUEST ID	PRINCIPAL REQUESTER	POSITION	ORGANISATION	CONTACT
2691	Adrian Bauze	Orthopaedic Surgeon	Sportsmed	Marie Daws Denley

DATE REQUEST RECEIVED:	10/01/2019
DATE APPROVED FOR RELEASE:	23/01/2019

DETAILS OF ANALYSIS PROVIDED

Specific Data Period:	Procedures from 1 September 1999 - 4 December 2018
Comments:	

Approved:	 Professor Stephen Graves AOANJRR Director	23/01/2019
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Disclaimer:	<i>The AOANJRR has taken every care to ensure that the data supplied are accurate but does not warrant that the data are error free and does not accept any liability for errors or omissions in the data provided.</i>
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Request 2691 - A Bauze

Outcomes for Dr A Bauze (Dr A Bauze) - Sportsmed Hospital

Table 1: Joint Replacement Procedures performed by Dr A Bauze at Sportsmed (All Diagnoses)

Joint	Class	Sportsmed N
HIP	Unipolar Modular	.
	Total Resurfacing	.
	Total Conventional	346
	Revision	62
KNEE	Patella/Trochlear	2
	Unicompartmental	42
	Total Knee	373
	Revision	30
TOTAL		855

Table 2: Revision Rates of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, All Bearing Surfaces)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	9	346	1432	0.63 (0.29, 1.19)
All Other Australian Hospitals	20524	448654	2828965	0.73 (0.72, 0.74)
TOTAL	20866	452000	2852546	0.73 (0.72, 0.74)

Table 3: Yearly Cumulative Percent Revision of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, All Bearing Surfaces)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	1.8 (0.8, 3.9)	2.2 (1.0, 4.5)	2.2 (1.0, 4.5)	2.6 (1.3, 5.3)	2.6 (1.3, 5.3)
All Other Australian Hospitals	1.7 (1.7, 1.7)	2.3 (2.2, 2.3)	2.7 (2.7, 2.8)	3.2 (3.1, 3.2)	3.7 (3.6, 3.7)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs	11 Yrs
Dr A Bauze Sportsmed	2.6 (1.3, 5.3)	3.7 (1.8, 7.8)				
All Other Australian Hospitals	4.2 (4.1, 4.3)	4.7 (4.6, 4.8)	5.2 (5.1, 5.3)	5.8 (5.7, 5.8)	6.3 (6.2, 6.4)	6.9 (6.8, 7.0)

CPR	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs	17 Yrs
Dr A Bauze Sportsmed						
All Other Australian Hospitals	7.5 (7.4, 7.6)	8.1 (8.0, 8.2)	8.8 (8.6, 8.9)	9.3 (9.2, 9.5)	10.0 (9.7, 10.2)	10.5 (10.3, 10.8)

Table 4: Revision Rates of Primary Total Conventional Hip Replacement using Metal/Metal Prostheses with Head Size >32mm Performed by Dr A Bauze at Sportsmed SA (All Diagnoses)

Femoral Stem	Acetabular Component	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Corail	ASR*	2	3	19	10.58 (1.28, 38.22)
TOTAL		2	3	19	10.58 (1.28, 38.22)

*Denotes prosthesis identified by the AOANJRR as having a higher than anticipated rate of revision

Total Conventional Hip Replacement, Excluding Large Head (>32mm) Metal/Metal

Table 5: Revision Rates of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	7	343	1413	0.50 (0.20, 1.02)
All Other Australian Hospitals	17116	432838	2684358	0.64 (0.63, 0.65)
TOTAL	17253	435701	2703811	0.64 (0.63, 0.65)

Table 6: Yearly Cumulative Percent Revision of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	1.8 (0.8, 3.9)	2.2 (1.0, 4.5)	2.2 (1.0, 4.5)	2.2 (1.0, 4.5)	2.2 (1.0, 4.5)
All Other Australian Hospitals	1.7 (1.7, 1.7)	2.2 (2.2, 2.3)	2.6 (2.6, 2.7)	2.9 (2.9, 3.0)	3.3 (3.2, 3.3)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs	11 Yrs
Dr A Bauze Sportsmed	2.2 (1.0, 4.5)	2.2 (1.0, 4.5)				
All Other Australian Hospitals	3.6 (3.6, 3.7)	4.0 (3.9, 4.1)	4.4 (4.3, 4.4)	4.8 (4.7, 4.9)	5.3 (5.2, 5.3)	5.7 (5.6, 5.8)

CPR	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs	17 Yrs
Dr A Bauze Sportsmed						
All Other Australian Hospitals	6.3 (6.2, 6.4)	6.9 (6.7, 7.0)	7.5 (7.4, 7.7)	8.1 (7.9, 8.2)	8.7 (8.5, 8.9)	9.3 (9.0, 9.5)

Table 7: Primary Diagnosis of Primary Total Conventional Hip Replacement by Surgeon

Primary Diagnosis	Dr A Bauze Sportsmed		All Other Australian Hospitals	
	Number	Percent	Number	Percent
Osteoarthritis	333	97.1	382274	88.3
Fractured Neck Of Femur			19956	4.6
Osteonecrosis	6	1.7	14064	3.2
Developmental Dysplasia	2	0.6	5425	1.3
Rheumatoid Arthritis	1	0.3	4111	0.9
Tumour			2425	0.6
Failed Internal Fixation	1	0.3	1892	0.4
Other Inflammatory Arthritis			1868	0.4
Fracture/Dislocation			542	0.1
Other			157	0.0
Arthrodesis Takedown			124	0.0
TOTAL	343	100.0	432838	100.0

TABLE 8

Reasons for Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each revision diagnosis as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of being revised for that diagnosis. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each diagnosis is expressed as a percentage of the total number of revisions. This shows the distribution of reasons for revision within a group but cannot be used as a comparison between groups.

Table 8: Revision Diagnosis of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal) (Follow-up Limited to 10.2 Years)

Revision Diagnosis	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
Loosening	1	0.3	14.3	3600	0.8	23.4
Prosthesis Dislocation	1	0.3	14.3	3589	0.8	23.3
Fracture	1	0.3	14.3	3043	0.7	19.8
Infection	4	1.2	57.1	2971	0.7	19.3
Pain				303	0.1	2.0
Leg Length Discrepancy				248	0.1	1.6
Malposition				225	0.1	1.5
Lysis				204	0.0	1.3
Instability				184	0.0	1.2
Implant Breakage Stem				149	0.0	1.0
Metal Related Pathology				145	0.0	0.9
Implant Breakage Acetabular Insert				116	0.0	0.8
Incorrect Sizing				109	0.0	0.7
Implant Breakage Acetabular				105	0.0	0.7
Wear Acetabular Insert				63	0.0	0.4
Wear Head				47	0.0	0.3
Implant Breakage Head				42	0.0	0.3
Tumour				26	0.0	0.2
Heterotopic Bone				24	0.0	0.2
Wear Acetabulum				9	0.0	0.1
Synovitis				3	0.0	0.0
Progression Of Disease				1	0.0	0.0
Other				191	0.0	1.2
N Revision	7	2.0	100.0	15397	3.6	100.0
N Primary	343			432838		

Note: This table is restricted to revisions within 10.2 years for all groups to allow a time-matched comparison of revisions.

TABLE 9

Type of Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each type of revision as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of having that type of revision. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each type of revision is expressed as a percentage of the total number of revisions. This shows the distribution of types of revision within a group but cannot be used as a comparison between groups.

Table 9: Type of Revision of Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal) (Follow-up Limited to 10.2 Years)

Type of Revision	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
Femoral Component	2	0.6	28.6	5098	1.2	33.1
Acetabular Component	1	0.3	14.3	3230	0.7	21.0
Head/Insert	3	0.9	42.9	3139	0.7	20.4
THR (Femoral/Acetabular)	1	0.3	14.3	1732	0.4	11.2
Head Only				789	0.2	5.1
Cement Spacer				687	0.2	4.5
Minor Components				265	0.1	1.7
Insert Only				180	0.0	1.2
Removal of Prostheses				105	0.0	0.7
Head/Neck/Insert				79	0.0	0.5
Head/Neck				57	0.0	0.4
Reinsertion of Components				19	0.0	0.1
Neck Only				6	0.0	0.0
Bipolar Only				4	0.0	0.0
Bipolar Head and Femoral				2	0.0	0.0
Total Femoral				2	0.0	0.0
Cement Only				1	0.0	0.0
Neck/Insert				1	0.0	0.0
Saddle				1	0.0	0.0
N Revision	7	2.0	100.0	15397	3.6	100.0
N Primary	343			432838		

Note: This table is restricted to revisions within 10.2 years for all groups to allow a time-matched comparison of revisions.

Table 10: Revision Rates of Primary Total Conventional Hip Replacement by Dr A Bauze at Sportsmed SA by Prosthesis Combination (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal)

Femoral Stem	Acetabular	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Corail	Duraloc*	0	4	37	0.00 (0.00, 9.95)
Corail	Elite Plus LPW	0	1	10	0.00 (0.00, 38.34)
Corail	Pinnacle	5	296	1284	0.39 (0.13, 0.91)
Exeter V40	Contemporary	0	1	8	0.00 (0.00, 48.80)
Exeter V40	Trident (Shell)	2	41	75	2.68 (0.32, 9.68)
TOTAL		7	343	1413	0.50 (0.20, 1.02)

*Denotes prosthesis identified by the AOAJRR as having a higher than anticipated rate of revision

Table 11: Revision Rates of Corail/Pinnacle Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	5	296	1284	0.39 (0.13, 0.91)
All Other Australian Hospitals	1482	45906	216989	0.68 (0.65, 0.72)
TOTAL	1500	46431	219744	0.68 (0.65, 0.72)

Table 12: Yearly Cumulative Percent Revision of Corail/Pinnacle Primary Total Conventional Hip Replacement by Surgeon (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	1.4 (0.5, 3.7)	1.8 (0.8, 4.4)	1.8 (0.8, 4.4)	1.8 (0.8, 4.4)	1.8 (0.8, 4.4)
All Other Australian Hospitals	1.7 (1.6, 1.8)	2.2 (2.1, 2.4)	2.6 (2.5, 2.8)	2.9 (2.8, 3.1)	3.3 (3.1, 3.5)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs
Dr A Bauze Sportsmed	1.8 (0.8, 4.4)	1.8 (0.8, 4.4)			
All Other Australian Hospitals	3.6 (3.4, 3.8)	4.0 (3.7, 4.2)	4.4 (4.1, 4.6)	4.9 (4.6, 5.2)	5.3 (4.9, 5.7)

CPR	11 Yrs	12 Yrs	13 Yrs	14 Yrs	15 Yrs
Dr A Bauze Sportsmed					
All Other Australian Hospitals	5.6 (5.2, 6.1)	5.9 (5.4, 6.5)	6.2 (5.6, 7.0)	6.7 (5.8, 7.7)	6.7 (5.8, 7.7)

A number of different funnel plots are presented, each reflecting a different outcome of interest. Each dot on the funnel plot represents an individual surgeon's proportion of revisions against the number of procedures they have undertaken. This analysis has been adjusted for age and gender.

You are represented by the green diamond ◆

The green line represents the average performance for all surgeons)). The orange and red lines represent the 95% and 99.7% upper confidence limits. Surgeons above the red line have a higher than expected proportion of revisions. The results should be interpreted with caution when the total number of procedures you have undertaken is small.

Figure 5: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Any Reason)

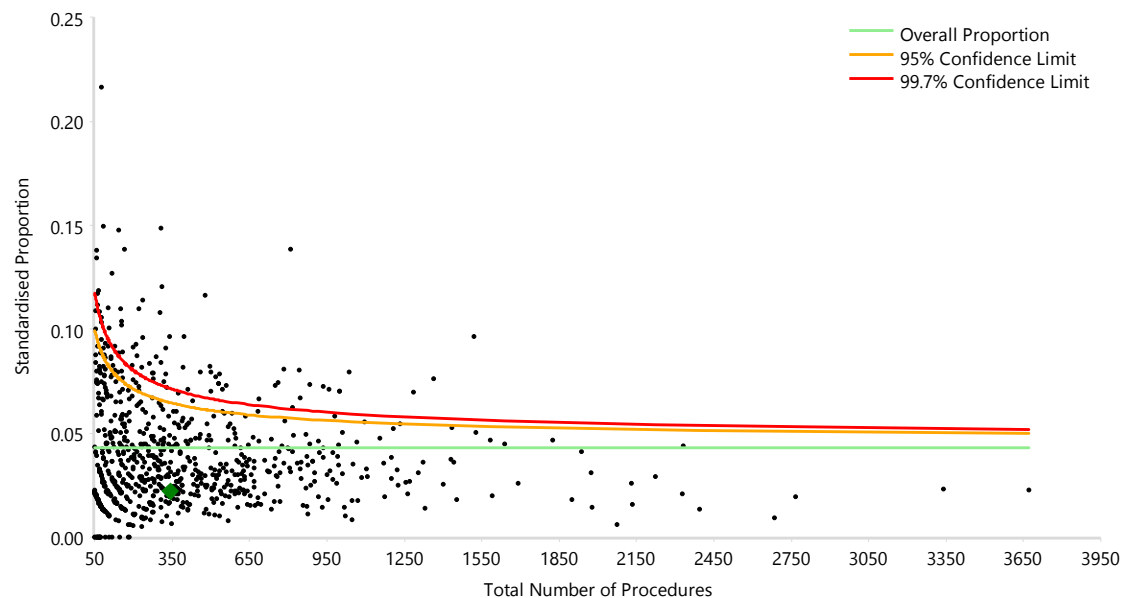


Figure 6: Funnel Plot of Primary Total Conventional Hip Replacement performed from 1 January 2013 (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Any Reason)

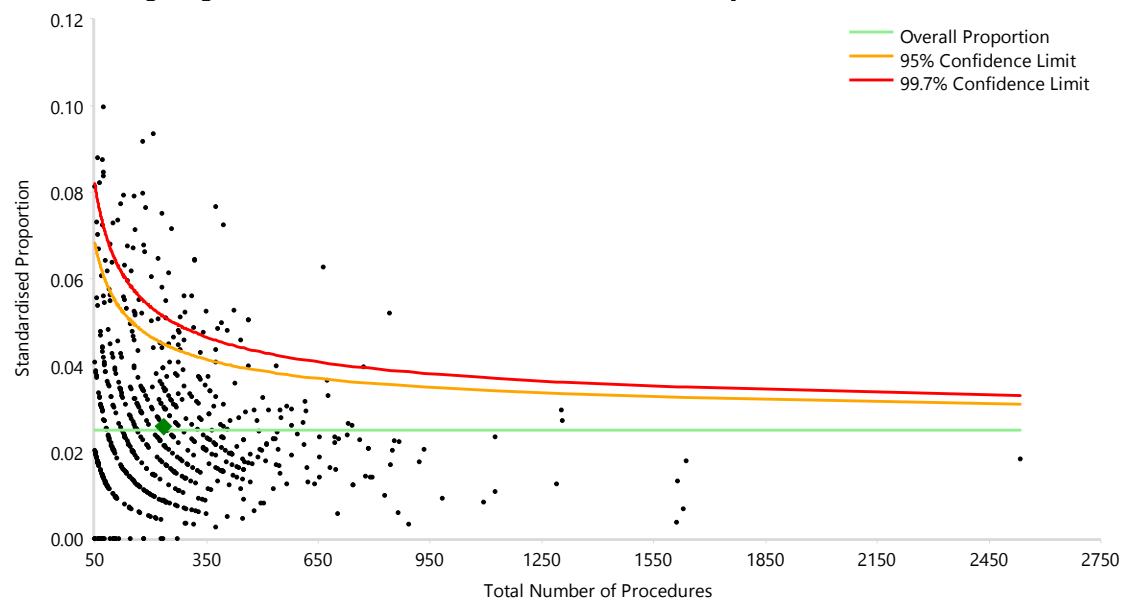


Figure 7: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Any Reason Within 2 Year)

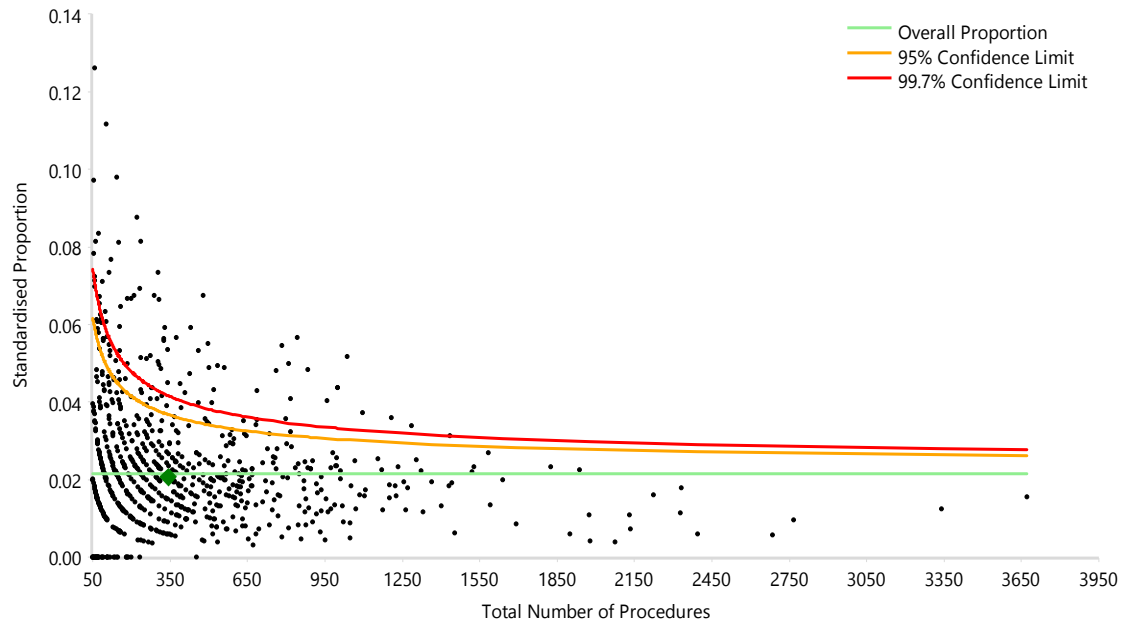


Figure 8: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Loosening Within 2 Years)

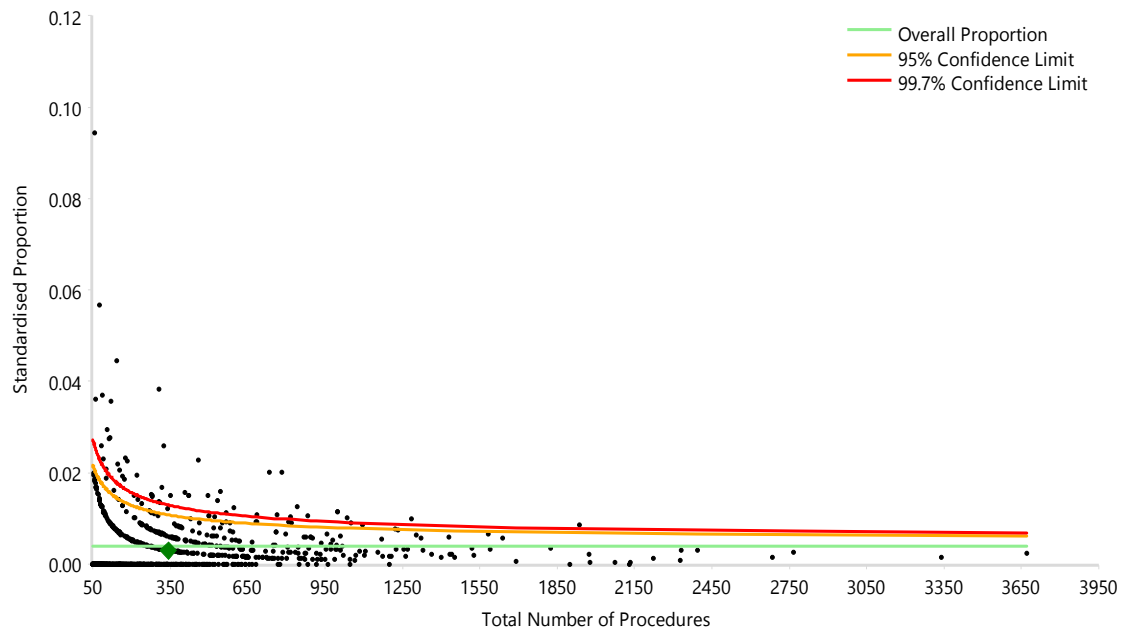


Figure 9: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Prosthesis Dislocation Within 2 Years)

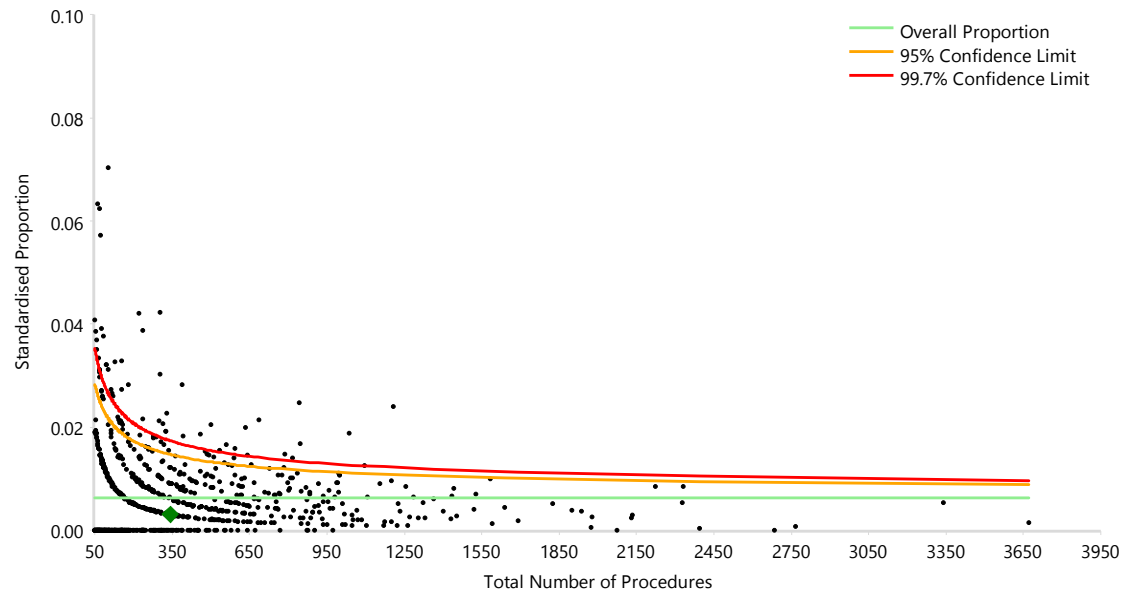


Figure 10: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Fracture Within 2 Years)

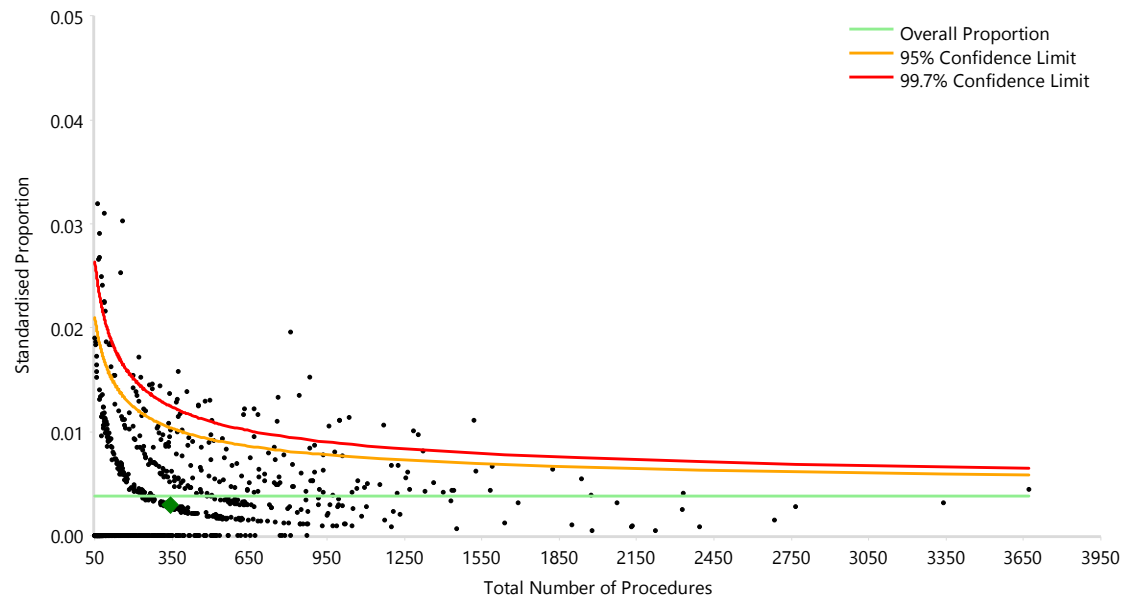
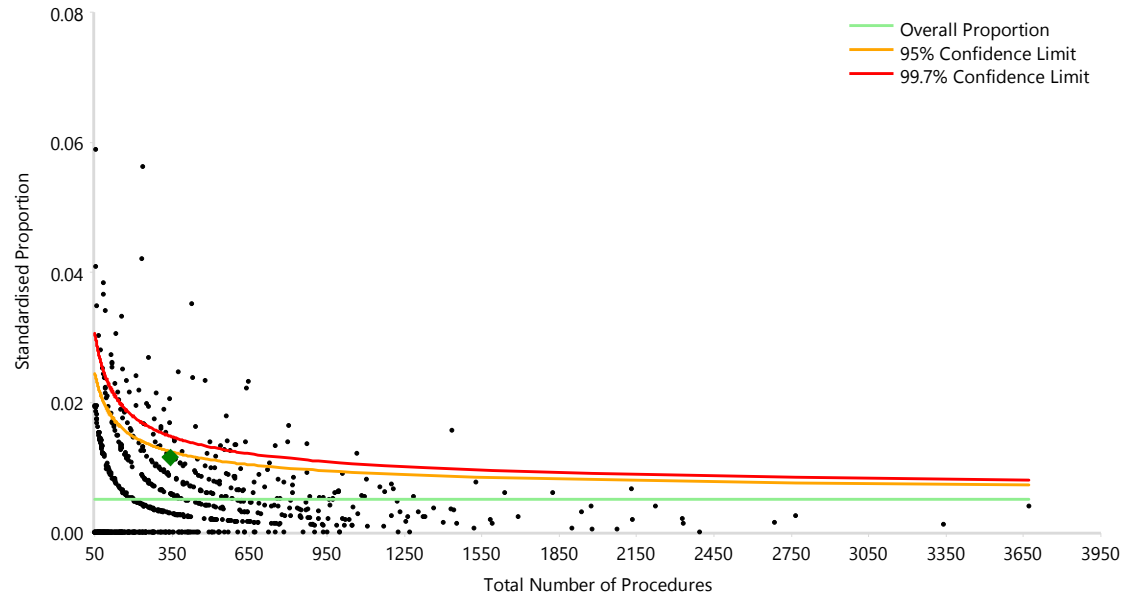


Figure 11: Funnel Plot of Primary Total Conventional Hip Replacement (All Diagnoses, Excluding Large Head (>32mm) Metal/Metal, Revision for Infection Within 2 Years)



Primary Knee Replacement

Patella/Trochlear Knee Replacement

Table 17: Revision Rates of Primary Patella/Trochlear Knee Replacement by Surgeon (All Diagnoses)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	0	2	5	0.00 (0.00, 81.71)
All Other Australian Hospitals	643	3545	20965	3.07 (2.83, 3.31)
TOTAL	758	3871	23633	3.21 (2.98, 3.44)

Table 18: Primary Diagnosis of Primary Patella/Trochlear Knee Replacement by Surgeon

Primary Diagnosis	Dr A Bauze Sportsmed		All Other Australian Hospitals	
	Number	Percent	Number	Percent
Osteoarthritis	2	100.0	3505	98.9
Other Inflammatory Arthritis			17	0.5
Other			10	0.3
Rheumatoid Arthritis			9	0.3
Fracture			2	0.1
Osteonecrosis			2	0.1
TOTAL	2	100.0	3545	100.0

Table 19: Revision Rates of Primary Patella/Trochlear Knee Replacement by Dr A Bauze at Sportsmed SA by Prosthesis Combination (All Diagnoses)

Patella	Trochlear	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Avon	Avon	0	2	5	0.00 (0.00, 81.71)
TOTAL		0	2	5	0.00 (0.00, 81.71)

Unicompartmental Knee Replacement

Table 21: Revision Rates of Primary Unicompartmental Knee Replacement by Surgeon (All Diagnoses)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	2	42	232	0.86 (0.10, 3.11)
All Other Australian Hospitals	6757	53746	415372	1.63 (1.59, 1.67)
TOTAL	7133	55991	437739	1.63 (1.59, 1.67)

Table 22: Yearly Cumulative Percent Revision of Primary Unicompartmental Knee Replacement by Surgeon (All Diagnoses)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	0.0 (0.0, 0.0)	5.0 (1.3, 18.5)	5.0 (1.3, 18.5)	5.0 (1.3, 18.5)	5.0 (1.3, 18.5)
All Other Australian Hospitals	2.2 (2.0, 2.3)	4.1 (3.9, 4.3)	5.5 (5.3, 5.7)	6.6 (6.4, 6.9)	7.8 (7.5, 8.0)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs	11 Yrs
Dr A Bauze Sportsmed	5.0 (1.3, 18.5)	5.0 (1.3, 18.5)	5.0 (1.3, 18.5)			
All Other Australian Hospitals	8.9 (8.7, 9.2)	10.2 (9.9, 10.5)	11.5 (11.2, 11.8)	12.9 (12.6, 13.3)	14.4 (14.0, 14.8)	15.8 (15.4, 16.2)

CPR	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs	17 Yrs
Dr A Bauze Sportsmed						
All Other Australian Hospitals	17.2 (16.8, 17.7)	18.7 (18.3, 19.2)	20.3 (19.8, 20.8)	21.9 (21.3, 22.5)	23.5 (22.8, 24.2)	25.1 (24.3, 26.0)

Table 23: Primary Diagnosis of Primary Unicompartmental Knee Replacement by Surgeon

Primary Diagnosis	Dr A Bauze Sportsmed		All Other Australian Hospitals	
	Number	Percent	Number	Percent
Osteoarthritis	42	100.0	53212	99.0
Osteonecrosis			341	0.6
Rheumatoid Arthritis			136	0.3
Other Inflammatory Arthritis			47	0.1
Osteochondritis Dissecans			6	0.0
Fracture			3	0.0
Other			1	0.0
Tumour				
TOTAL	42	100.0	53746	100.0

TABLE 24

Reasons for Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each revision diagnosis as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of being revised for that diagnosis. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each diagnosis is expressed as a percentage of the total number of revisions. This shows the distribution of reasons for revision within a group but cannot be used as a comparison between groups.

Table 24: Revision Diagnosis of Primary Unicompartmental Knee Replacement by Surgeon (All Diagnoses) (Follow-up Limited to 9.8 Years)

Revision Diagnosis	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
Loosening	1	2.4	50.0	2231	4.2	40.5
Progression Of Disease	1	2.4	50.0	1619	3.0	29.4
Pain				507	0.9	9.2
Infection				247	0.5	4.5
Fracture				146	0.3	2.6
Bearing Dislocation				131	0.2	2.4
Lysis				124	0.2	2.3
Malalignment				70	0.1	1.3
Instability				67	0.1	1.2
Wear Tibial Insert				66	0.1	1.2
Wear Tibial				42	0.1	0.8
Patellofemoral Pain				40	0.1	0.7
Incorrect Sizing				36	0.1	0.7
Implant Breakage Tibial				34	0.1	0.6
Osteonecrosis				32	0.1	0.6
Prosthesis Dislocation				21	0.0	0.4
Synovitis				15	0.0	0.3
Implant Breakage Tibial Insert				13	0.0	0.2
Arthrofibrosis				12	0.0	0.2
Implant Breakage Femoral				11	0.0	0.2
Metal Related Pathology				8	0.0	0.1
Patella Erosion				3	0.0	0.1
Wear Femoral				3	0.0	0.1
Heterotopic Bone				1	0.0	0.0
Incorrect Side				1	0.0	0.0
Tumour				1	0.0	0.0
Other				30	0.1	0.5
N Revision	2	4.8	100.0	5511	10.3	100.0
N Primary	42			53746		

Note: This table is restricted to revisions within 9.8 years for all groups to allow a time-matched comparison of revisions.

TABLE 25

Type of Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each type of revision as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of having that type of revision. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each type of revision is expressed as a percentage of the total number of revisions. This shows the distribution of types of revision within a group but cannot be used as a comparison between groups.

Table 25: Type of Revision of Primary Unicompartmental Knee Replacement by Surgeon (All Diagnoses) (Follow-up Limited to 9.8 Years)

Type of Revision	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
TKR (Tibial/Femoral)	2	4.8	100.0	4707	8.8	85.4
Uni Insert Only				387	0.7	7.0
Uni Tibial Component				198	0.4	3.6
Uni Femoral Component				68	0.1	1.2
UKR (Uni Tibial/Uni Femoral)				67	0.1	1.2
Cement Spacer				50	0.1	0.9
Patella/Trochlear Resurfacing				13	0.0	0.2
Removal of Prostheses				8	0.0	0.1
Reinsertion of Components				6	0.0	0.1
Femoral Component				3	0.0	0.1
Patella Only				3	0.0	0.1
Cement Only						
Tibial Component				1	0.0	0.0
N Revision	2	4.8	100.0	5511	10.3	100.0
N Primary	42			53746		

Note: This table is restricted to revisions within 9.8 years for all groups to allow a time-matched comparison of revisions.

Table 26: Revision Rates of Primary Unicompartmental Knee Replacement by Dr A Bauze at Sportsmed SA by Prosthesis Combination (All Diagnoses)

Femoral	Tibial	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Journey Uni	Journey Uni All Poly	2	9	16	12.56 (1.52, 45.36)
Oxford	Oxford	0	33	216	0.00 (0.00, 1.70)
TOTAL		2	42	232	0.86 (0.10, 3.11)

Total Knee Replacement

Table 29: Revision Rates of Primary Total Knee Replacement by Surgeon (All Diagnoses)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	4	373	1418	0.28 (0.08, 0.72)
All Other Australian Hospitals	24331	640781	4024934	0.60 (0.60, 0.61)
TOTAL	24943	648913	4085112	0.61 (0.60, 0.62)

Table 30: Yearly Cumulative Percent Revision of Primary Total Knee Replacement by Surgeon (All Diagnoses)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	0.6 (0.1, 2.3)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)
All Other Australian Hospitals	1.0 (1.0, 1.0)	2.0 (2.0, 2.0)	2.6 (2.6, 2.7)	3.1 (3.1, 3.1)	3.5 (3.4, 3.5)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs	11 Yrs
Dr A Bauze Sportsmed	1.8 (0.6, 5.2)	1.8 (0.6, 5.2)				
All Other Australian Hospitals	3.8 (3.8, 3.9)	4.2 (4.1, 4.2)	4.5 (4.4, 4.6)	4.9 (4.8, 4.9)	5.2 (5.1, 5.3)	5.6 (5.5, 5.6)

CPR	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs	17 Yrs
Dr A Bauze Sportsmed						
All Other Australian Hospitals	6.0 (5.9, 6.0)	6.3 (6.2, 6.4)	6.7 (6.6, 6.8)	7.2 (7.0, 7.3)	7.6 (7.4, 7.8)	8.0 (7.8, 8.2)

Table 31: Primary Diagnosis of Primary Total Knee Replacement by Surgeon

Primary Diagnosis	Dr A Bauze Sportsmed		All Other Australian Hospitals	
	Number	Percent	Number	Percent
Osteoarthritis	368	98.7	625717	97.6
Rheumatoid Arthritis	4	1.1	8351	1.3
Other Inflammatory Arthritis	1	0.3	3228	0.5
Osteonecrosis			2048	0.3
Tumour			790	0.1
Fracture			452	0.1
Other			176	0.0
Chondrocalcinosis			17	0.0
Osteochondritis Dissecans			2	0.0
TOTAL	373	100.0	640781	100.0

TABLE 32

Reasons for Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each revision diagnosis as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of being revised for that diagnosis. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each diagnosis is expressed as a percentage of the total number of revisions. This shows the distribution of reasons for revision within a group but cannot be used as a comparison between groups.

Table 32: Revision Diagnosis of Primary Total Knee Replacement by Surgeon (All Diagnoses) (Follow-up Limited to 10.6 Years)

Revision Diagnosis	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
Loosening	1	0.3	25.0	5638	0.9	24.6
Infection	3	0.8	75.0	5613	0.9	24.5
Patellofemoral Pain				2340	0.4	10.2
Pain				1943	0.3	8.5
Instability				1869	0.3	8.1
Patella Erosion				1208	0.2	5.3
Arthrofibrosis				845	0.1	3.7
Fracture				673	0.1	2.9
Malalignment				512	0.1	2.2
Lysis				349	0.1	1.5
Wear Tibial Insert				306	0.0	1.3
Metal Related Pathology				274	0.0	1.2
Incorrect Sizing				273	0.0	1.2
Patella Maltracking				172	0.0	0.7
Bearing Dislocation				161	0.0	0.7
Implant Breakage Patella				125	0.0	0.5
Implant Breakage Tibial Insert				107	0.0	0.5
Prosthesis Dislocation				70	0.0	0.3
Synovitis				63	0.0	0.3
Osteonecrosis				52	0.0	0.2
Implant Breakage Tibial				49	0.0	0.2
Implant Breakage Femoral				29	0.0	0.1
Tumour				23	0.0	0.1
Wear Patella				23	0.0	0.1
Wear Tibial				10	0.0	0.0
Heterotopic Bone				7	0.0	0.0
Incorrect Side				2	0.0	0.0
Wear Femoral				2	0.0	0.0
Patella Dislocation				1	0.0	0.0
Progression Of Disease				1	0.0	0.0
Other				214	0.0	0.9
N Revision	4	1.1	100.0	22954	3.6	100.0
N Primary	373			640781		

Note: This table is restricted to revisions within 10.6 years for all groups to allow a time-matched comparison of revisions.

TABLE 33

Type of Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each type of revision as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of having that type of revision. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each type of revision is expressed as a percentage of the total number of revisions. This shows the distribution of types of revision within a group but cannot be used as a comparison between groups.

Table 33: Type of Revision of Primary Total Knee Replacement by Surgeon (All Diagnoses) (Follow-up Limited to 10.6 Years)

Type of Revision	Dr A Bauze Sportsmed			All Other Australian Hospitals		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
TKR (Tibial/Femoral)				5651	0.9	24.6
Insert Only	1	0.3	25.0	5443	0.8	23.7
Patella Only				4611	0.7	20.1
Insert/Patella				2238	0.3	9.7
Tibial Component	1	0.3	25.0	2137	0.3	9.3
Femoral Component	1	0.3	25.0	1354	0.2	5.9
Cement Spacer	1	0.3	25.0	1294	0.2	5.6
Removal of Prostheses				135	0.0	0.6
Minor Components				58	0.0	0.3
Total Femoral				13	0.0	0.1
Cement Only				11	0.0	0.0
Reinsertion of Components				9	0.0	0.0
N Revision	4	1.1	100.0	22954	3.6	100.0
N Primary	373			640781		

Note: This table is restricted to revisions within 10.6 years for all groups to allow a time-matched comparison of revisions.

Table 34: Revision Rates of Primary Total Knee Replacement by Dr A Bauze at Sportsmed SA by Prosthesis Combination (All Diagnoses)

Femoral	Tibial	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
LCS CR	MBT	4	372	1413	0.28 (0.08, 0.72)
LCS PS*	MBT	0	1	5	0.00 (0.00, 74.11)
TOTAL		4	373	1418	0.28 (0.08, 0.72)

*Denotes prosthesis identified by the AOANJRR as having a higher than anticipated rate of revision

Table 35: Revision Rates of LCS CR/MBT Primary Total Knee Replacement by Surgeon (All Diagnoses)

Surgeon	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Dr A Bauze Sportsmed	4	372	1413	0.28 (0.08, 0.72)
All Other Australian Hospitals	1013	27294	176928	0.57 (0.54, 0.61)
TOTAL	1091	30008	193554	0.56 (0.53, 0.60)

Table 36: Yearly Cumulative Percent Revision of LCS CR/MBT Primary Total Knee Replacement by Surgeon (All Diagnoses)

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs
Dr A Bauze Sportsmed	0.6 (0.1, 2.3)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)	0.9 (0.3, 2.9)
All Other Australian Hospitals	0.9 (0.8, 1.0)	1.9 (1.8, 2.1)	2.7 (2.5, 2.9)	3.1 (2.9, 3.3)	3.5 (3.3, 3.8)

CPR	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs
Dr A Bauze Sportsmed	1.8 (0.6, 5.2)	1.8 (0.6, 5.2)			
All Other Australian Hospitals	3.9 (3.6, 4.1)	4.2 (3.9, 4.4)	4.5 (4.2, 4.8)	4.6 (4.3, 4.9)	4.9 (4.6, 5.3)

CPR	11 Yrs	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs
Dr A Bauze Sportsmed						
All Other Australian Hospitals	5.1 (4.8, 5.5)	5.3 (4.9, 5.6)	5.4 (5.0, 5.8)	5.6 (5.2, 6.1)	5.8 (5.3, 6.4)	6.2 (5.5, 7.0)

A number of different funnel plots are presented, each reflecting a different outcome of interest. Each dot on the funnel plot represents an individual surgeon's proportion of revisions against the number of procedures they have undertaken. This analysis has been adjusted for age and gender.

You are represented by the green diamond ◆

The green line represents the average performance for all surgeons)). The orange and red lines represent the 95% and 99.7% upper confidence limits. Surgeons above the red line have a higher than expected proportion of revisions. The results should be interpreted with caution when the total number of procedures you have undertaken is small.

Figure 16: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Any Reason)

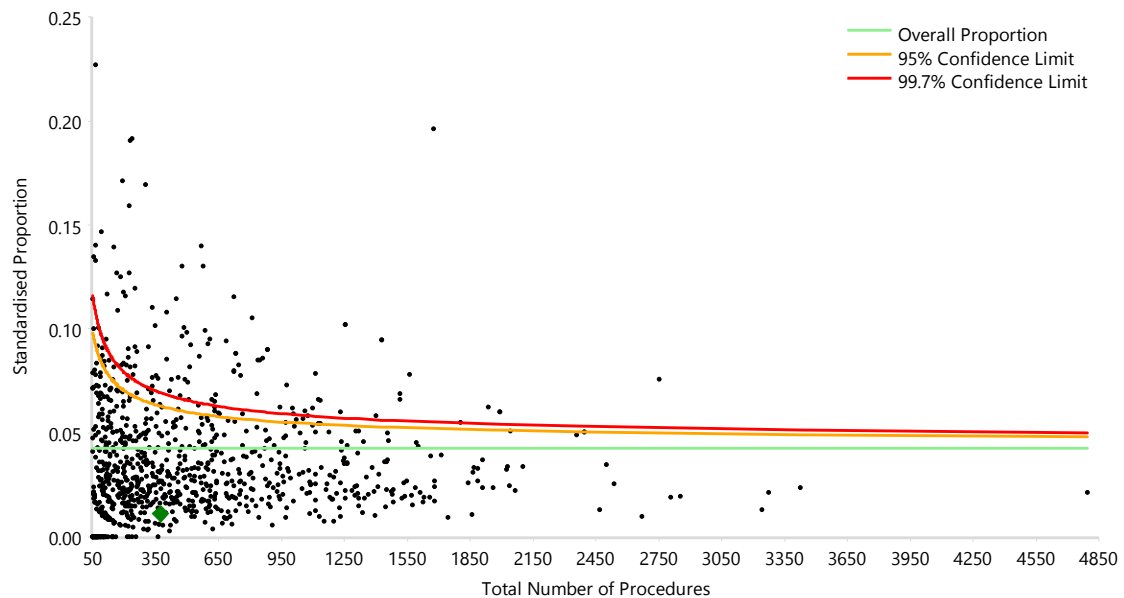


Figure 17: Funnel Plot of Primary Total Knee Replacement performed from 1 January 2013 (All Diagnoses, Revision for Any Reason)

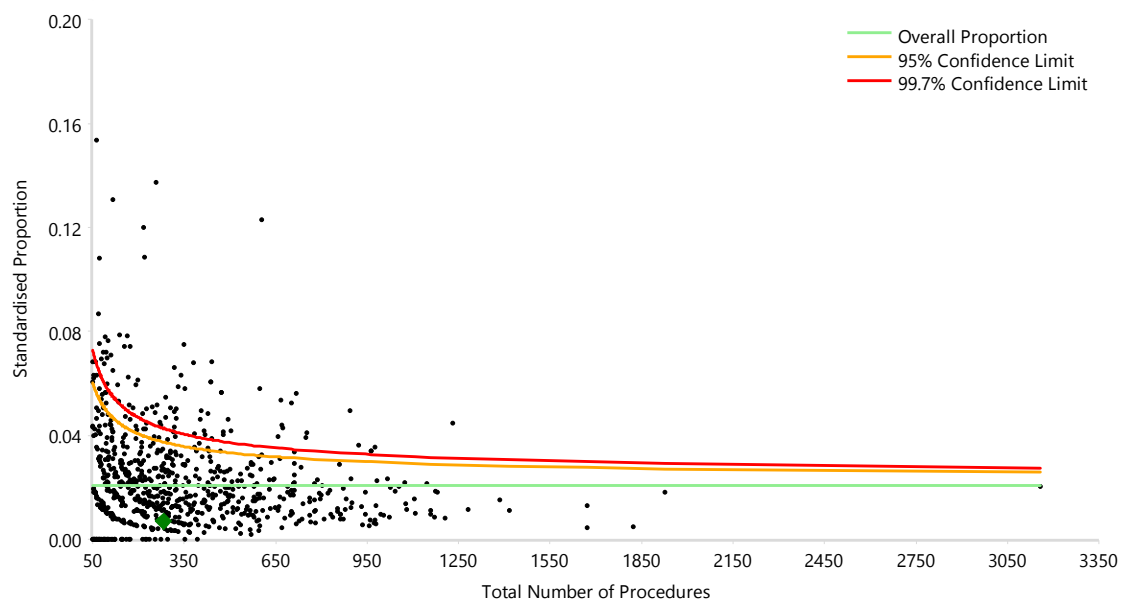


Figure 18: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Any Reason Within 2 Year)

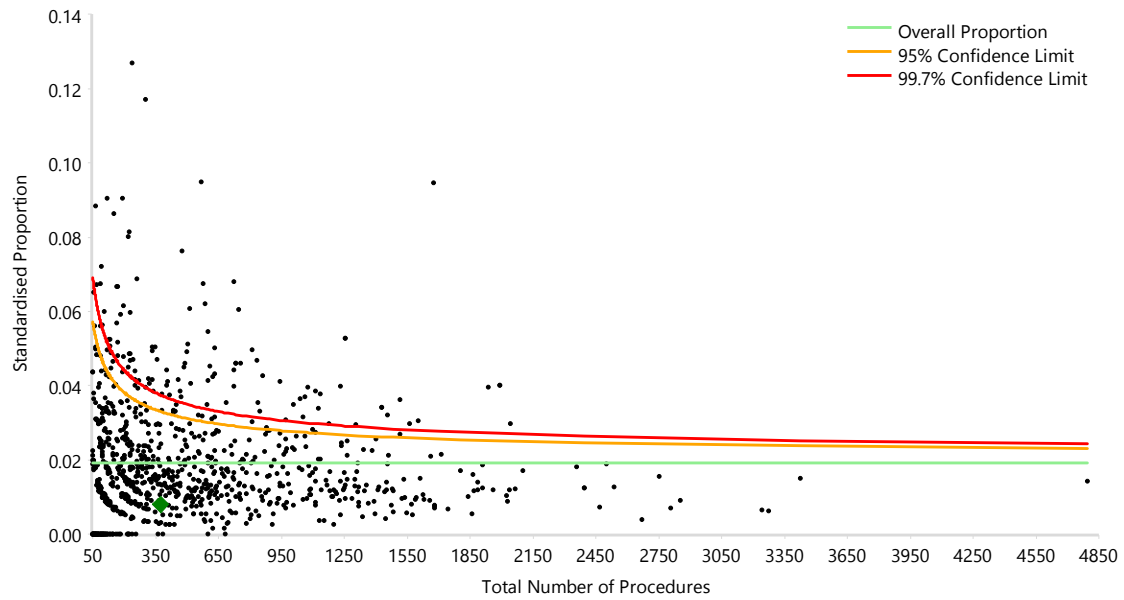


Figure 19: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Loosening Within 2 Years)

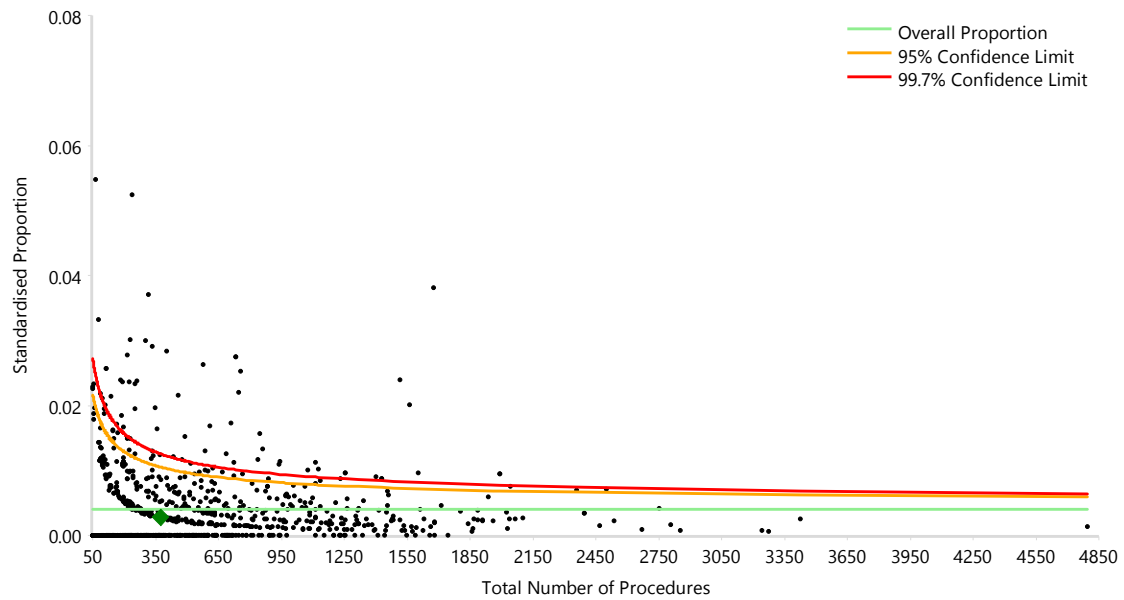


Figure 20: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Infection Within 2 Years)

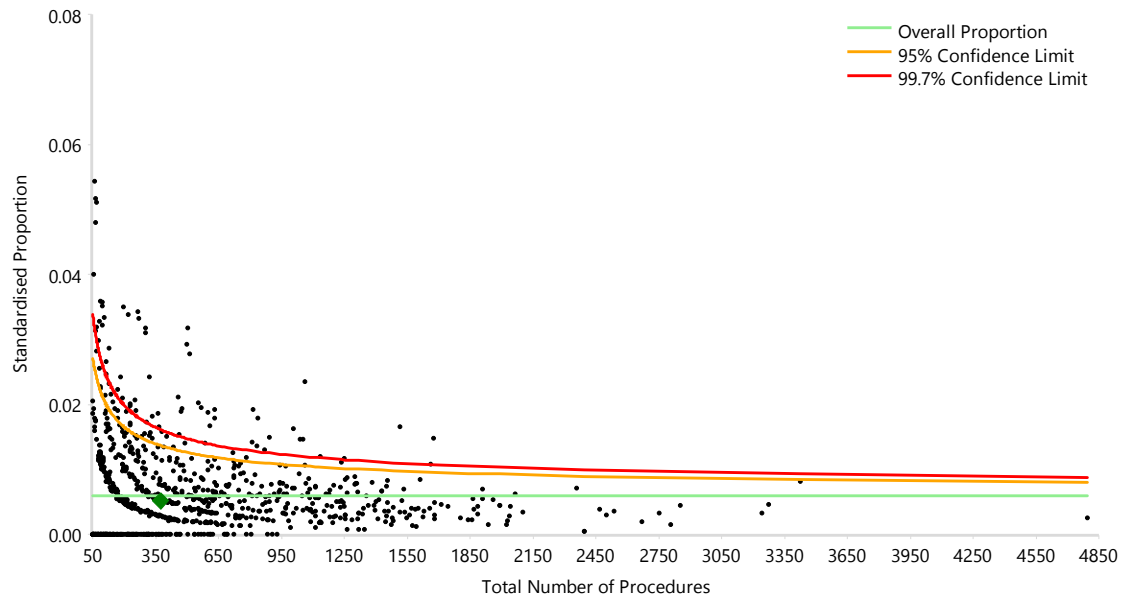


Figure 21: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Patellofemoral Pain Within 2 Years)

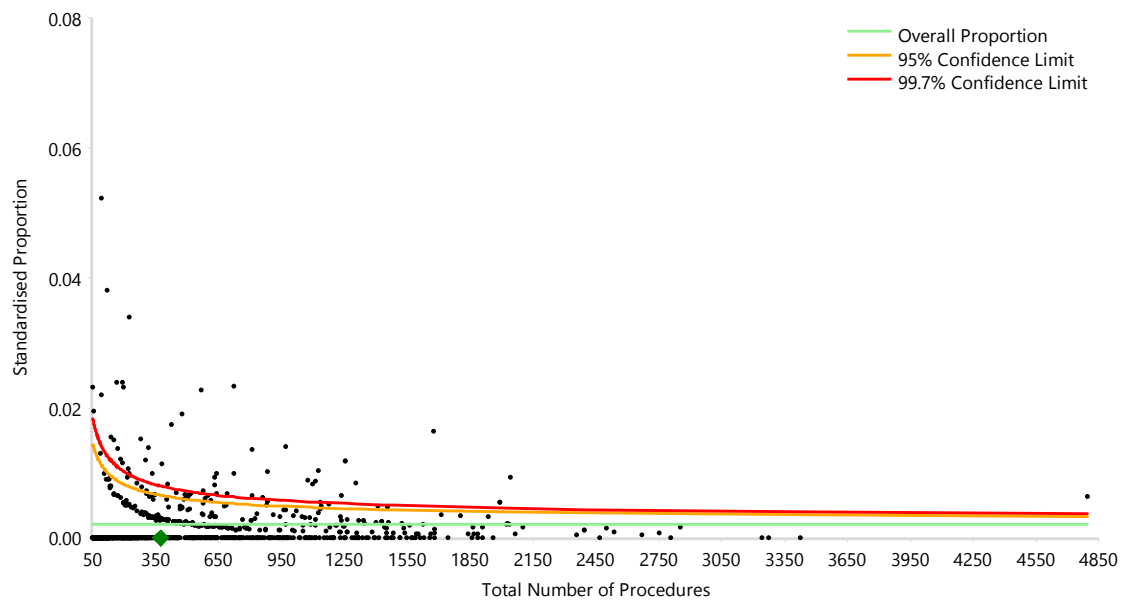


Figure 22: Funnel Plot of Primary Total Knee Replacement (All Diagnoses, Revision for Pain Within 2 Years)

