

Demographics of Hip and Knee Arthroplasty



**SUPPLEMENTARY REPORT
2009**



National Joint Replacement Registry

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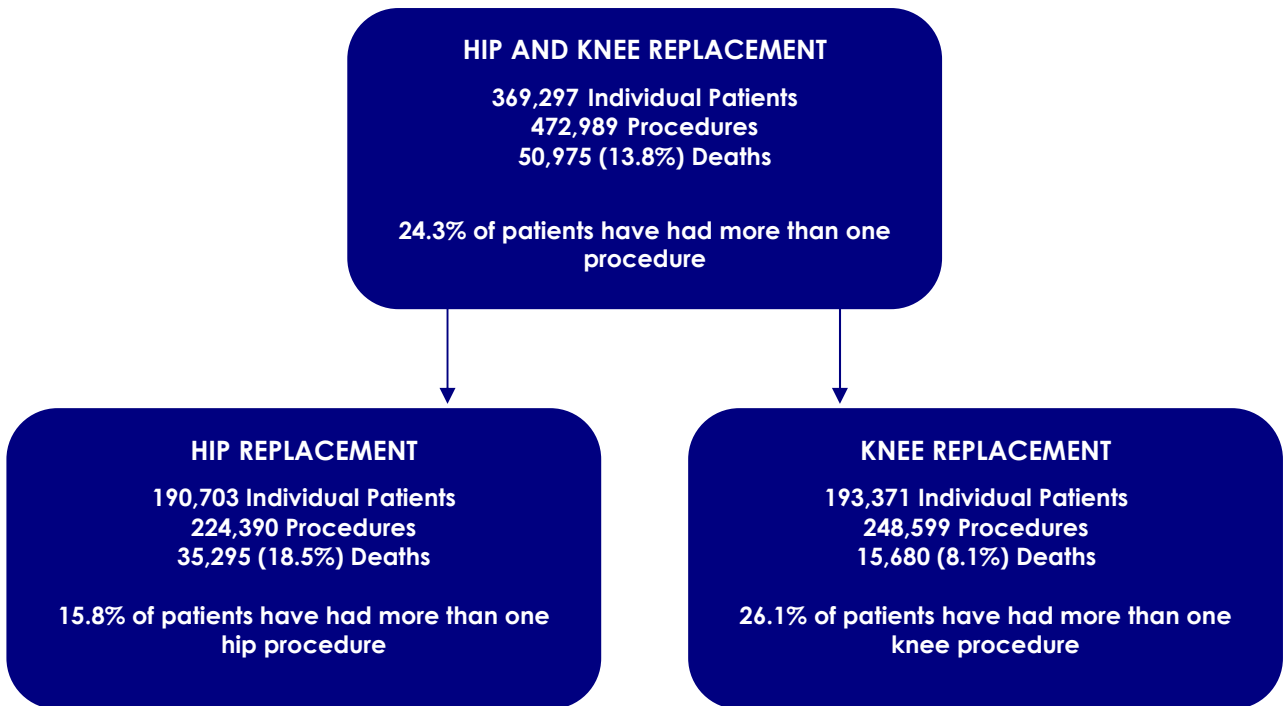
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NUMBER OF PATIENTS AND PROCEDURES RECORDED BY THE NJRR

1 September 1999 to 31 December 2008



BILATERAL HIP AND KNEE REPLACEMENT

Table SB1: Time between Procedures for Bilateral Primary Hip Replacement

Bilateral Procedures	Same Day		1day-6wks		6wks-6mths		6mths-3yrs		≥3yrs		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Both - Conv. Total	759	3.6	296	1.4	3832	18.3	9057	43.3	3482	16.6	17426	83.3
Both - Total Resurf.	262	1.3	63	0.3	274	1.3	732	3.5	273	1.3	1604	7.7
Both - Monoblock	9	0.0	36	0.2	105	0.5	213	1.0	65	0.3	428	2.0
Total Resurf.& Conv. Total	11	0.1	5	0.0	18	0.1	166	0.8	180	0.9	380	1.8
Both - Unip.Modular	5	0.0	18	0.1	50	0.2	74	0.4	21	0.1	168	0.8
Bipolar & Conv. Total	2	0.0	3	0.0	19	0.1	80	0.4	47	0.2	151	0.7
Both - Bipolar	.	.	15	0.1	36	0.2	94	0.4	28	0.1	173	0.8
Unip.Modular & Conv. Total	.	.	1	0.0	19	0.1	70	0.3	46	0.2	136	0.7
Monoblock & Unip.Modular	.	.	8	0.0	23	0.1	70	0.3	24	0.1	125	0.6
Unip.Modular & Bipolar	.	.	3	0.0	18	0.1	48	0.2	33	0.2	102	0.5
Monoblock & Bipolar	.	.	4	0.0	20	0.1	51	0.2	22	0.1	97	0.5
Monoblock & Conv. Total	.	.	2	0.0	10	0.0	40	0.2	37	0.2	89	0.4
Both - Thrust Plate	1	0.0	.	.	8	0.0	14	0.1	6	0.0	29	0.1
Conv. Total & Thrust Plate	.	.	.	.	.	.	2	0.0	2	0.0	4	0.0
Unip.Modular & Total Resurf.	.	.	.	.	1	0.0	1	0.0	.	.	2	0.0
Bipolar & Total Resurf.	.	.	1	0.0	.	.	.	.	.	.	1	0.0
Partial Resurf.& Conv. Total	.	.	.	.	.	.	1	0.0	.	.	1	0.0
TOTAL	1049	5.0	455	2.2	4433	21.2	10713	51.2	4266	20.4	20916	100.0

Table SB2: Time between Procedures for Bilateral Primary Knee Replacement

Bilateral Procedures	Same Day		1day-6wks		6wks-6mths		6mths-3yrs		≥3yrs		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Both - TKR	8238	19.5	588	1.4	4788	11.3	16682	39.5	5221	12.4	35517	84.1
Both - UKR	1771	4.2	101	0.2	542	1.3	1345	3.2	470	1.1	4229	10.0
UKR & TKR	208	0.5	16	0.0	119	0.3	1014	2.4	779	1.8	2136	5.1
Both - Patella/Trochlear	144	0.3	9	0.0	26	0.1	44	0.1	7	0.0	230	0.5
Patella/Trochlear & TKR	6	0.0	1	0.0	1	0.0	35	0.1	27	0.1	70	0.2
Bicompartmental & TKR	6	0.0	.	.	.	.	3	0.0	2	0.0	11	0.0
Patella/Trochlear & UKR	1	0.0	.	.	.	.	7	0.0	1	0.0	9	0.0
Both - Bicompartmental	7	0.0	1	0.0	1	0.0	.	.	.	.	9	0.0
Both - Partial Resurfacing	1	0.0	.	.	2	0.0	1	0.0	.	.	4	0.0
UKR & Bicompartmental	1	0.0	.	.	.	.	1	0.0	2	0.0	4	0.0
Unispacer & UKR	.	.	.	.	1	0.0	3	0.0	.	.	4	0.0
Unispacer & TKR	.	.	.	.	1	0.0	.	.	1	0.0	2	0.0
Partial Resurfacing & TKR	.	.	.	.	1	0.0	1	0.0	.	.	2	0.0
Partial Resurfacing & UKR	.	.	.	.	.	.	2	0.0	.	.	2	0.0
Patella/Trochlear & Bicompartmental	1	0.0	.	.	.	.	.	.	.	.	1	0.0
TOTAL	10384	24.6	716	1.7	5482	13.0	19138	45.3	6510	15.4	42230	100.0

HIP REPLACEMENT

Table SHG1: Number of Hip Replacements by Gender

Hip Replacement	Female		Male		TOTAL	
	N	%	N	%	N	%
Partial Resurfacing	2	20.0	8	80.0	10	0.0
Monoblock	13487	74.2	4698	25.8	18185	48.9
Unipolar Modular	7223	72.7	2718	27.3	9941	26.7
Bipolar	6607	73.1	2426	26.9	9033	24.3
TOTAL	27319	73.5	9850	26.5	37169	100.0
Total Resurfacing	3197	26.4	8896	73.6	12093	7.6
Conventional Total	81696	55.4	65726	44.6	147422	92.3
Thrust Plate	56	29.3	135	70.7	191	0.1
TOTAL	84949	53.2	74757	46.8	159706	100.0
Revision	14825	53.9	12690	46.1	27515	100.0
TOTAL	127093	56.6	97297	43.4	224390	100.0

Figure SHG1: Hip Replacement by Gender

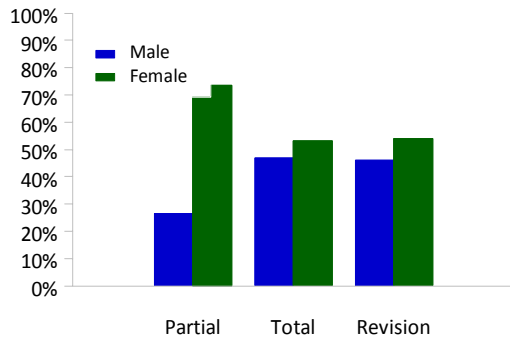


Figure SHG2: Hip Replacement by Age and Gender

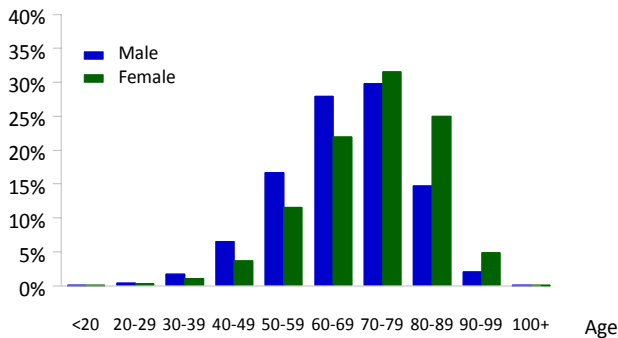


Table SHG2: Age by Gender for All Hip Replacement

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	127093	56.6	13	107	73	71.8	12.5
Male	97297	43.4	13	107	68	67.4	12.5
TOTAL	224390	100.0	13	107	71	69.9	12.7

PRIMARY PARTIAL HIP REPLACEMENT

Table SHG3-P: Primary Partial Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	27319	73.5	17	107	83	82.1	8.7
Male	9850	26.5	17	107	82	80.7	9.6
TOTAL	37169	100.0	17	107	83	81.7	8.9

Figure SHG3-P: Primary by Age and Gender

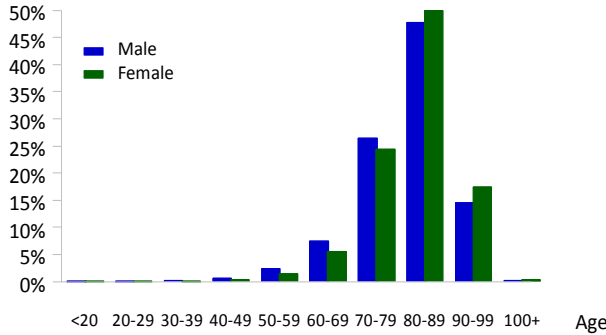


Table SHG3-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Fractured Neck Of Femur	34902	93.9
Osteoarthritis	1292	3.5
Tumour	532	1.4
Failed Internal Fixation	235	0.6
Avascular Necrosis	140	0.4
Rheumatoid Arthritis	28	0.1
Developmental Dysplasia	23	0.1
Other	17	0.0
TOTAL	37169	100.0

Revision of Known Primary Partial Hip Replacement

Table SHG3-R: Revision of Known Primary Partial Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	864	72.2	30	98	80	79.5	8.5
Male	332	27.8	20	99	81	78.2	10.6
TOTAL	1196	100.0	20	99	80	79.1	9.1

Figure SHG3-R: Revision by Age and Gender

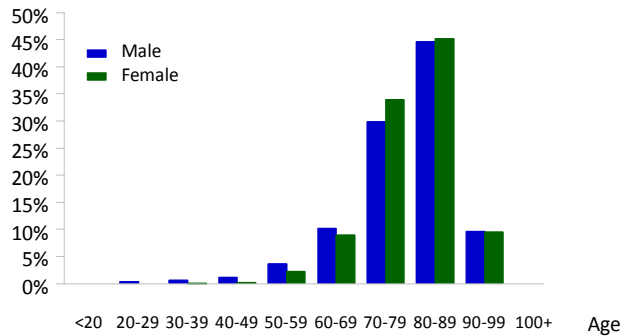


Table SHG3-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	449	37.5
Fracture	226	18.9
Dislocation Of Prosthesis	165	13.8
Infection	157	13.1
Pain	111	9.3
Chondrolysis/Acetab. Erosion	36	3.0
Other	12	1.0
Malposition	9	0.8
Progression Of Disease	9	0.8
Implant Breakage Stem	7	0.6
Incorrect Sizing	6	0.5
Heterotopic Bone	3	0.3
Wear Acetabulum	3	0.3
Instability	1	0.1
Tumour	1	0.1
Leg Length Discrepancy	1	0.1
TOTAL	1196	100.0

Primary Partial Resurfacing Hip Replacement

Table SHG4-P: Primary Partial Resurfacing Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	2	20.0	17	53	35	35.0	25.5
Male	8	80.0	18	34	26	26.0	5.9
TOTAL	10	100.0	17	53	26	27.8	10.7

Figure SHG4-P: Primary by Age and Gender

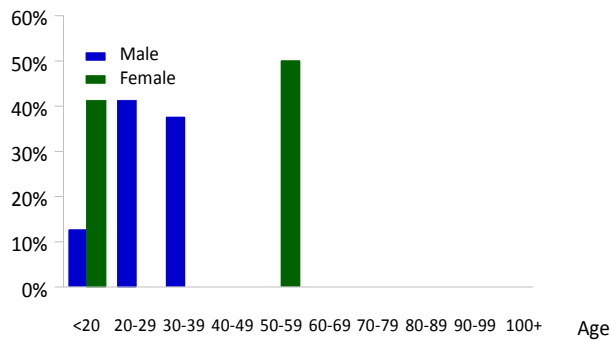


Table SHG4-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Avascular Necrosis	5	50.0
Osteoarthritis	3	30.0
Other	1	10.0
Fractured Neck Of Femur	1	10.0
TOTAL	10	100.0

Revision of Known Primary Partial Resurfacing Hip Replacement

Table SHG4-R: Revision of Known Primary Partial Resurfacing Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Male	2	100.0	32	36	34	34.0	2.8
TOTAL	2	100.0	32	36	34	34.0	2.8

Figure SHG4-R: Revision by Age and Gender

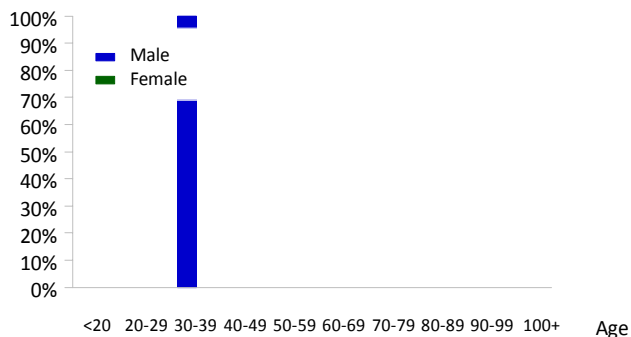


Table SHG4-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Dislocation Of Prosthesis	1	50.0
Loosening/Lysis	1	50.0
TOTAL	2	100.0

Primary Unipolar Monoblock Hip Replacement

Table SHG5-P: Primary Unipolar Monoblock Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	13487	74.2	29	105	85	84.3	7.1
Male	4698	25.8	32	107	84	83.0	7.7
TOTAL	18185	100.0	29	107	84	84.0	7.3

Figure SHG5-P: Primary by Age and Gender

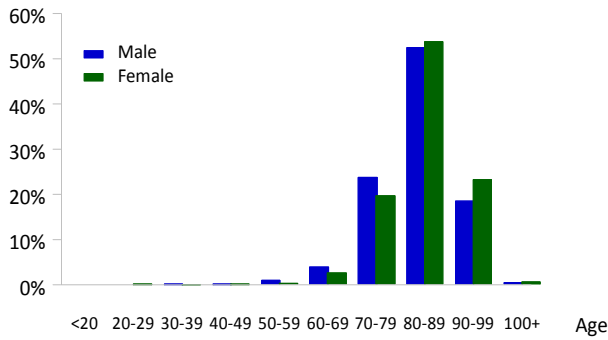


Table SHG5-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Fractured Neck Of Femur	17698	97.3
Osteoarthritis	355	2.0
Tumour	50	0.3
Avascular Necrosis	40	0.2
Failed Internal Fixation	20	0.1
Rheumatoid Arthritis	11	0.1
Developmental Dysplasia	11	0.1
TOTAL	18185	100.0

Revision of Known Primary Unipolar Monoblock Hip Replacement

Table SHG5-R: Revision of Known Primary Unipolar Monoblock Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	496	75.2	50	98	82	81.3	7.2
Male	164	24.8	47	99	82	80.9	8.1
TOTAL	660	100.0	47	99	82	81.2	7.4

Figure SHG5-R: Revision by Age and Gender

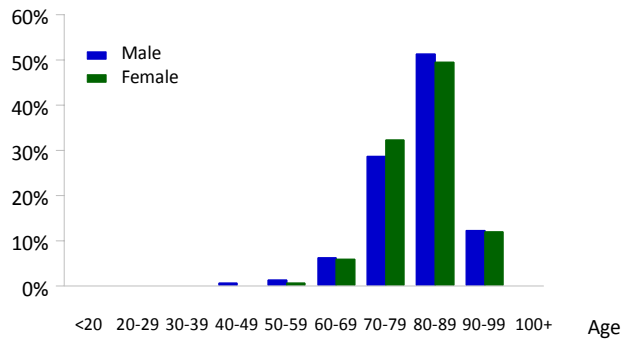


Table SHG5-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	337	51.1
Fracture	117	17.7
Dislocation Of Prosthesis	65	9.8
Infection	59	8.9
Pain	48	7.3
Chondrolysis/Acetab. Erosion	13	2.0
Malposition	7	1.1
Implant Breakage Stem	4	0.6
Progression Of Disease	3	0.5
Other	3	0.5
Incorrect Sizing	2	0.3
Instability	1	0.2
Tumour	1	0.2
TOTAL	660	100.0

Primary Unipolar Modular Hip Replacement

Table SHG6-P: Primary Unipolar Modular Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	7223	72.7	18	105	82	80.8	8.9
Male	2718	27.3	20	102	81	79.3	9.9
TOTAL	9941	100.0	18	105	82	80.3	9.2

Figure SHG6-P: Primary by Age and Gender

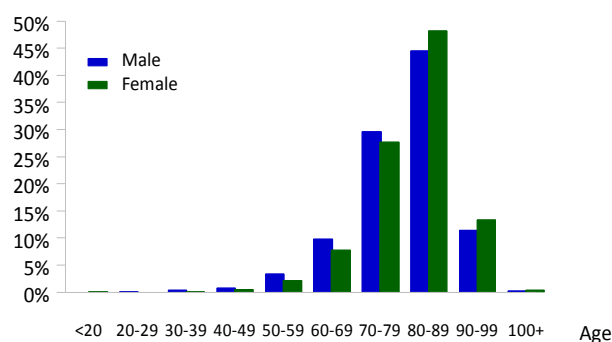


Table SHG6-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Fractured Neck Of Femur	9154	92.1
Osteoarthritis	502	5.0
Tumour	141	1.4
Failed Internal Fixation	98	1.0
Avascular Necrosis	27	0.3
Rheumatoid Arthritis	8	0.1
Other	8	0.1
Developmental Dysplasia	3	0.0
TOTAL	9941	100.0

Revision of Known Primary Unipolar Modular Hip Replacement

Table SHG6-R: Revision of Known Primary Unipolar Modular Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	179	66.5	45	96	79	77.2	9.0
Male	90	33.5	20	95	77	75.2	11.4
TOTAL	269	100.0	20	96	79	76.5	9.9

Figure SHG6-R: Revision by Age and Gender

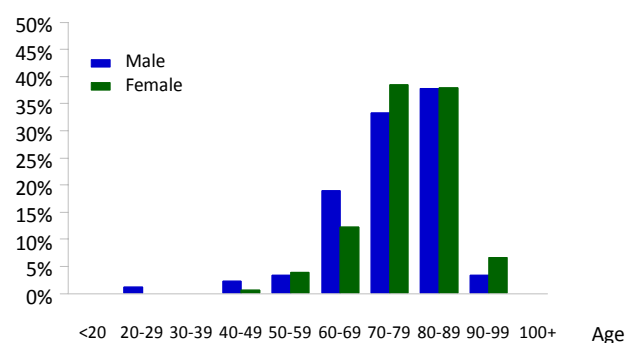


Table SHG6-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	53	19.7
Dislocation Of Prosthesis	52	19.3
Fracture	49	18.2
Infection	48	17.8
Pain	38	14.1
Chondrolysis/Acetab. Erosion	17	6.3
Other	4	1.5
Incorrect Sizing	3	1.1
Progression Of Disease	2	0.7
Heterotopic Bone	1	0.4
Implant Breakage Stem	1	0.4
Wear Acetabulum	1	0.4

Primary Bipolar Hip Replacement

Table SHG7-P: Primary Bipolar Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	6607	73.1	17	107	81	78.9	9.9
Male	2426	26.9	17	100	80	77.9	11.0
TOTAL	9033	100.0	17	107	80	78.7	10.2

Figure SHG7-P: Primary by Age and Gender

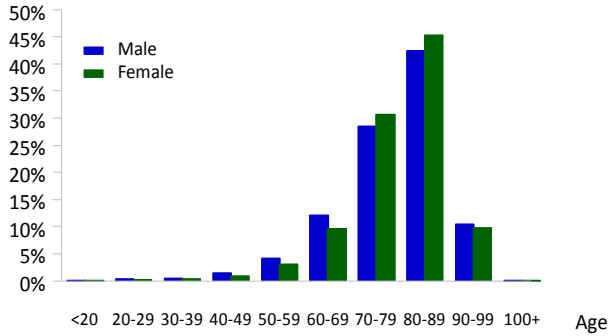


Table SHG7-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Fractured Neck Of Femur	8049	89.1
Osteoarthritis	432	4.8
Tumour	341	3.8
Failed Internal Fixation	117	1.3
Avascular Necrosis	68	0.8
Developmental Dysplasia	9	0.1
Rheumatoid Arthritis	9	0.1
Other	8	0.1
TOTAL	9033	100.0

Revision of Known Primary Bipolar Hip Replacement

Table SHG7-R: Revision of Known Primary Bipolar Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	189	71.3	30	97	78	76.9	10.0
Male	76	28.7	49	98	81	77.2	10.9
TOTAL	265	100.0	30	98	79	77.0	10.2

Figure SHG7-R: Revision by Age and Gender

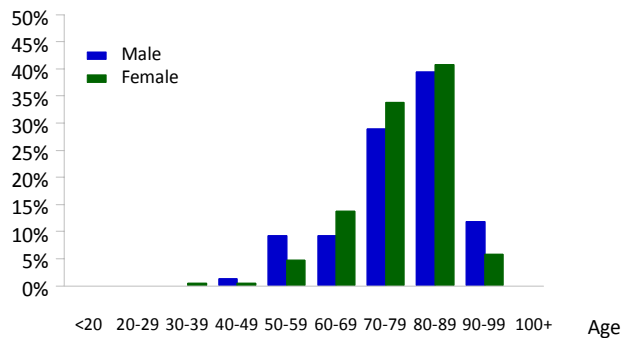


Table SHG7-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Fracture	60	22.6
Loosening/Lysis	58	21.9
Infection	50	18.9
Dislocation Of Prosthesis	47	17.7
Pain	25	9.4
Chondrolysis/Acetab. Erosion	6	2.3
Other	5	1.9
Progression Of Disease	4	1.5
Heterotopic Bone	2	0.8
Malposition	2	0.8
Implant Breakage Stem	2	0.8
Wear Acetabulum	2	0.8
Incorrect Sizing	1	0.4
Leg Length Discrepancy	1	0.4
TOTAL	265	100.0

PRIMARY TOTAL HIP REPLACEMENT

Table SHG8-P: Primary Total Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	84949	53.2	13	101	70	68.6	11.8
Male	74757	46.8	13	102	66	65.2	11.8
TOTAL	159706	100.0	13	102	68	67.0	11.9

Figure SHG8-P: Primary by Age and Gender

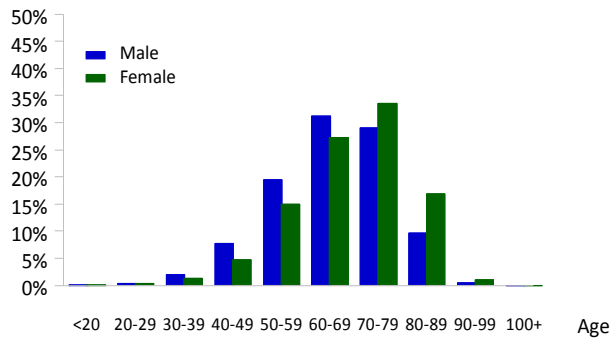


Table SHG8-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	141724	88.7
Avascular Necrosis	5860	3.7
Fractured Neck Of Femur	5159	3.2
Developmental Dysplasia	2301	1.4
Rheumatoid Arthritis	2135	1.3
Tumour	835	0.5
Other Inflammatory Arthritis	792	0.5
Failed Internal Fixation	576	0.4
Other	151	0.1
Fracture/Dislocation	92	0.1
Arthrodesis Takedown	81	0.1
TOTAL	159706	100.0

Revision of Known Primary Total Hip Replacement

Table SHG8-R: Revision of Known Primary Total Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	2412	53.2	21	97	69	68.3	12.0
Male	2124	46.8	22	95	68	67.1	12.2
TOTAL	4536	100.0	21	97	69	67.7	12.1

Figure SHG8-R: Revision by Age and Gender

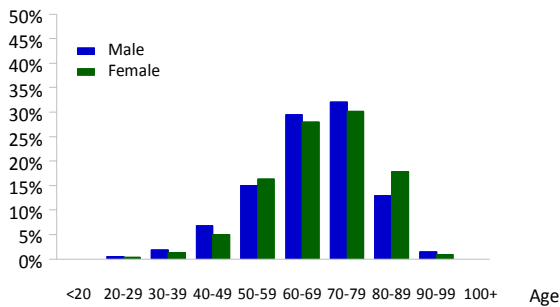


Table SHG8-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	1322	29.1
Dislocation Of Prosthesis	1197	26.4
Fracture	768	16.9
Infection	717	15.8
Pain	103	2.3
Other	73	1.6
Metal Sensitivity	60	1.3
Leg Length Discrepancy	59	1.3
Implant Breakage Acetabular	55	1.2
Malposition	51	1.1
Implant Breakage Stem	27	0.6
Incorrect Sizing	26	0.6
Instability	23	0.5
Implant Breakage Head	20	0.4
Avascular Necrosis	14	0.3
Heterotopic Bone	8	0.2
Wear Acetabulum	7	0.2
Tumour	3	0.1
Synovitis	2	0.0
Progression Of Disease	1	0.0
TOTAL	4536	100.0

Primary Total Resurfacing Replacement

Table SHG9-P: Primary Total Resurfacing Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	3197	26.4	14	81	53	51.6	8.7
Male	8896	73.6	13	93	55	54.1	9.0
TOTAL	12093	100.0	13	93	54	53.4	9.0

Figure SHG9-P: Primary by Age and Gender

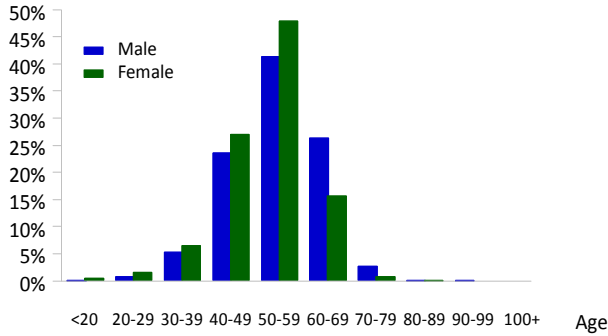


Table SHG9-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	11396	94.2
Developmental Dysplasia	343	2.8
Avascular Necrosis	238	2.0
Rheumatoid Arthritis	50	0.4
Other Inflammatory Arthritis	48	0.4
Other	10	0.1
Tumour	4	0.0
Failed Internal Fixation	2	0.0
Arthrodesis Takedown	1	0.0
Fracture/Dislocation	1	0.0
TOTAL	12093	100.0

Revision of Known Primary Total Resurfacing Hip Replacement

Table SHG9-R: Revision of Known Primary Total Resurfacing Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	195	44.6	21	80	55	54.0	9.8
Male	242	55.4	22	78	58	56.4	10.2
TOTAL	437	100.0	21	80	57	55.4	10.1

Figure SHG9-R: Revision by Age and Gender

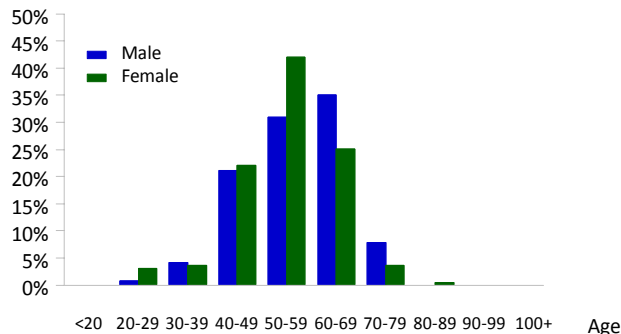


Table SHG9-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Fracture	172	39.4
Loosening/Lysis	128	29.3
Infection	39	8.9
Metal Sensitivity	28	6.4
Pain	23	5.3
Dislocation Of Prosthesis	14	3.2
Avascular Necrosis	14	3.2
Malposition	8	1.8
Other	5	1.1
Implant Breakage Head	2	0.5
Leg Length Discrepancy	1	0.2
Synovitis	1	0.2
Implant Breakage Acetabular	1	0.2
Progression Of Disease	1	0.2
TOTAL	437	100.0

Primary Conventional Total Replacement

Table SHG10-P: Primary Conventional Total Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	81696	55.4	13	101	71	69.2	11.4
Male	65726	44.6	13	102	68	66.7	11.3
TOTAL	147422	100.0	13	102	69	68.1	11.4

Figure SHG10-P: Primary by Age and Gender

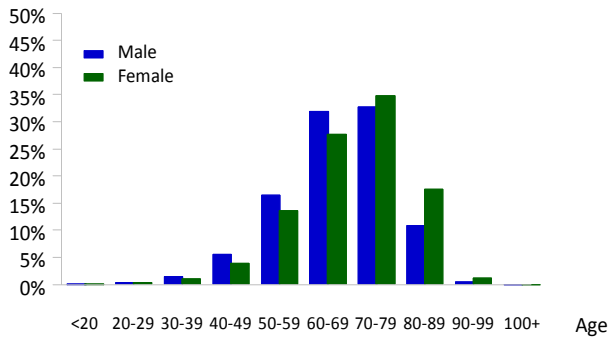


Table SHG10-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	130147	88.3
Avascular Necrosis	5618	3.8
Fractured Neck Of Femur	5159	3.5
Rheumatoid Arthritis	2081	1.4
Developmental Dysplasia	1957	1.3
Tumour	831	0.6
Other Inflammatory Arthritis	743	0.5
Failed Internal Fixation	574	0.4
Other	141	0.1
Fracture/Dislocation	91	0.1
Arthrodesis Takedown	80	0.1
TOTAL	147422	100.0

Revision of Known Primary Conventional Total Hip Replacement

Table SHG10-R: Revision of Known Primary Conventional Total Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	2216	54.1	23	97	70	69.6	11.4
Male	1879	45.9	23	95	70	68.4	11.7
TOTAL	4095	100.0	23	97	70	69.0	11.5

Figure SHG10-R: Revision by Age and Gender

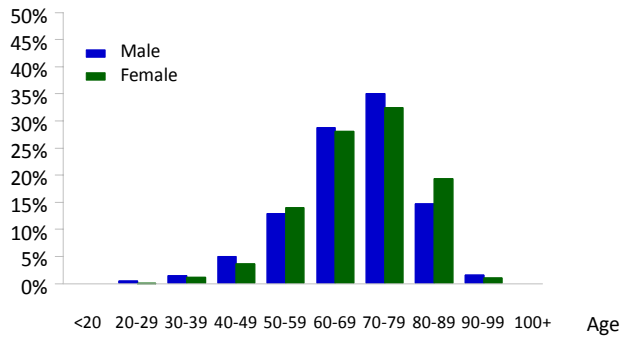


Table SHG10-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	1191	29.1
Dislocation Of Prosthesis	1183	28.9
Infection	678	16.6
Fracture	595	14.5
Pain	80	2.0
Other	68	1.7
Leg Length Discrepancy	58	1.4
Implant Breakage Acetabular	54	1.3
Malposition	43	1.1
Metal Sensitivity	32	0.8
Implant Breakage Stem	27	0.7
Incorrect Sizing	26	0.6
Instability	23	0.6
Implant Breakage Head	18	0.4
Heterotopic Bone	8	0.2
Wear Acetabulum	7	0.2
Tumour	3	0.1
Synovitis	1	0.0
TOTAL	4095	100.0

Primary Thrust Plate Replacement

Table SHG11-P: Primary Thrust Plate Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	56	29.3	27	71	57	54.9	10.6
Male	135	70.7	33	75	58	58.1	8.7
TOTAL	191	100.0	27	75	58	57.1	9.4

Figure SHG11-P: Primary by Age and Gender

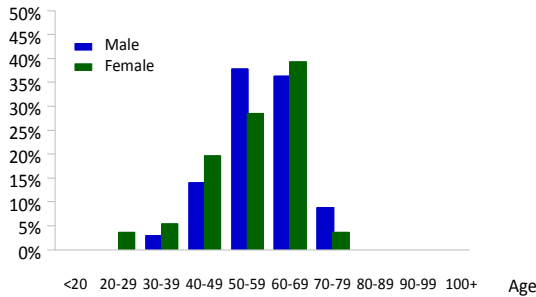


Table SHG11-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	181	94.8
Avascular Necrosis	4	2.1
Rheumatoid Arthritis	4	2.1
Developmental Dysplasia	1	0.5
Other Inflammatory Arthritis	1	0.5
TOTAL	191	100.0

Revision of Known Primary Thrust Plate Hip Replacement

Table SHG11-R: Revision of Known Primary Thrust Plate Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	1	25.0	57	57	57	57.0	.
Male	3	75.0	36	76	56	56.0	20.0
TOTAL	4	100.0	36	76	57	56.3	16.3

Figure SHG11-R: Revision by Age and Gender

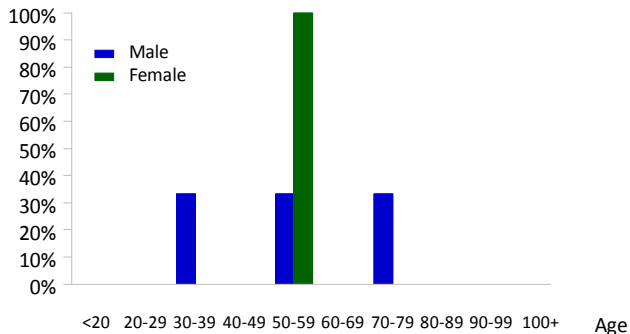


Table SHG11-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	3	75.0
Fracture	1	25.0
TOTAL	4	100.0

REVISION HIP REPLACEMENT

Table SHG12-R: All Revision Hip Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	14825	53.9	20	100	73	71.4	12.2
Male	12690	46.1	20	100	72	70.1	11.7
TOTAL	27515	100.0	20	100	73	70.8	12.0

Figure SHG12: Revision Hip Replacement by Age and Gender

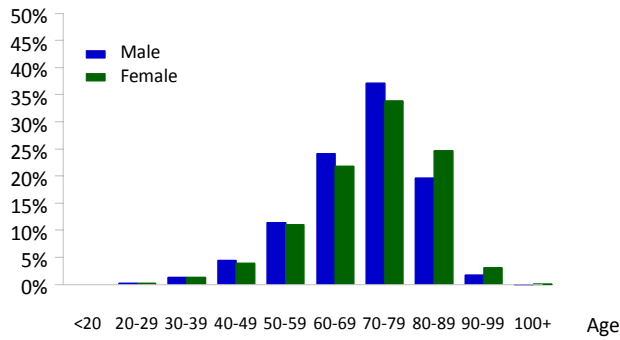


Table SHG12-RD: Revision Diagnosis

Diagnosis	Number	Percent
Loosening/Lysis	15507	56.4
Dislocation Of Prosthesis	3985	14.5
Infection	3049	11.1
Fracture	2431	8.8
Other	492	1.8
Pain	476	1.7
Implant Breakage Acetabular	426	1.5
Wear Acetabulum	323	1.2
Implant Breakage Stem	242	0.9
Malposition	107	0.4
Metal Sensitivity	84	0.3
Leg Length Discrepancy	80	0.3
Instability	72	0.3
Chondrolysis/Acetab. Erosion	53	0.2
Implant Breakage Head	43	0.2
Incorrect Sizing	41	0.1
Avascular Necrosis	30	0.1
Heterotropic Bone	28	0.1
Tumour	21	0.1
Progression Of Disease	20	0.1
Synovitis	5	0.0
TOTAL	27515	100.0

KNEE REPLACEMENT

Table SKG1: Number of Knee Replacements by Gender

Knee Replacement	Female		Male		TOTAL	
	N	%	N	%	N	%
Partial Resurfacing	58	51.3	55	48.7	113	0.4
Unispacer	19	48.7	20	51.3	39	0.1
Patella/Trochlear	977	75.6	315	24.4	1292	4.3
Unicompartmental	14070	48.8	14752	51.2	28822	94.9
Bicompartmental	47	52.2	43	47.8	90	0.3
Primary Partial	15171	50.0	15185	50.0	30356	100.0
Primary Total	113143	57.3	84158	42.7	197301	100.0
Revision	10879	51.9	10063	48.1	20942	100.0
TOTAL	139193	56.0	109406	44.0	248599	100.0

Figure SKG1: Knee Replacement by Gender

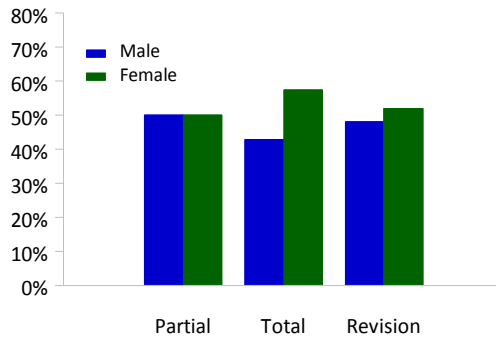


Figure SKG2: Knee Replacement by Age and Gender

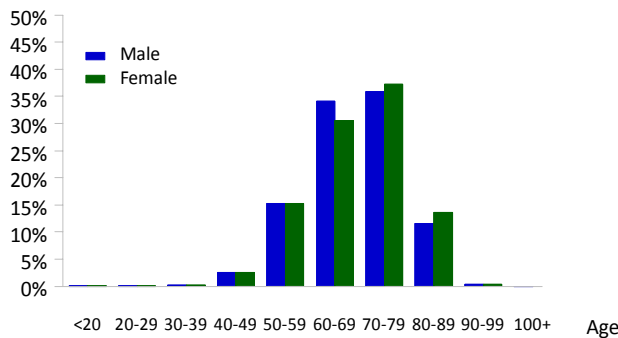


Table SKG2: Age by Gender for All Knee Replacement

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	139193	56.0	13	98	70	69.0	9.9
Male	109406	44.0	12	100	69	68.3	9.6
TOTAL	248599	100.0	12	100	69	68.7	9.8

PRIMARY PARTIAL KNEE REPLACEMENT

Table SKG3-P: Primary Partial Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	15171	50.0	22	95	64	64.6	10.6
Male	15185	50.0	17	95	66	65.8	9.9
TOTAL	30356	100.0	17	95	65	65.2	10.3

Figure SKG3-P: Primary by Age and Gender

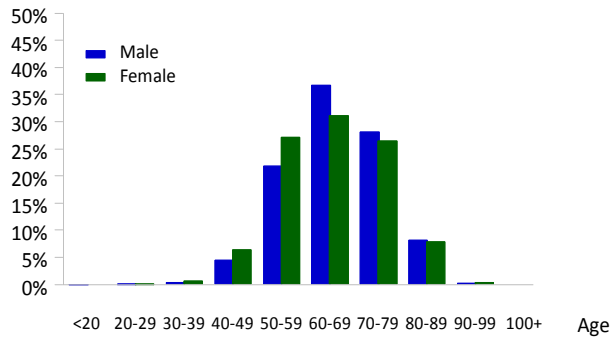


Table SKG3-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	29994	98.8
Avascular Necrosis	204	0.7
Rheumatoid Arthritis	98	0.3
Other Inflammatory Arthritis	42	0.1
Other	15	0.0
Tumour	2	0.0
Chondrocalcinosis	1	0.0
TOTAL	30356	100.0

Revision of Known Primary Partial Knee Replacement

Table SKG3-R: Revision of Known Primary Partial Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	1180	52.9	33	93	64	64.3	10.4
Male	1051	47.1	37	92	64	64.3	10.0
TOTAL	2231	100.0	33	93	64	64.3	10.2

Figure SKG3-R: Revision by Age and Gender

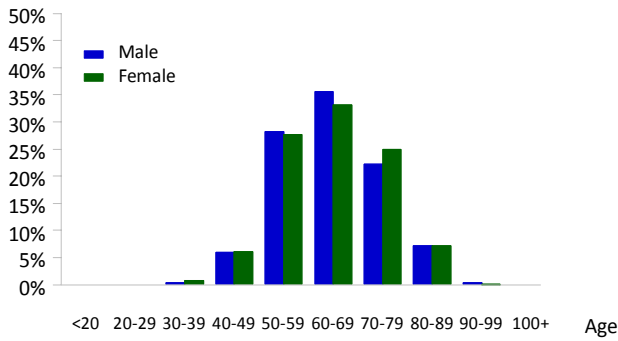


Table SKG3-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	1075	48.2
Progression Of Disease	405	18.2
Pain	280	12.6
Infection	98	4.4
Fracture	65	2.9
Other	45	2.0
Wear Tibial	36	1.6
Dislocation	33	1.5
Malalignment	29	1.3
Patello Femoral Pain	26	1.2
Bearing/Dislocation	24	1.1
Avascular Necrosis	18	0.8
Instability	17	0.8
Incorrect Sizing	16	0.7
Implant Breakage Tibial	15	0.7
Implant Breakage Patella	12	0.5
Synovitis	10	0.4
Arthrofibrosis	9	0.4
Implant Breakage Femoral	7	0.3
Patella Maltracking	4	0.2
Wear Patella	4	0.2
Heterotropic Bone	1	0.0
Metal Sensitivity	1	0.0
Incorrect Side	1	0.0
TOTAL	2231	100.0

Primary Partial Resurfacing Knee Replacement

Table SKG4-P: Primary Partial Resurfacing Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	58	51.3	30	82	48	50.3	11.3
Male	55	48.7	17	70	49	47.2	12.6
TOTAL	113	100.0	17	82	49	48.8	12.0

Figure SKG4-P: Primary by Age and Gender

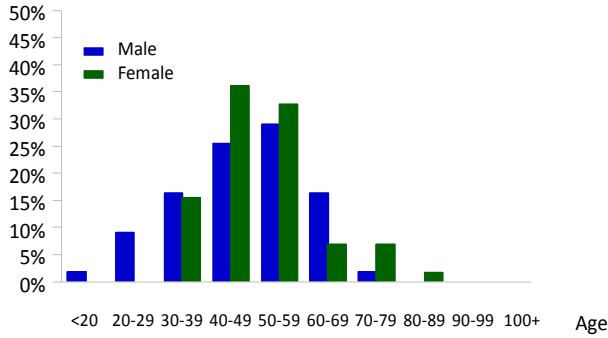


Table SKG4-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	101	89.4
Other	6	5.3
Avascular Necrosis	5	4.4
Chondrocalcinosis	1	0.9
TOTAL	113	100.0

Revision of Known Primary Partial Resurfacing Knee Replacement

Table SKG4-R: Revision of Known Primary Partial Resurfacing Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	7	50.0	37	63	48	49.4	7.8
Male	7	50.0	51	67	52	55.4	5.9
TOTAL	14	100.0	37	67	52	52.4	7.4

Figure SKG4-R: Revision by Age and Gender

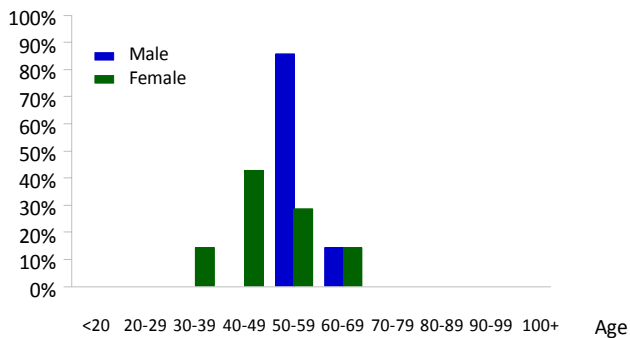


Table SKG4-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Progression Of Disease	6	42.9
Loosening/Lysis	3	21.4
Pain	2	14.3
Implant Breakage Patella	1	7.1
Other	1	7.1
Incorrect Sizing	1	7.1
TOTAL	14	100.0

Primary Unispacer Knee Replacement

Table SKG5-P: Primary Unispacer Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	19	48.7	40	69	56	54.1	8.4
Male	20	51.3	41	75	55	55.1	9.5
TOTAL	39	100.0	40	75	55	54.6	8.9

Figure SKG5-P: Primary by Age and Gender

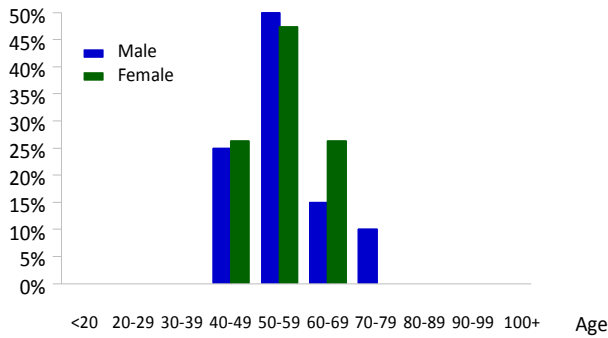


Table SKG5-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	39	100.0
TOTAL	39	100.0

Revision of Known Primary Unispacer Knee Replacement

Table SKG5-R: Revision of Known Primary Unispacer Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	11	40.7	51	70	58	58.8	5.5
Male	16	59.3	42	76	56	57.3	9.7
TOTAL	27	100.0	42	76	57	57.9	8.2

Figure SKG5-R: Revision by Age and Gender

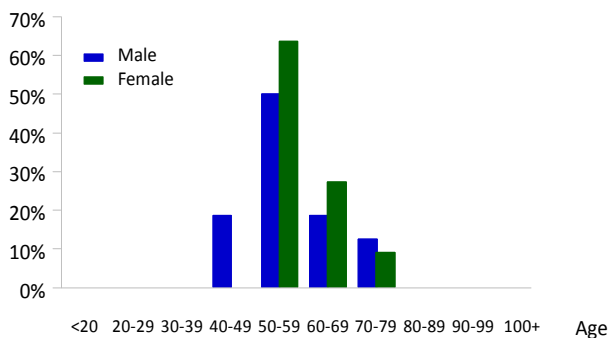


Table SKG5-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Pain	6	22.2
Loosening/Lysis	4	14.8
Synovitis	4	14.8
Progression Of Disease	3	11.1
Implant Breakage Tibial	3	11.1
Other	2	7.4
Incorrect Sizing	1	3.7
Malalignment	1	3.7
Avascular Necrosis	1	3.7
Infection	1	3.7
Wear Tibial	1	3.7
TOTAL	27	100.0

Primary Patella/Trochlear Knee Replacement

Table SKG6-P: Primary Patella/Trochlear Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	977	75.6	22	95	58	59.0	12.4
Male	315	24.4	25	95	60	61.2	13.5
TOTAL	1292	100.0	22	95	59	59.5	12.7

Figure SKG6-P: Primary by Age and Gender

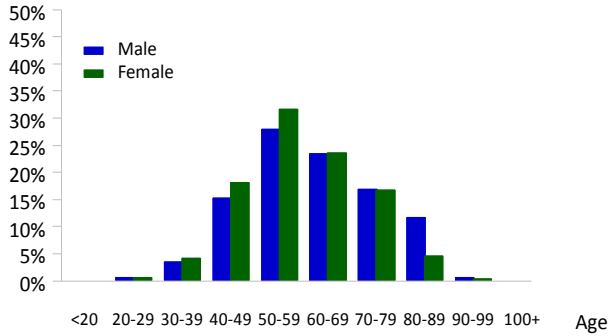


Table SKG6-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	1275	98.7
Other Inflammatory Arthritis	12	0.9
Rheumatoid Arthritis	3	0.2
Other	2	0.2
TOTAL	1292	100.0

Revision of Known Primary Patella/Trochlear Knee Replacement

Table SKG6-R: Revision of Known Primary Patella/Trochlear Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	90	68.2	35	93	61	60.2	12.4
Male	42	31.8	39	83	57	56.8	9.9
TOTAL	132	100.0	35	93	58	59.2	11.7

Figure SKG6-R: Revision by Age and Gender

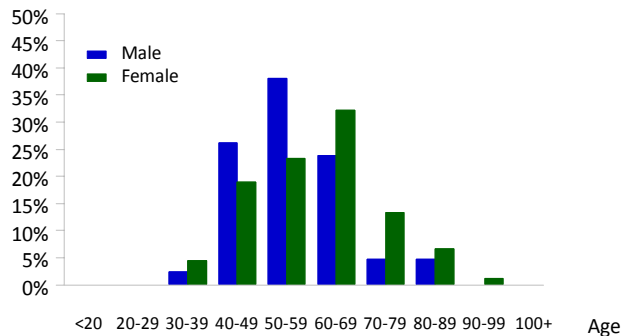


Table SKG6-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Progression Of Disease	38	28.8
Loosening/Lysis	29	22.0
Pain	18	13.6
Implant Breakage Patella	11	8.3
Patello Femoral Pain	8	6.1
Other	5	3.8
Malalignment	5	3.8
Patella Maltracking	4	3.0
Wear Patella	4	3.0
Infection	3	2.3
Fracture	3	2.3
Instability	1	0.8
Dislocation	1	0.8
Avascular Necrosis	1	0.8
Metal Sensitivity	1	0.8
TOTAL	132	100.0

Primary Unicompartamental Knee Replacement

Table SKG7-P: Primary Unicompartamental Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	14070	48.8	27	95	65	65.1	10.3
Male	14752	51.2	24	95	66	66.0	9.7
TOTAL	28822	100.0	24	95	65	65.5	10.0

Figure SKG7-P: Primary by Age and Gender

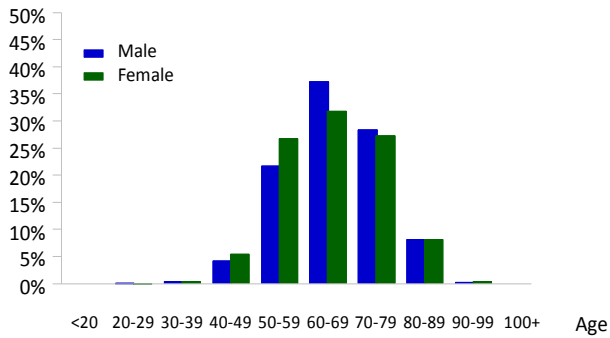


Table SKG7-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	28490	98.8
Avascular Necrosis	198	0.7
Rheumatoid Arthritis	95	0.3
Other Inflammatory Arthritis	30	0.1
Other	7	0.0
Tumour	2	0.0
TOTAL	28822	100.0

Revision of Known Primary Unicompartamental Knee Replacement

Table SKG7-R: Revision of Known Primary Unicompartamental Knee Age by Gender

ender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	1072	52.2	33	88	65	64.8	10.1
Male	980	47.8	37	92	64	64.7	9.9
TOTAL	2052	100.0	33	92	65	64.8	10.0

Figure SKG7-R: Revision by Age and Gender

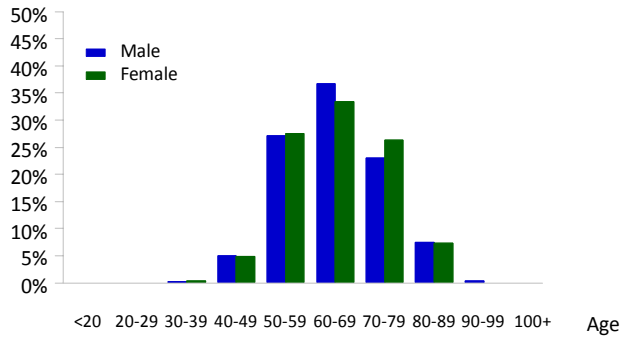


Table SKG7-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	1039	50.6
Progression Of Disease	356	17.3
Pain	254	12.4
Infection	94	4.6
Fracture	62	3.0
Other	37	1.8
Wear Tibial	35	1.7
Dislocation	32	1.6
Bearing/Dislocation	24	1.2
Malalignment	23	1.1
Avascular Necrosis	16	0.8
Instability	16	0.8
Incorrect Sizing	14	0.7
Patello Femoral Pain	14	0.7
Implant Breakage Tibial	12	0.6
Arthrofibrosis	9	0.4
Implant Breakage Femoral	7	0.3
Synovitis	6	0.3
Heterotropic Bone	1	0.0
Incorrect Side	1	0.0
TOTAL	2052	100.0

Primary Bicompartamental Knee Replacement

Table SKG8-P: Primary Bicompartamental Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	47	52.2	46	83	61	64.3	11.9
Male	43	47.8	49	86	68	67.0	9.6
TOTAL	90	100.0	46	86	65	65.6	10.9

Figure SKG8-P: Primary by Age and Gender

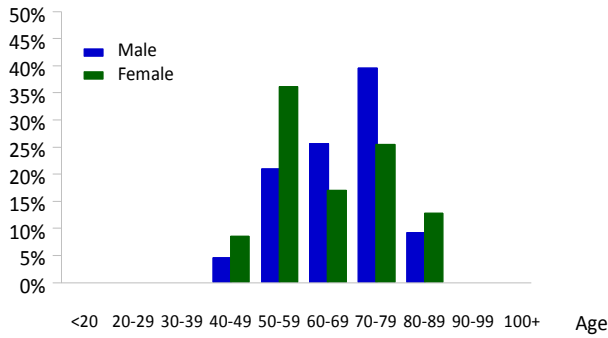


Table SKG8-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	89	98.9
Avascular Necrosis	1	1.1
TOTAL	90	100.0

Revision of Known Primary Bicompartamental Knee Replacement

Table SKG8-R: Revision of Known Primary Bicompartamental Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Male	6	100.0	59	84	71	71.7	8.0
TOTAL	6	100.0	59	84	71	71.7	8.0

Figure SKG8-R: Revision by Age and Gender

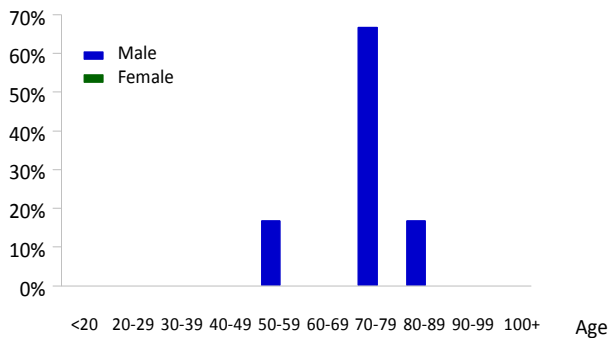


Table SKG8-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Patello Femoral Pain	4	66.7
Progression Of Disease	2	33.3
TOTAL	6	100.0

PRIMARY TOTAL KNEE REPLACEMENT

Table SKG9-P: Primary Total Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	113143	57.3	13	98	70	69.5	9.5
Male	84158	42.7	12	100	69	68.7	9.4
TOTAL	197301	100.0	12	100	70	69.2	9.5

Figure SKG9-P: Primary by Age and Gender

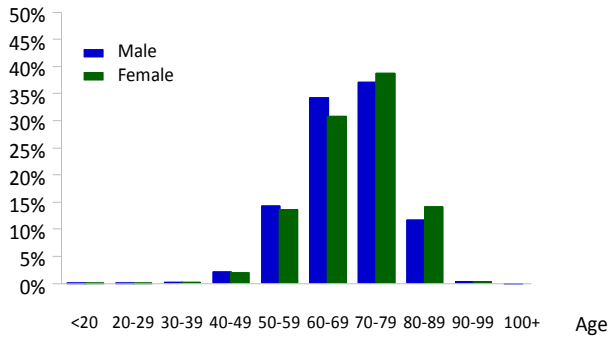


Table SKG9-PD: Primary Diagnosis

Primary Diagnosis	Number	Percent
Osteoarthritis	191317	97.0
Rheumatoid Arthritis	3857	2.0
Other Inflammatory Arthritis	968	0.5
Avascular Necrosis	733	0.4
Tumour	256	0.1
Other	162	0.1
Chondrocalcinosis	8	0.0
TOTAL	197301	100.0

Revision of Known Primary Total Knee Replacement

Table SKG9-R: Revision of Known Primary Total Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	2885	53.4	17	94	68	67.7	10.0
Male	2521	46.6	16	96	67	66.9	10.0
TOTAL	5406	100.0	16	96	68	67.3	10.0

Figure SKG9-R: Revision by Age and Gender

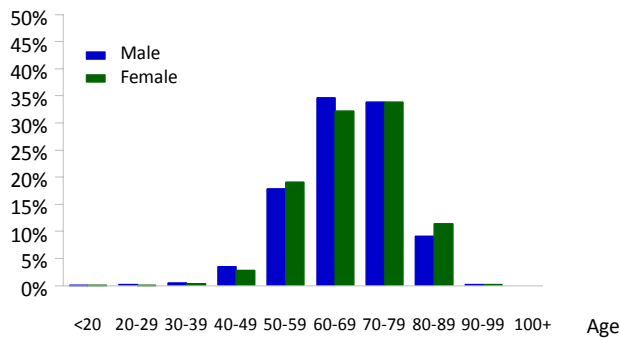


Table SKG9-RD: Revision Diagnosis

Revision Diagnosis	Number	Percent
Loosening/Lysis	1740	32.2
Infection	1205	22.3
Patello Femoral Pain	707	13.1
Pain	505	9.3
Instability	289	5.3
Arthrofibrosis	227	4.2
Fracture	118	2.2
Malalignment	105	1.9
Other	86	1.6
Wear Tibial	71	1.3
Incorrect Sizing	70	1.3
Patella Maltracking	40	0.7
Implant Breakage Tibial	39	0.7
Bearing/Dislocation	32	0.6
Dislocation	32	0.6
Progression Of Disease	32	0.6
Patella Erosion	28	0.5
Synovitis	23	0.4
Metal Sensitivity	16	0.3
Implant Breakage Patella	14	0.3
Avascular Necrosis	9	0.2
Implant Breakage Femoral	9	0.2
Tumour	4	0.1
Heterotropic Bone	2	0.0
Dislocation Of Patella	1	0.0
Incorrect Side	1	0.0
Wear Patella	1	0.0
TOTAL	5406	100.0

ALL REVISION KNEE REPLACEMENT

Table SKG10-R: All Revision Knee Age by Gender

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Female	10879	51.9	17	97	71	69.6	10.6
Male	10063	48.1	16	98	70	69.2	10.6
TOTAL	20942	100.0	16	98	71	69.4	10.6

Figure SKG10-R: Revision Knee Replacement by Age and Gender

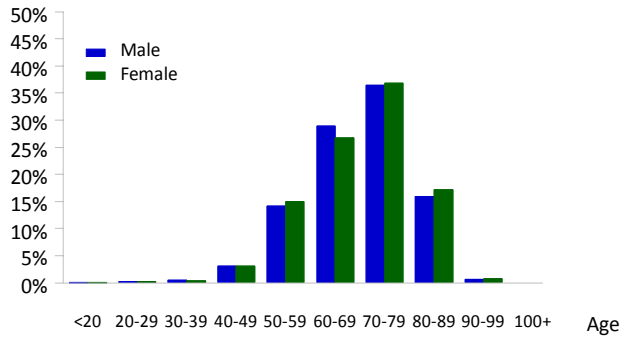


Table SKG10-RD: Revision Diagnosis

Diagnosis	Number	Percent
Loosening/Lysis	9108	43.5
Infection	3669	17.5
Wear Tibial	1395	6.7
Pain	1384	6.6
Patello Femoral Pain	1234	5.9
Progression Of Disease	774	3.7
Instability	626	3.0
Implant Breakage Tibial	473	2.3
Fracture	393	1.9
Arthrofibrosis	372	1.8
Other	268	1.3
Malalignment	231	1.1
Implant Breakage Patella	158	0.8
Incorrect Sizing	126	0.6
Wear Patella	122	0.6
Dislocation	109	0.5
Bearing/Dislocation	104	0.5
Implant Breakage Femoral	96	0.5
Patella Maltracking	94	0.4
Synovitis	62	0.3
Metal Sensitivity	49	0.2
Avascular Necrosis	32	0.2
Patella Erosion	28	0.1
Heterotopic Bone	13	0.1
Tumour	11	0.1
Wear Femoral	6	0.0
Dislocation Of Patella	3	0.0
Incorrect Side	2	0.0
TOTAL	20942	100.0