

Additional National Trends information

Table 1: Annual number of hip operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	3,491	584	4,075	85.67	14.33
1993	3,467	643	4,110	84.36	15.64
1994	3,482	619	4,101	84.91	15.09
1995	3,807	672	4,479	85.00	15.00
1996	4,025	663	4,688	85.86	14.14
1997	3,890	738	4,628	84.05	15.95
1998	4,069	802	4,871	83.54	16.46
1999	4,414	870	5,284	83.54	16.46
2000	4,280	756	5,036	84.99	15.01
2001	4,232	761	4,993	84.76	15.24
2002	4,185	778	4,963	84.32	15.68
2003	4,405	728	5,133	85.82	14.18
2004	4,859	779	5,638	86.18	13.82
2005	5,036	752	5,788	87.01	12.99
2006	6,010	759	6,769	88.79	11.21
2007	6,559	916	7,475	87.75	12.25
2008	6,312	875	7,187	87.83	12.17
Total	76,523	12,695	89,218	85.77	14.23

Figure 1: Annual number of hip operations

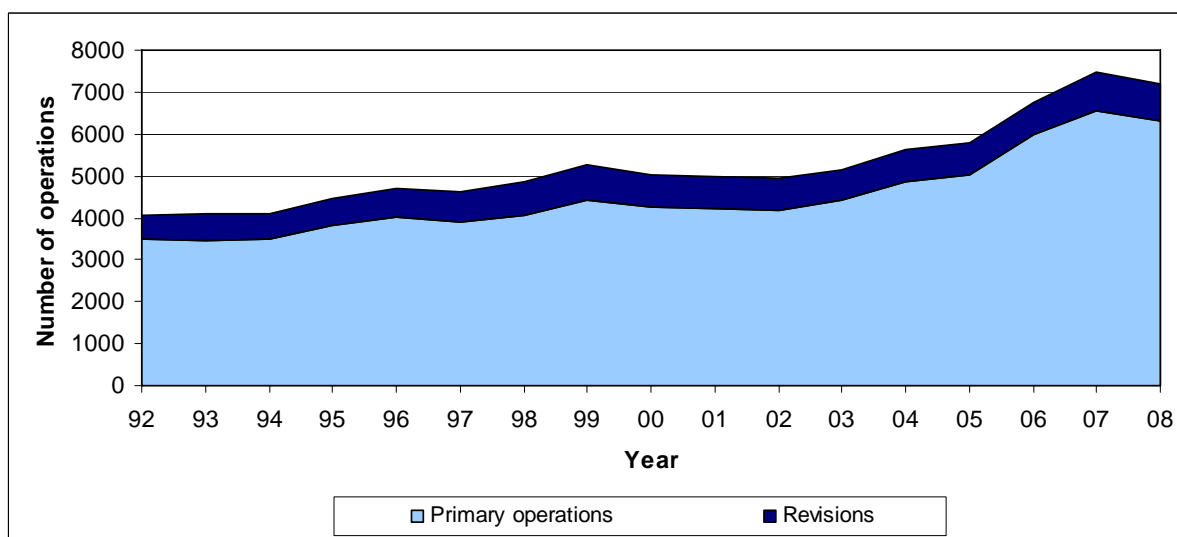


Table 2: Annual number of knee operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	1,819	147	1,966	92.52	7.48
1993	1,976	163	2,139	92.38	7.62
1994	2,057	178	2,235	92.04	7.96
1995	2,281	179	2,460	92.72	7.28
1996	2,385	208	2,593	91.98	8.02
1997	2,491	206	2,697	92.36	7.64
1998	2,789	202	2,991	93.25	6.75
1999	3,102	211	3,313	93.63	6.37
2000	2,967	237	3,204	92.60	7.40
2001	3,287	238	3,525	93.25	6.75
2002	3,330	261	3,591	92.73	7.27
2003	3,513	306	3,819	91.99	8.01
2004	3,942	279	4,221	93.39	6.61
2005	4,498	323	4,821	93.30	6.70
2006	5,580	354	5,934	94.03	5.97
2007	6,345	399	6,744	94.08	5.92
2008	6,160	421	6,581	93.60	6.40
Total	58,522	4,312	62,834	93.14	6.86

Figure 2: Annual number of knee operations

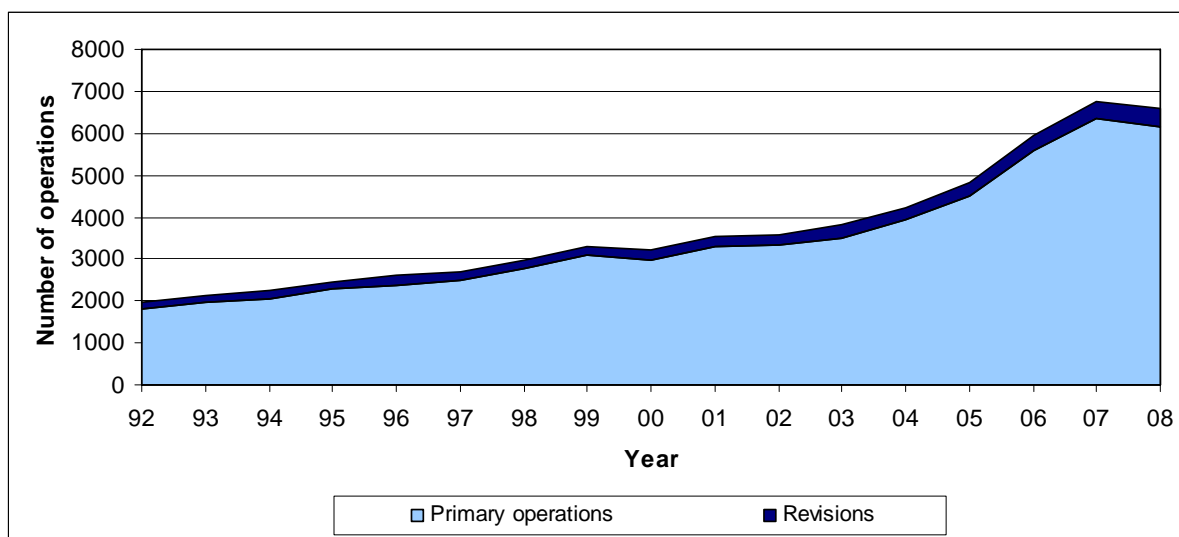


Table 3: Annual number of ankle operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	-	-	-	-	-
1993	1	1	2	50.00	50.00
1994	1	1	2	50.00	50.00
1995	2	-	2	100.00	0.00
1996	1	-	1	100.00	0.00
1997	8	-	8	100.00	0.00
1998	1	-	1	100.00	0.00
1999	6	-	6	100.00	0.00
2000	7	-	7	100.00	0.00
2001	6	1	7	85.71	14.29
2002	18	1	19	94.74	5.26
2003	24	-	24	100.00	0.00
2004	19	1	20	95.00	5.00
2005	27	-	27	100.00	0.00
2006	23	6	29	79.31	20.69
2007	43	4	47	91.49	8.51
2008	48	1	49	97.96	2.04
Total	235	16	251	93.63	6.37

Figure 3: Annual number of ankle operations

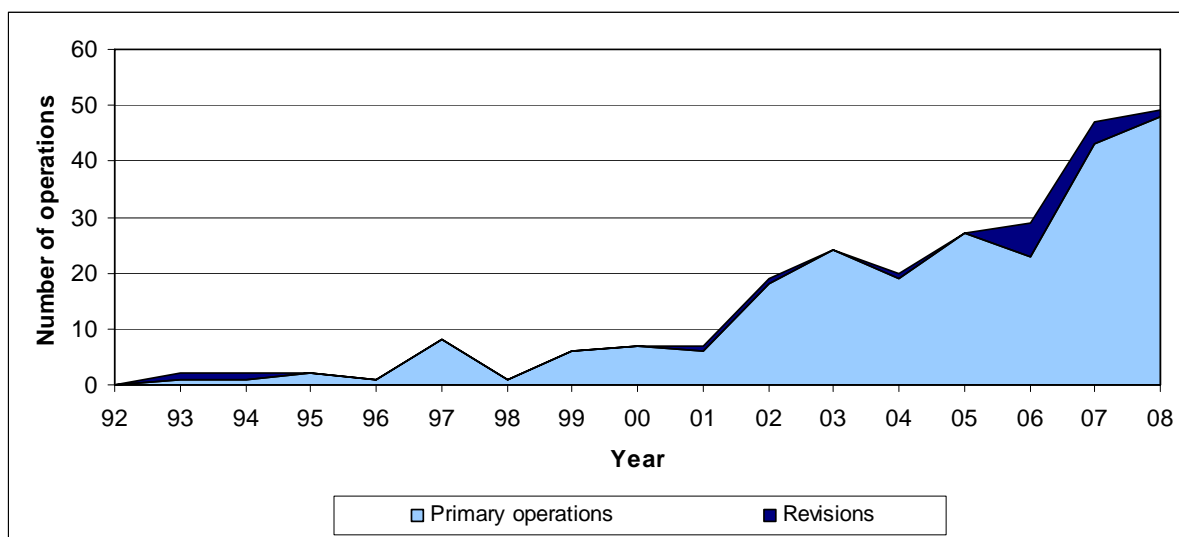


Table 4: Annual number of toe operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	46	2	48	95.83	4.17
1993	38	3	41	92.68	7.32
1994	33	5	38	86.84	13.16
1995	32	4	36	88.89	11.11
1996	32	3	35	91.43	8.57
1997	25	3	28	89.29	10.71
1998	33	10	43	76.74	23.26
1999	26	3	29	89.66	10.34
2000	23	2	25	92.00	8.00
2001	19	5	24	79.17	20.83
2002	20	6	26	76.92	23.08
2003	27	9	36	75.00	25.00
2004	20	8	28	71.43	28.57
2005	18	9	27	66.67	33.33
2006	23	6	29	79.31	20.69
2007	38	7	45	84.44	15.56
2008	55	7	62	88.71	11.29
Total	508	92	600	84.67	15.33

Figure 4: Annual number of toe operations

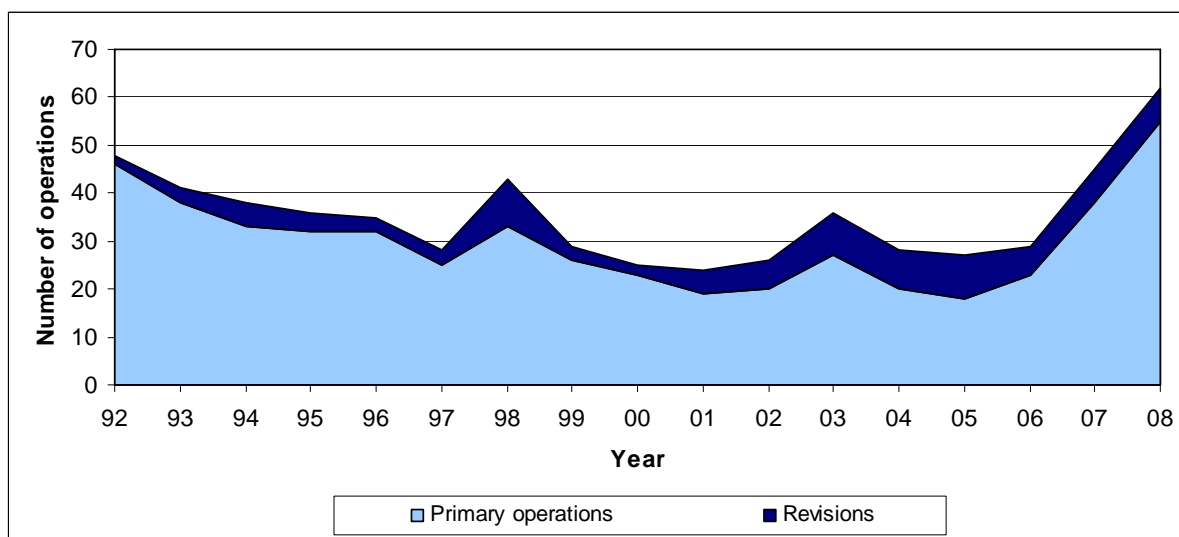


Table 5: Annual number of finger operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	51	-	51	100.00	0.00
1993	58	1	59	98.31	1.69
1994	42	3	45	93.33	6.67
1995	59	3	62	95.16	4.84
1996	60	2	62	96.77	3.23
1997	40	3	43	93.02	6.98
1998	57	1	58	98.28	1.72
1999	46	3	49	93.88	6.12
2000	46	5	51	90.20	9.80
2001	52	4	56	92.86	7.14
2002	41	2	43	95.35	4.65
2003	68	2	70	97.14	2.86
2004	42	4	46	91.30	8.70
2005	49	2	51	96.08	3.92
2006	48	3	51	94.12	5.88
2007	46	9	55	83.64	16.36
2008	36	4	40	90.00	10.00
Total	841	51	892	94.28	5.72

Figure 5: Annual number of finger operations

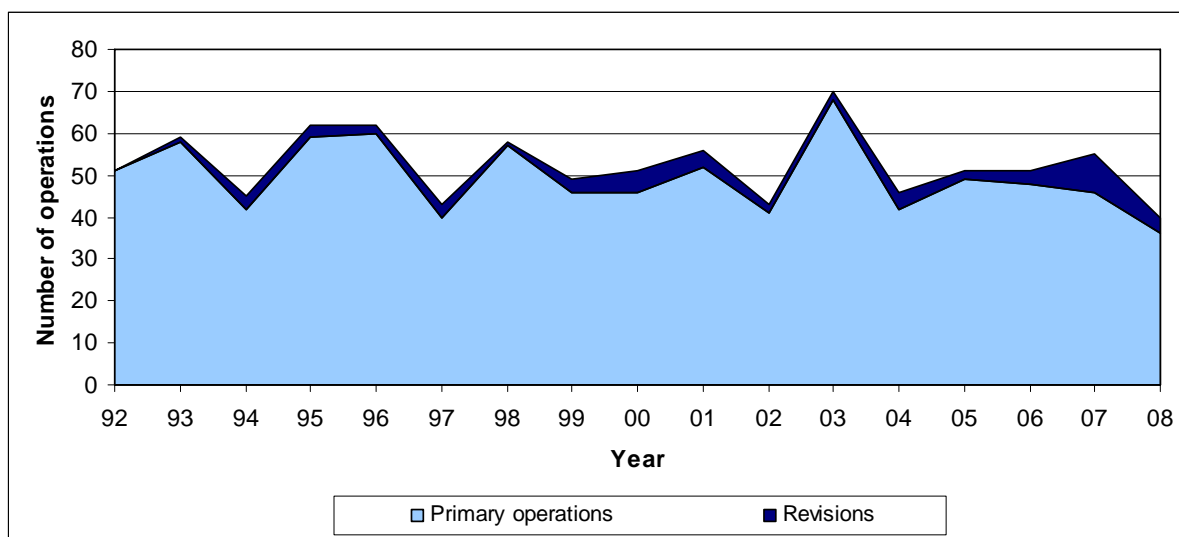


Table 6: Annual number of wrist operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	9	-	9	100.00	0.00
1993	13	-	13	100.00	0.00
1994	18	-	18	100.00	0.00
1995	17	5	22	77.27	22.73
1996	27	-	27	100.00	0.00
1997	17	1	18	94.44	5.56
1998	19	1	20	95.00	5.00
1999	22	-	22	100.00	0.00
2000	10	1	11	90.91	9.09
2001	13	3	16	81.25	18.75
2002	11	-	11	100.00	0.00
2003	9	-	9	100.00	0.00
2004	9	1	10	90.00	10.00
2005	15	2	17	88.24	11.76
2006	23	-	23	100.00	0.00
2007	18	2	20	90.00	10.00
2008	25	-	25	100.00	0.00
Total	275	16	291	94.50	5.50

Figure 6: Annual number of wrist operations

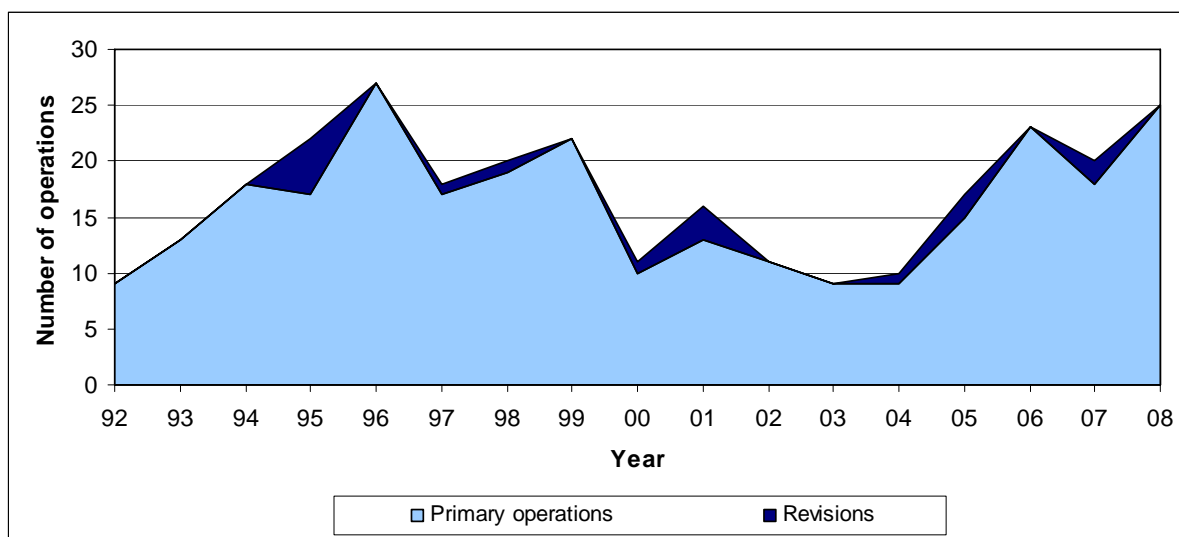


Table 7: Annual number of elbow operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	74	7	81	91.36	8.64
1993	78	7	85	91.76	8.24
1994	77	8	85	90.59	9.41
1995	72	20	92	78.26	21.74
1996	76	5	81	93.83	6.17
1997	78	13	91	85.71	14.29
1998	72	10	82	87.80	12.20
1999	64	12	76	84.21	15.79
2000	78	18	96	81.25	18.75
2001	70	14	84	83.33	16.67
2002	45	15	60	75.00	25.00
2003	61	9	70	87.14	12.86
2004	62	14	76	81.58	18.42
2005	62	10	72	86.11	13.89
2006	77	8	85	90.59	9.41
2007	79	14	93	84.95	15.05
2008	60	12	72	83.33	16.67
Total	1,185	196	1,381	85.81	14.19

Figure 7: Annual number of elbow operations

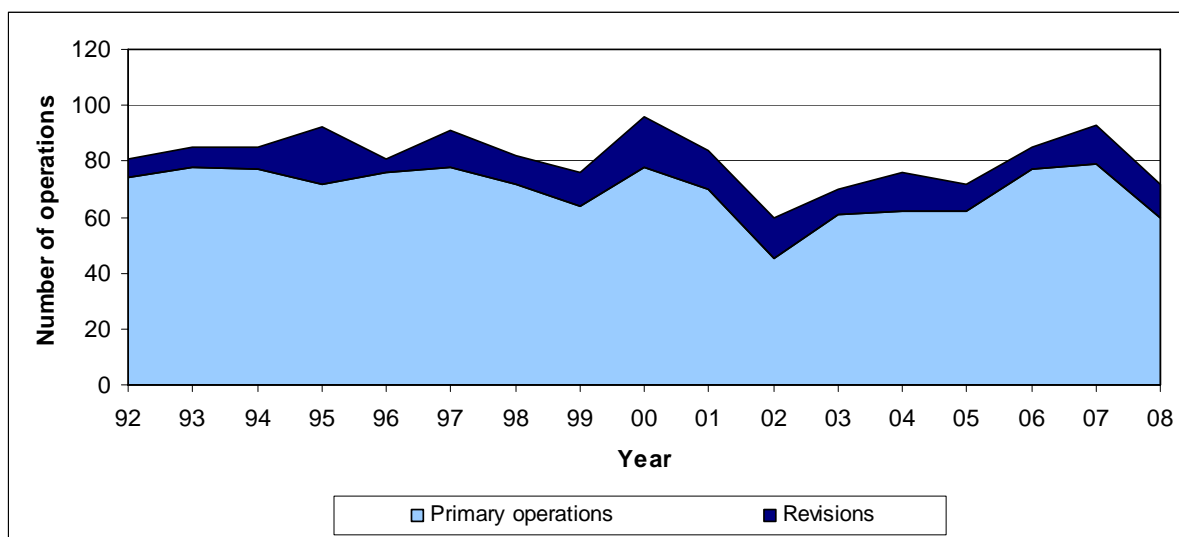
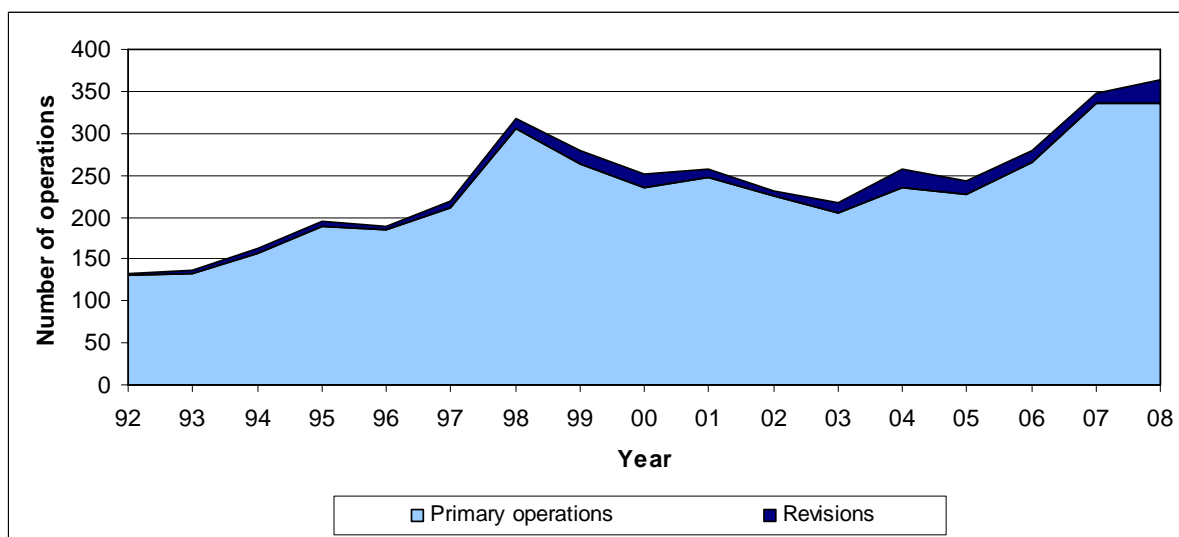


Table 8: Annual number of shoulder operations

Year	Number of Primary operations	Number of Revisions	Total	% of Primary operations	% of Revisions
1992	130	2	132	98.48	1.52
1993	132	4	136	97.06	2.94
1994	157	5	162	96.91	3.09
1995	188	6	194	96.91	3.09
1996	185	3	188	98.40	1.60
1997	211	8	219	96.35	3.65
1998	305	12	317	96.21	3.79
1999	264	16	280	94.29	5.71
2000	236	15	251	94.02	5.98
2001	247	11	258	95.74	4.26
2002	225	7	232	96.98	3.02
2003	205	12	217	94.47	5.53
2004	235	23	258	91.09	8.91
2005	227	16	243	93.42	6.58
2006	265	15	280	94.64	5.36
2007	336	11	347	96.83	3.17
2008	336	27	363	92.56	7.44
Total	3,884	193	4,077	95.27	4.73

Figure 8: Annual number of shoulder operations



APPENDIX 2. Additional Length of stay information

Table 9 : Mean Length of Stay per Continuous Inpatient Stay for Hip Replacements

	Year										
	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
Scotland	12.2	11.9	11.7	10.3	10.3	10.2	9.7	9.2	8.7	8.0	7.5
Ayrshire and Arran	12.6	13.0	12.2	10.7	10.6	10.6	10.1	9.9	9.8	9.4	9.0
Borders	11.7	11.3	10.2	10.4	9.9	10.2	9.4	9.4	10.0	10.4	8.7
Argyll & Clyde	12.8	13.5	12.6	11.8	10.5	10.0	8.9	8.8	8.9	-	-
Dumfries and Galloway	11.8	12.6	12.3	11.0	11.6	11.0	11.4	11.1	10.7	10.9	10.5
Fife	10.3	10.6	10.2	8.9	9.4	9.6	9.6	9.6	9.4	8.4	6.6
Forth Valley	12.2	13.7	14.7	12.3	12.0	12.3	11.8	10.7	9.4	9.8	8.3
Golden Jubilee	-	-	-	-	-	9.8	9.0	7.6	7.6	7.0	6.0
Grampian	12.7	13.0	14.1	11.8	11.5	11.4	10.1	9.9	9.1	7.9	8.5
Greater Glasgow and Clyde											
- Clyde	-	-	-	-	-	-	-	-	-	8.9	7.2
- North Glasgow	11.9	10.9	9.4	9.7	10.0	9.2	9.8	9.0	7.9	7.0	7.0
- South Glasgow	12.3	11.2	11.3	10.0	11.4	12.3	10.2	9.5	8.7	7.6	7.9
Highland	12.8	13.0	10.4	9.1	8.6	9.6	8.8	8.9	7.7	7.2	7.3
Lanarkshire	14.4	13.1	13.0	12.0	10.7	11.3	10.7	11.0	10.7	9.4	9.6
Lothian	10.4	8.9	9.2	8.4	7.9	8.4	8.1	8.0	7.4	7.0	6.5
Tayside	13.3	12.5	12.7	10.6	11.3	9.9	9.5	8.6	8.3	8.8	7.4
Western Isles	11.8	11.2	13.5	14.9	13.8	14.2	15.2	14.9	19.1	13.2	13.8

Table 10 : Mean Length of Stay per Continuous Inpatient Stay for Knee Replacements

	Year										
	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
Scotland	12.2	11.8	11.3	10.5	10.0	9.7	9.2	8.8	8.1	7.6	7.2
Ayrshire and Arran	12.6	12.2	11.6	11.2	10.8	9.7	9.5	10.1	9.5	9.0	8.7
Borders	14.8	13.8	11.7	11.5	10.4	9.8	9.5	9.4	10.7	9.8	8.6
Argyll & Clyde	12.8	12.3	11.6	10.3	9.9	9.7	8.2	8.9	8.6	-	-
Dumfries and Galloway	13.0	13.1	11.5	12.2	11.0	11.2	12.1	13.2	11.7	10.2	10.3
Fife	10.2	10.0	9.4	9.7	8.5	9.1	9.9	9.7	8.6	7.6	6.9
Forth Valley	12.3	13.3	13.6	12.6	11.4	11.2	10.6	10.0	9.2	7.8	8.2
Golden Jubilee	-	-	-	-	-	9.8	8.7	8.1	7.8	7.5	6.0
Grampian	13.7	13.6	13.3	12.0	11.1	10.8	10.4	9.8	8.6	7.4	8.3
Greater Glasgow and Clyde											
- Clyde	-	-	-	-	-	-	-	-	-	8.3	7.3
- North Glasgow	10.8	10.7	10.2	9.8	10.0	9.4	8.8	8.4	7.9	7.0	6.5
- South Glasgow	12.1	11.6	11.0	10.7	12.0	11.6	9.8	9.4	8.1	7.9	7.3
Highland	13.9	13.7	10.5	9.4	8.7	9.7	8.6	7.6	7.6	7.2	7.6
Lanarkshire	14.7	13.9	13.8	11.4	10.6	9.8	9.4	9.4	8.9	8.4	8.9
Lothian	10.2	9.1	9.3	8.5	7.8	7.8	7.0	7.2	6.6	6.5	6.1
Tayside	12.9	12.4	11.8	11.0	10.4	9.6	9.1	8.1	7.6	7.7	7.2
Western Isles	17.6	14.4	9.7	11.5	9.6	13.5	13.1	15.0	14.9	12.1	12.1

Table 11 shows the median length of stay per continuous inpatient stay for hip replacements by age group and NHS Board for financial year 2007/08.

Table 11 : Median Length of Stay per Continuous Inpatient Stay for Hip Replacements by age group

	Age group							
	16 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 plus
Scotland	5	5	5	5	5	6	7	8
Ayrshire and Arran	-	-	7	8	7	7	9	10
Borders	-	-	8	9	7	6	8	10
Dumfries and Galloway	-	-	8	5	8	8	8	11
Fife	-	-	5	4	5	6	6	8
Forth Valley	-	-	6	7	5	6	8	6
Golden Jubilee	-	-	4	5	4	5	5	7
Grampian	-	7	7	6	7	7	8	9
Greater Glasgow and Clyde								
- Clyde	-	3	6	4	6	6	7	8
- North Glasgow	-	5	5	5	5	5	6	9
- South Glasgow	-	4	5	4	5	6	8	9
Highland	-	6	5	6	5	6	6	8
Lanarkshire	-	-	5	7	6	7	9	14
Lothian	5	5	5	5	5	5	6	7
Tayside	-	9	8	6	6	6	7	9
Western Isles	-	-	-	-	7	8	10	27

Table 12 shows the median length of stay for hip and knee replacement operations broken down by age group and NHS Board for financial year 2007/08.

Table 12 : Median Length of Stay per Continuous Inpatient Stay for Knee Replacements by age group

	Age group						
	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 plus
Scotland	2	5	5	6	6	7	8
Ayrshire and Arran	-	4	5	7	7	8	12
Borders	-	-	6	7	7	8	9
Dumfries and Galloway	-	9	6	8	7	10	11
Fife	-	-	5	5	6	7	8
Forth Valley	-	-	15	5	6	7	9
Golden Jubilee	-	3	5	5	5	6	6
Grampian	7	5	7	7	7	7	10
Greater Glasgow and Clyde							
- Clyde	-	-	7	6	6	6	7
- North Glasgow	2	7	5	5	6	6	7
- South Glasgow	3	5	5	6	6	8	9
Highland	-	4	6	6	6	7	8
Lanarkshire	-	-	7	6	7	7	10
Lothian	-	4	5	5	5	5	7
Tayside	0	8	7	6	6	7	8
Western Isles	-	-	-	5	7	16	7

Table 13 and Table 14 show the proportion of patients undergoing a hip or knee replacement by the day of operation in relation to the day of admission for 2007/08.

Table 13 : Hip Replacement Operations in relation to day of admission

	Mean Length of stay	% operations on day of admission	% operations day after admission	% operations two days after admission	% operations three or more days after admission
Scotland	7.5	18.4	78.2	2.0	1.3
Ayrshire and Arran	9.0	5.4	93.3	0.8	0.4
Borders	8.7	0.0	96.7	0.0	3.3
Dumfries and Galloway	10.5	3.8	93.6	1.3	1.3
Fife	6.6	19.9	79.3	0.8	0.0
Forth Valley	8.3	46.8	49.6	0.7	2.9
Golden Jubilee	6.0	4.5	94.6	0.9	0.0
Grampian	8.5	5.6	81.1	8.4	5.0
Greater Glasgow and Clyde					
- Clyde	7.2	35.6	63.3	0.5	0.5
- North Glasgow	7.0	2.4	96.4	0.5	0.7
- South Glasgow	7.9	10.3	84.2	3.9	1.5
Highland	7.3	12.1	84.4	2.3	1.2
Lanarkshire	9.6	49.7	48.7	1.0	0.5
Lothian	6.5	46.0	53.1	0.7	0.2
Tayside	7.4	10.4	86.2	1.5	1.9
Western Isles	13.8	68.2	31.8	0.0	0.0

Table 14 : Knee Replacement Operations in relation to day of admission

	Mean Length of stay	% operations on day of admission	% operations day after admission	% operations two days after admission	% operations three or more days after admission
Scotland	7.2	20.0	77.4	1.5	1.2
Ayrshire and Arran	8.7	5.2	93.0	0.4	1.3
Borders	8.6	1.2	97.6	1.2	0.0
Dumfries and Galloway	10.3	3.6	94.0	1.2	1.2
Fife	6.9	22.4	77.3	0.3	0.0
Forth Valley	8.2	54.7	41.9	1.1	2.2
Golden Jubilee	6.0	4.4	94.5	0.8	0.3
Grampian	8.3	8.8	79.1	6.8	5.2
Greater Glasgow and Clyde					
- Clyde	7.3	33.5	66.0	0.5	0.0
- North Glasgow	6.5	1.4	97.9	0.5	0.2
- South Glasgow	7.3	10.1	84.4	3.9	1.6
Highland	7.6	13.8	85.1	1.1	0.0
Lanarkshire	8.9	58.9	38.6	0.8	1.7
Lothian	6.1	50.8	47.8	0.5	0.8
Tayside	7.2	14.0	83.8	0.9	1.3
Western Isles	12.1	84.6	15.4	0.0	0.0

APPENDIX 3. Additional Patient Characteristics information

Figure 9 : Age Group Rate of Hip Replacements for Scotland

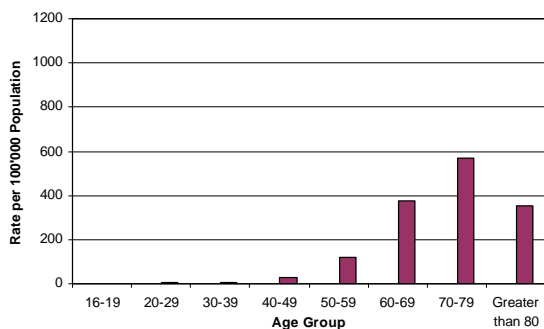


Figure 10 : Age Group Rate of Hip Replacements for Ayrshire and Arran

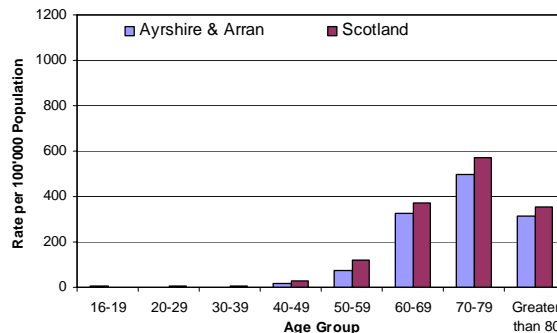


Figure 11 : Age Group Rate of Hip Replacements for Borders

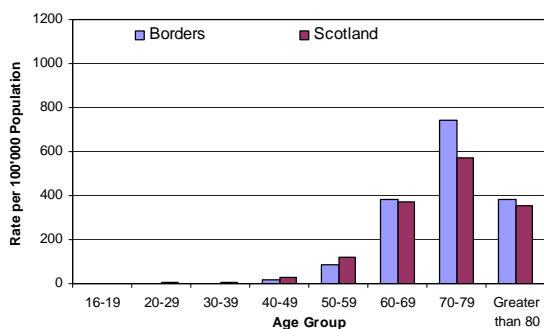


Figure 12 : Age Group Rate of Hip Replacements for Dumfries and Galloway

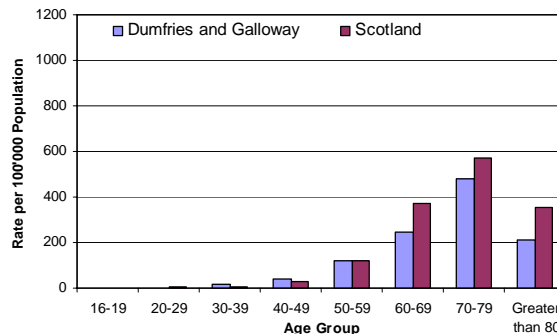


Figure 13 : Age Group Rate of Hip Replacements for Fife

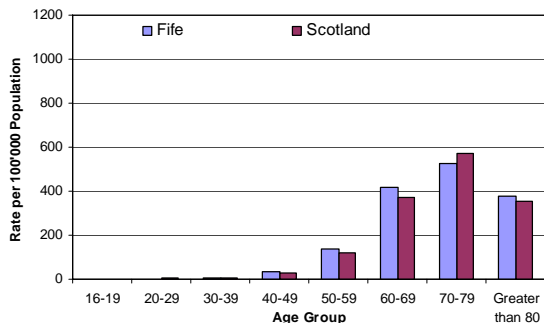


Figure 14 : Age Group Rate of Hip Replacements for Forth Valley

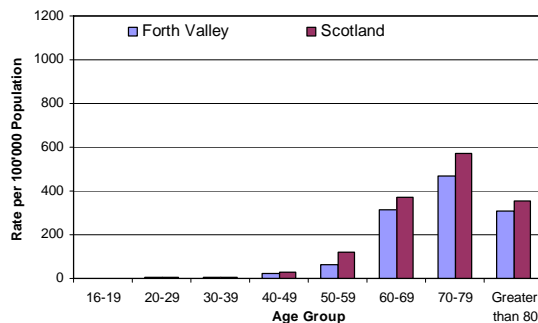


Figure 15 : Age Group Rate of Hip Replacements for Glasgow

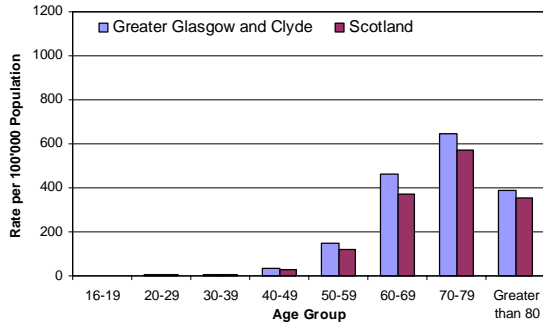


Figure 16 : Age Group Rate of Hip Replacements for Grampian

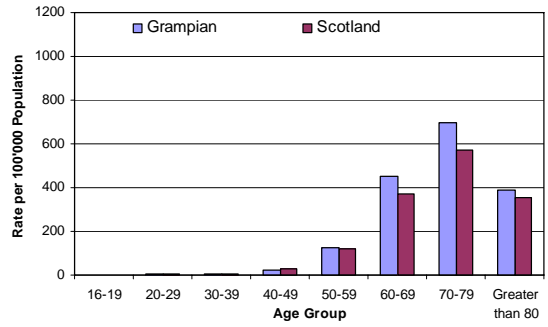


Figure 17 : Age Group Rate of Hip Replacements for Highland

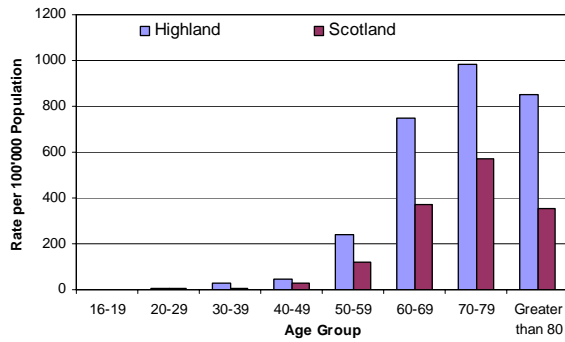


Figure 18 : Age Group Rate of Hip Replacements for Lanarkshire

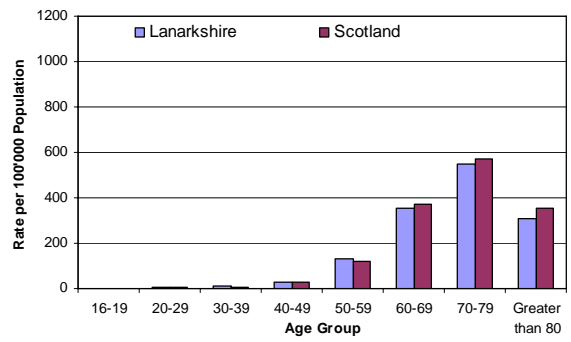


Figure 19 : Age Group Rate of Hip Replacements for Lothian

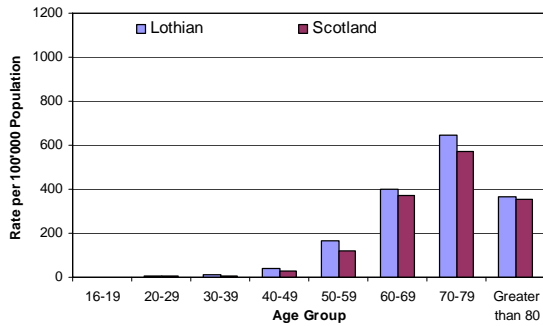


Figure 20 : Age Group Rate of Hip Replacements for Orkney

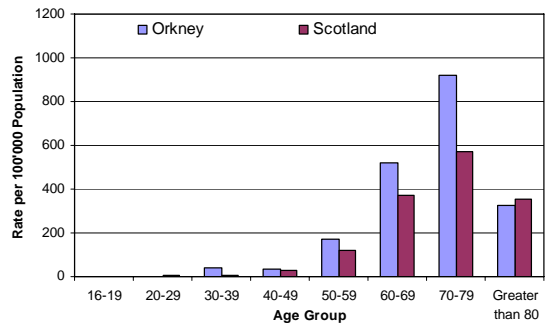


Figure 21 : Age Group Rate of Hip Replacements for Shetland

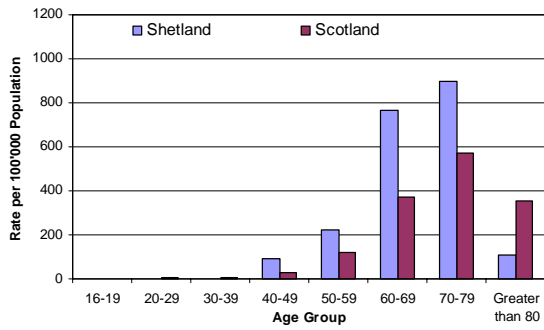


Figure 22 : Age Group Rate of Hip Replacements for Tayside

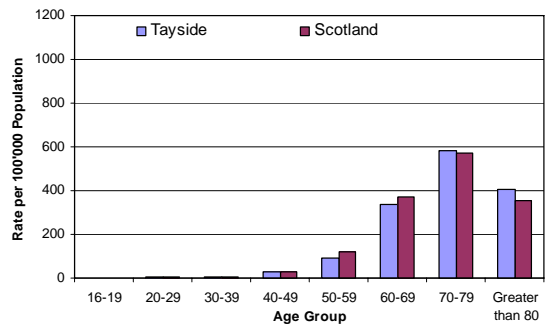


Figure 23 : Age Group Rate of Hip Replacements for Western Isles

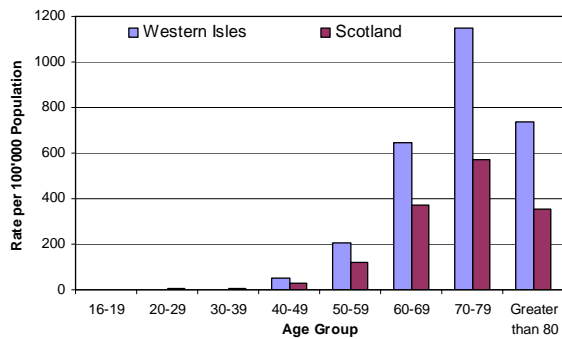


Figure 24 : Principal diagnosis of hip replacement patients split by age group

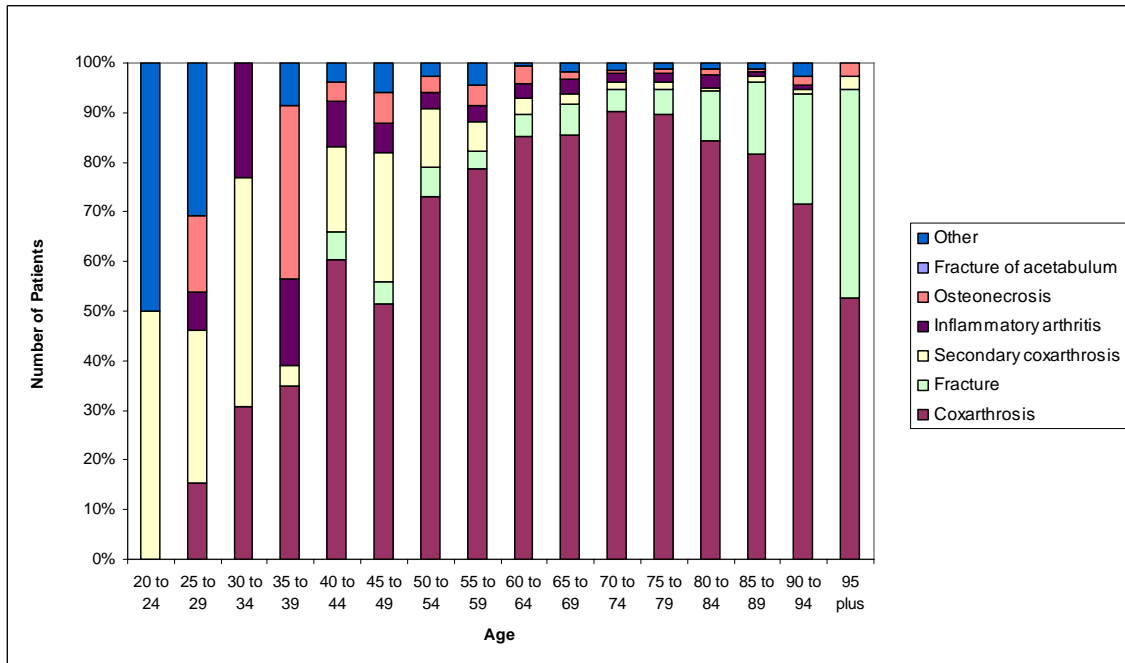


Figure 25 : Age Group Rate of Knee Replacements for Scotland

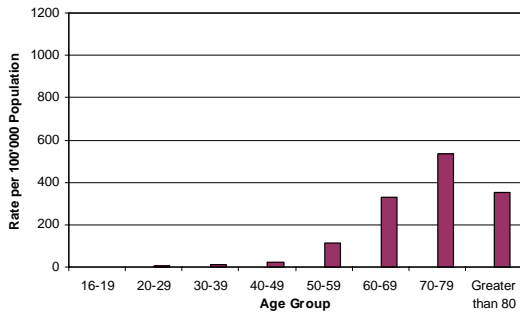


Figure 26 : Age Group Rate of Knee Replacements for Ayrshire and Arran

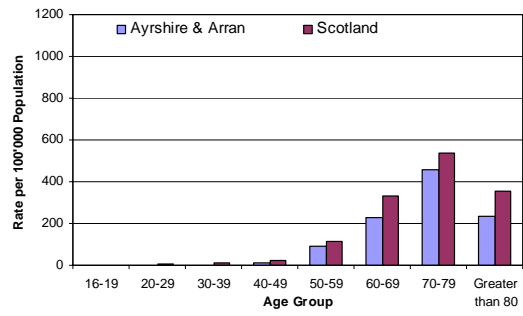


Figure 27 : Age Group Rate of Knee Replacements for Borders

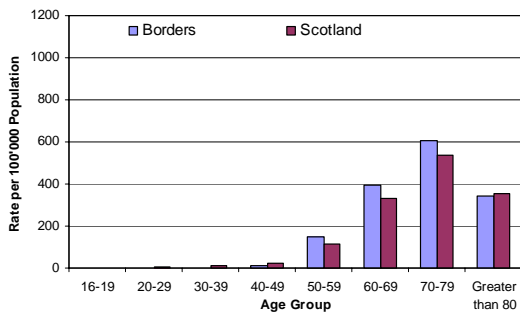


Figure 28 : Age Group Rate of Knee Replacements for Dumfries and Galloway

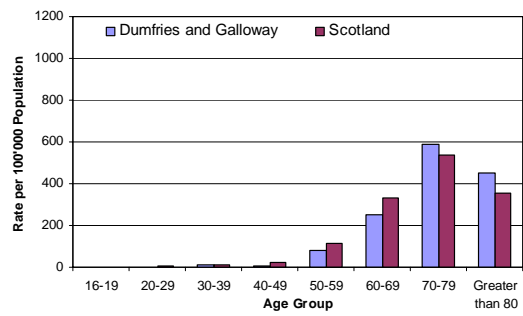


Figure 29 : Age Group Rate of Knee Replacements for Fife

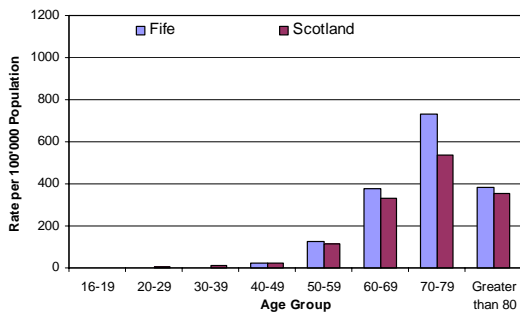


Figure 30 : Age Group Rate of Knee Replacements for Forth Valley

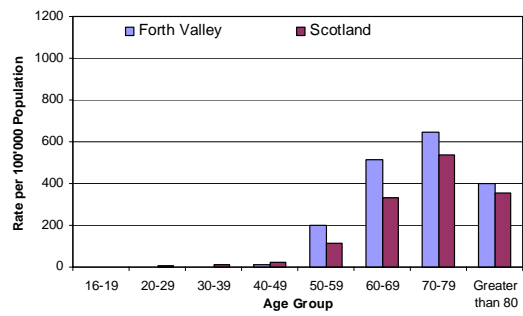


Figure 31 : Age Group Rate of Knee Replacements for Glasgow

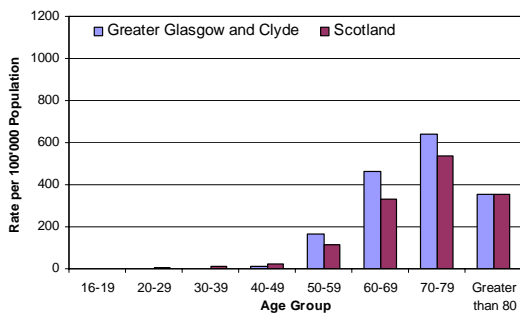


Figure 32 : Age Group Rate of Knee Replacements for Grampian

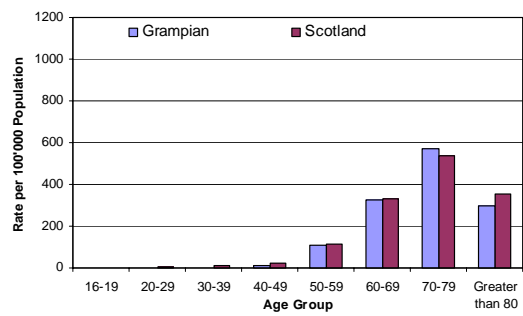


Figure 33 : Age Group Rate of Knee Replacements for Highland

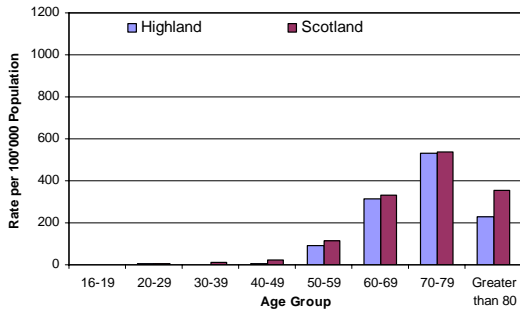


Figure 34 : Age Group Rate of Knee Replacements for Lanarkshire

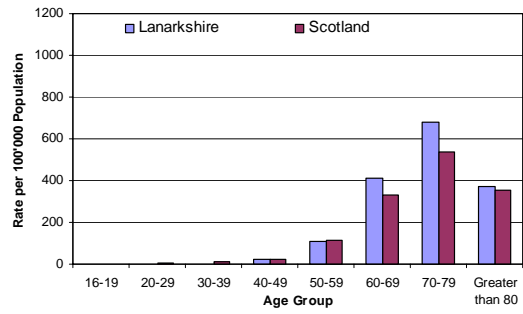


Figure 35 : Age Group Rate of Knee Replacements for Lothian

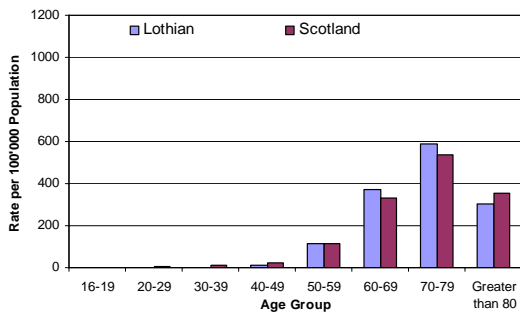


Figure 36 : Age Group Rate of Knee Replacements for Orkney

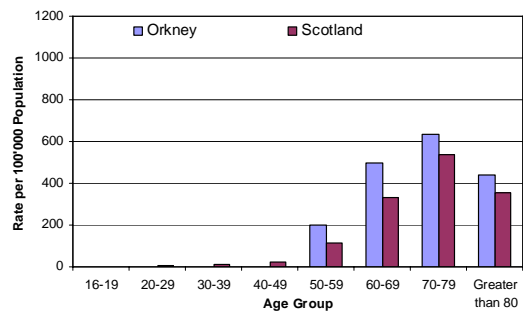


Figure 37 : Age Group Rate of Knee Replacements for Shetland

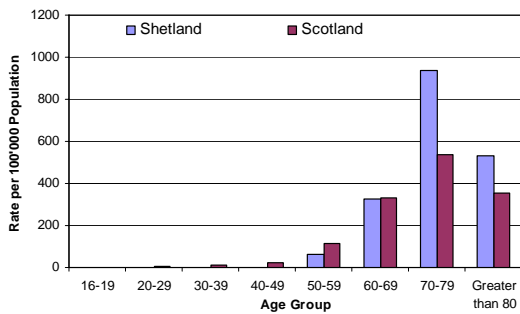


Figure 38 : Age Group Rate of Knee Replacements for Tayside

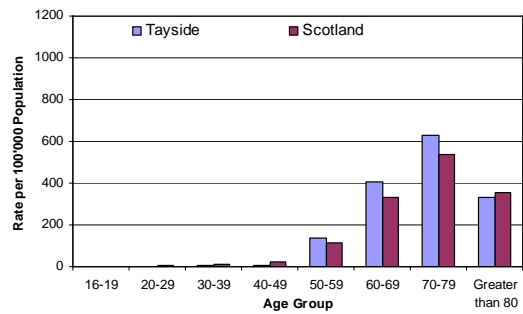


Figure 39 : Age Group Rate of Knee Replacements for Western Isles

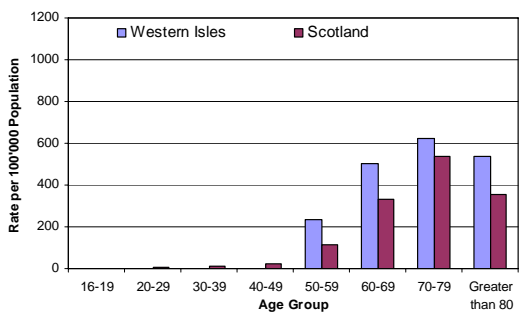


Figure 40 : Principal diagnosis of knee replacement patients split by age group

