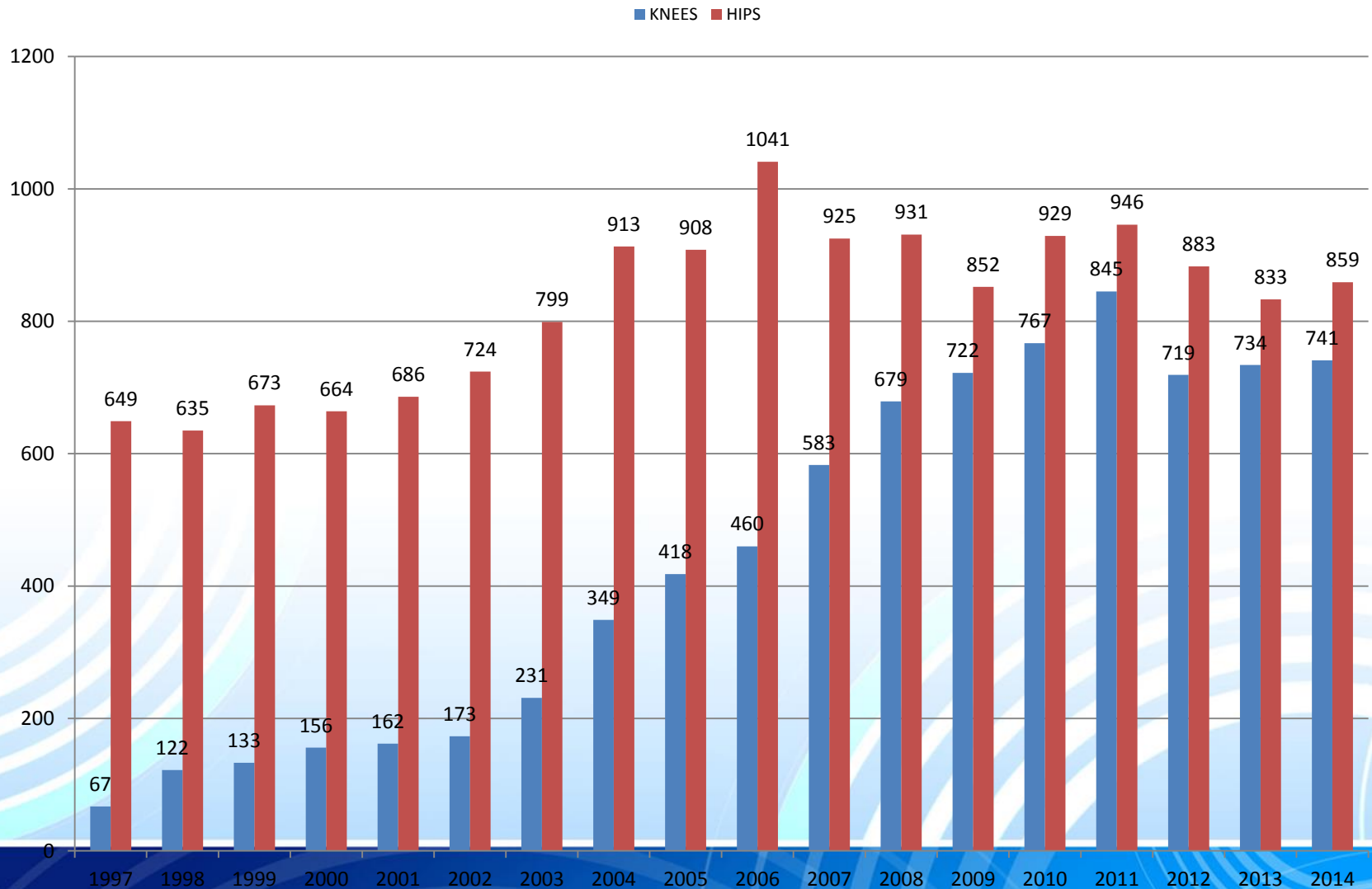




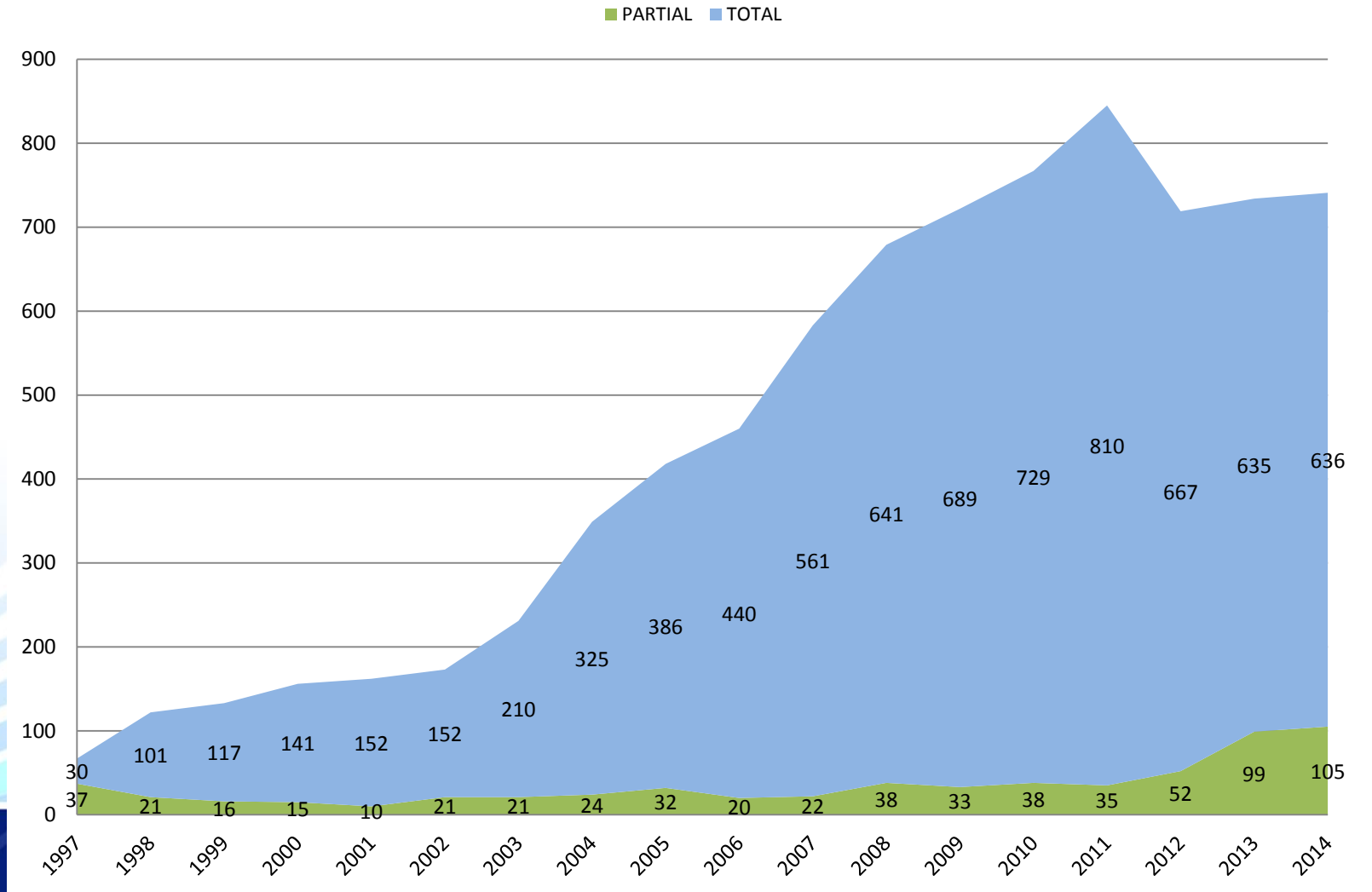
Valdoltra Knee Arthroplasty Registry 2002 - 2014

Vesna Levašič
Ingrid Milošev
9th December 2016

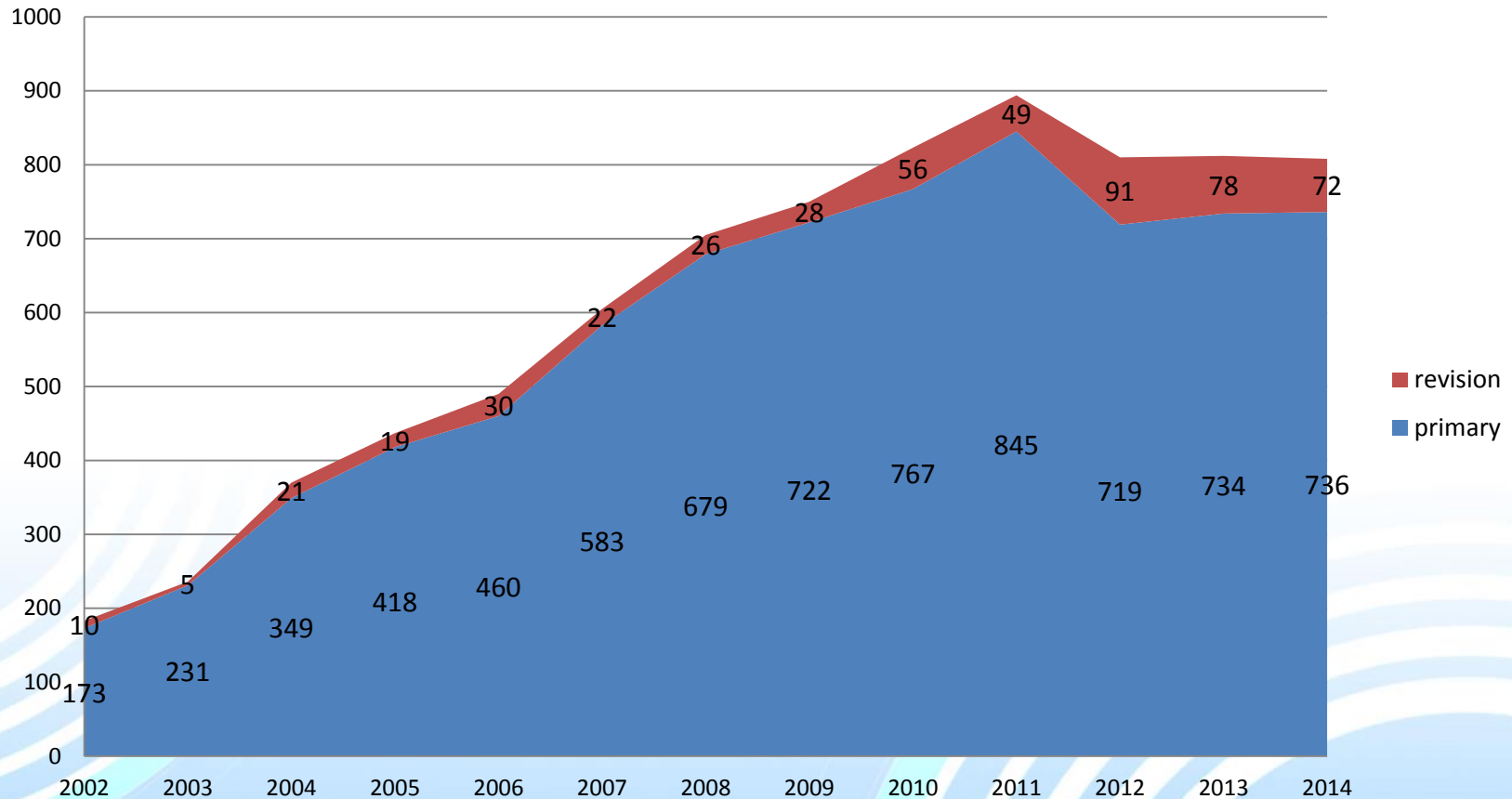
Primary Hip vs. Primary Knee Joint Replacement



Total and Partial Knee Joint Replacement

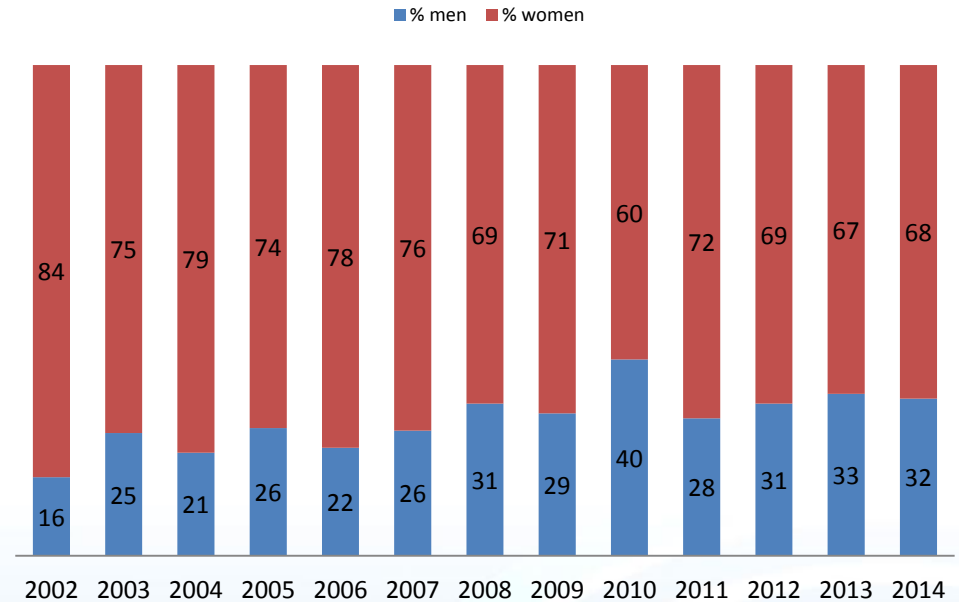


Primary vs. revision knee replacement

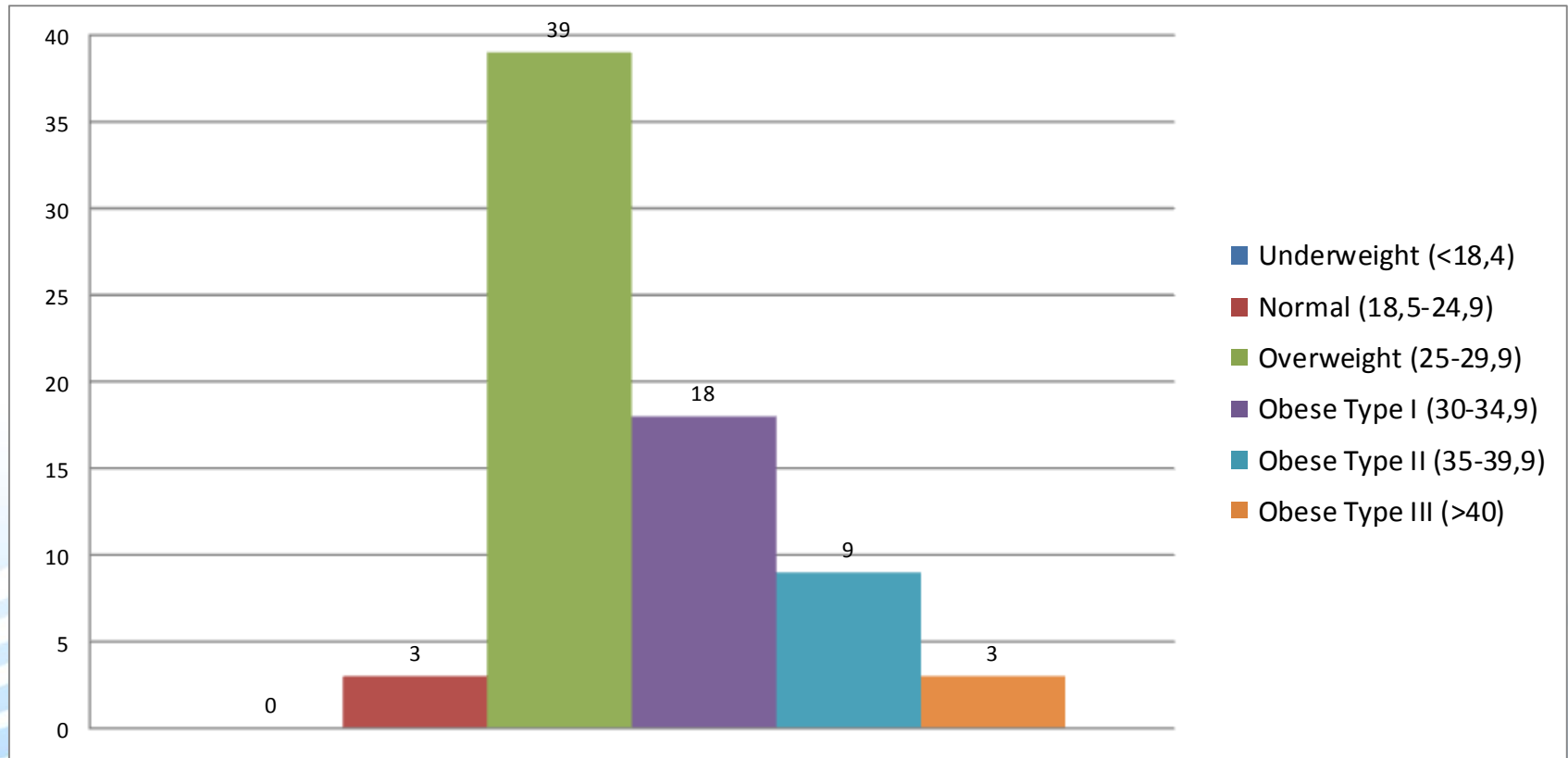


Patient data: age and gender

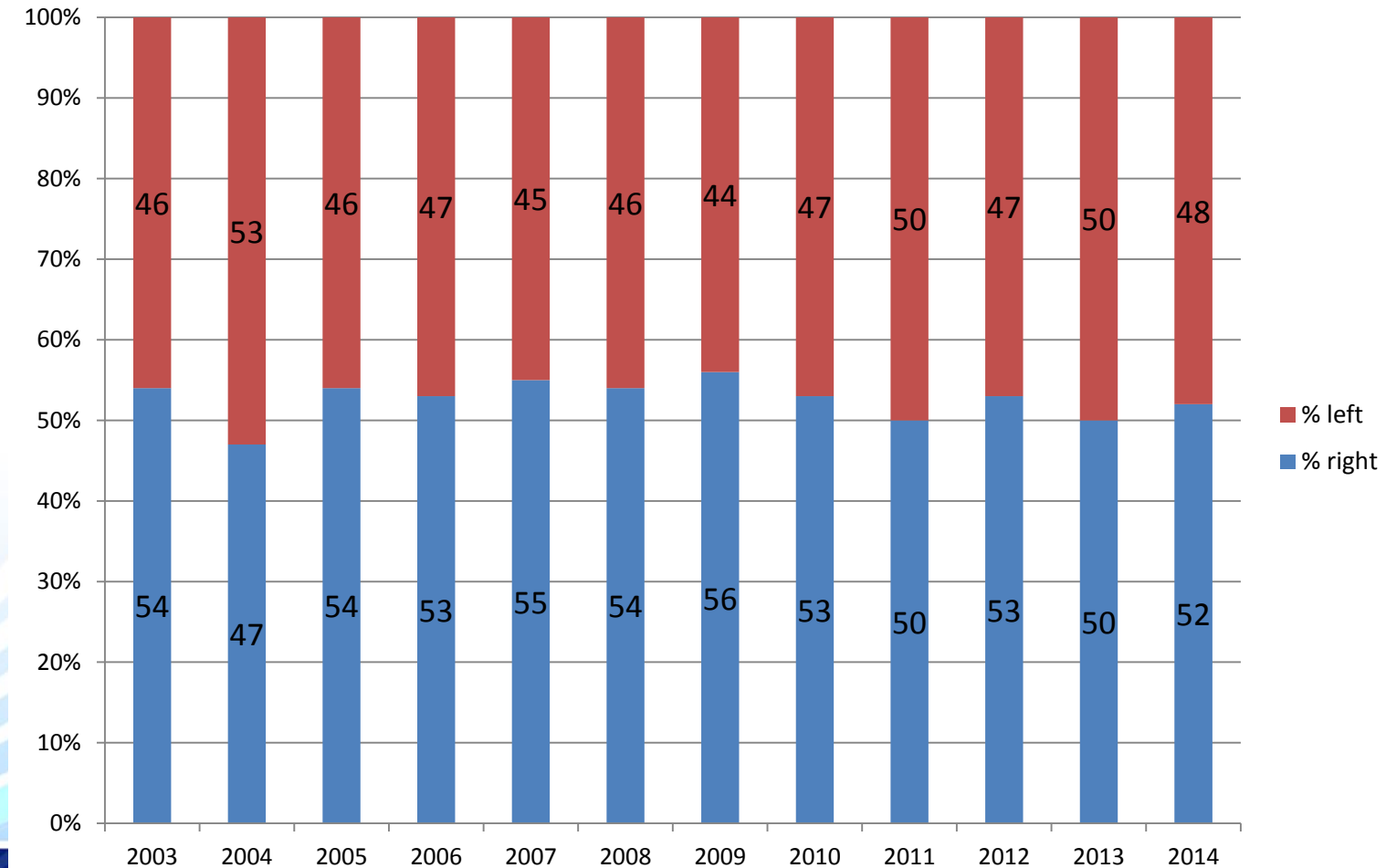
	Men	Women
2006	67 (40-80)	70 (43-84)
2007	69 (51-87)	71 (27-87)
2008	68 (40-85)	70 (32-87)
2009	68 (43-83)	71 (41-88)
2010	67 (33-86)	69 (40-87)
2011	67 (27-90)	70 (34-90)
2012	67 (41-82)	70 (48-89)
2013	67 (36-87)	70 (47-89)
2014	66 (30-87)	69 (41-89)



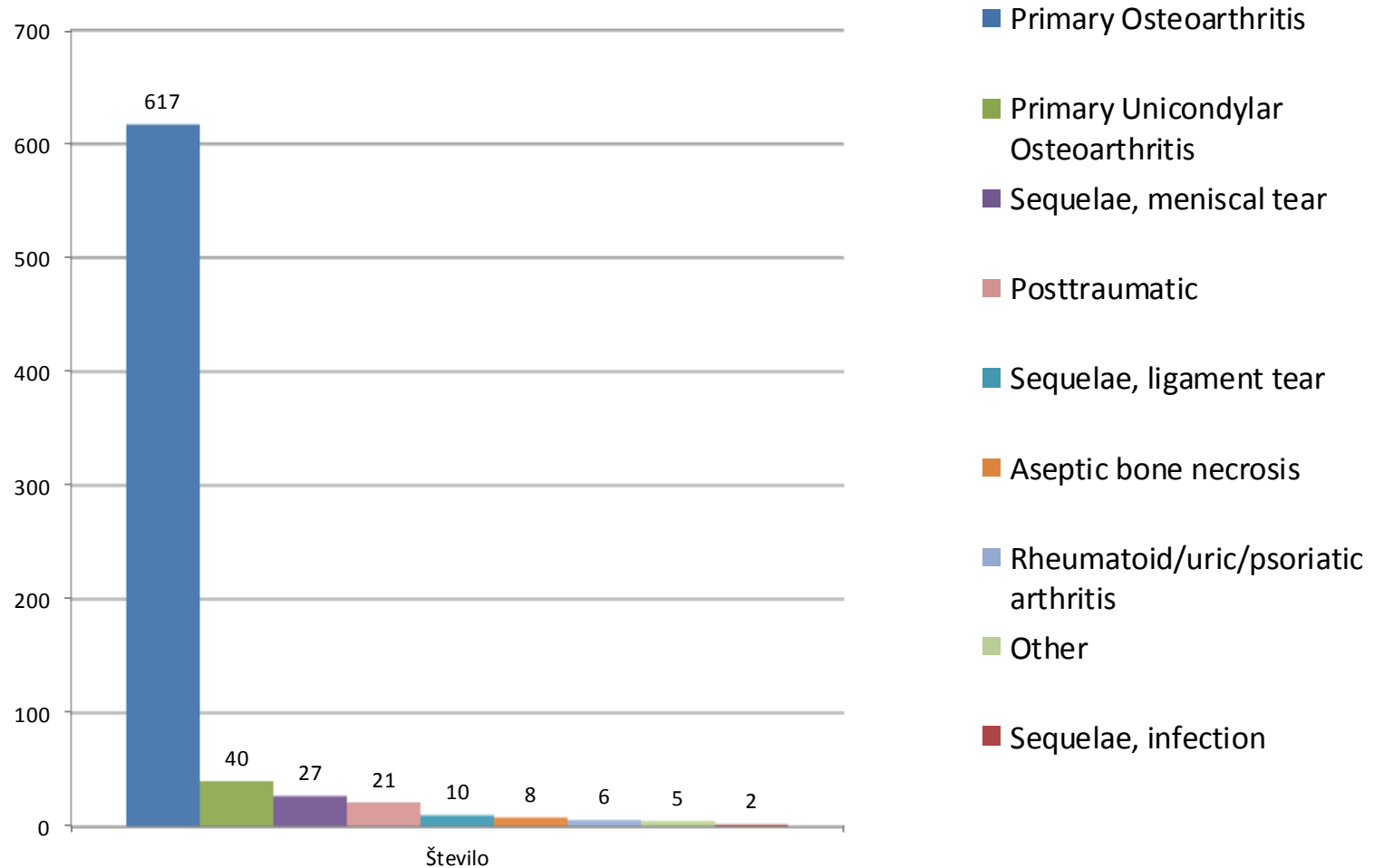
BMI of patients in 2014: average 31,4; min 17,0; max 44,3



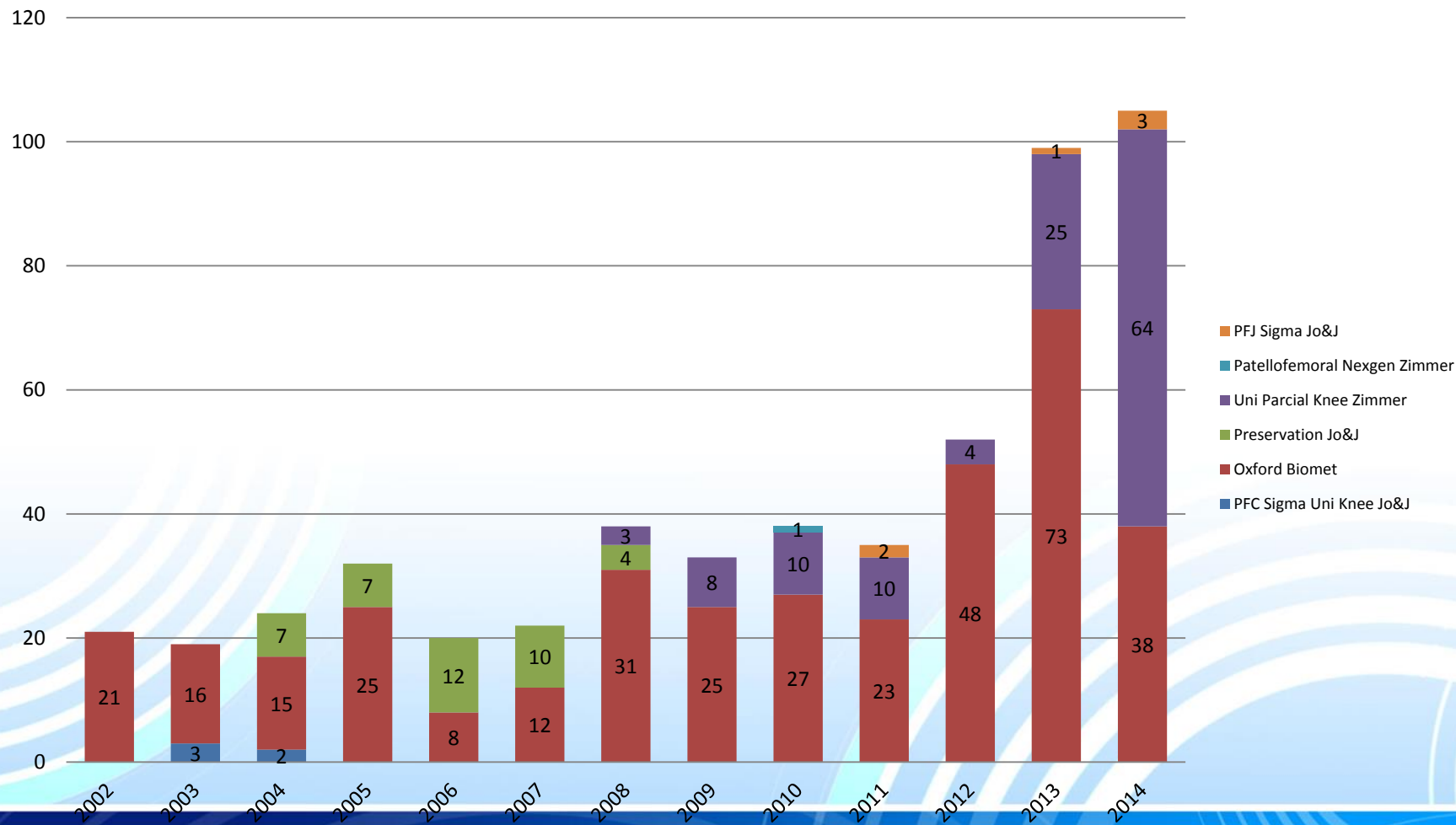
Side of operated knee 2003-14



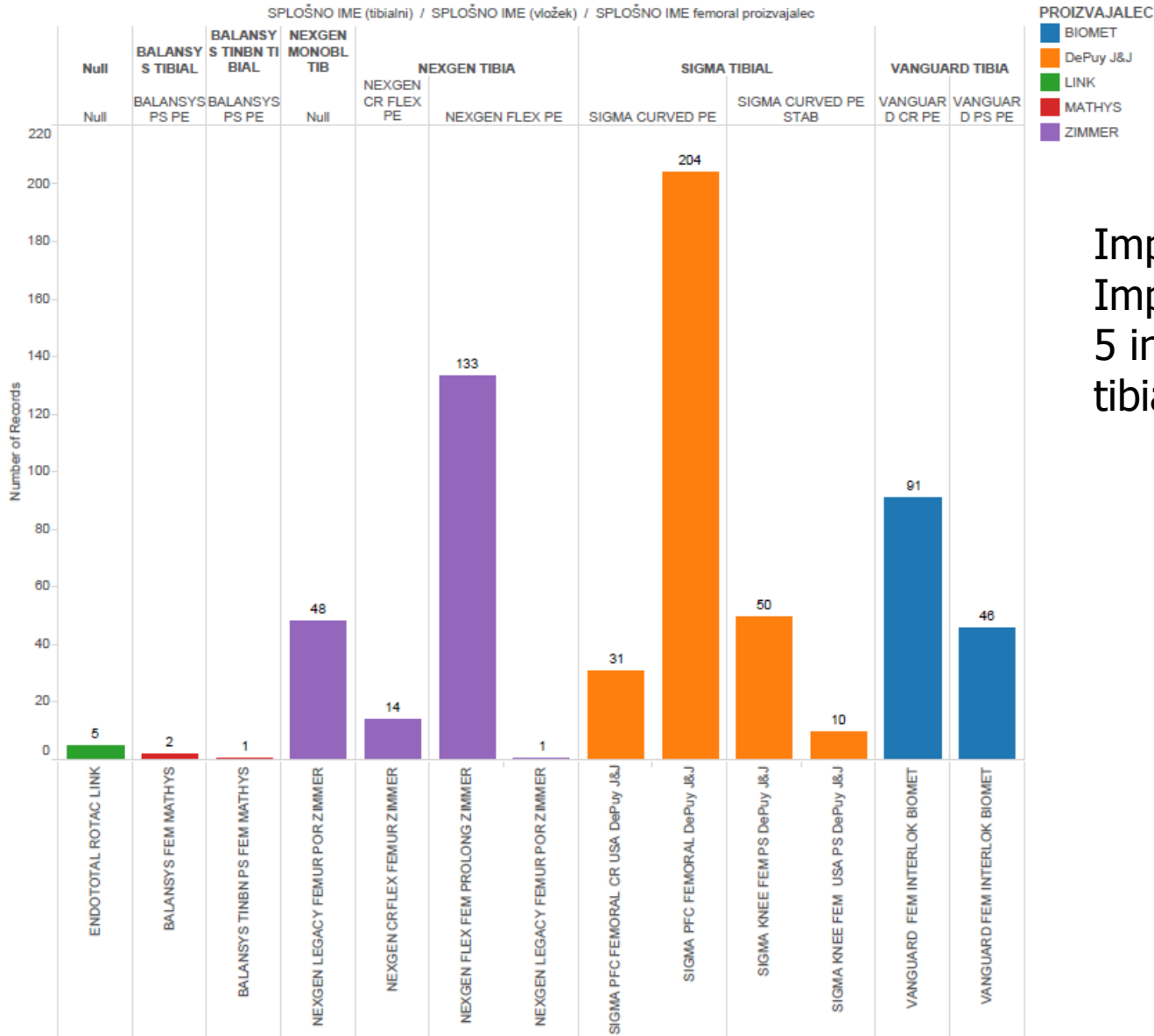
Preoperative diagnosis 2014



Unicondylar Knee Prostheses from 2002 do 2014

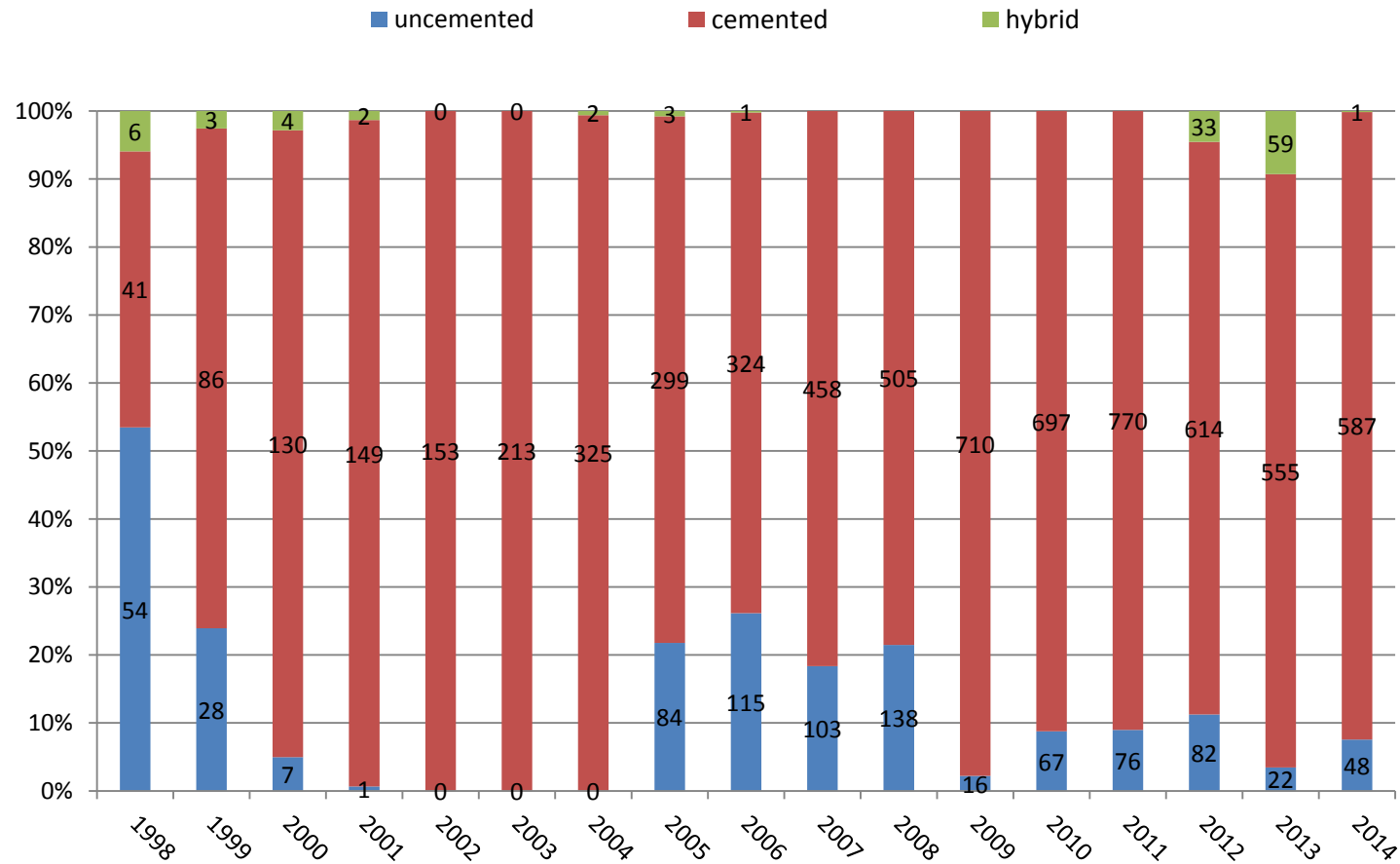


Primary TKR in 2014, sum 636



Implanted with patela: 7
 Implanted infibuli:
 5 in both parts, 2 only
 tibial

Knee replacement by use of cement



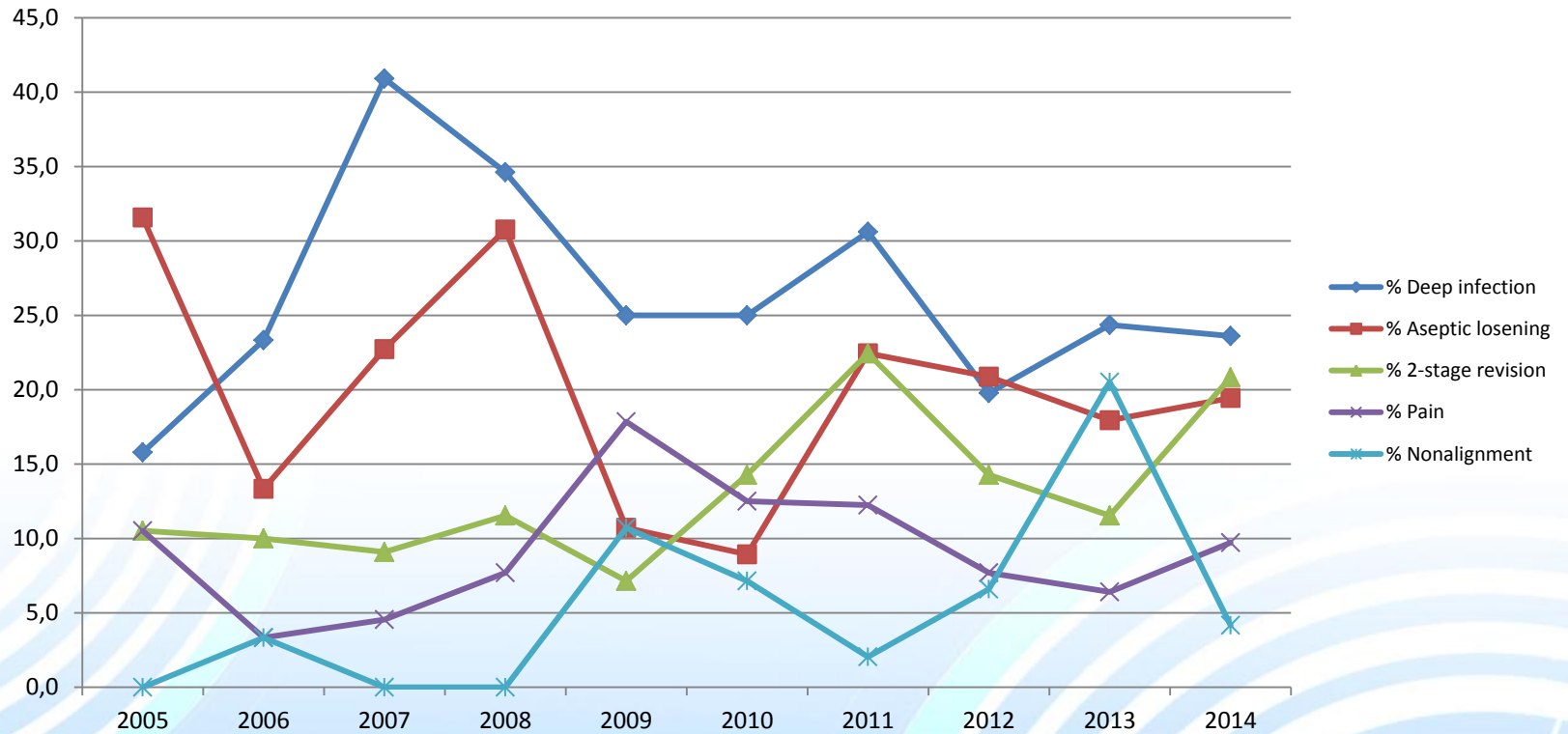
REVISION OPERATIONS OF KNEE JOINT REPLACEMENTS

In 2014: 72 revisions at 66 patients

Reasons for revision knee vs. hips 2002-2014

Period 2002-2014	Knee (%)	Hips (%)
Deep infection	24,65	11,78
Aseptic loosening	19,13	60,61
Nonalignment, malposition	18,54	0,0
2-stage revision	14,00	6,09
Pain	8,68	2,12
OA of other compartment	5,92	0,00
Other (wear of PE, ...)	5,13	3,01
Dislocation	1,58	4,42
Periprosthetic fracture	1,38	6,99
Implant broken	0,99	2,74
Osteolysis	0,00	2,24

Reasons for revision TKR from 2005 to 2014(%)



REVISION BURDEN – ALL REVISIONS

Year	RB (revision burden) = N° of revisions*100/(N° of primaries+ N° of revisions) in %	N° of revisions for infection*100 / (N° of primaries+ N° of revisions) in %
2002	5,46	1,09
2003	2,12	0,00
2004	5,68	0,81
2005	4,35	0,92
2006	6,12	1,22
2007	3,64	1,49
2008	3,69	1,28
2009	3,73	0,93
2010	6,80	1,46
2011	5,48	1,23
2012	11,23	1,98
2013	9,61	1,60
2014	8,91	1,86
Average OBV	5,91	1,22
Norway 15	7,54	1,15
NJR 15	5,40	0,98

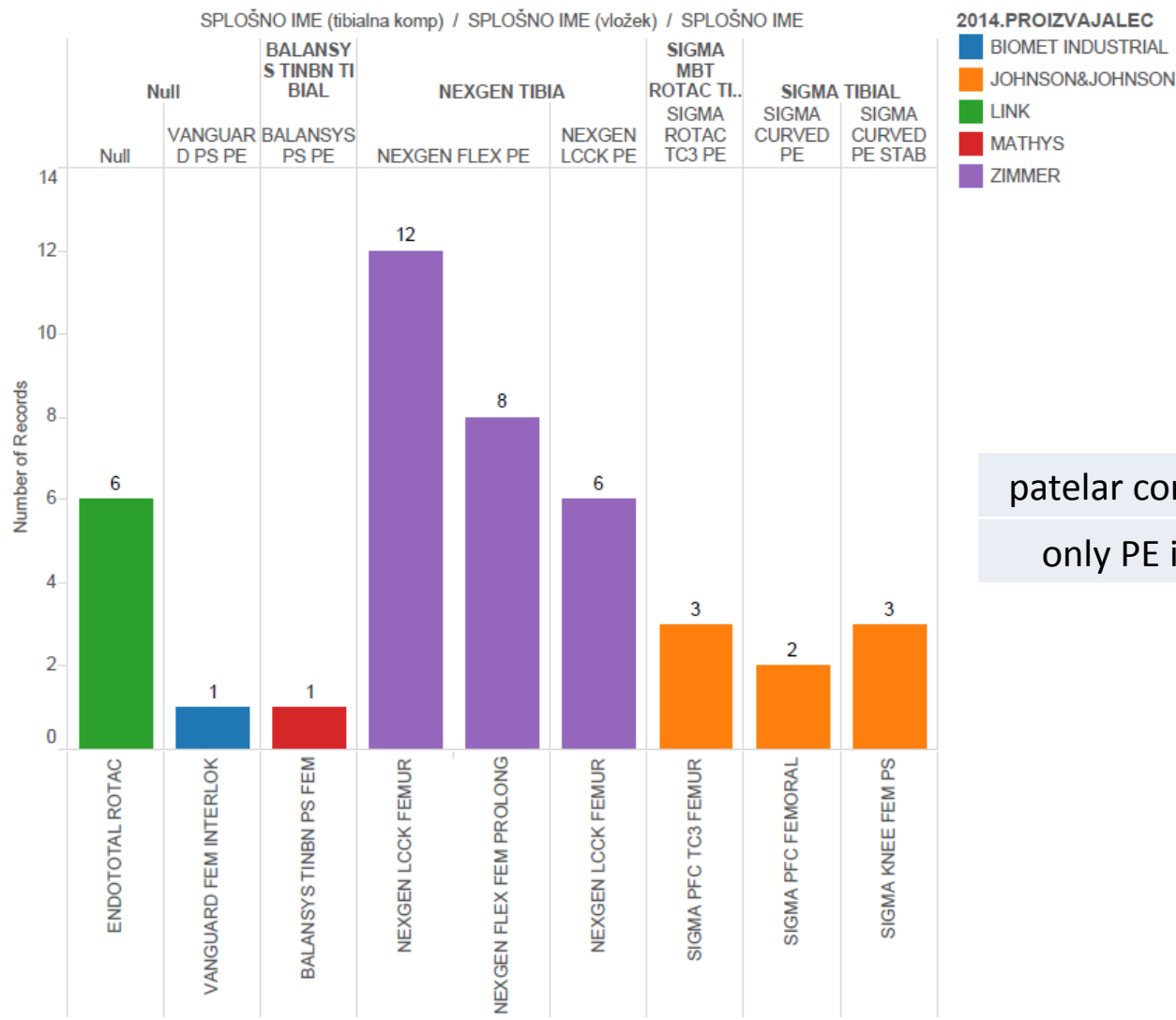
Revisions per 100 observed component years - knees

Year	Mean Follow up period (years)	Revision rate	Number primary cases	Number of all revisions	Number of first revisions in this FU period	Revision rate for revisions in this FU period	Observed component years	Revisions per 100 observed component years
2002	0,46	5,46	173	10	0	0,00	79,81	0,00
2003	0,88	3,58	404	15	0	0,00	354,16	0,00
2004	1,22	4,56	753	36	6	0,76	922,31	0,65
2005	1,60	4,49	1171	55	12	0,98	1873,54	0,64
2006	2,03	4,95	1631	85	21	1,22	3305,12	0,64
2007	2,36	4,61	2214	107	29	1,25	5216,43	0,56
2008	2,69	4,40	2893	133	39	1,29	7771,63	0,50
2009	3,05	4,26	3615	161	54	1,43	11015,85	0,49
2010	3,43	4,72	4382	217	82	1,78	15008,65	0,55
2011	3,79	4,84	5227	266	99	1,80	19818,78	0,50
2012	4,27	5,66	5946	357	136	2,16	25414,18	0,54
2013	4,75	6,11	6680	435	172	2,42	31728,17	0,54
2014	5,23	6,40	7416	507	259	3,27	38776,10	0,67

Revision rate for knee prostheses from 02 to14

Name of implant	All implanted	removed	% revisions
Balansys Mathys	15	0	0,00
PFJ Sigma Jo&J	6	0	0,00
Sigma Knee HIBRID Jo&J	114	0	0,00
Sigma Knee Jo&J	414	1	0,24
Uni Parcial NexGen Zimmer	124	1	0,81
Solution S&N	1152	22	1,91
Sigma PFC Jo&J	1790	35	1,96
Nexgen Monobloc ZIMMER	758	15	1,98
Vanguard Biomet	276	6	2,17
AGC Biomet	747	24	3,21
Nexgen Knee ZIMMER	1110	44	3,96
Advance WRIGHT	300	15	5,00
Preservation Jo&J	40	2	5,00
Nexgen LCCK Zimmer	32	2	6,25
Oxford Biomet	362	28	7,73
Endomodel LINK	47	4	8,51
Genesis S&N	33	3	9,09

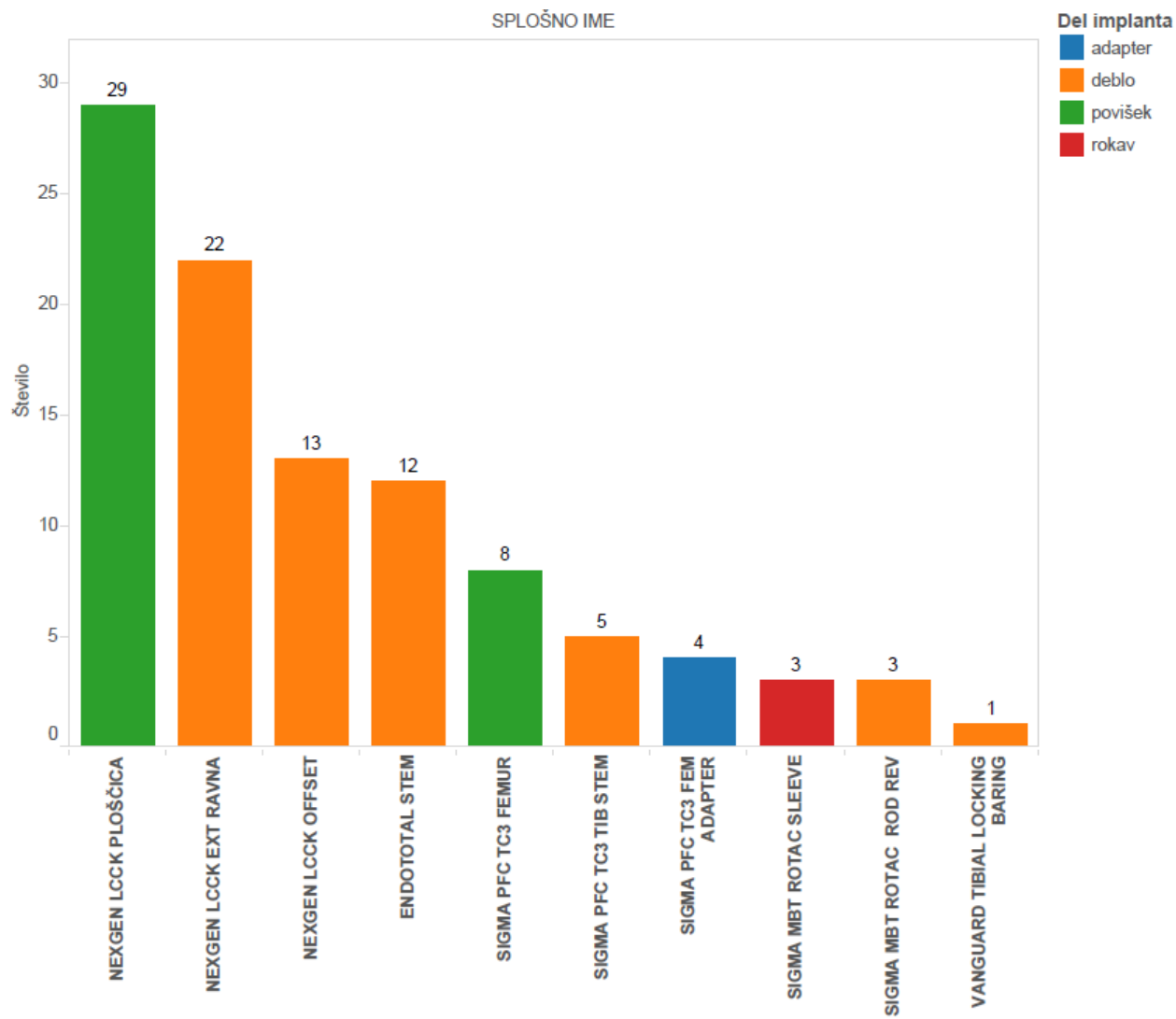
Revision TKR components in 2014



patelar component added	6
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only PE inlay exchange	4
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Added stems, sleeves, augments and adapters in revisions in 2014



Removed components



Acknowledgments to:

- the director of Valdoltra Orthopaedic Hospital Radoslav Marčan, dr. med., spec. ortop.
- all the orthopaedic surgeons, who perform knee arthroplasty in Valdoltra Hospital
- all other medical and administrative staff, who are involved in the process of registration in Valdoltra Arthroplasty Registry

