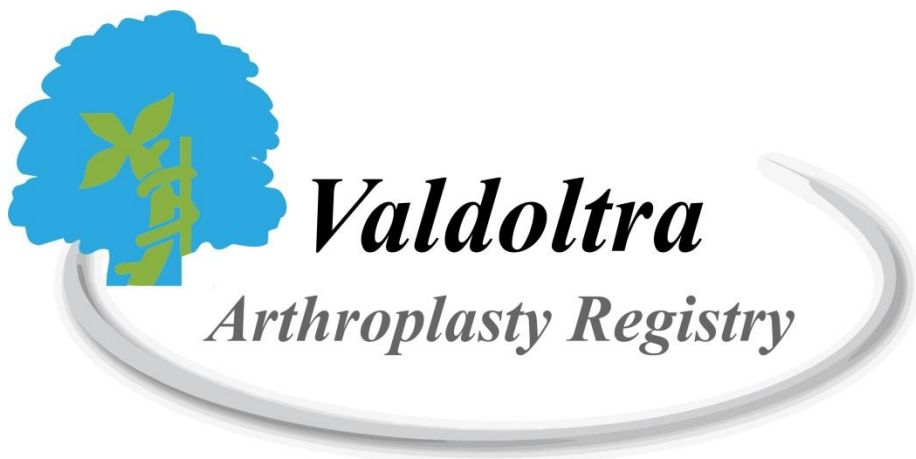


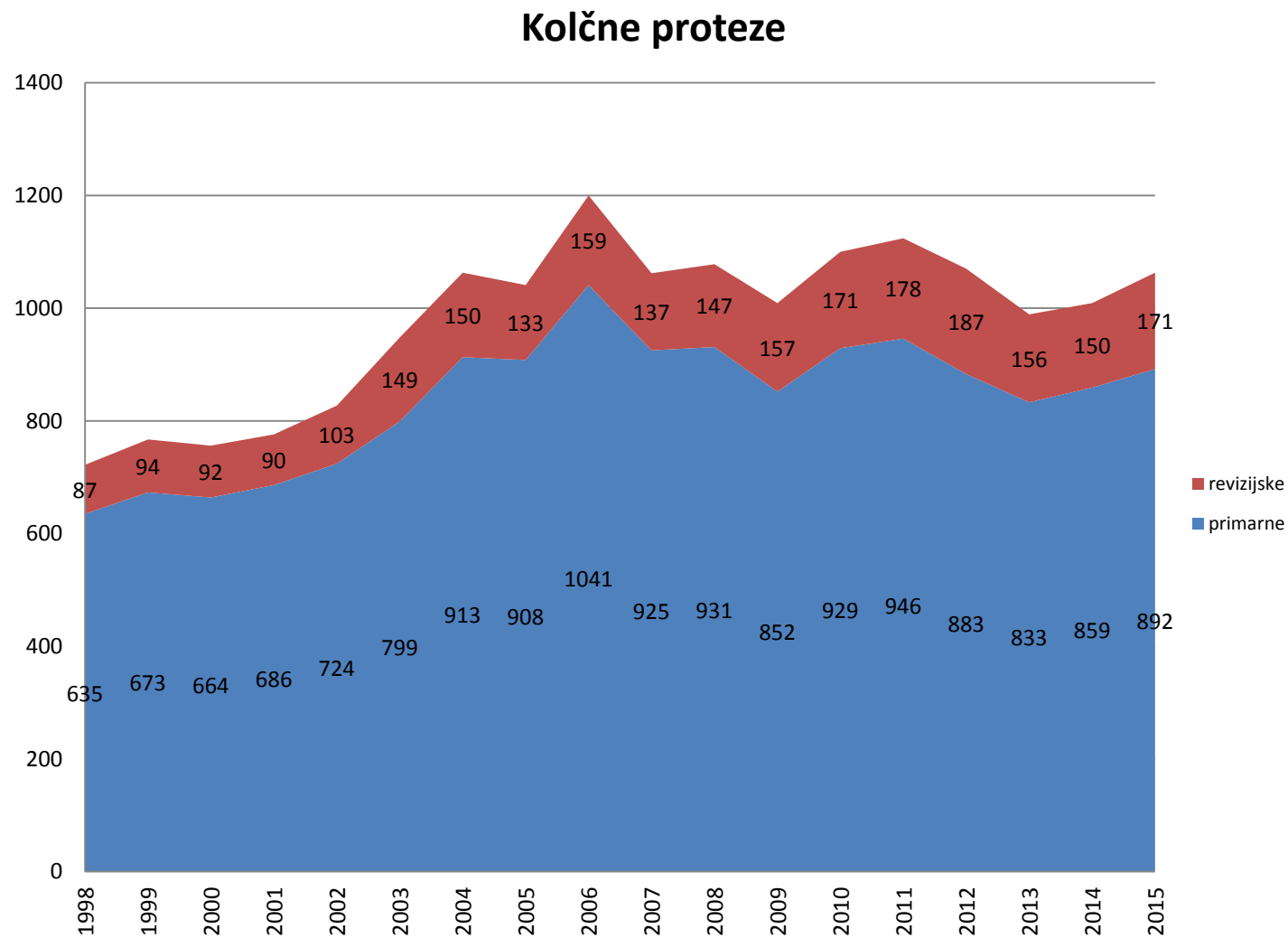
VALDOTRA HIP ARTHROPLASTY REGISTRY REPORT 2015



Vesna Levašič, MD
prof. dr. Ingrid Milošev, PhD
5th December 2016



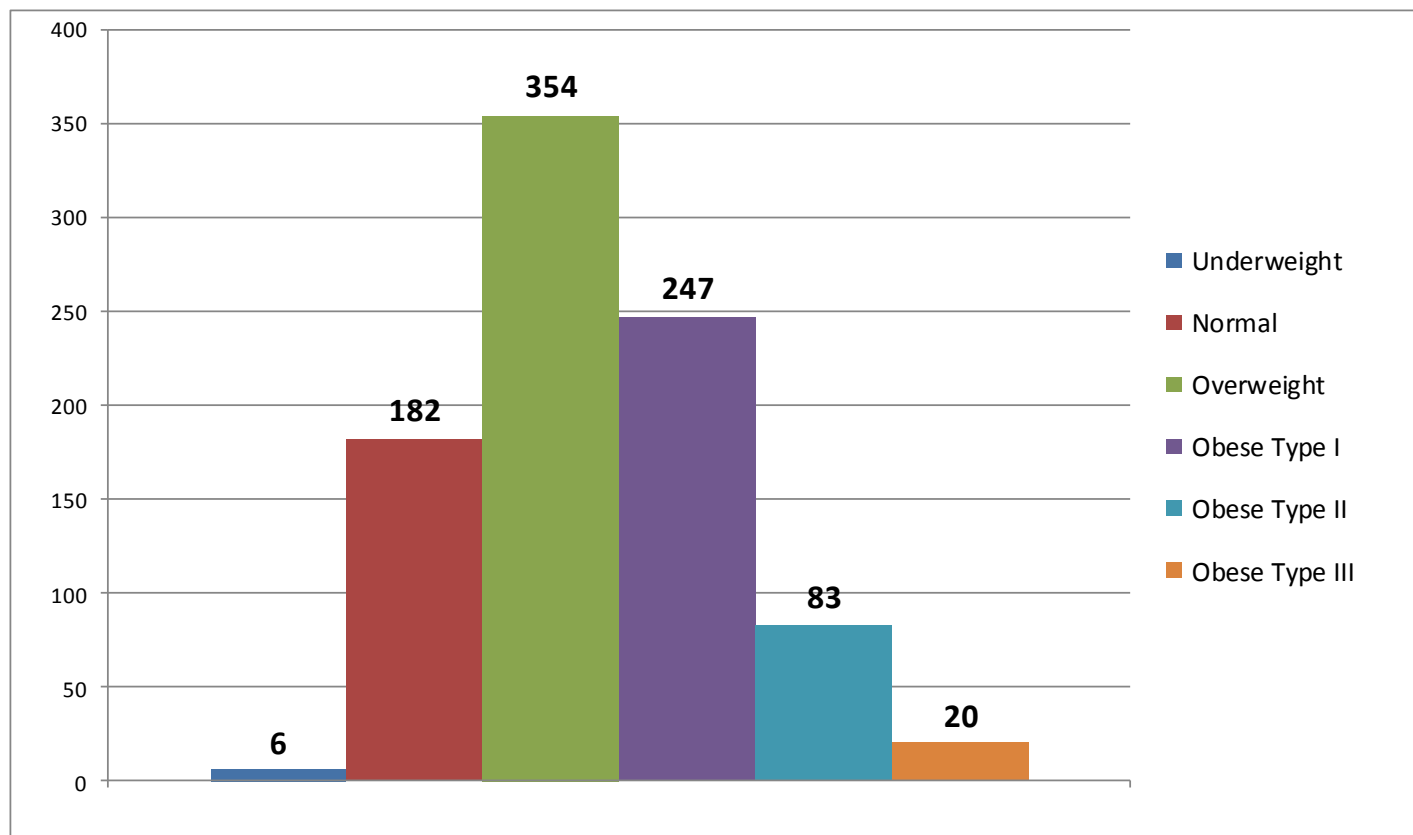
Primary and revision THR by year



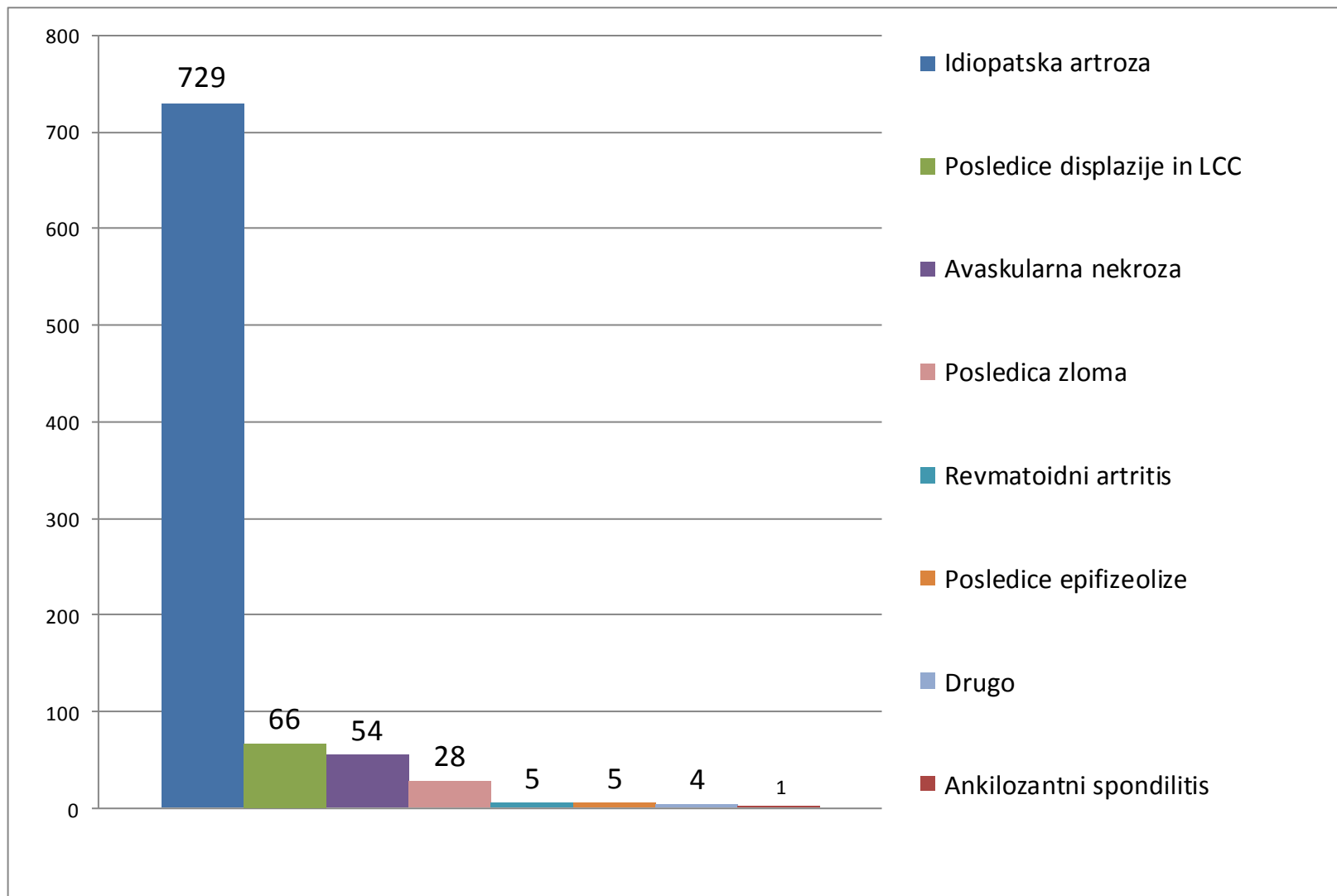
Patient data for primary THR 2015

- Men-Women= 45% and 55%
- Average age= 64 y men and 68 y women
- Right - Left = 52% and 48%
- Average preoperative Harris Hip Score = 55 ± 16 pts
- Approach in 75 % direct lateral, in 23 % anterior and in 2 % anterolateral
- Average duration of operation 65 ± 19 min
- Systemic antibiotic prophylaxis at all operations

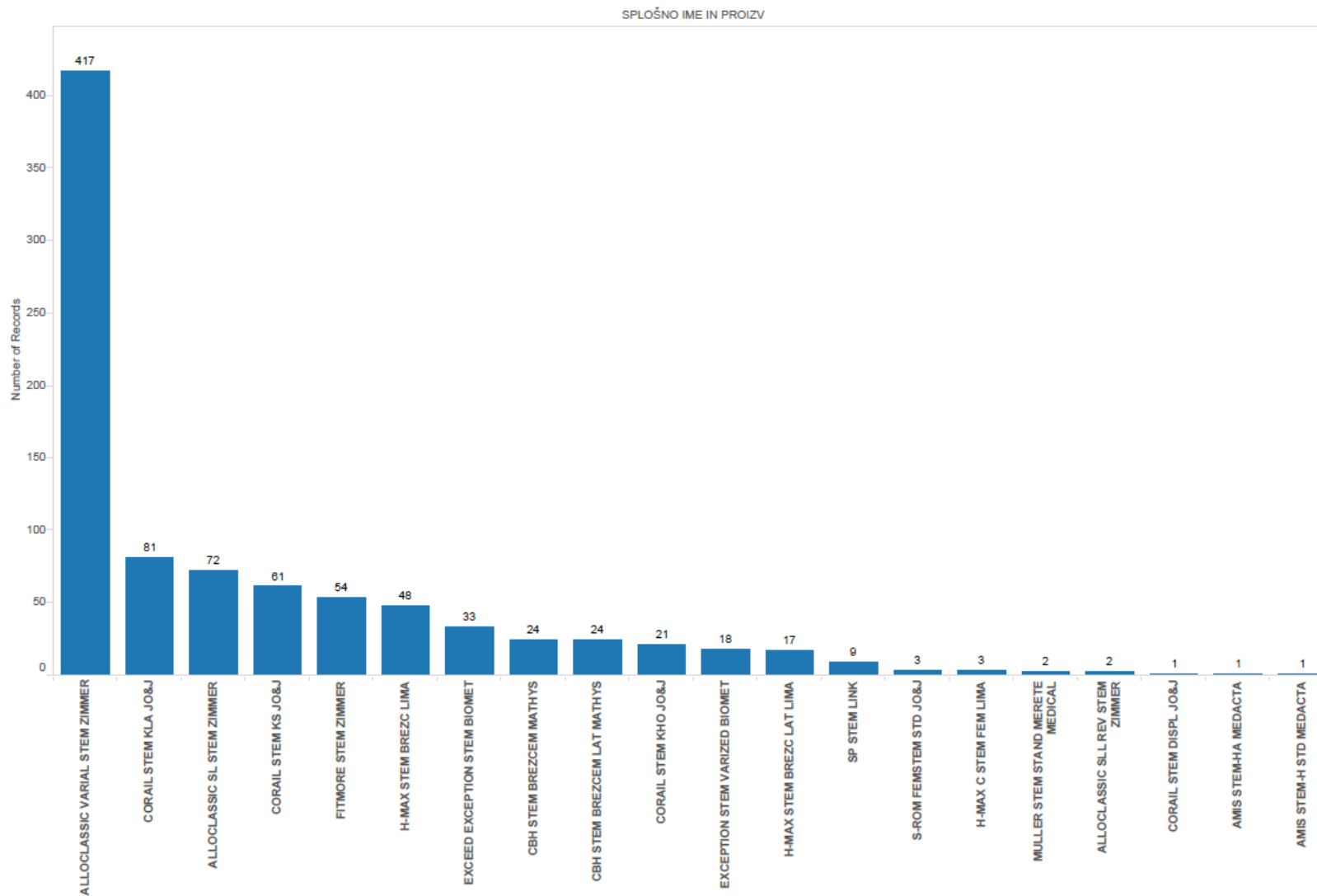
BMI index for primary THR



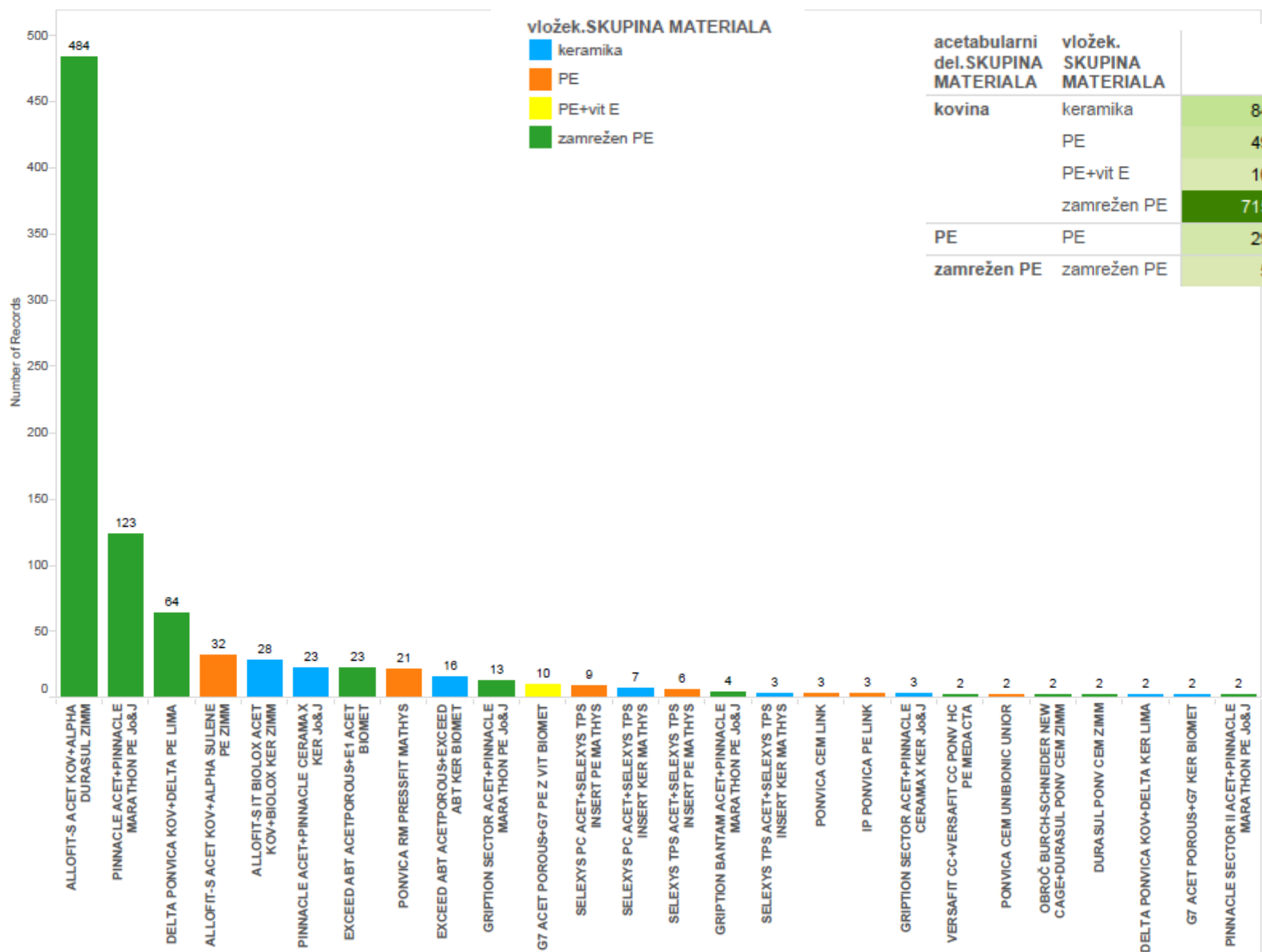
Preoperative diagnosis for primary THR in 2015



PRIMARY STEMS in 2015, sum 892

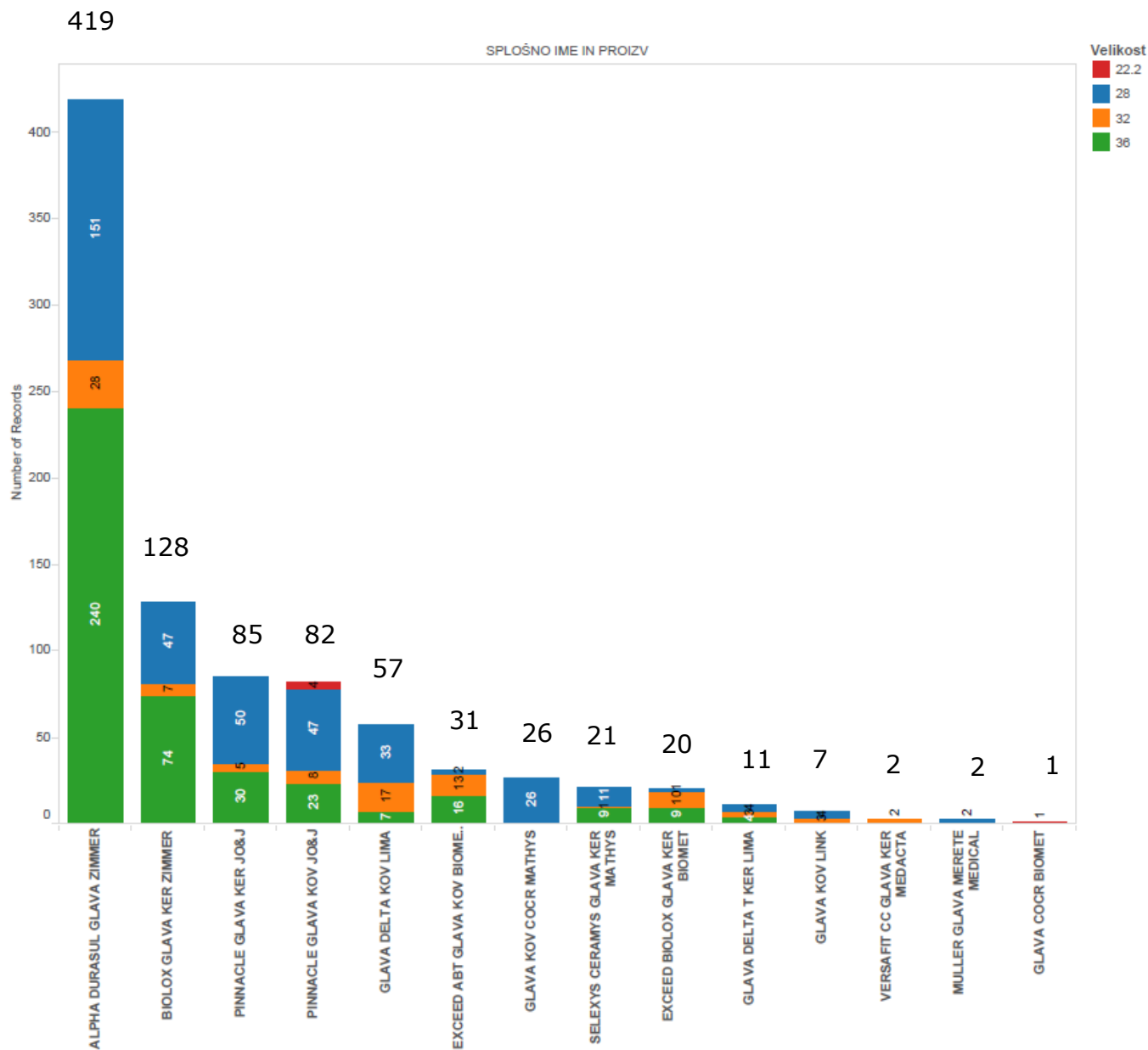


PRIMARY ACETABULAR COMPONENTS in 2015, sum 892

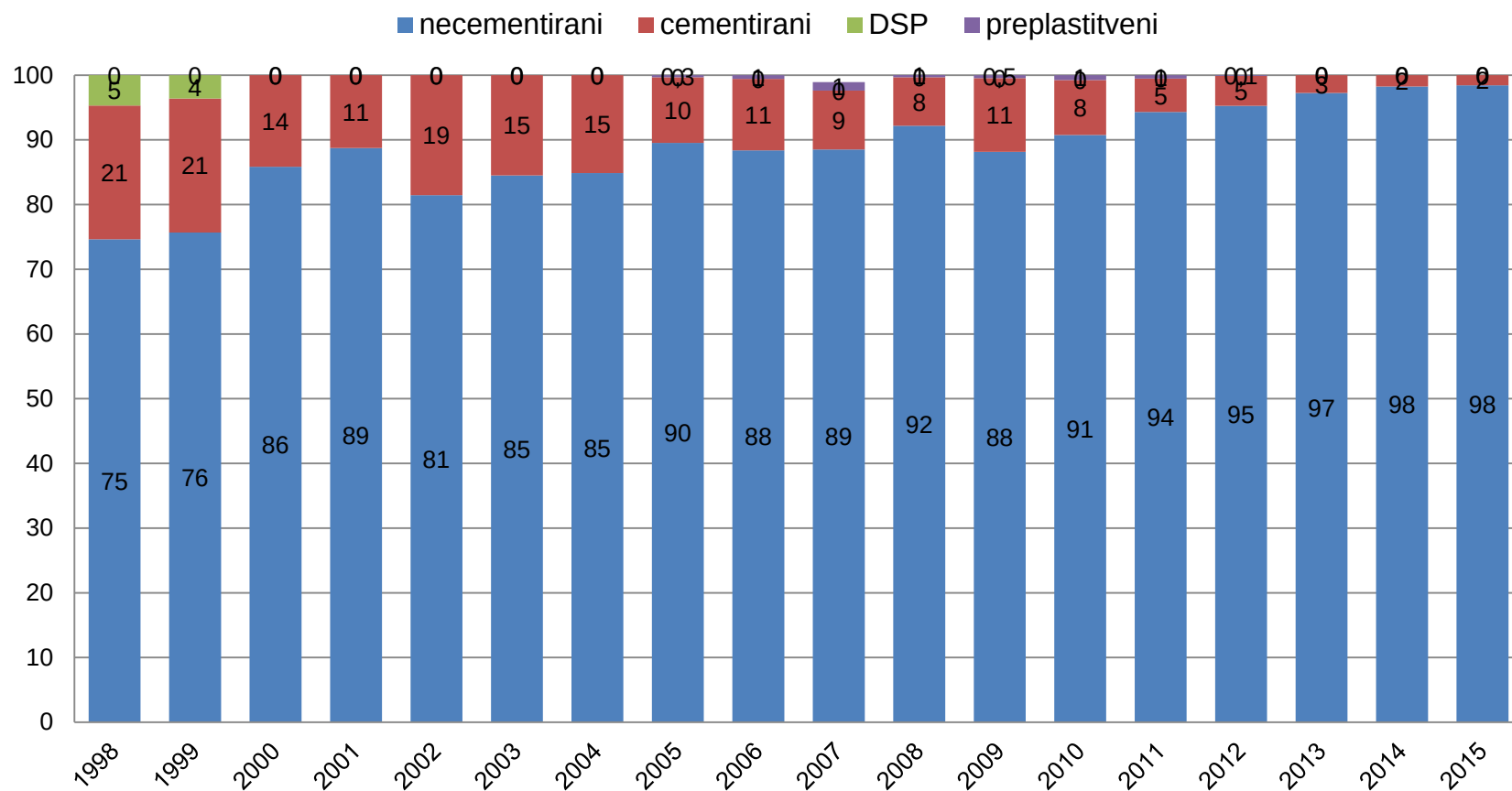


720 (81%) ponvic iz zamreženega polietilena: 715 press fit, 5 cementiranih

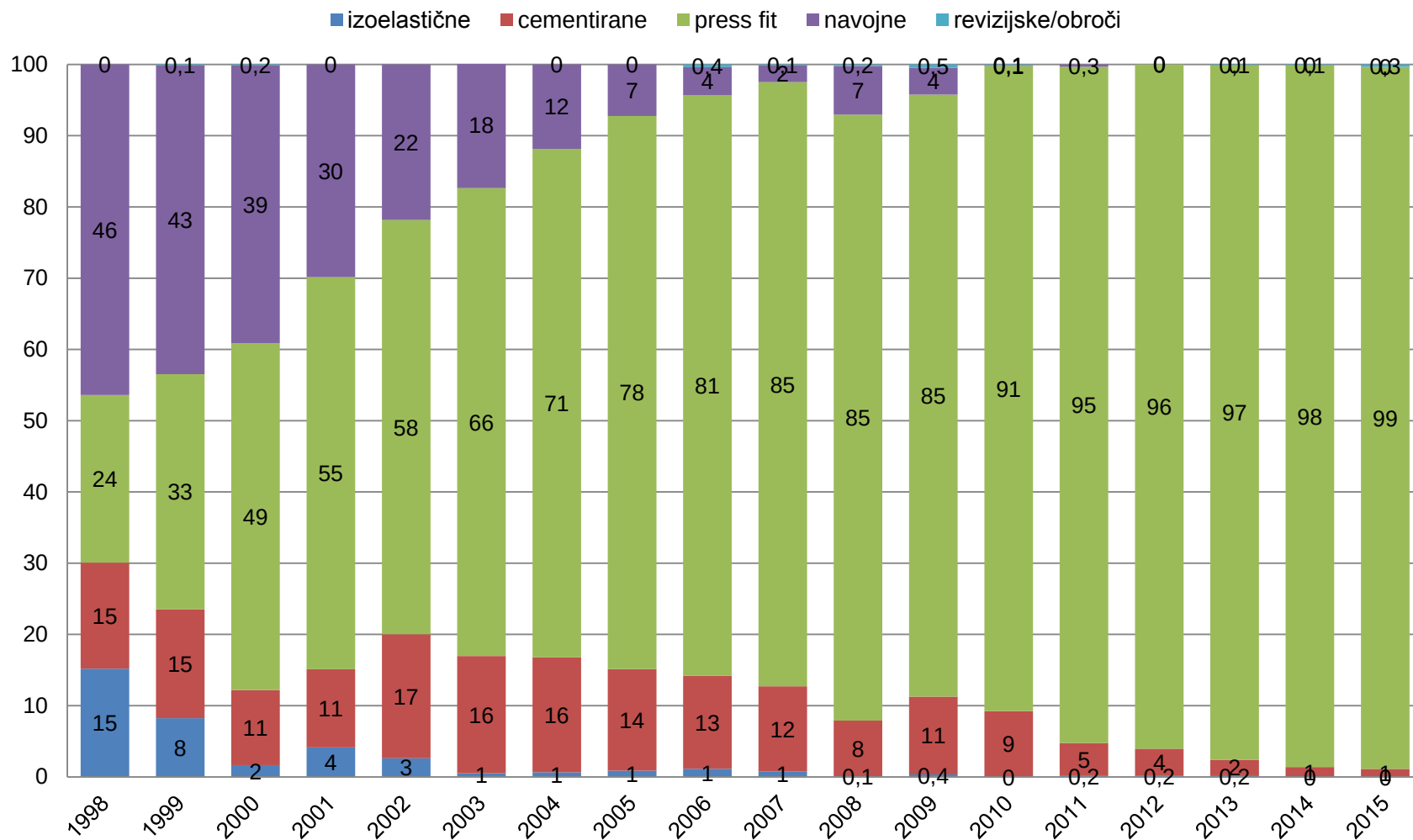
PRIMARY HEADS 2015, sum 892



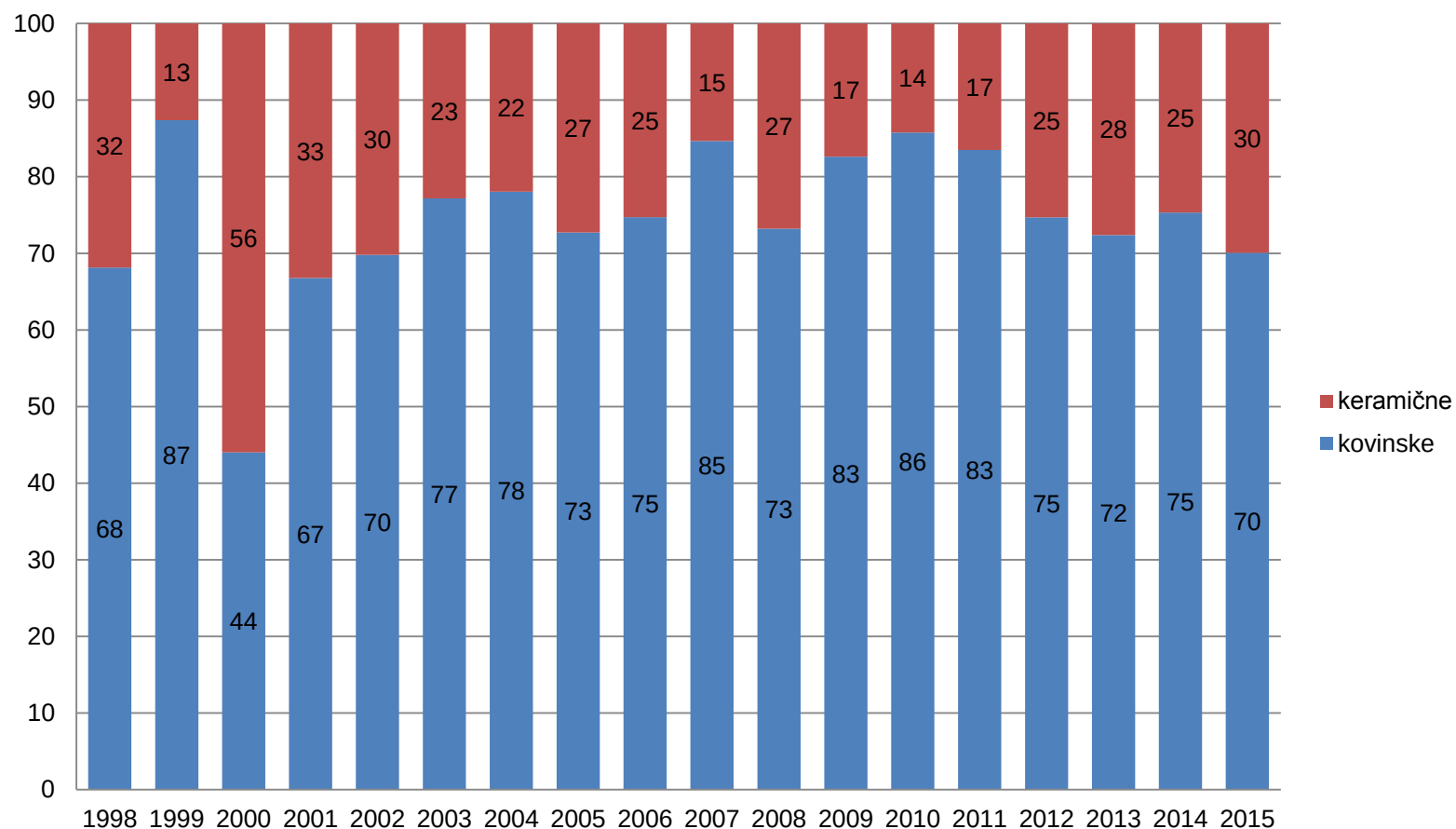
Cemented, uncemented stems, trust-plate and resurfacing prostheses 1998 - 2015



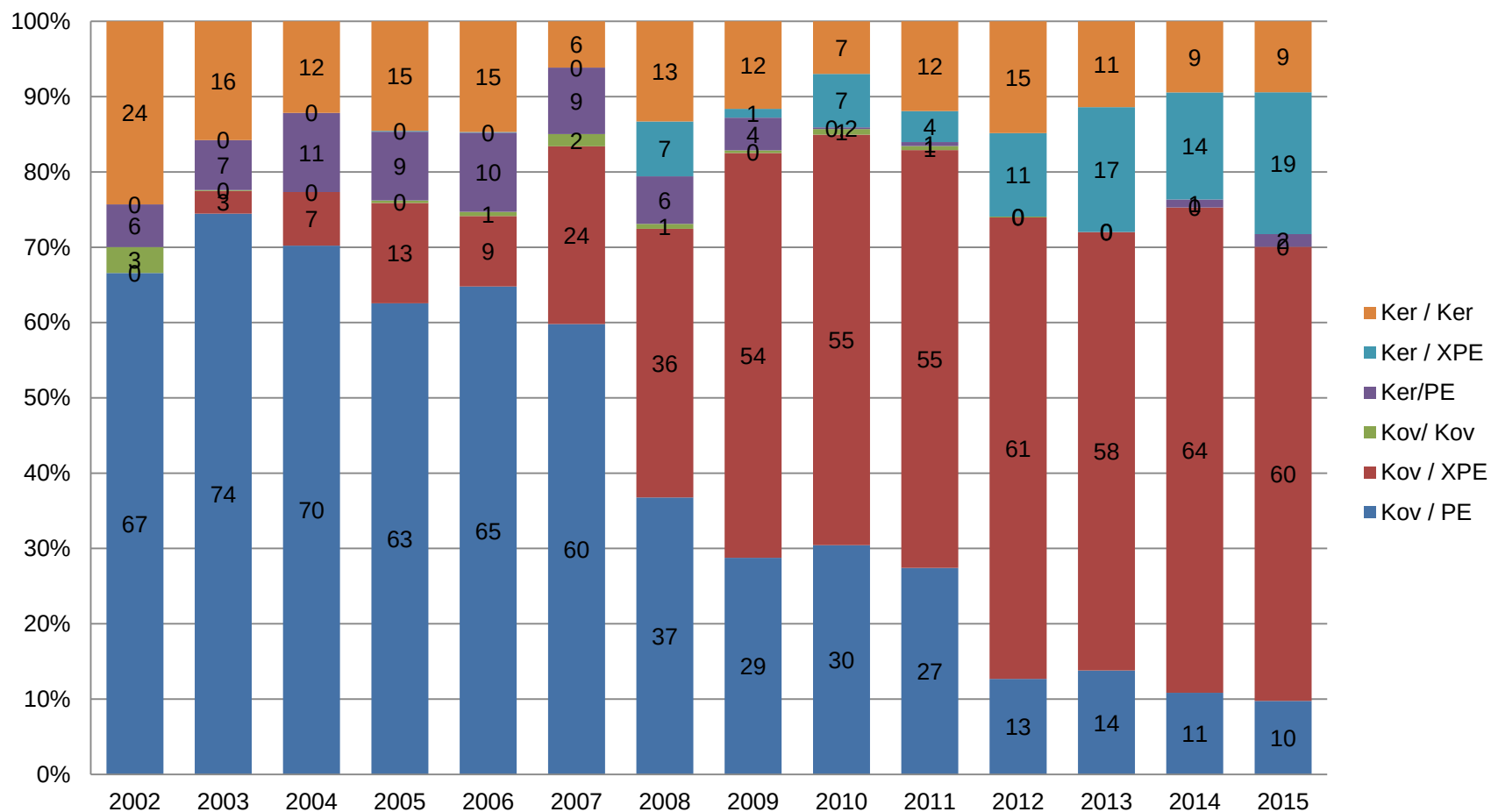
Primary cups by fixation 1998 - 2015



Percentage of metal and ceramic heads 1998 - 2015



Bearing surface 2002 - 2015



REVISION OPERATIONS IN 2015

171 revisions at 152 patients

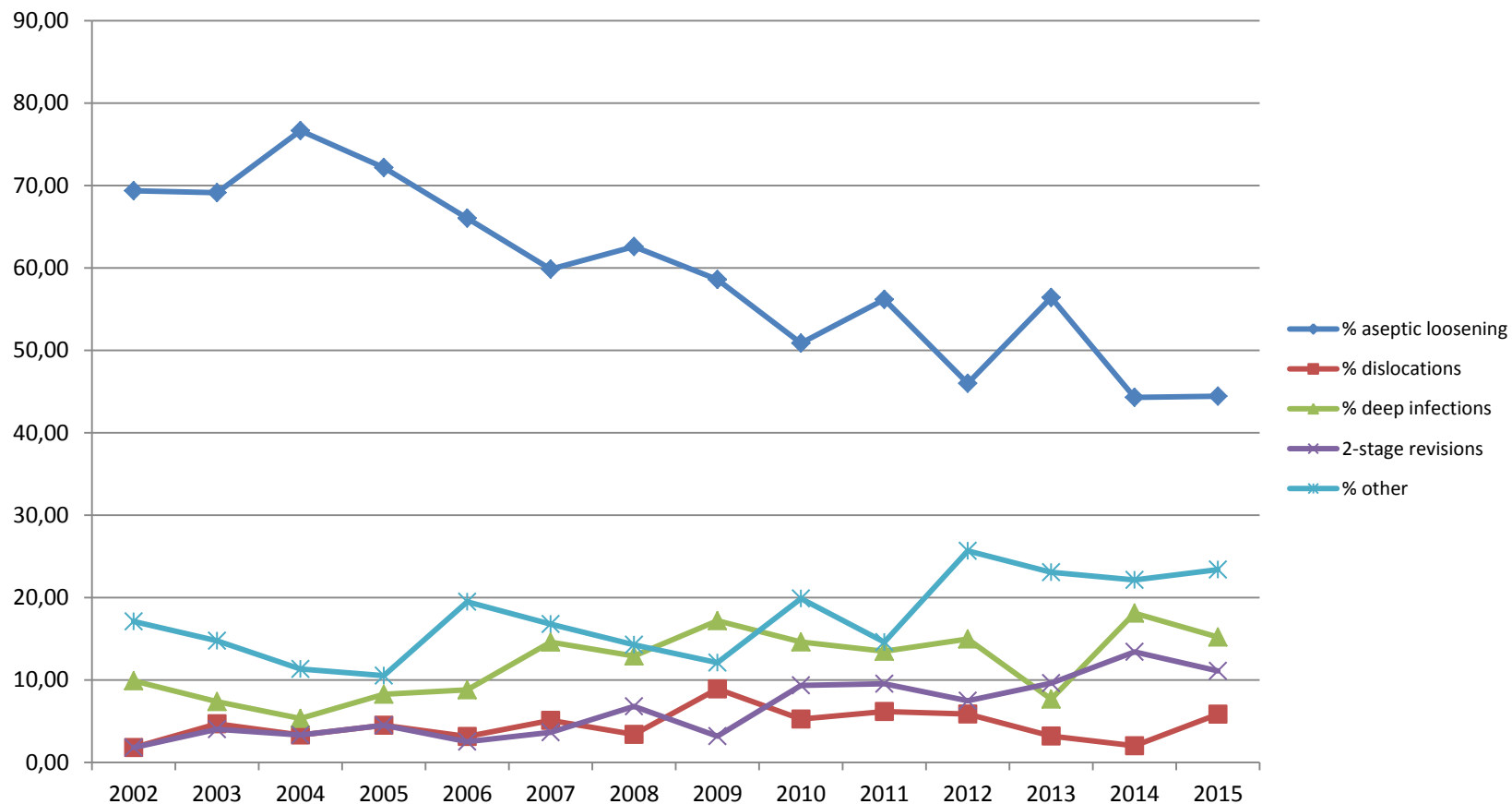
Patient data for revisions 2015

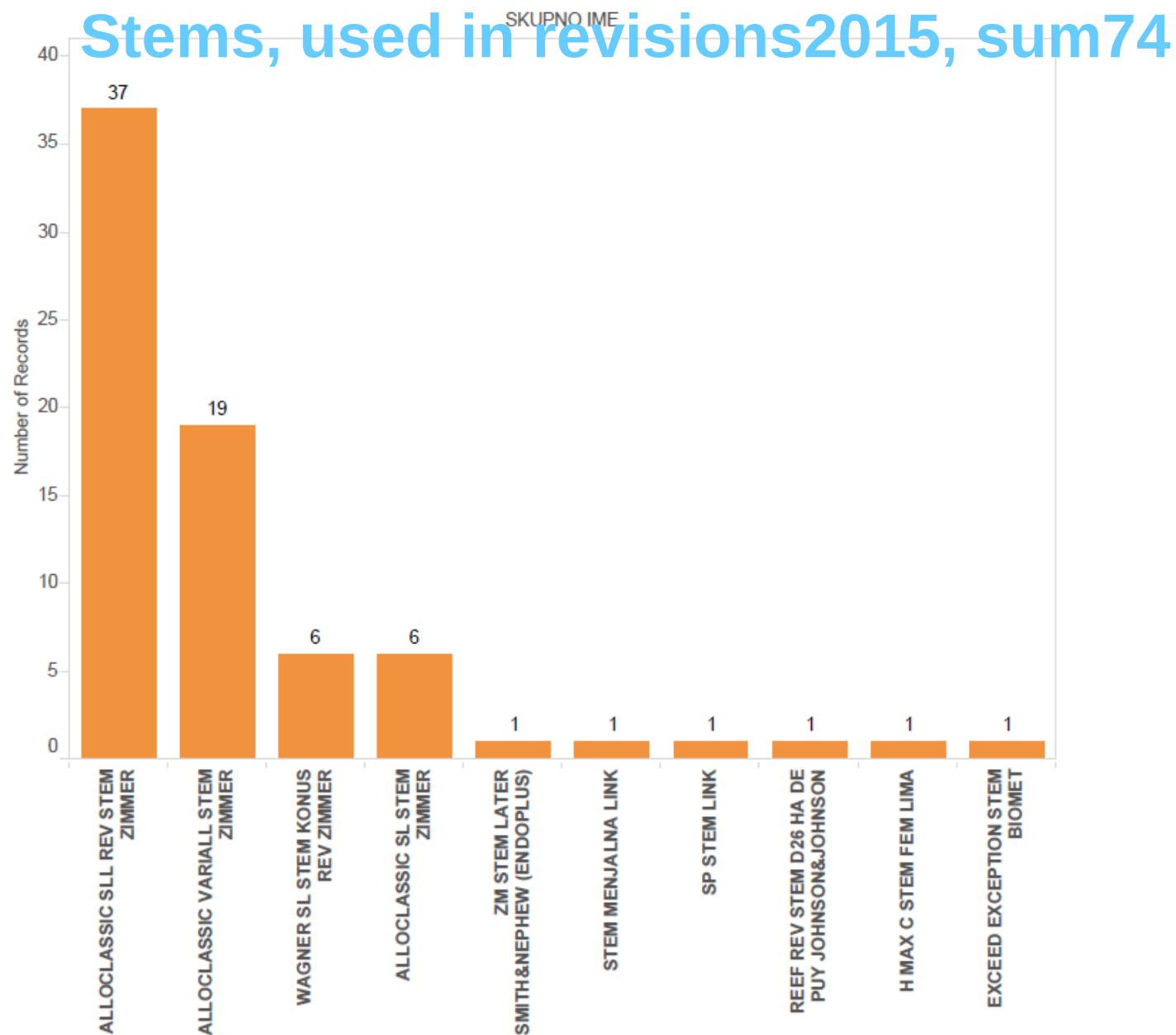
- Men-Women= 41% and 59%
- Average age= 71 ± 12 y men and 72 ± 12 y women
- Right - Left = 53% and 47%
- Average preoperative Harris Hip Score = 47 ± 18 pts
- 70 % overweight or obese($BMI \geq 25$)
- Approach in 86 % direct lateral
- Average duration of operation 122 ± 41 min

Reasons for revisions hips vs. knees

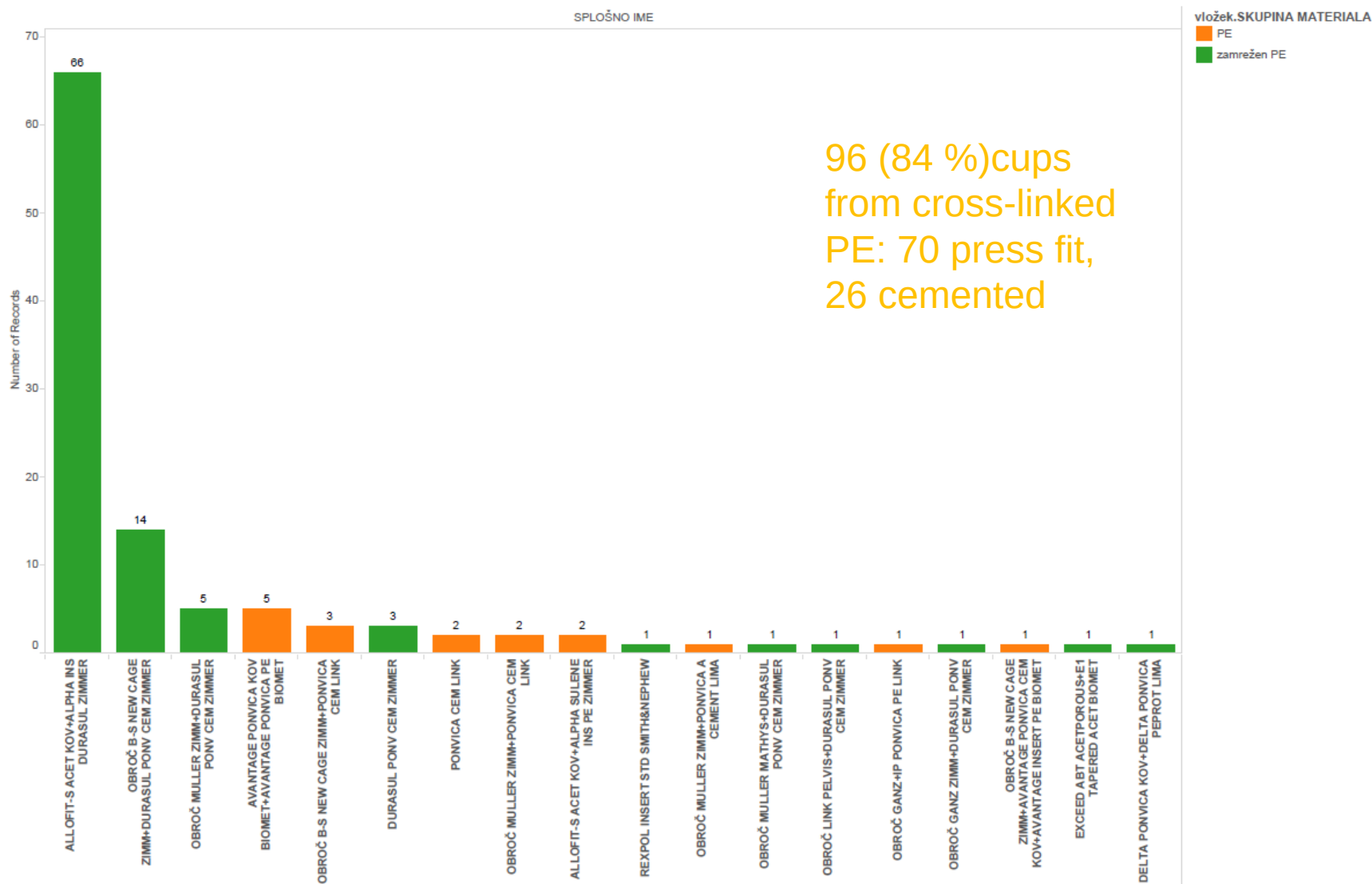
Period 2002 - 2015	Hips (%)	Knees (%)
Aseptic loosening	60,61	19,13
Deep infection	11,78	24,65
Periprosthetic fracture	6,99	1,38
2-stage revision	6,09	14
Dislocation	4,42	1,58
Other	3,01	5,13
Implant broken	2,74	0,99
Osteolysis	2,24	0
Pain	2,12	8,68
Instability, nonalignment, poor ROM	0	18,54
OA of other compartment	0	5,92

Reasons for revision THR from 2002 to 2015

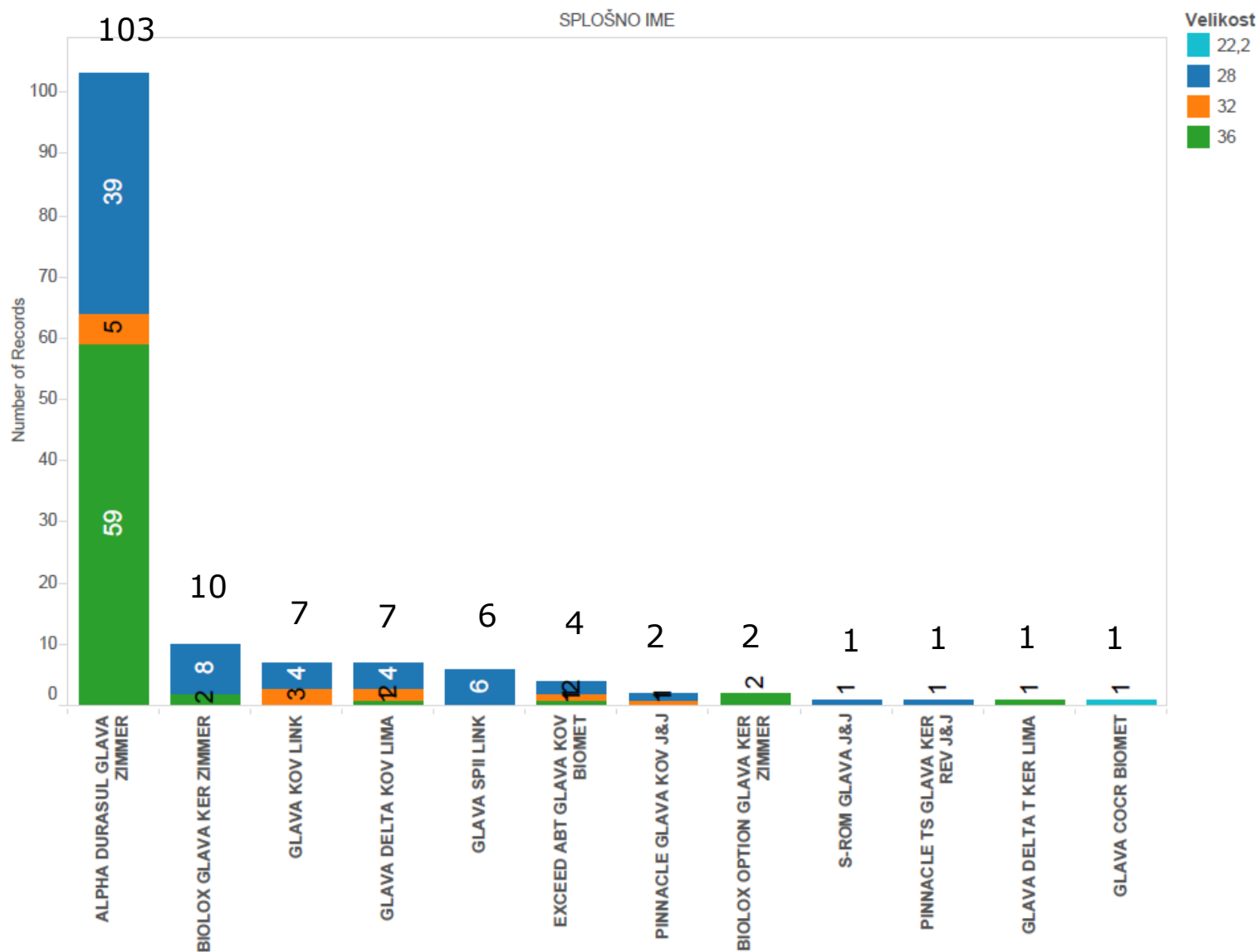




Cups, used in revisions 2015, sum 114



Heads, used in revisions in 2015, sum 145



Revision burden for Valdotra till 2015

	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	10,91	1,20
2003	12,66	0,63
2004	11,48	0,66
2005	11,14	0,67
2006	11,75	1,17
2007	11,68	1,79
2008	11,60	1,21
2009	13,59	1,79
2010	12,91	1,55
2011	13,17	1,51
2012	13,74	2,15
2013	13,06	1,01
2014	12,00	2,08
2015	12,98	1,98
Average Valdoltra	12,33 %	1,39 %
Avstralia NJRR 14	11,78 %	0,45 %
Sweden 14	11,25 %	0,34 %

Revisions per 100 observed component years²¹ - hips

Year	Mean FU (years)	Revision rate	Number of primaries	N° of all revisions	N° of first revisions in this FU	Revision rate in this FU period	Observed component years	Revisions per 100 observed component years
2002	0,53	12,45	724	103	6	0,73	384	1,56
2003	0,97	14,20	1523	252	14	0,79	1482	0,94
2004	1,41	14,16	2436	402	24	0,85	3428	0,70
2005	1,88	13,79	3344	535	30	0,77	6302	0,48
2006	2,31	13,66	4385	694	49	0,96	10140	0,48
2007	2,82	13,53	5310	831	75	1,22	14970	0,50
2008	3,32	13,55	6241	978	103	1,43	20749	0,50
2009	3,86	13,79	7093	1135	147	1,79	27410	0,54
2010	4,36	14,00	8022	1306	192	2,06	34961	0,55
2011	4,84	14,20	8968	1484	247	2,36	43442	0,57
2012	5,37	14,50	9851	1671	305	2,65	52888	0,58
2013	5,91	14,60	10684	1826	348	2,78	63182	0,55
2014	6,43	14,62	11543	1976	400	2,96	74250	0,54
2015	6,93	14,73	12424	2147	454	3,12	86136	0,53

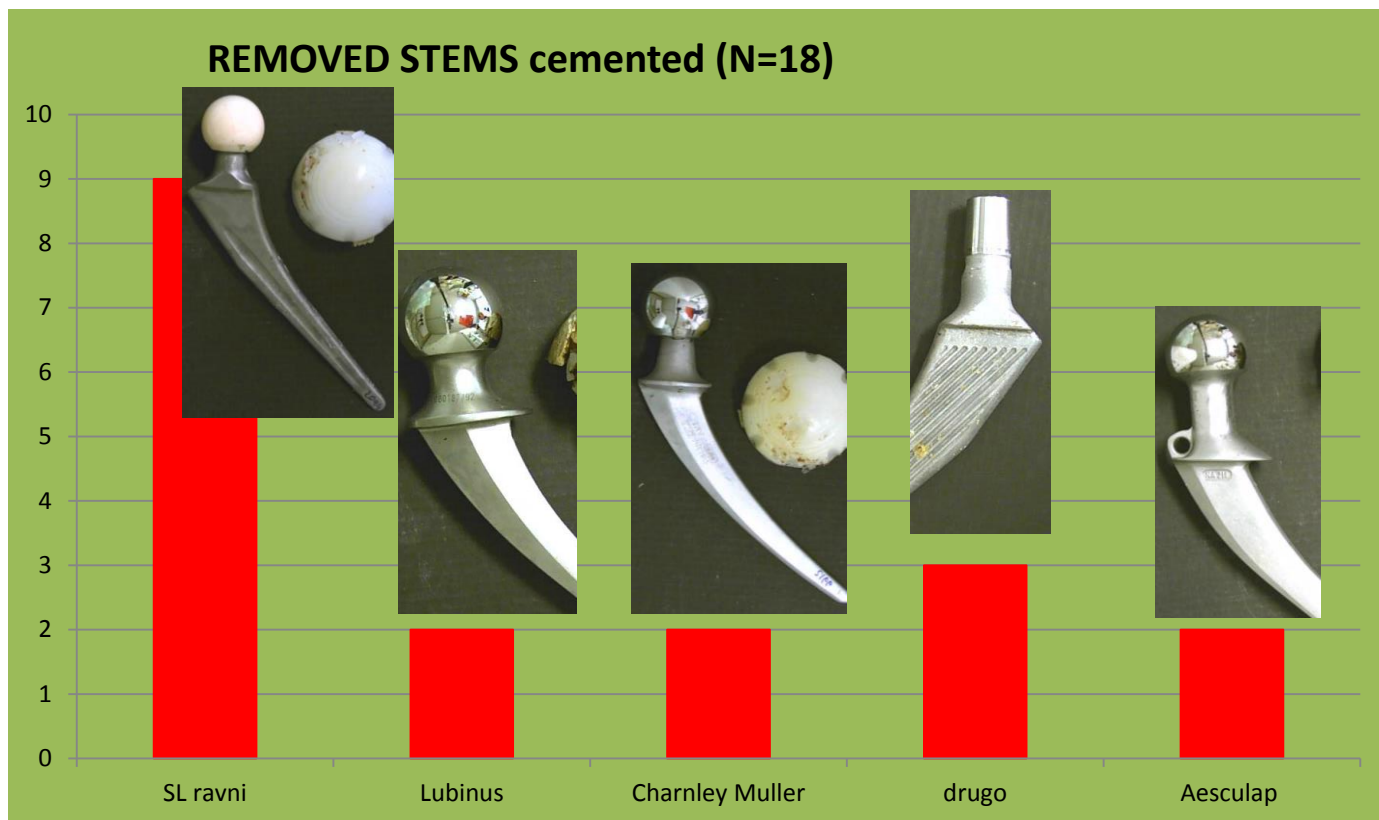
Revision rate for femoral stems from 2002 to 2015

22

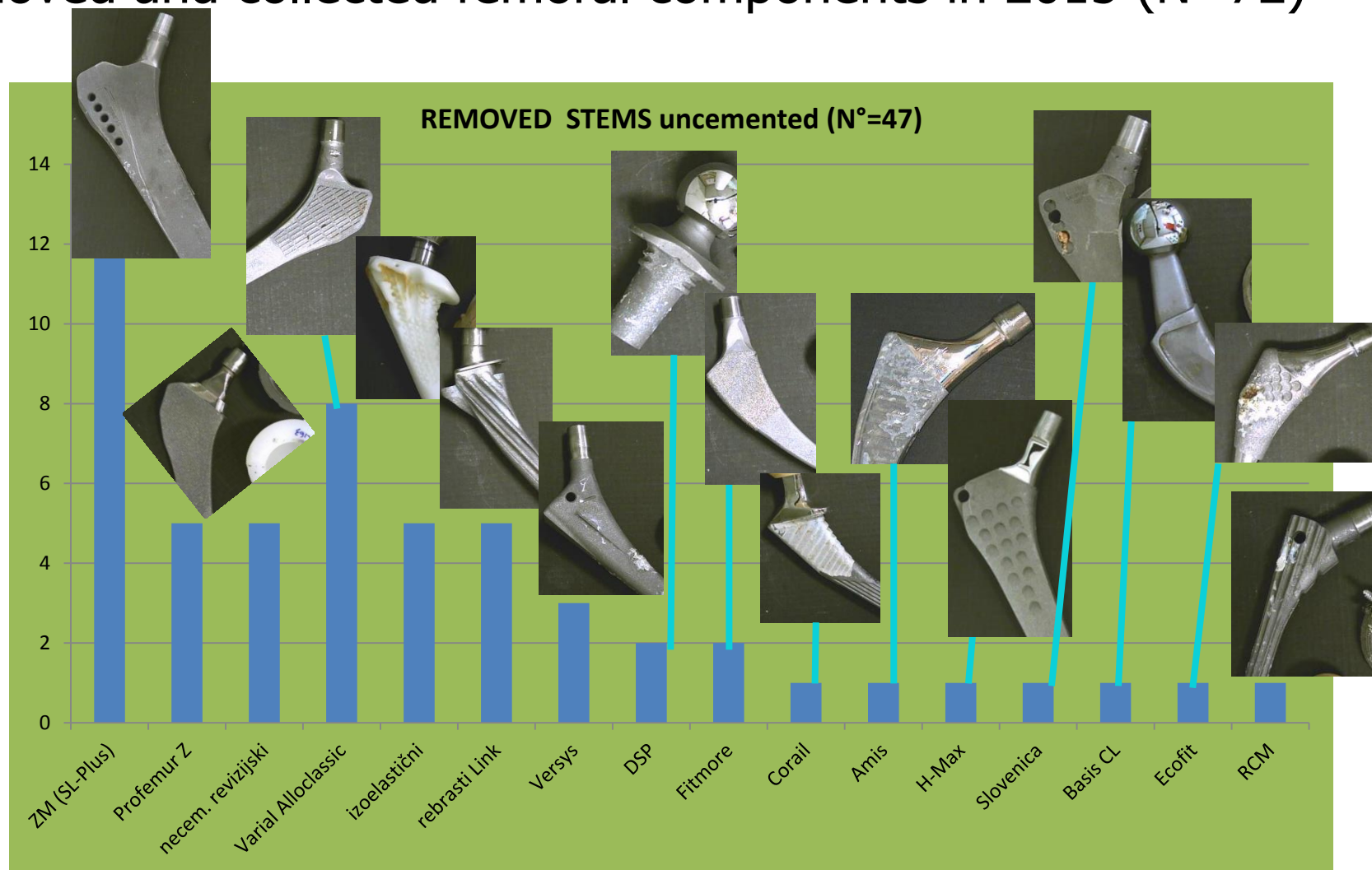
Name	All primaries 02-15	All removed 02-15	% revizij
cem Conserve Wright	44	0	0,00
cem SP Lubinus Link	670	1	0,15
Corail Jo&J	1012	3	0,30
Alloclassic SL stem Zimmer	267	1	0,37
H-MAX stem Lima	147	1	0,68
Varial Alloclassic Zimmer	3493	37	1,06
Exception stem Biomet	162	2	1,23
Fiber Metal Zimmer	69	1	1,45
CBH stem Mathys	300	6	2,00
C2 LIMA	279	6	2,15
Fitmore Zimmer	88	2	2,27
cem Basis SL Smith&Nephew	44	1	2,27
AHS Cremascoli	86	2	2,33
ZM Endoplus-S&N	2682	66	2,46
Elite Plus Jo&J	76	2	2,63
Versys Zimmer	1017	28	2,75
Profemur Z Cremascoli	1104	37	3,35
cem Metabloc Zimmer	24	1	4,17
Pipino FP LINK	69	3	4,35
rebrasta LINK	135	7	5,19
Copf (Chendo+Unior)	128	8	6,25
ATL Unior	17	2	11,76

Name	All primaries 02-15	All removed 02-15	% revizij
Conserve Wright	47	0	0,00
press fit Selexys Mathys	92	0	0,00
press fit Pinnacle Jo&J	739	1	0,14
press fit Duraloc Jo&J	388	1	0,26
press fit Exceed ABT Biomet	157	1	0,64
cem IP Link	310	2	0,65
press fit Delta Lima	433	3	0,69
press fit Allofit Zimmer	4759	39	0,82
press fit RM Mathys	260	3	1,15
press fit Procoty Wright	149	2	1,34
press fit Trilogy Zimmer	1711	28	1,64
cem Apollo Biomet	174	3	1,72
press fit MPF Endoplus	212	4	1,89
cem Surgival	105	2	1,90
press fit Mallory Biomet	51	1	1,96
press fit ANCA Crem	37	1	2,70
cem LIMA	339	12	3,54
press fit Pipino CFP Link	444	17	3,83
cem Durasul Zimmer	72	3	4,17
press fit SPH Lima	46	2	4,35
navojna Bicon Endoplus	619	36	5,82
press fit EHS-E Crem/Wright	317	19	5,99
cem Smith&Nephew	45	3	6,67
cem Ultima Jo&J	60	6	10,00
press fit DOETS Endoplus	515	58	11,26
izoelastična Mathys	59	7	11,86

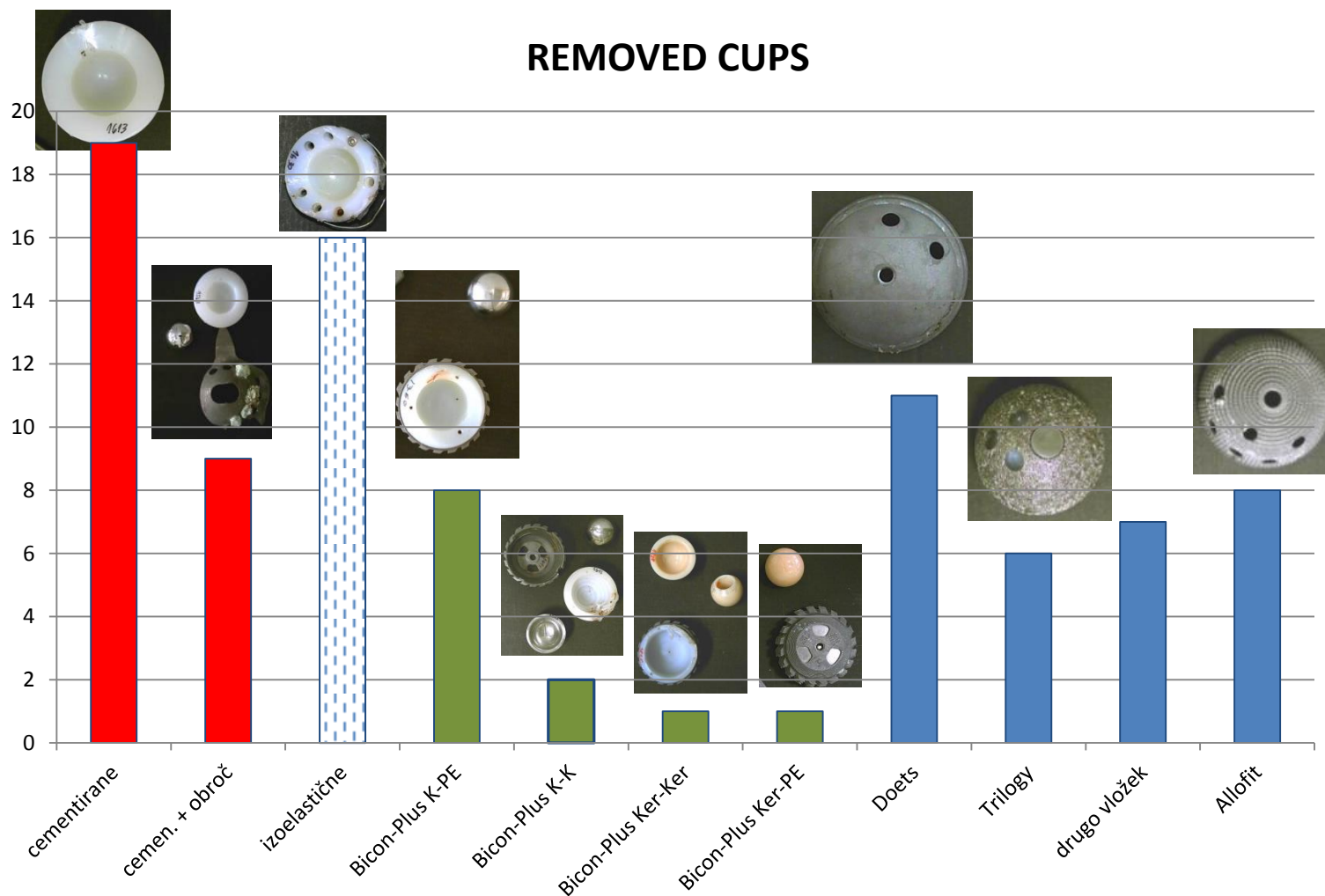
Removed and collected femoral components in 2015 (N° 72)



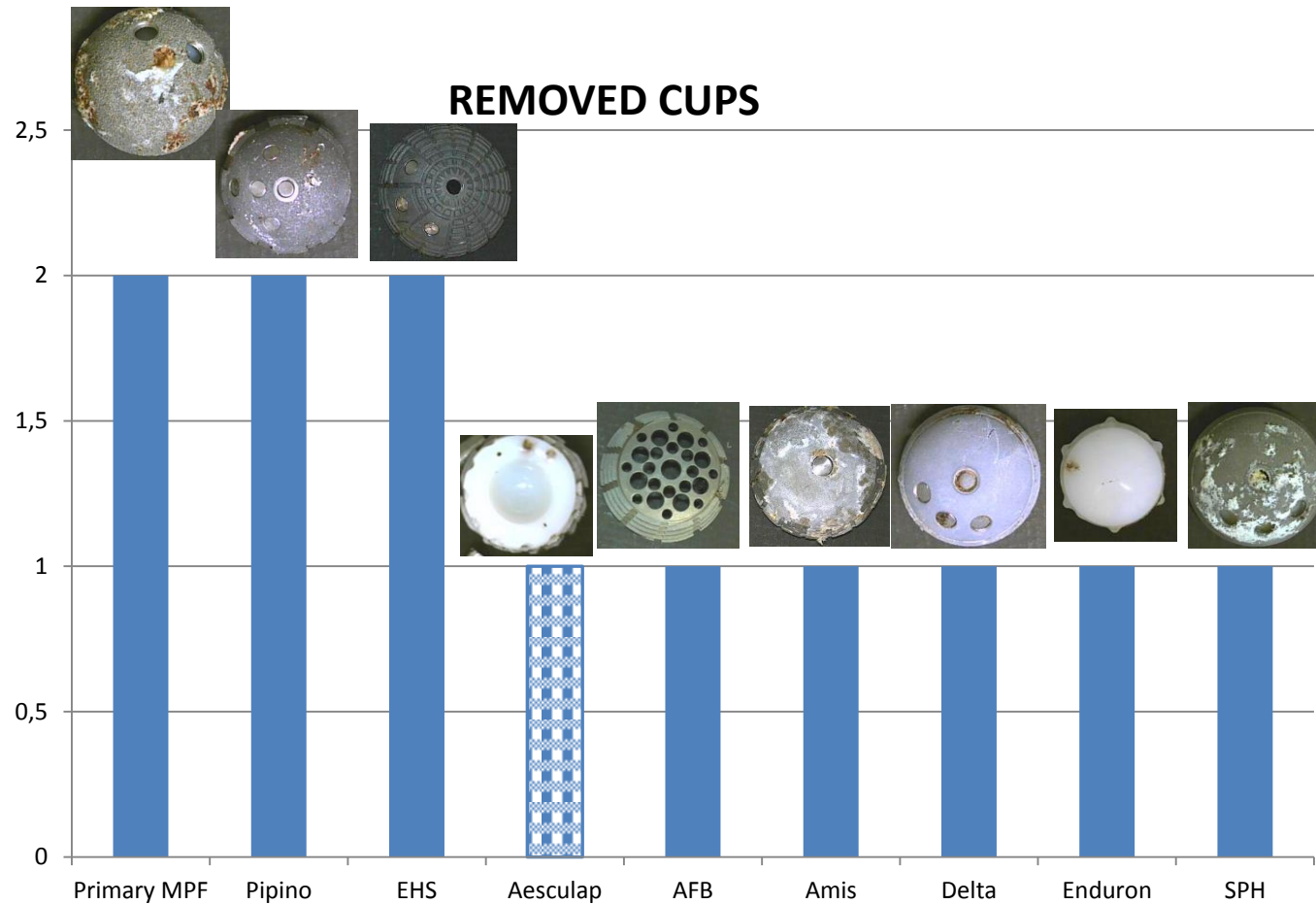
Removed and collected femoral components in 2015 (N° 72)



Removed and collected acetabular components in 2015 (N° 102)

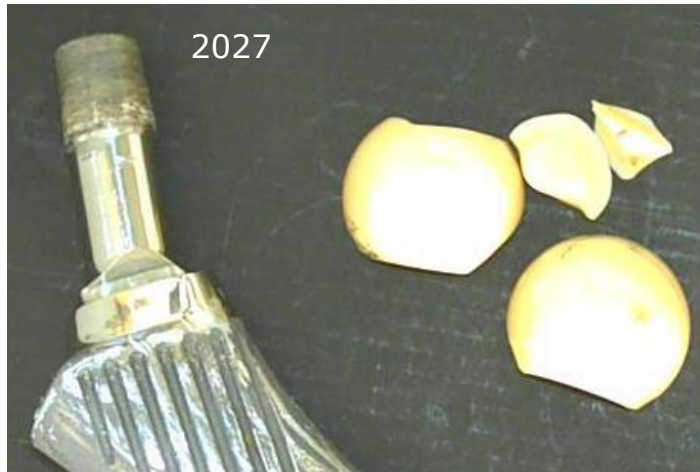


Removed and collected acetabular components in 2015 (N° 102)



Revision for corrosion(trunionosis)

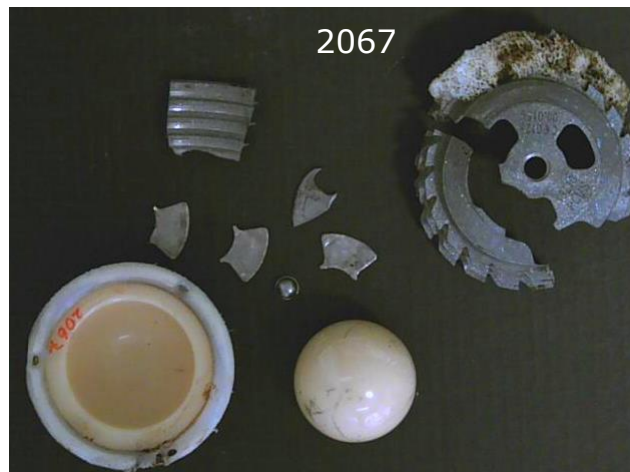




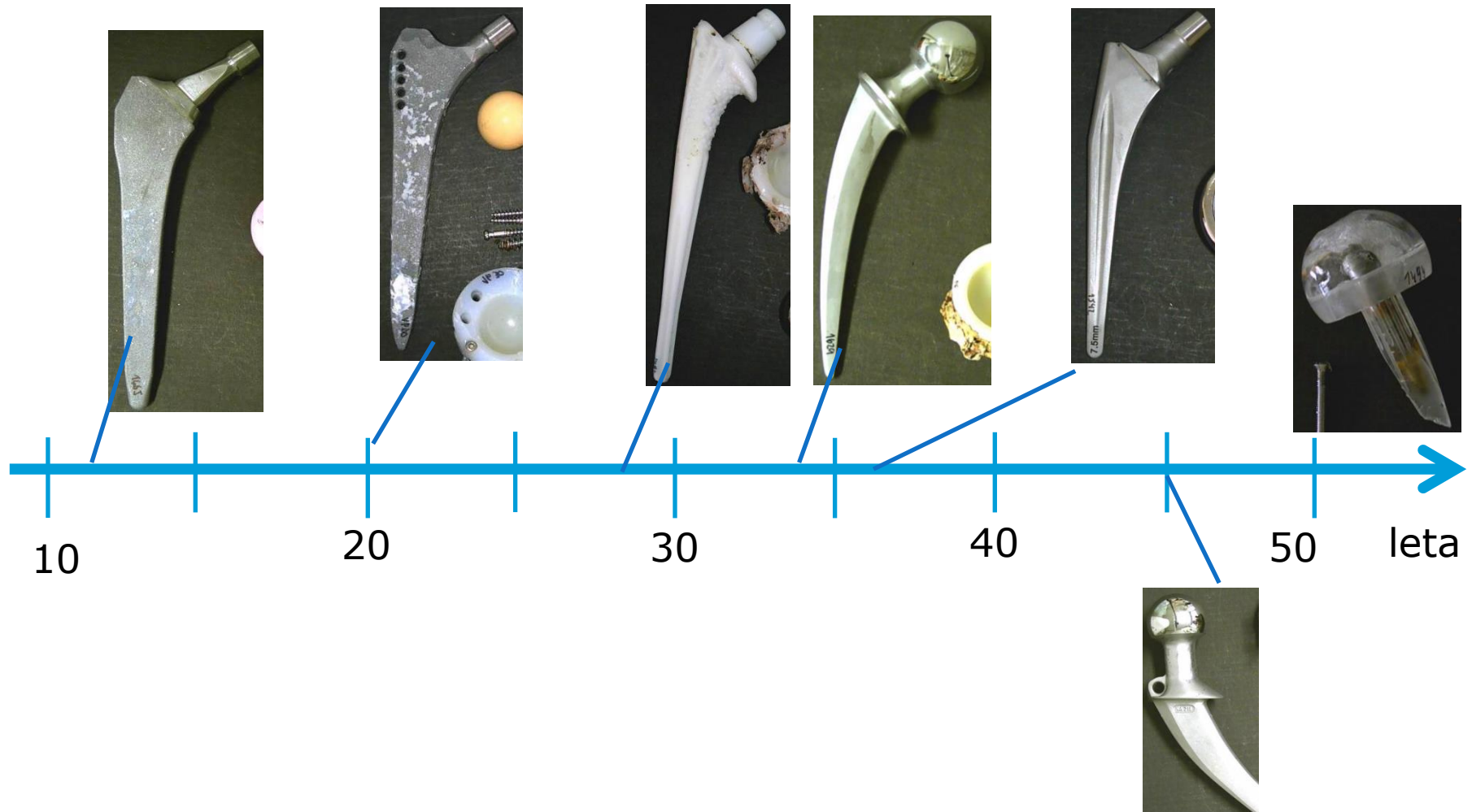
Implant fracture – ceramic components

Implant fracture: neck

Implant fracture: cup



„The longest time in situ“



Acknowledgments to:

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

