



***Valdoltra***  
***Arthroplasty Register***

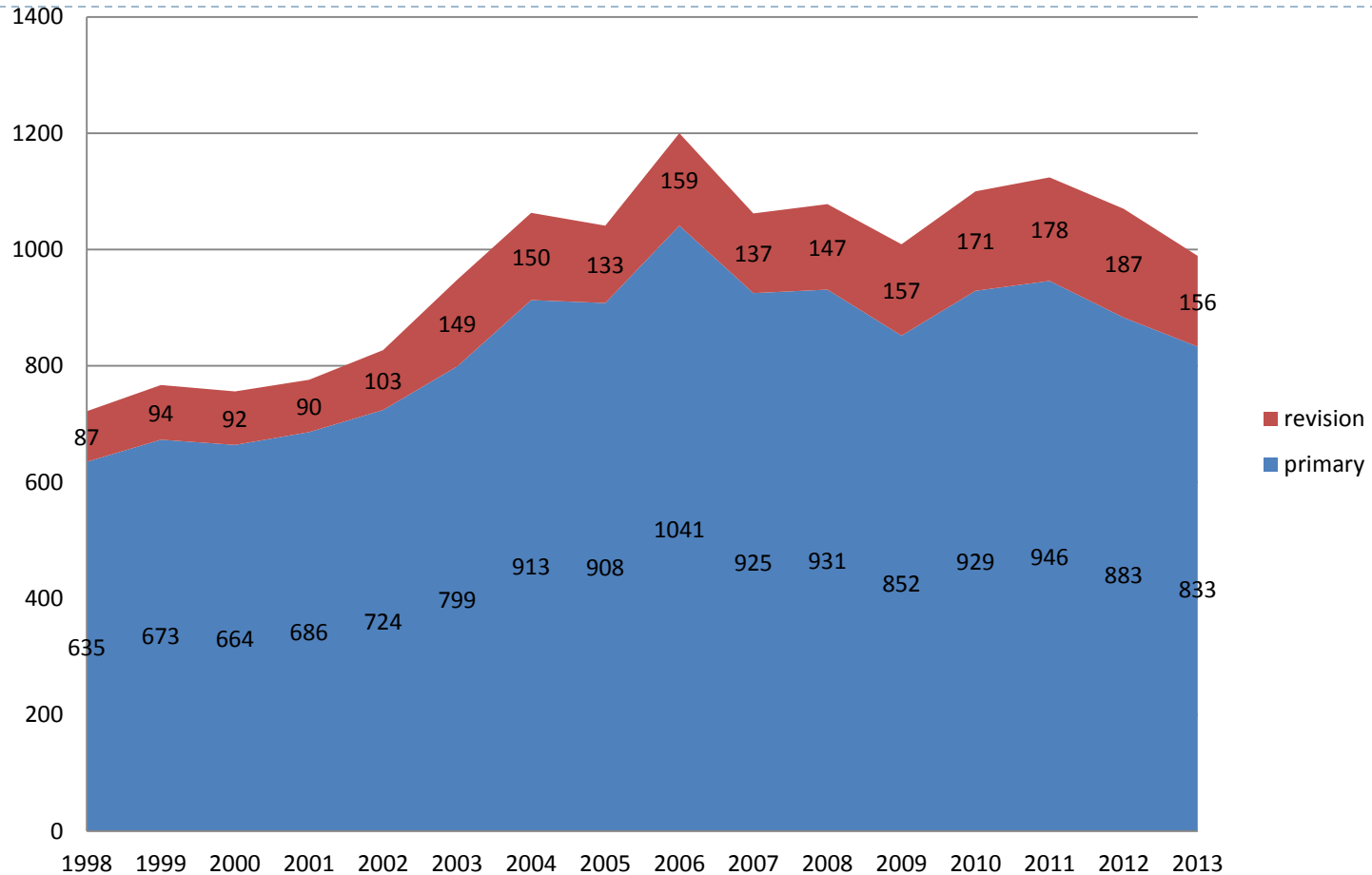


# **Valdoltra Hip Arthroplasty Register Report 2013**

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Ankaran, Slovenia, 27th of October 2014

# Primary and revision THR by year



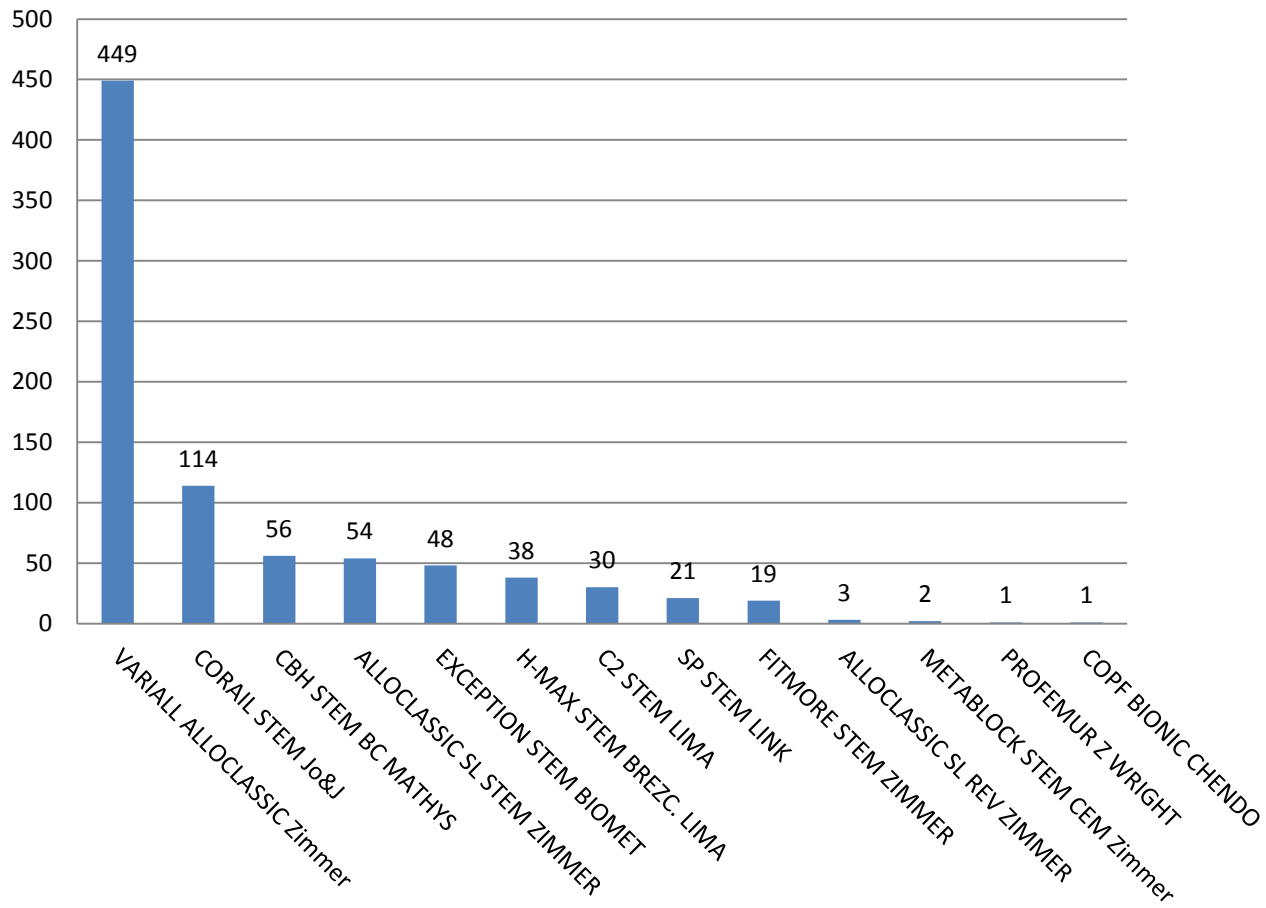
## Patient data 2013

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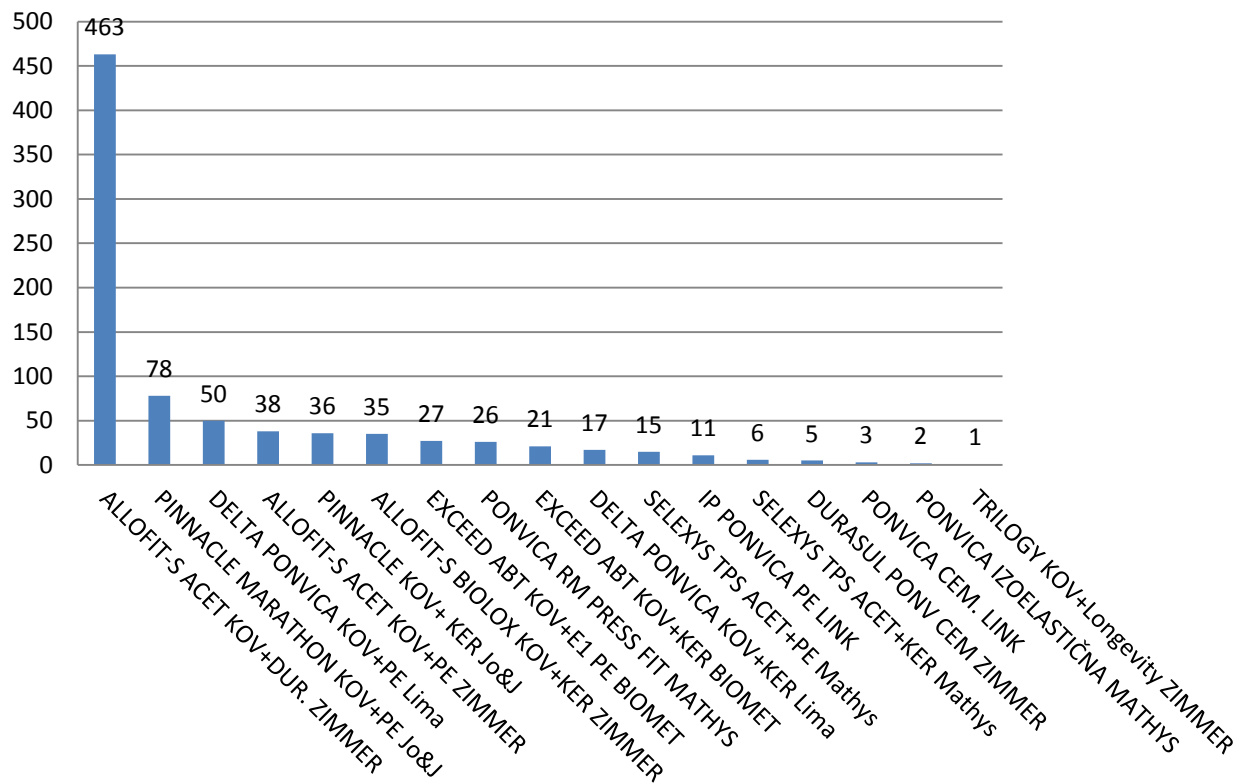
- men to women = 45% to 55%
- avg age = 64 y and 68 y respectively
- right to left hip = 55% to 45%
- 77 % overweight or obese (BMI > 25)
- 78 % primary osteoarthritis preoperatively
- preoperative HHS 54 points



# PRIMARY STEMS IN 2013, sum 836

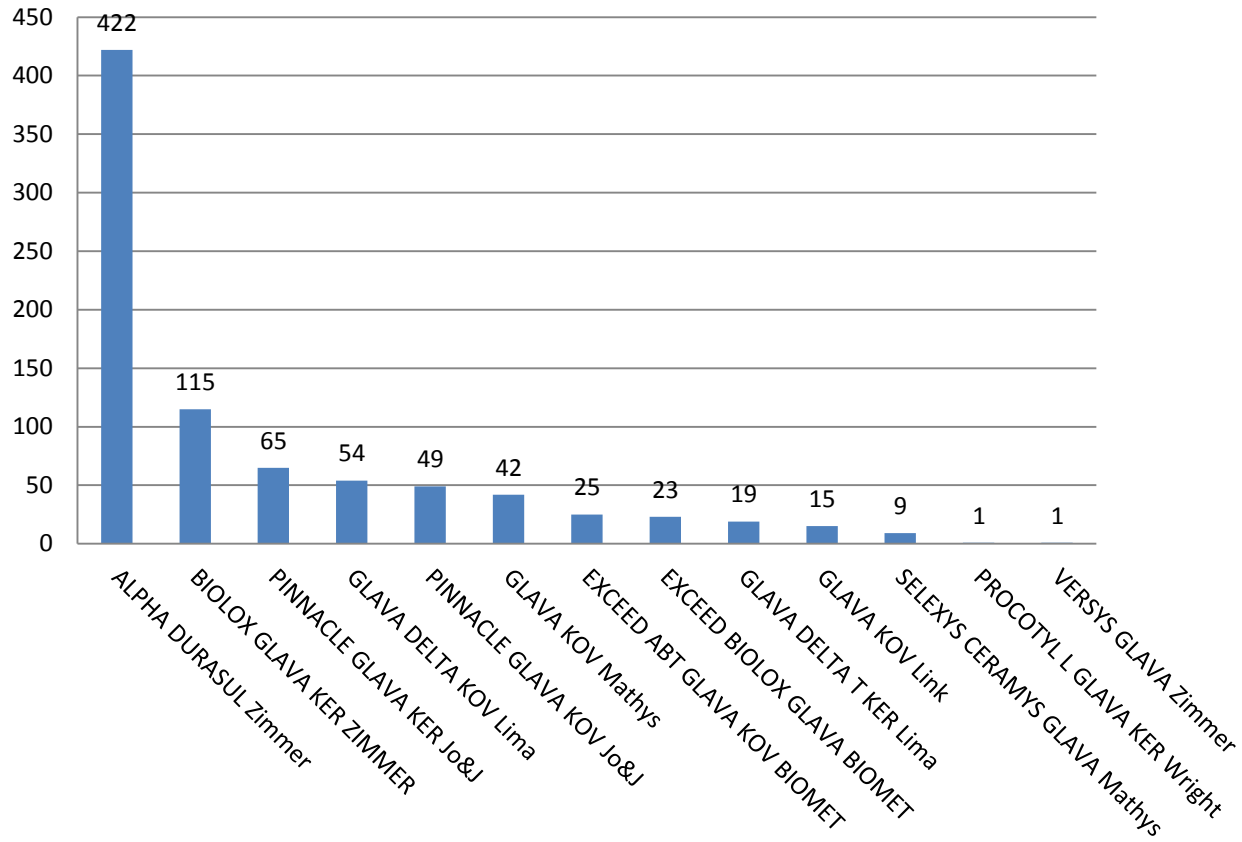


# PRIMARY ACETABULAR COMPONENTS IN 2013, sum 834

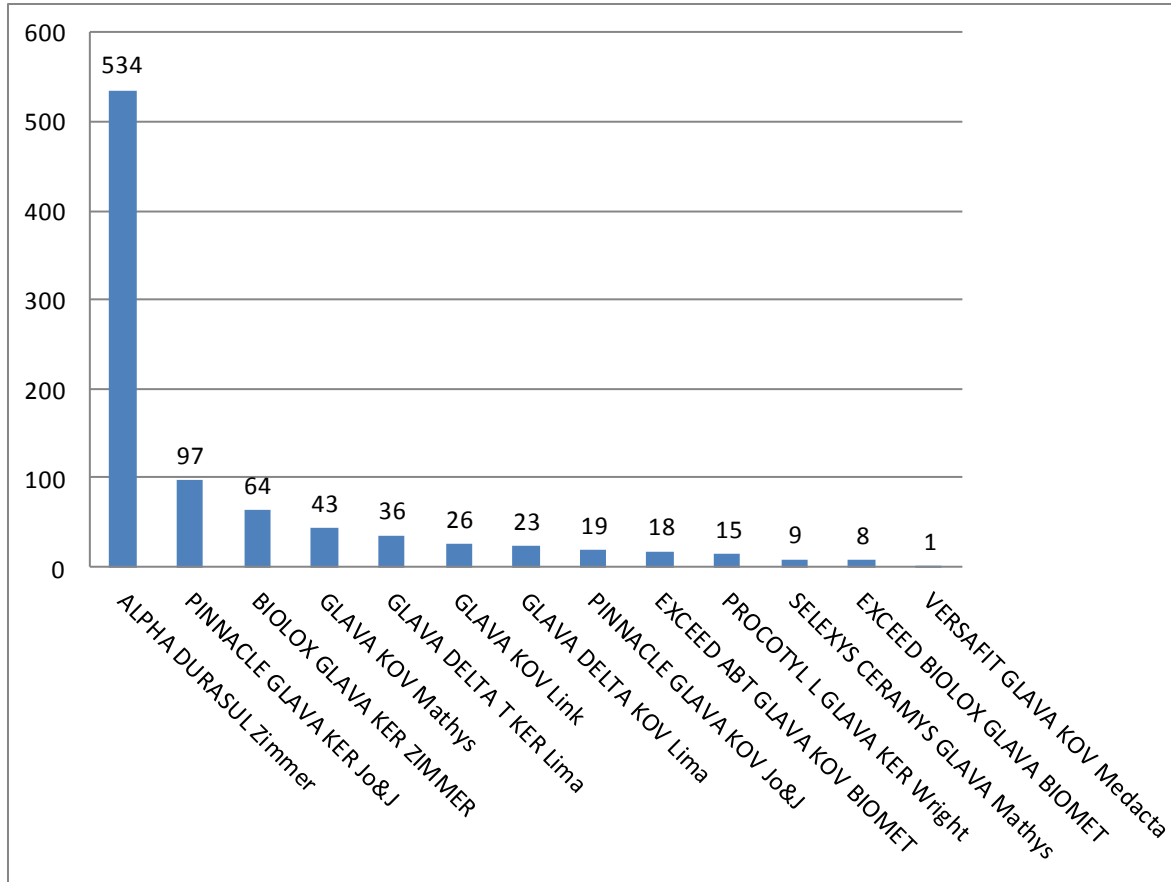


624 (75%) from X-linked polyethilen: 619 press fit, 5 cemented

# PRIMARY HEADS IN 2013, sum 840

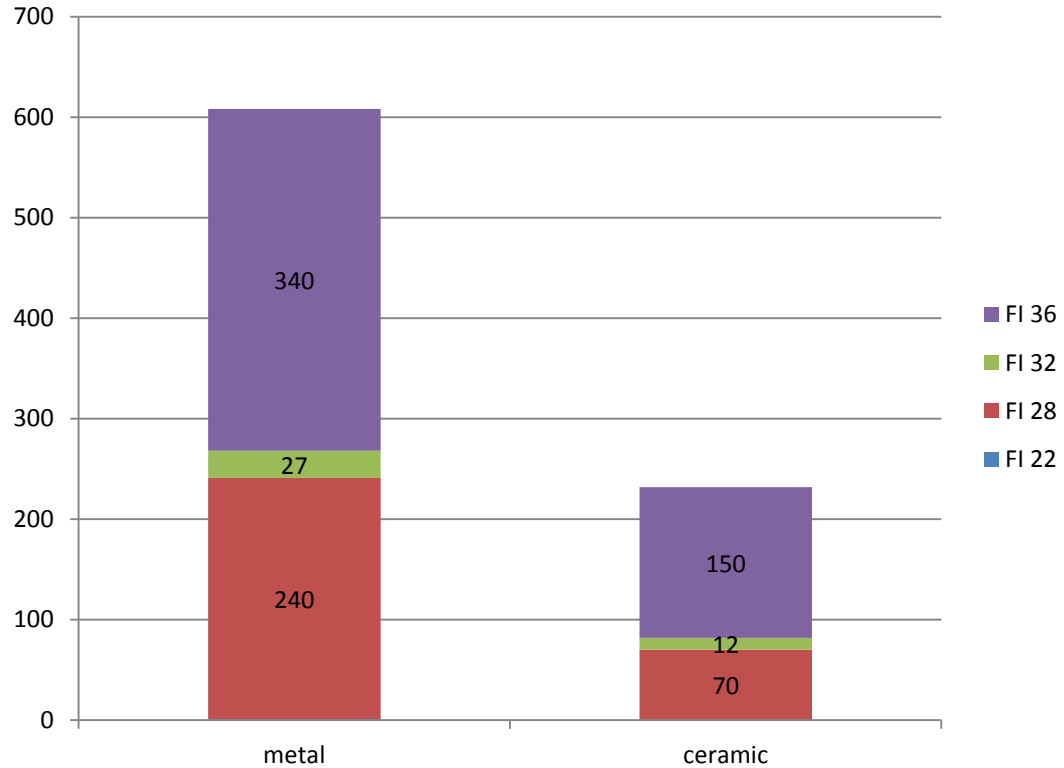


# PRIMARY HEADS IN 2012, sum 893



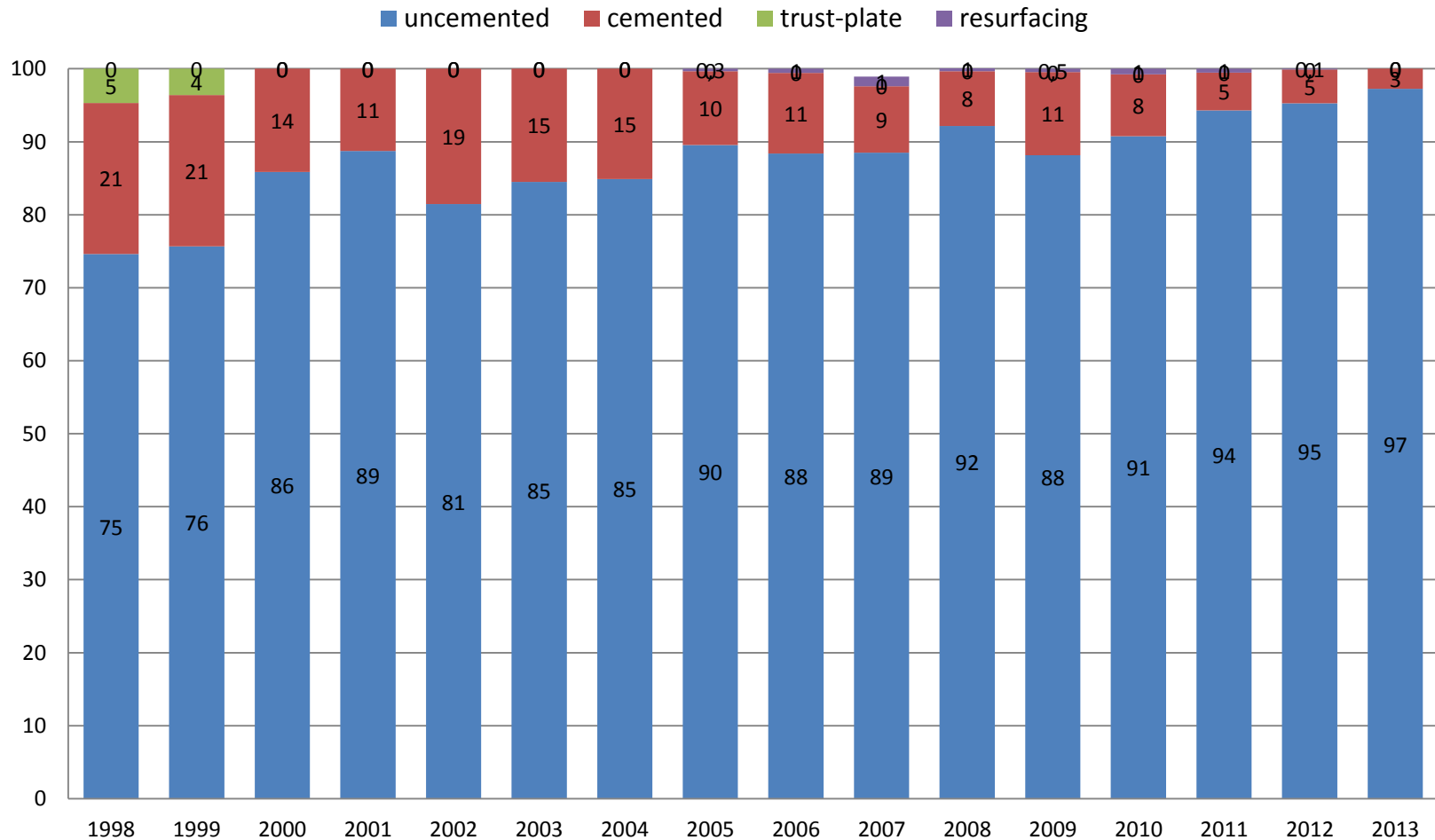
# Primary head's diameter in 2013

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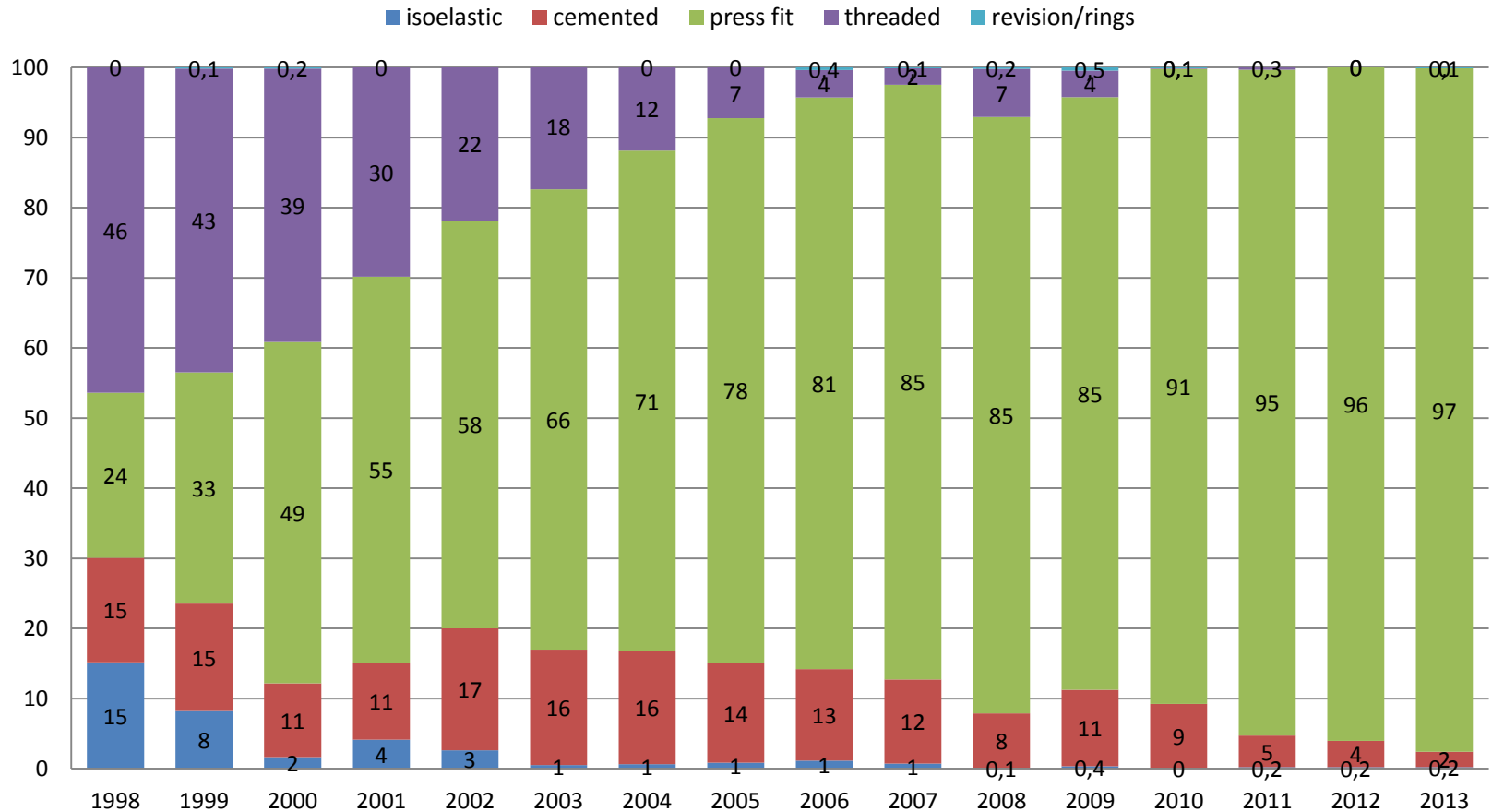




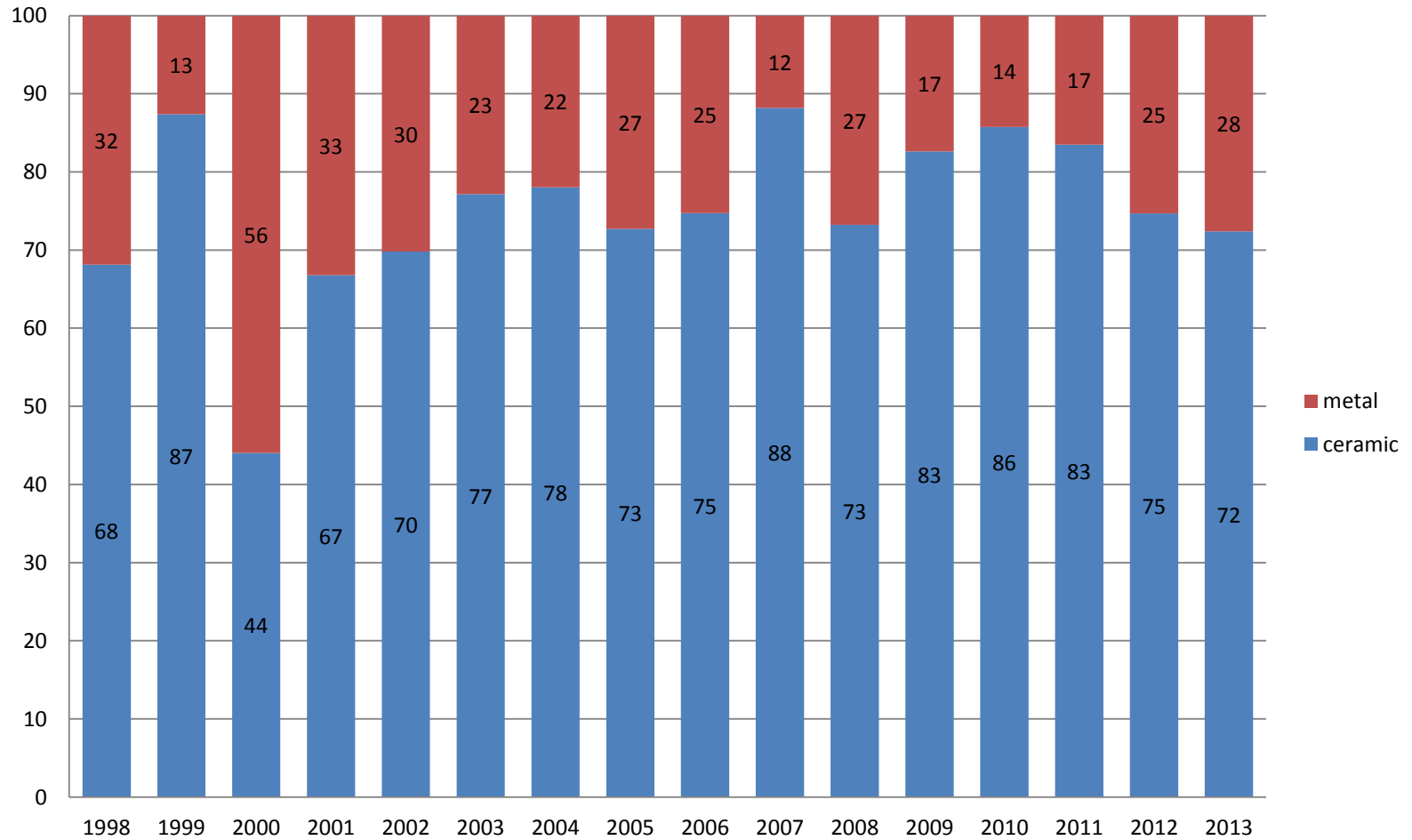
# Cemented, uncemented stems, trust-plate and resurfacing prostheses 1998 - 2013



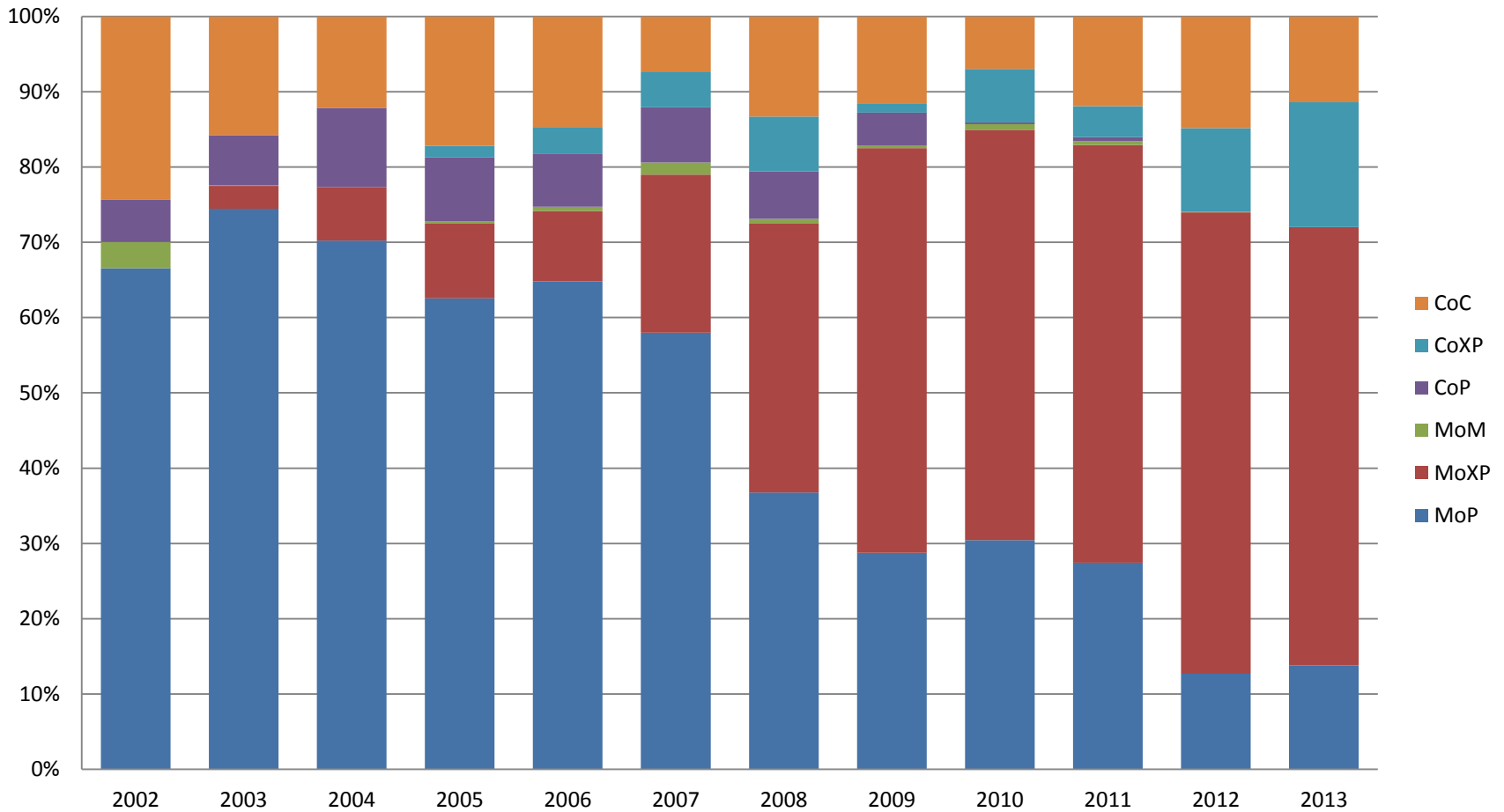
# Primary cups by fixation 1998 - 2013



# Percentage of metal and ceramic heads 1998 - 2013



# Bearing surface 2002-2013

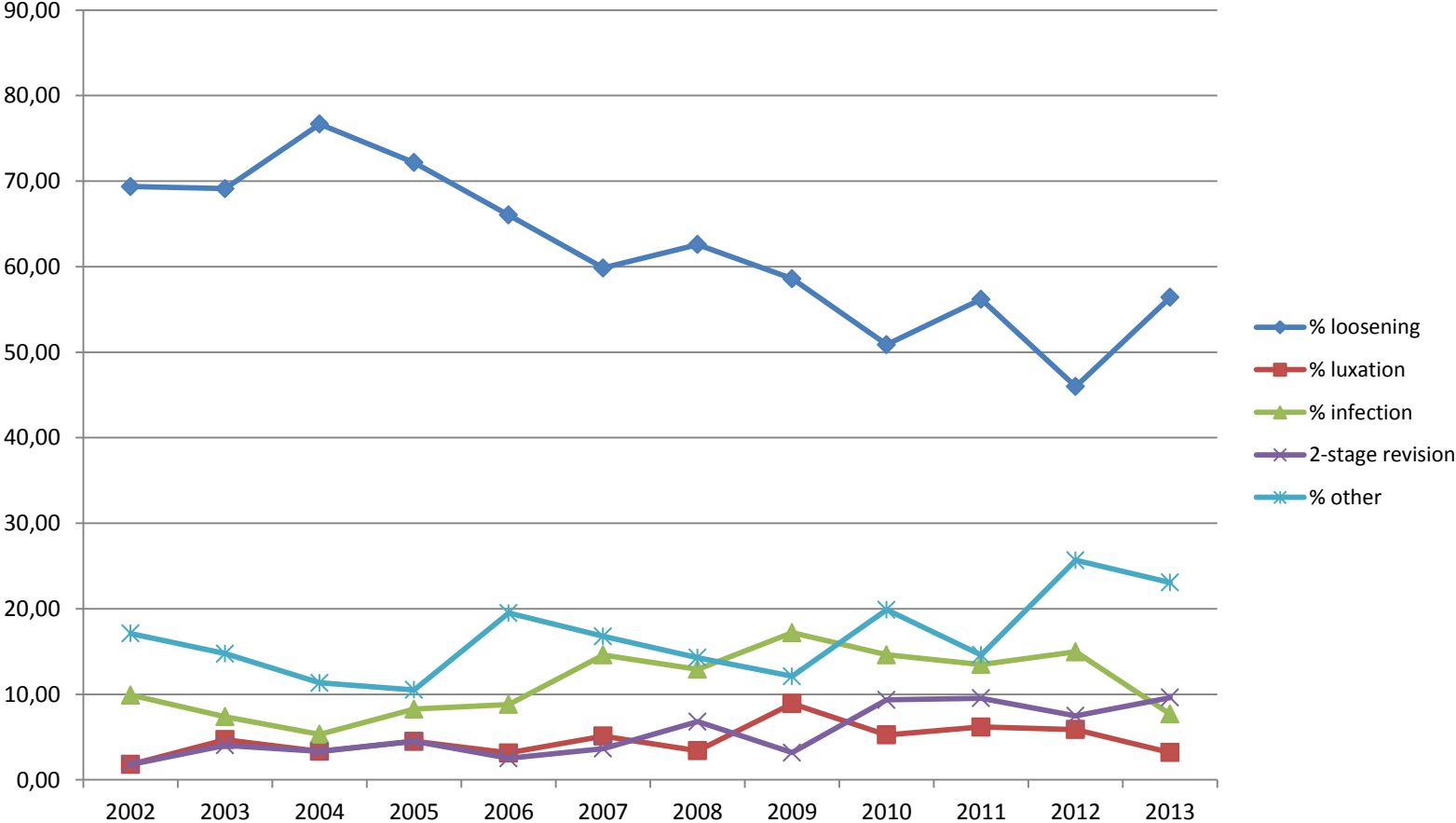


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# Revision operations



# Reasons for revision THR from 2002 to 2013



# Breme revizij za OBV do 2013

Year	No of revisions x 100/(No of primary + No of revision THR)	No of revisions for deep infection x 100/(No of primary + No of revision THR)
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
Average OBV	12,31 %	1,28 %
Avstralia NJRR 12	12,01 %	1,51 %
Sweden 12	10,66 %	2,92 %

# Revisions per 100 observed component years - hips

Leto	Srednje obdobje sledenja (leta)	Delež revizij	Število primarnih	Število vseh revizij	Št. prvih revizij v tem obdobju sledenja	Delež revizij v tem obdobju sledenja	Leta opazovanja komponent	Revizije na 100 let opazovanja komponent
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



# Revision rate for femoral stems from 2002 to 2013

Name	All primary stems	Explanted primary stems	% revision
cem Conserve Wright	44	0	0,00
Fitmore Zimmer	22	0	0,00
H-max stem Lima	41	0	0,00
cem SP Lubinus Link	649	1	0,15
Corail Jo&J	724	2	0,28
SL stem Zimmer	104	1	0,96
CBH stem Mathys	191	2	1,05
Varial Alloclassic Zimmer	2602	29	1,11
Exception stem Biomet	76	1	1,32
Fiber Metal Zimmer	69	1	1,45
C2 LIMA	279	5	1,79
Versys Zimmer	1017	19	1,87
ZM Endoplus	2678	56	2,09
Basis SL Smith&Nephew	44	1	2,27
AHS Cremascoli	86	2	2,33
Elite Plus Jo&J	76	2	2,63
Profemur Z Cremascoli	1104	31	2,81
rebrasta LINK	135	5	3,70
Copf (Chendo+Unior)	128	5	3,91
Pipino FP LINK	69	3	4,35
cem Metabloc Zimmer	21	1	4,76
ATL Unior	17	2	11,76

# Revision rate for acetabular components from 2002 to 2013

Name	All primary acetabular components	Explanted primary acet.	% revision
Conserve Wright	47	0	0,00
press fit Exceed ABT Blomet	83	0	0,00
press fit Selexys Mathys	31	0	0,00
press fit Pinnacle Jo&J	466	1	0,21
press fit Duraloc Jo&J	388	1	0,26
press fit Delta Lima	327	1	0,31
<b>cem IP Link</b>	296	1	0,34
press fit Allofit Durasul Zimmer	3628	31	0,85
press fit RM Mathys	217	2	0,92
press fit MPF Endoplus	212	2	0,94
<b>cem Apollo Biomet</b>	174	2	1,15
press fit Trilogy Zimmer	1710	20	1,17
press fit Procoty Wright	149	2	1,34
<b>cem Surgival</b>	105	2	1,90
press fit Mallory Biomet	51	1	1,96
press fit ANCA Crem	37	1	2,70
<b>cem Durasul Zimmer</b>	65	2	3,08
press fit Pipino CFP Link	444	14	3,15
<b>cem LIMA</b>	339	12	3,54
press fit EHS-E Crem/Wright	317	12	3,79
press fit SPH Lima	46	2	4,35
<b>cem S&amp;N</b>	45	2	4,44
navojna Bicon Endoplus	619	29	4,68
<b>cem Ultima Jo&amp;J</b>	60	4	6,67
press fit DOETZ Endoplus	515	46	8,93
izoelastična Mathys	59	6	10,17

# Which bearing surface is the best for ceramic fracture revision?



14.12.1999: primary THR in Valdoltra: Anca stem in Profemur vrat; CoC bearing



19.10.2010: fracture of ceramic inlay



4.11.2010: 1. revision: CoCr head and PE Anca inlay



10.7.2013: metallosis and wear of the head

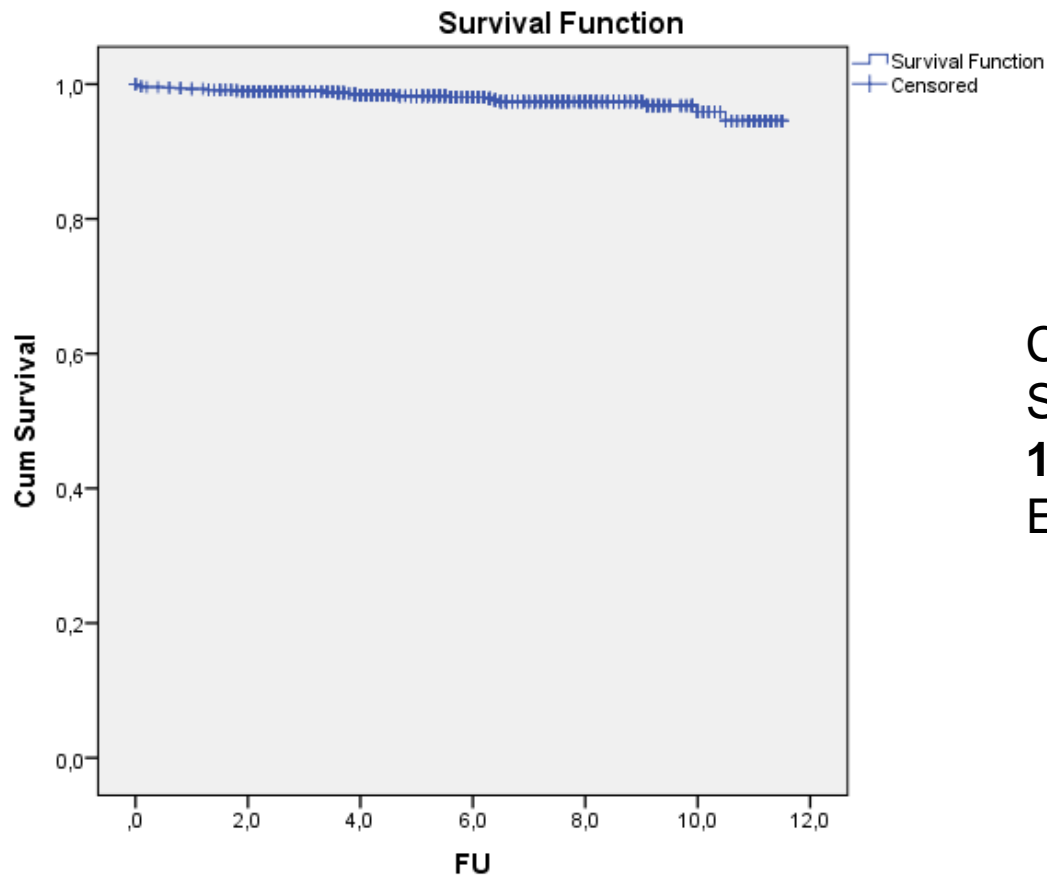


7.10.2013: after 2. revision to biolox Delta ceramic head and Durasul X-PE inlay



# Kaplan Meier survival curve for Profemur stem

Censored events: 59 persons (67 hips) died in this FU period (1.1.2002-31.12.2013)



Cumulative Proportion  
Surviving at the Time  
**11,5** years: **0,945**; Std.  
Error: 0,018



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THANK YOU!