



***Valdoltra***  
*Arthroplasty Register*

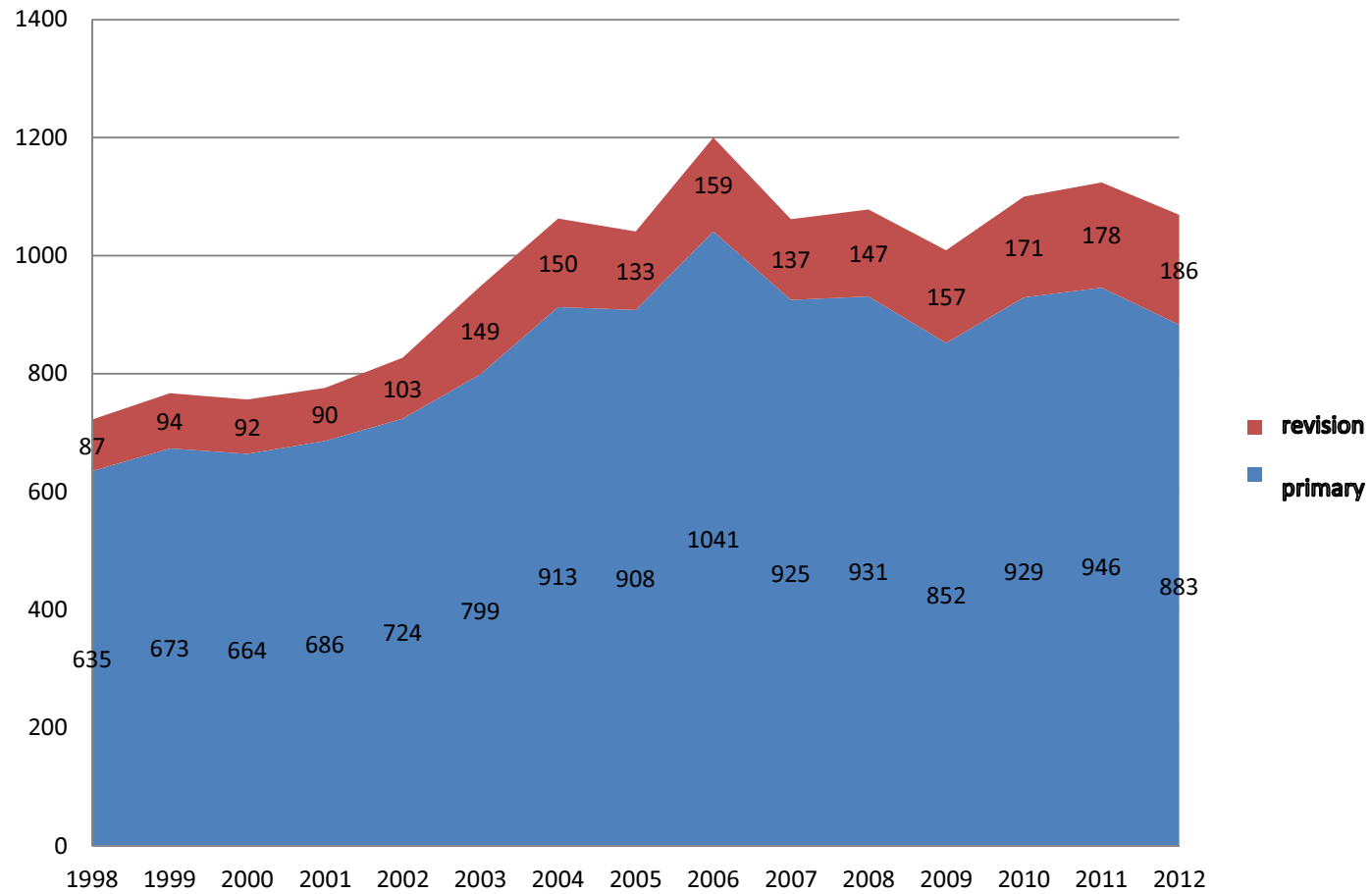


## **Valdoltra Hip Arthroplasty Register 2002 - 2012**

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Ankaran, Slovenia, 26th of November 2013

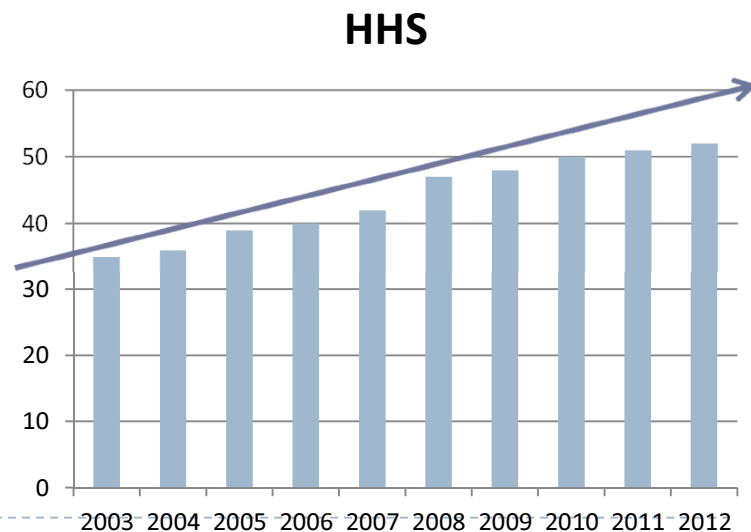
# Primary and revision THR by year



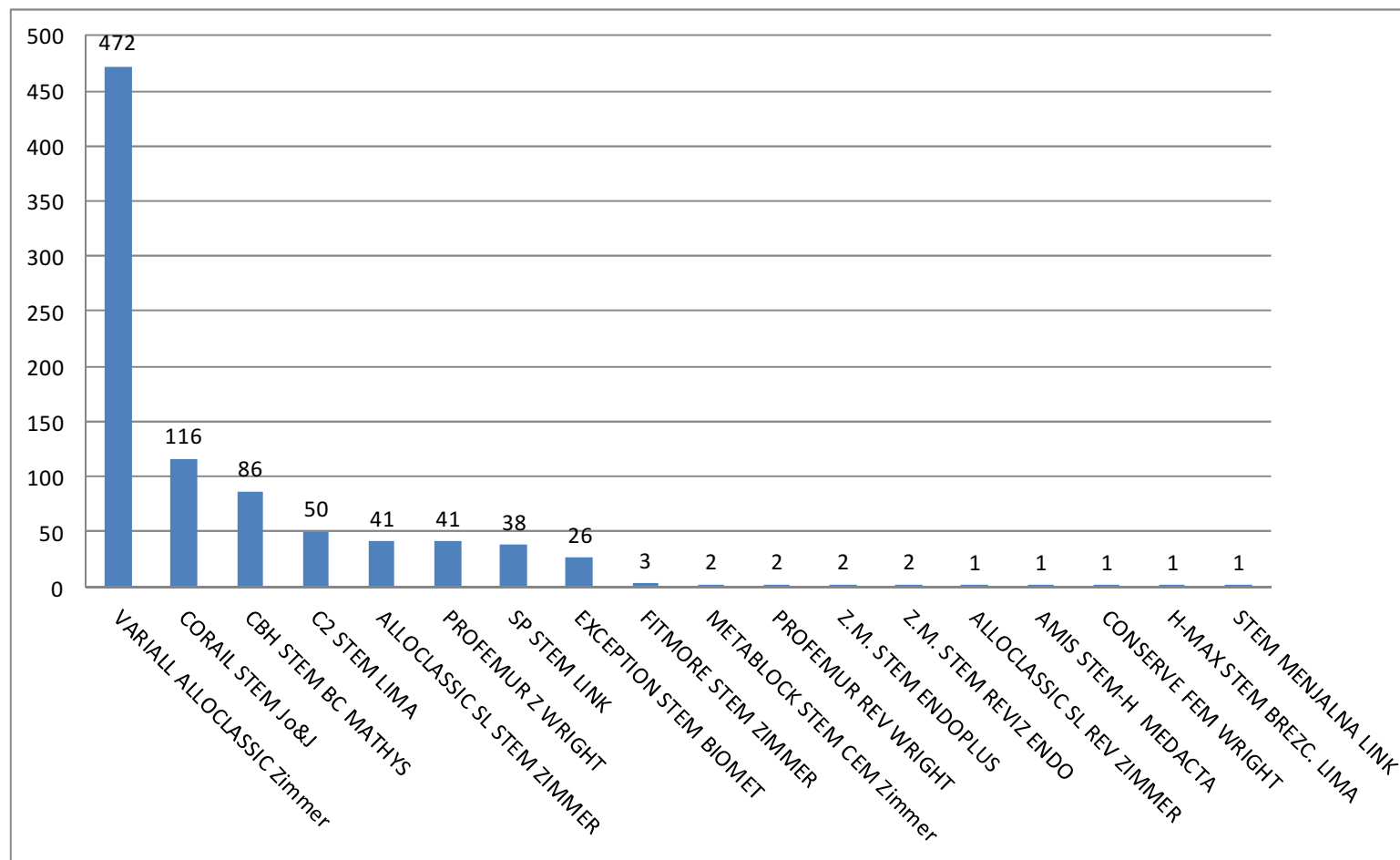
# Patient data

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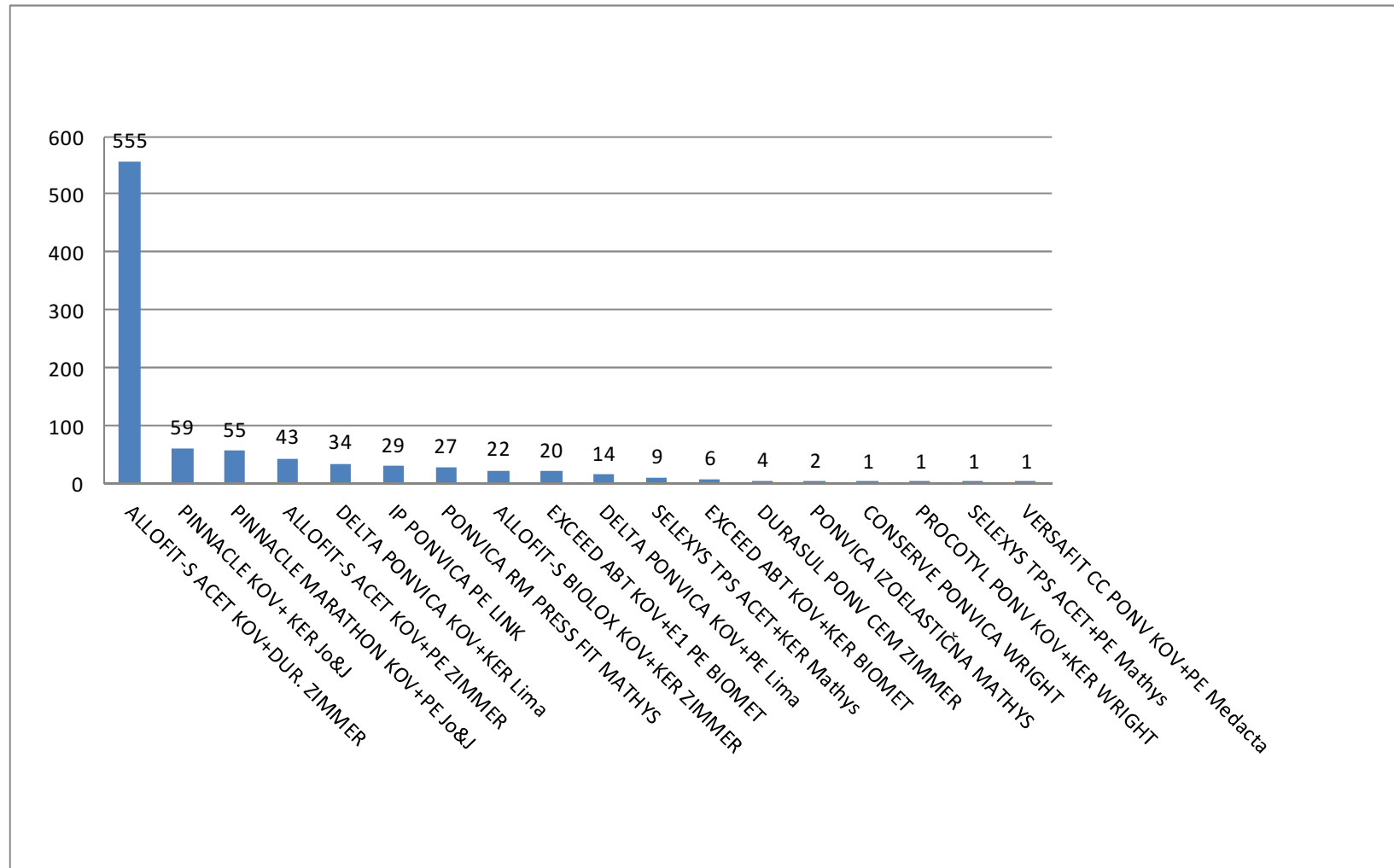
- men to women = 40% to 60%
- avg age = 64 y and 67 y respectively
- right to left hip = 54% to 46%
- 80 % overweight or obese (BMI > 25)
- 79 % primary osteoarthritis preoperatively
- preoperative HHS raises



## PRIMARY STEMS IN 2012, sum 886

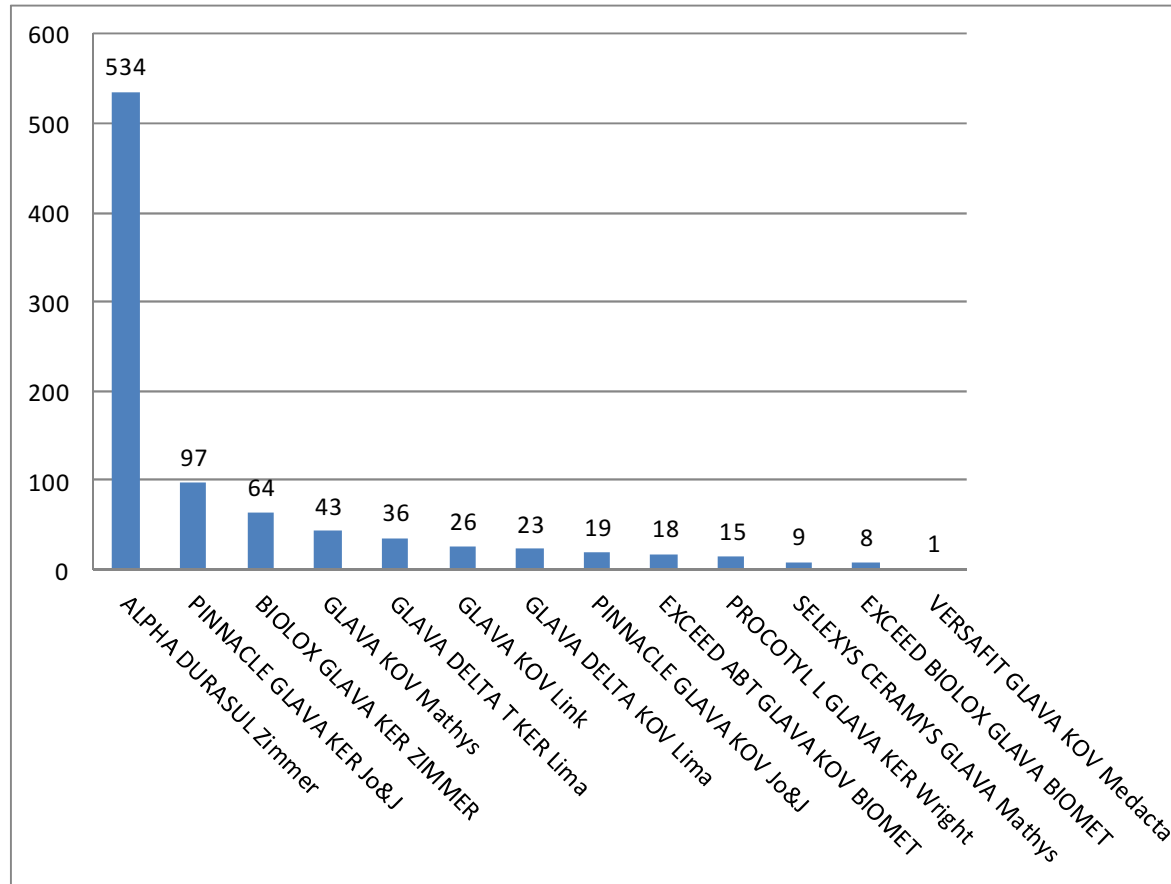


# PRIMARY ACETABULAR COMPONENTS IN 2012, sum 883



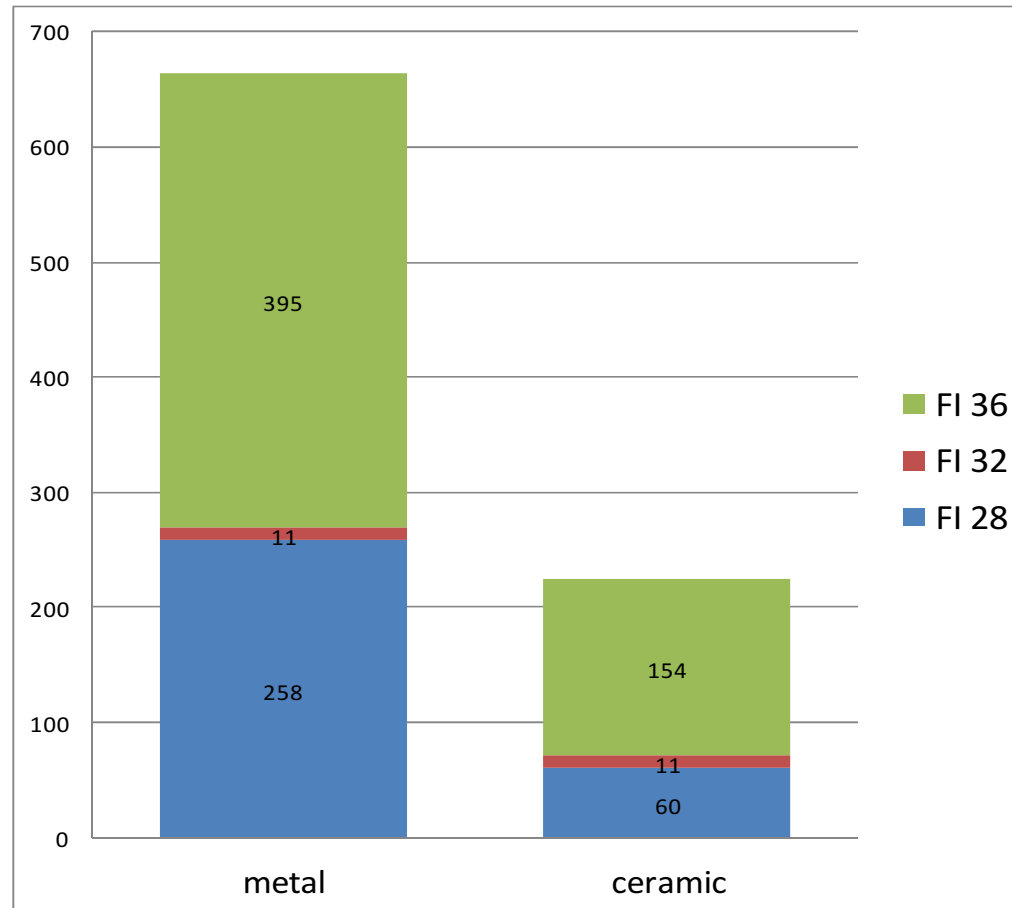
615 (70%) from X-linked polyethilen: 611 press fit, 4 cemented

# PRIMARY HEADS IN 2012, sum 893

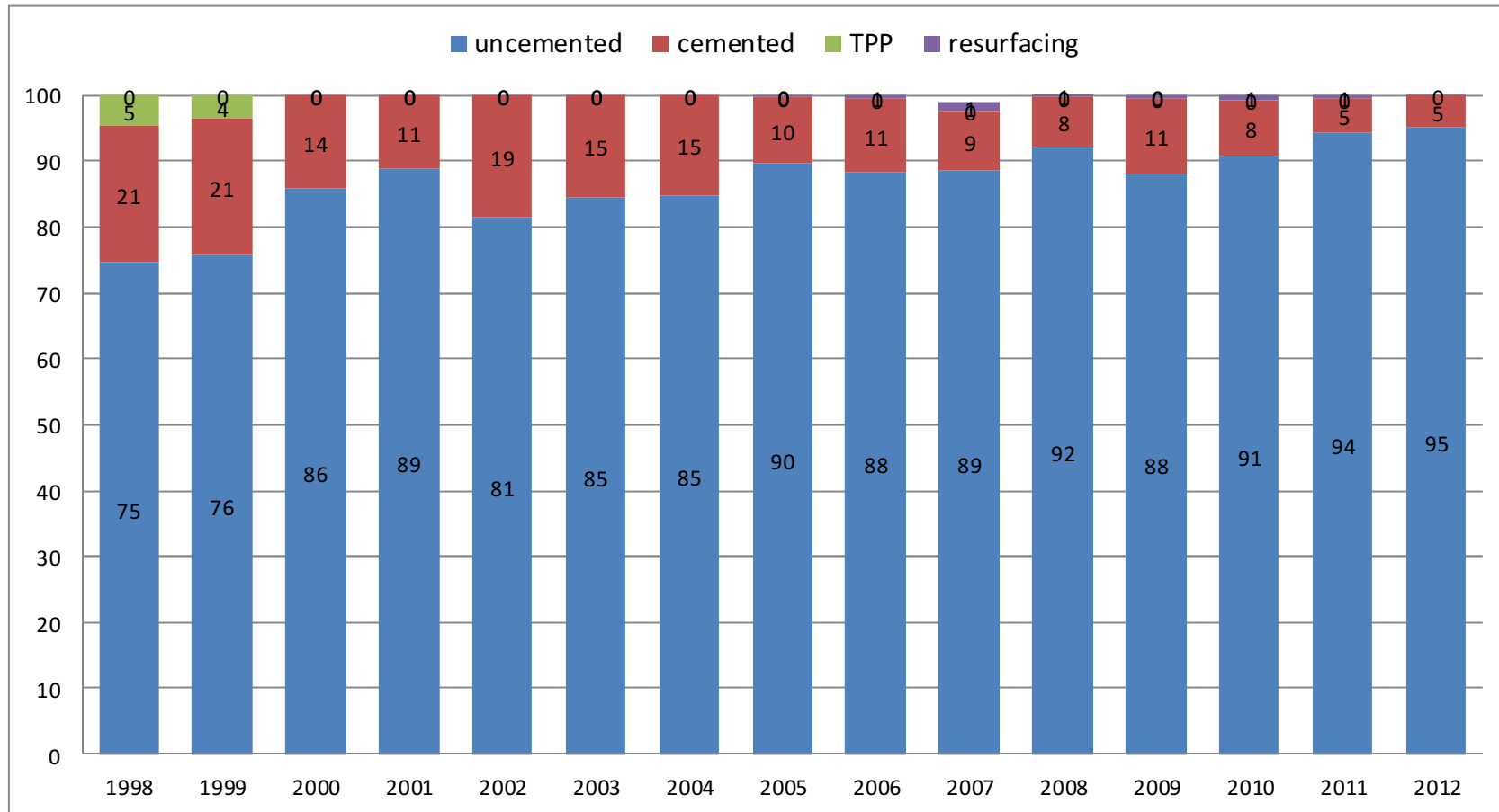


# Primary head's diameter in 2012

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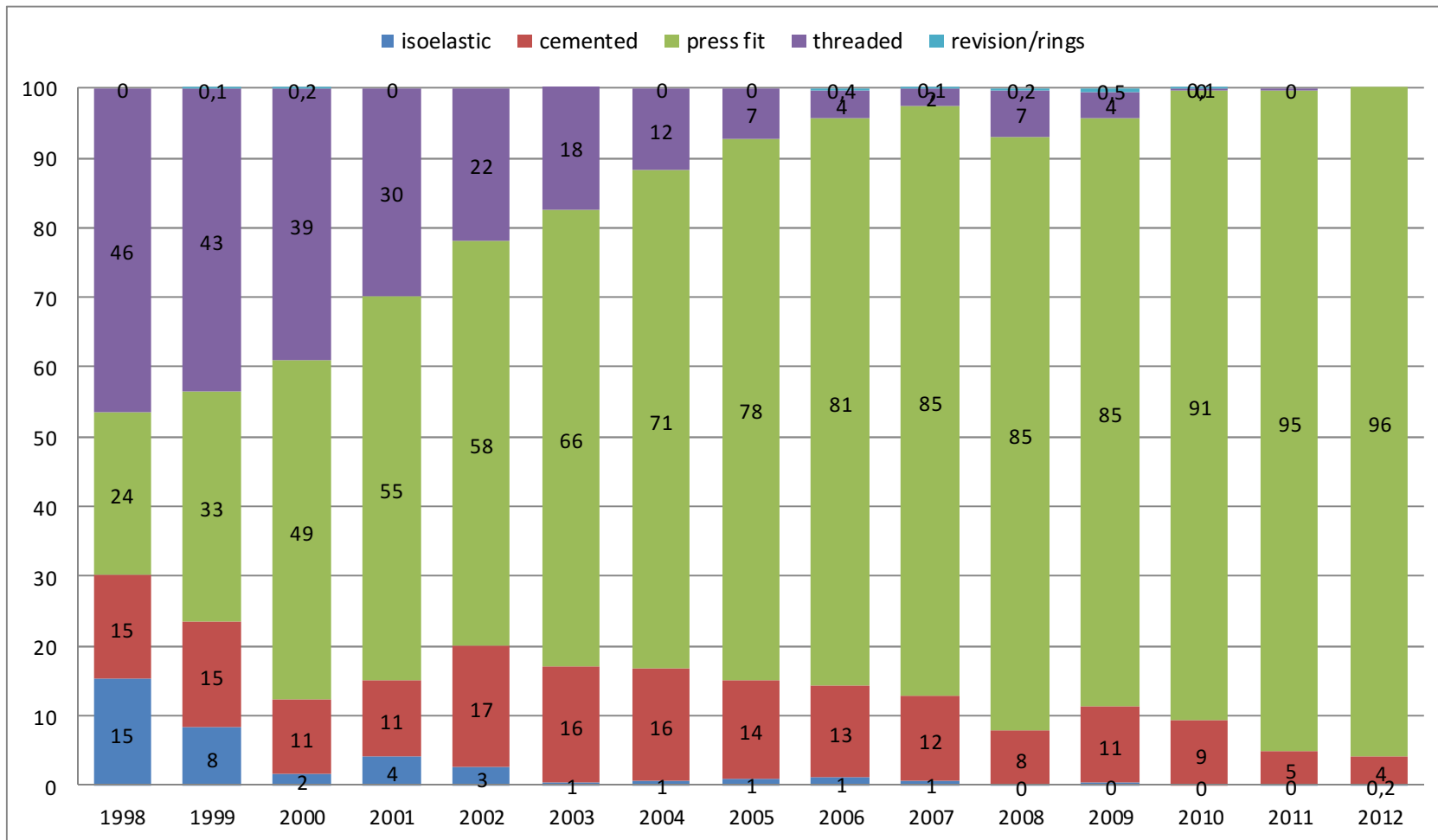


# Cemented, uncemented stems, trust-plate and resurfacing prostheses 1998 - 2012

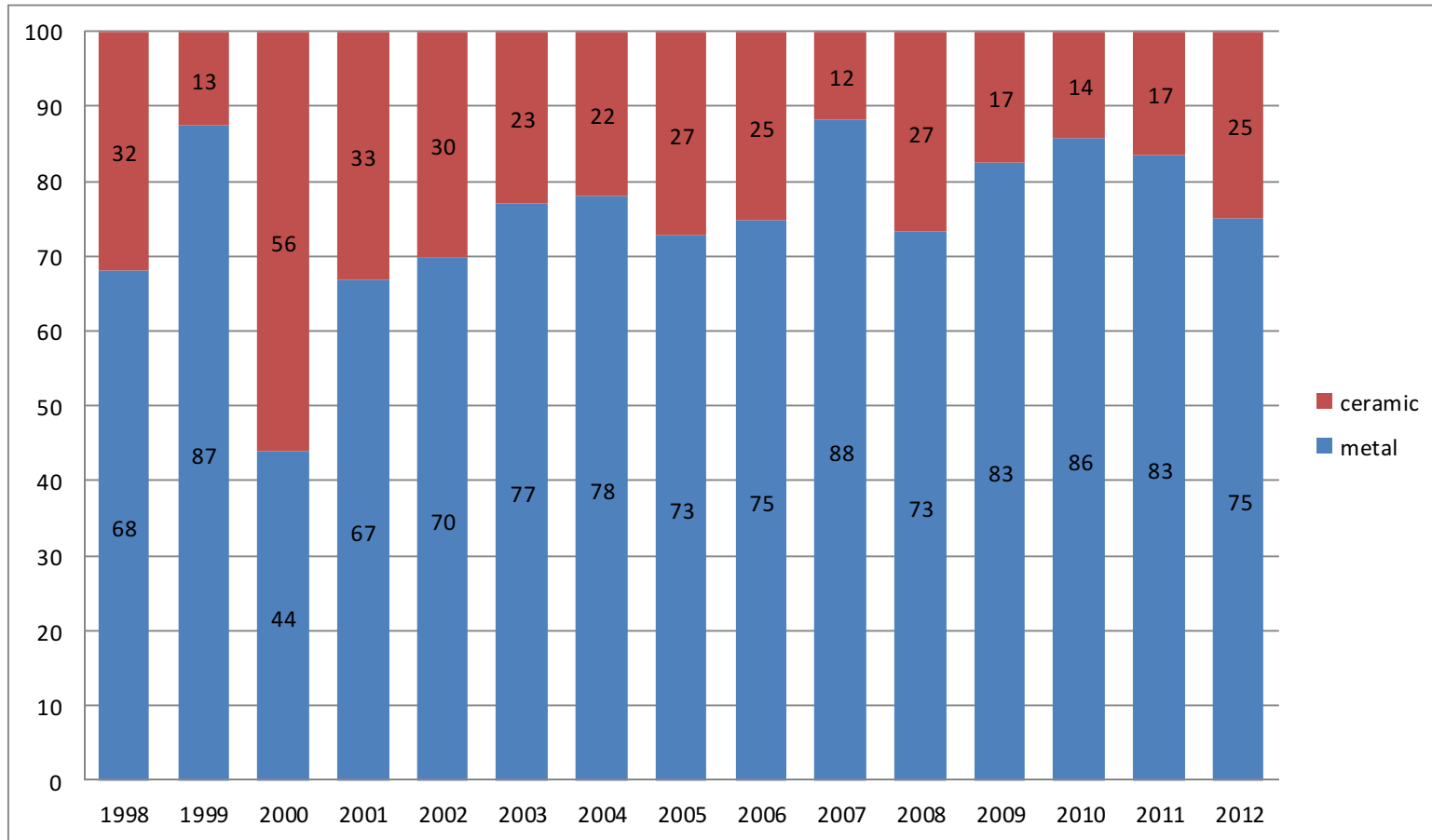




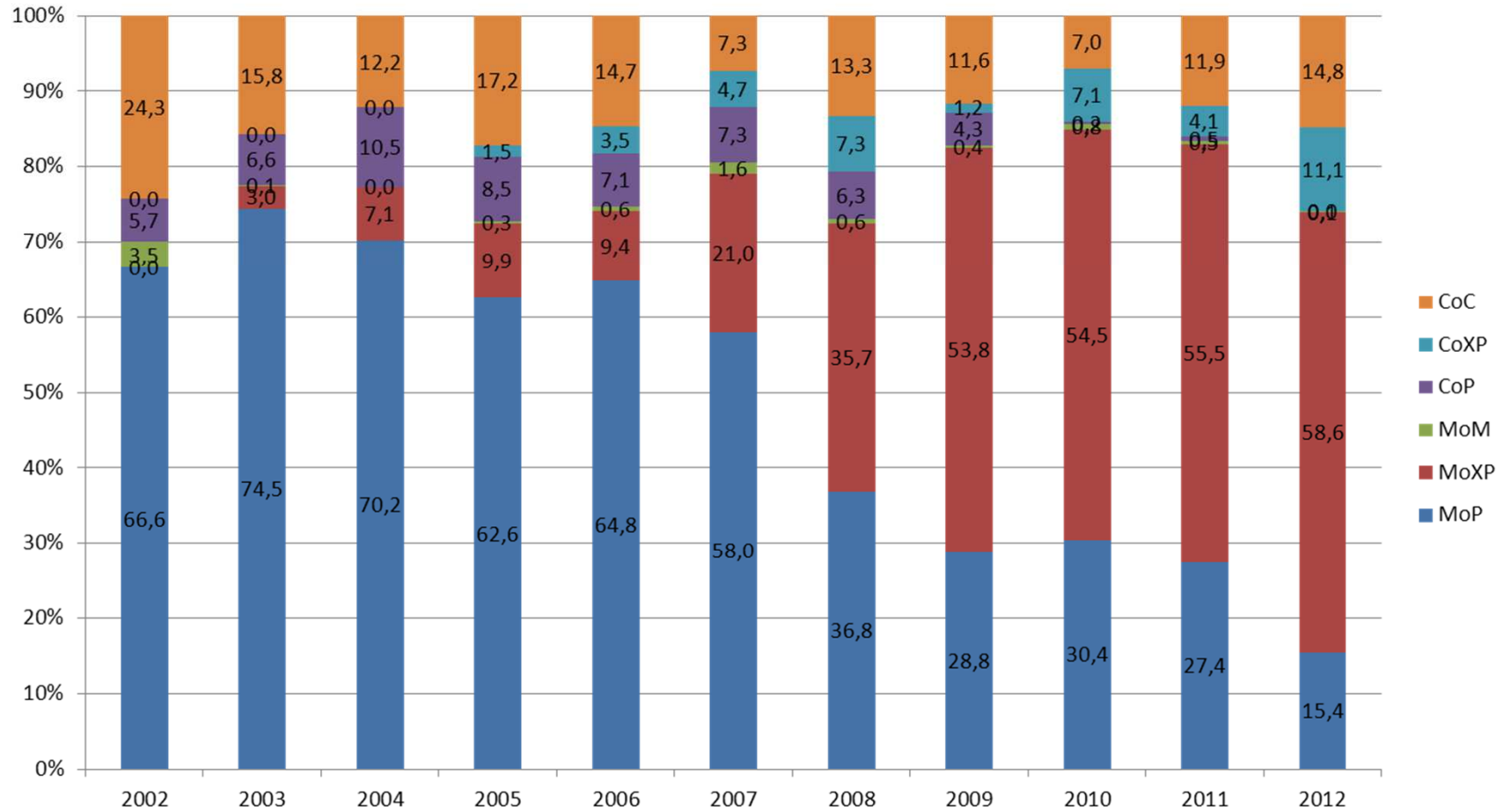
# Primary cups by fixation 1998 - 2012



# Percentage of metal and ceramic heads 1998 - 2012



# Bearing surface 2002-2012



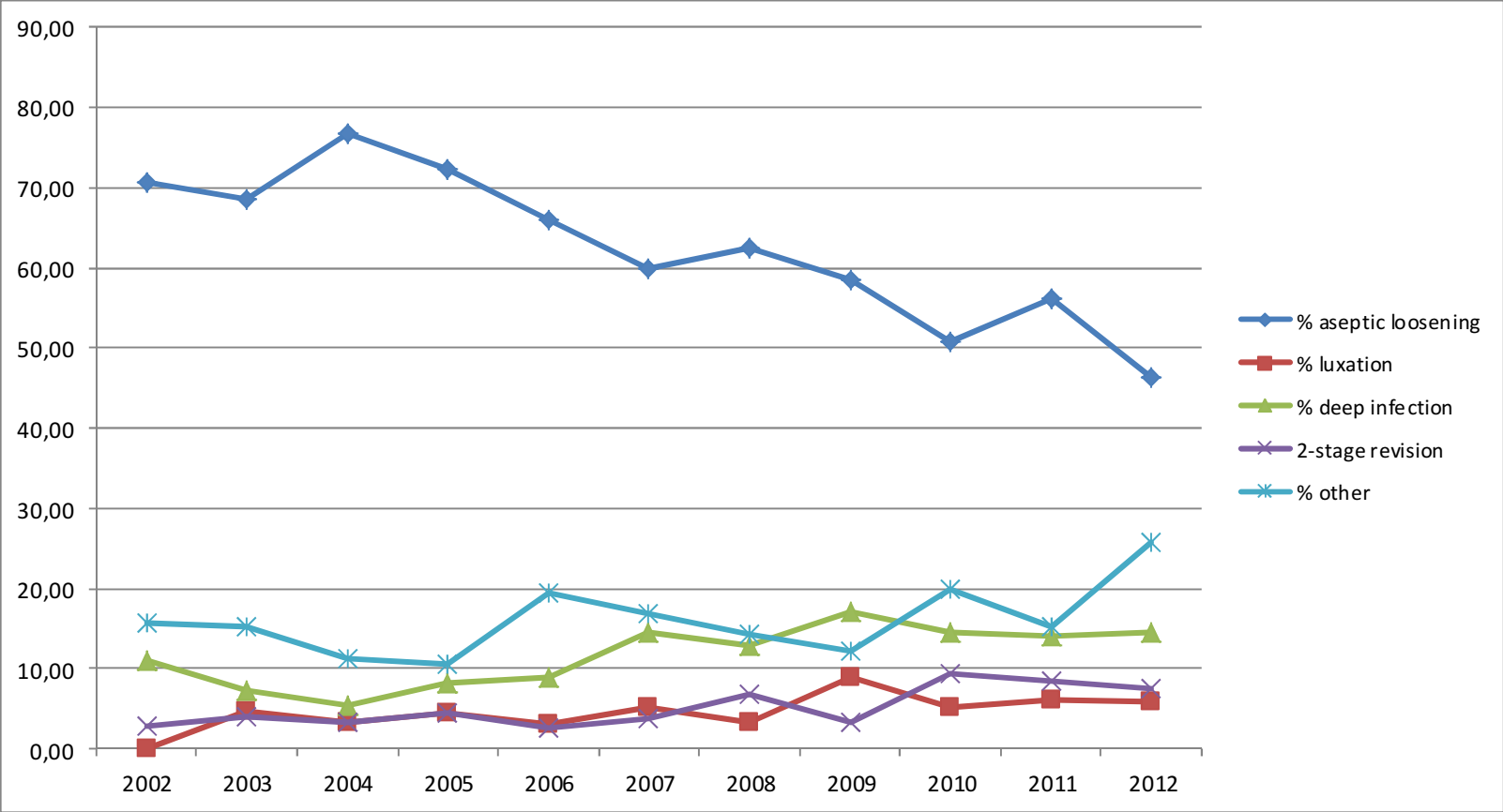
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## Revision operations

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# Reasons for revision THR from 2002 to 2012



# Revision rate for Valdoltra Orthopedic Hospital

	No of revisions x 100/(No of primary + No of revision THR)	No of revisions for <b>deep infection</b> x 100/(No of primary + No of revision THR)
2002	11,03 %	1,32 %
2003	12,64 %	0,63 %
2004	11,48 %	0,66 %
2005	11,05 %	0,67 %
2006	11,17 %	1,17 %
2007	11,96 %	1,60 %
2008	11,97 %	1,02 %
2009	13,78 %	1,68 %
2010	13,18 %	1,55 %
2011	13,17 %	1,51 %
2012	14,33 %	1,96 %
average	12,34 %	1,25 %
Sweden 2010	10,4 %	0,87 %

# Revisions per 100 observed component years:

Year	Follow up period (years)	Revision rate	Number primary cases	Number of all revisions	Number revisions in this FU period	Revision rate for revisions 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	1670	304	2,64	52888	0,57

# Revision rate for femoral stems from 2002 to 2012

Name	All primary stems	Explanted primary stems	% revision
cem SP Lubinus Link	628	1	0,16
Corail Jo&J	610	2	0,33
Varial Alloclassic Zimmer	2153	22	1,02
Fiber Metal	69	1	1,45
CBH stem Mathys	135	2	1,48
Versys Zimmer	1017	16	1,57
C2 LIMA	249	4	1,61
ZM Endoplus	2678	50	1,87
SL stem Zimmer	50	1	2,00
Profemur Z Cremascoli	1103	25	2,27
Basis SL Smith&Nephew	44	1	2,27
AHS Cremascoli	86	2	2,33
Elite Plus Jo&J	76	2	2,63
ribbed LINK	135	4	2,96
Copf (Chendo+Unior)	127	4	3,15



## Revision rate for acetabular components from 2002 to 2012

Name	All primary acetabular components	Explanted primary acet.	% revision
press fit Duraloc Jo&J	388	1	0,26
press fit Pinnacle Sector	352	1	0,28
<b>cemented IP Link</b>	285	1	0,35
press fit Delta Lima	260	1	0,38
press fit Allofit Zimmer	3092	24	0,78
press fit Trilogy Zimmer	1709	14	0,82
press fit MPF Endoplus	212	2	0,94
press fit RM Mathys	191	2	1,05
<b>cemented Apollo Biomet</b>	174	2	1,15
press fit Procoty Wright	149	2	1,34
<b>cemented Surgival</b>	105	2	1,90
press fit Mallory Biomet	51	1	1,96
press fit ANCA Crem	37	1	2,70
press fit Pipino CFP Link	444	14	3,15
<b>cemented LIMA</b>	339	11	3,24
<b>cemented Durasul Zimmer</b>	60	2	3,33
press fit EHS-E	317	12	3,79
press fit SPH Lima	46	2	4,35
threaded Bicon Endoplus	619	27	4,36
<b>cemented S&amp;N</b>	45	2	4,44
press fit DOETZ Endoplus	515	41	7,96
isoelastic Mathys	57	6	10,53

## Acknowledgements to:

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- ▶ the former general manager of Orthopedic Hospital Valdoltra prim. mag. Venčeslav Pišot, dr. med. and actual general manager Radoslav Marčan, dr. med., spec. ortop.
- ▶ all the orthopaedic surgeons, who perform Hip Arthroplasty in Orthopaedic Hospital Valdoltra
- ▶ all other medical and administrative staff, who are involved in the process of registration in Valdoltra Arthroplasty Register

