



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

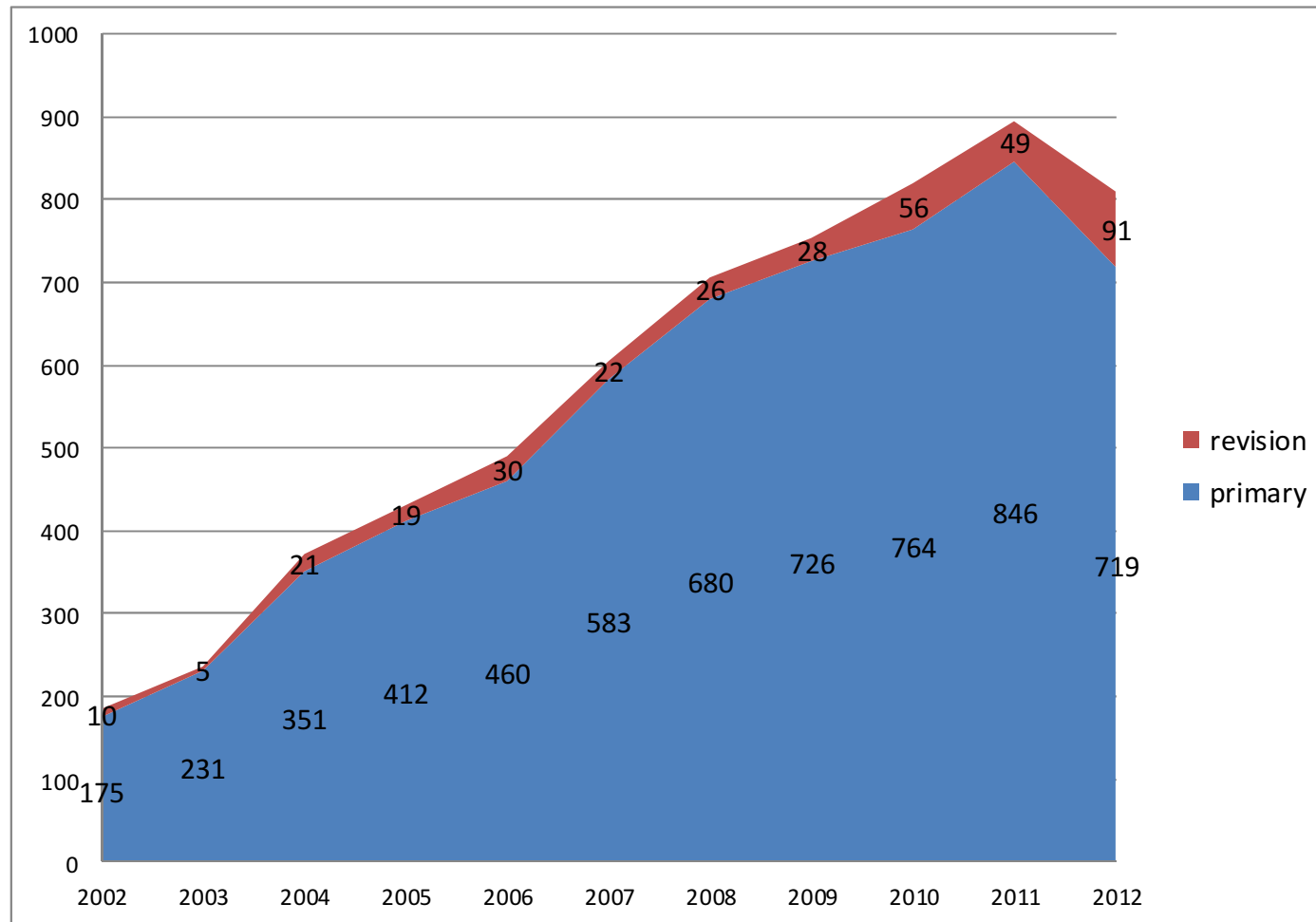
## **Valdoltra Knee Arthroplasty Register 2002 - 2012**

Vesna Levašič, MD

Ankaran, Slovenia, 28th August 2013

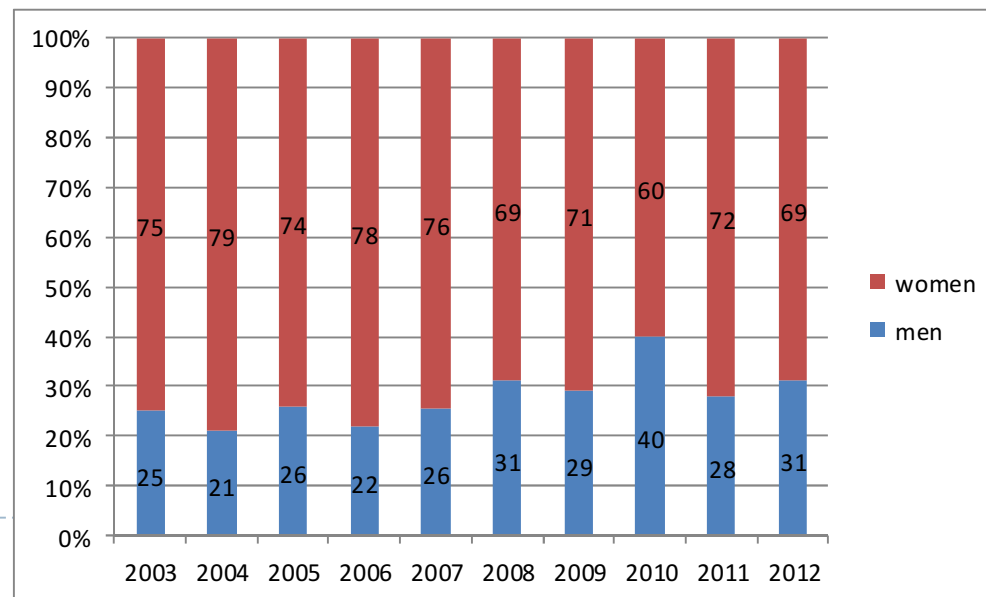


# Primary vs. revision knee replacement

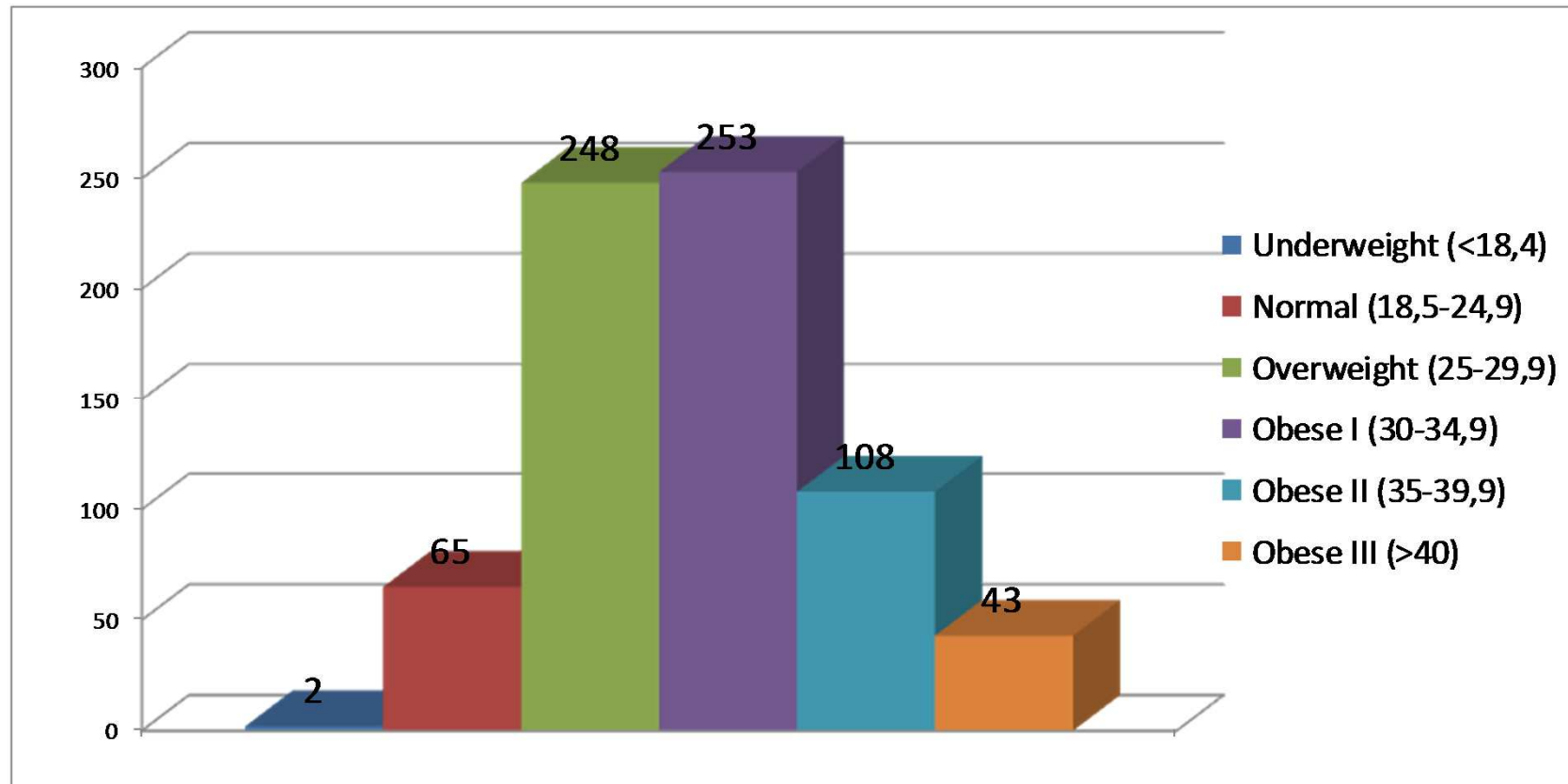


# Patient data: OA is the primary diagnosis in 88%

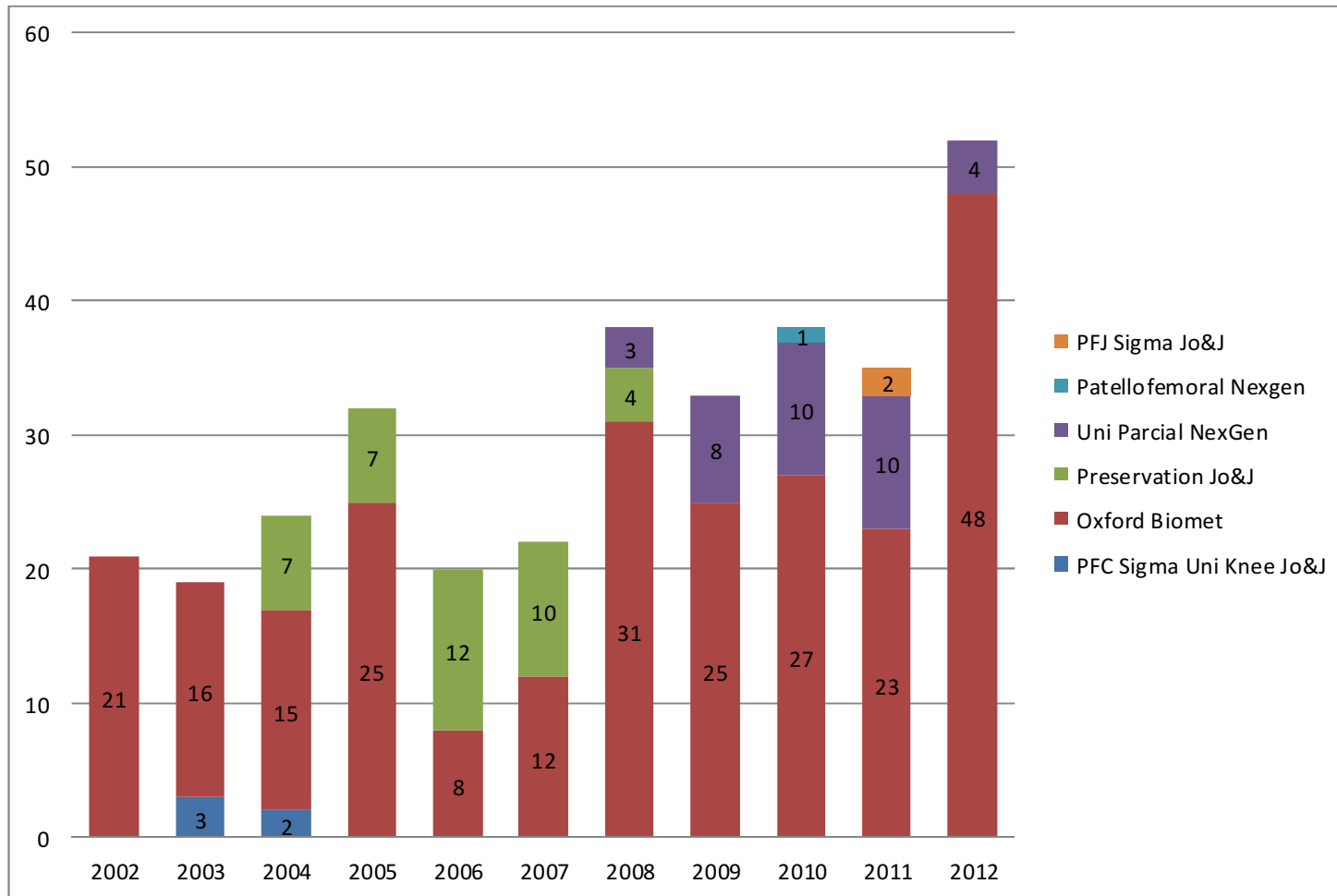
	Men	Women
2006	67 (40-80)	70 (43-84)
2007	69 (51-87)	71 (27-87)
2008	68 (40-85)	70 (32-87)
2009	68 (43-83)	71 (41-88)
2010	67 (33-86)	69 (40-87)
2011	67 (27-90)	70 (34-90)
2012	67 (41-82)	70 (48-89)



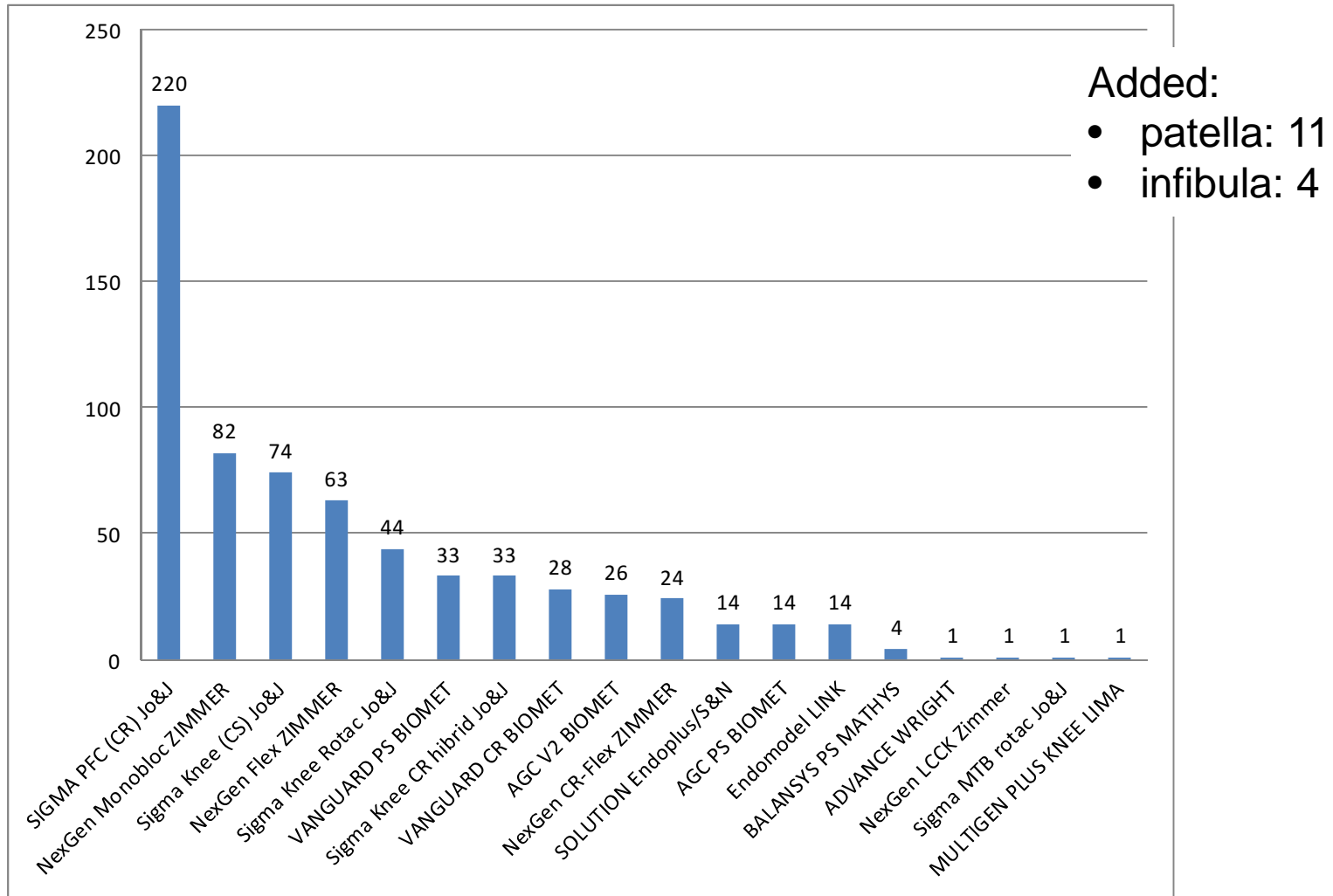
BMI of patients in 2012:  
avg 32,1; min 18; max 48



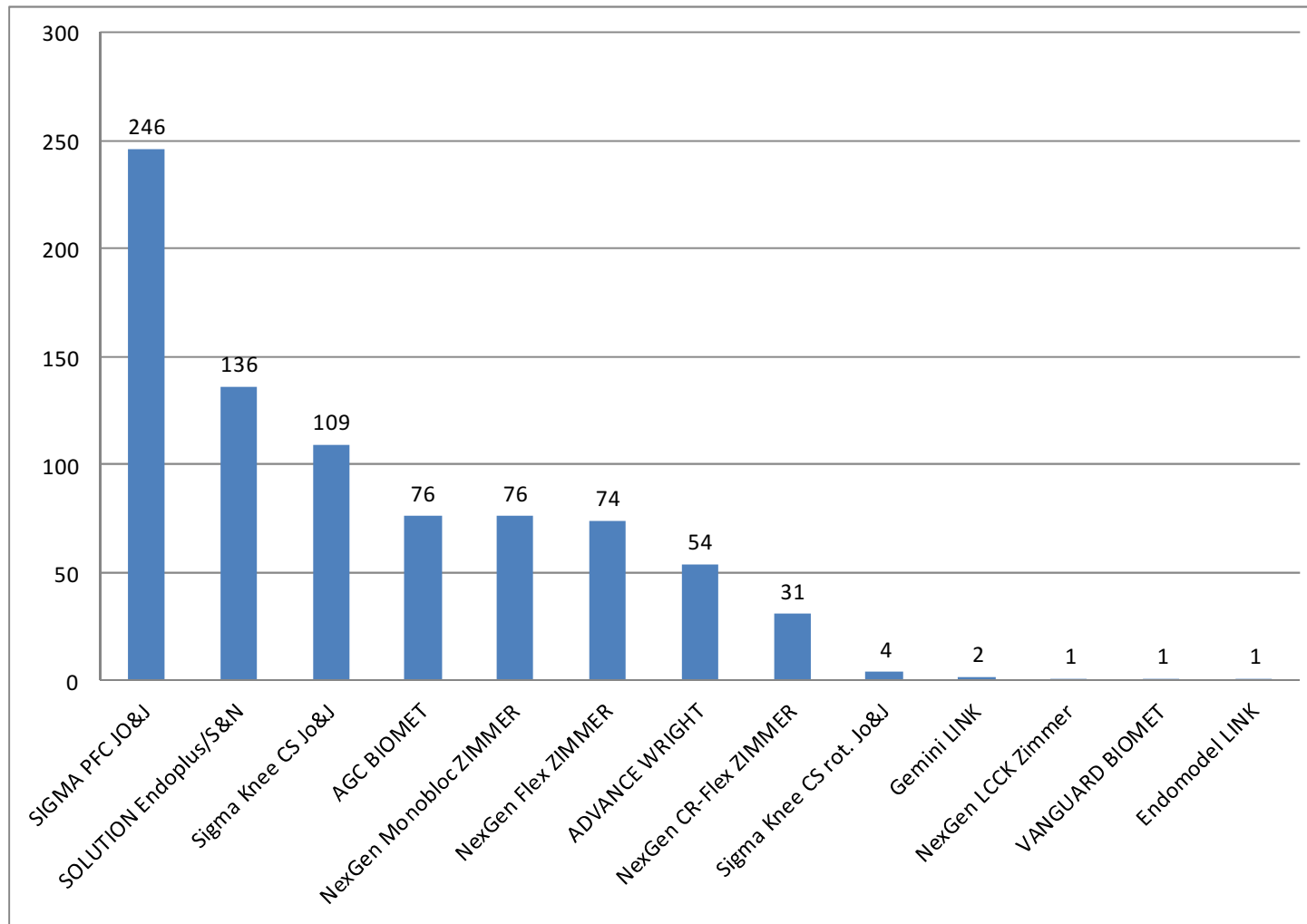
## Unikondilar Knee Prostheses from 2002 to 2012



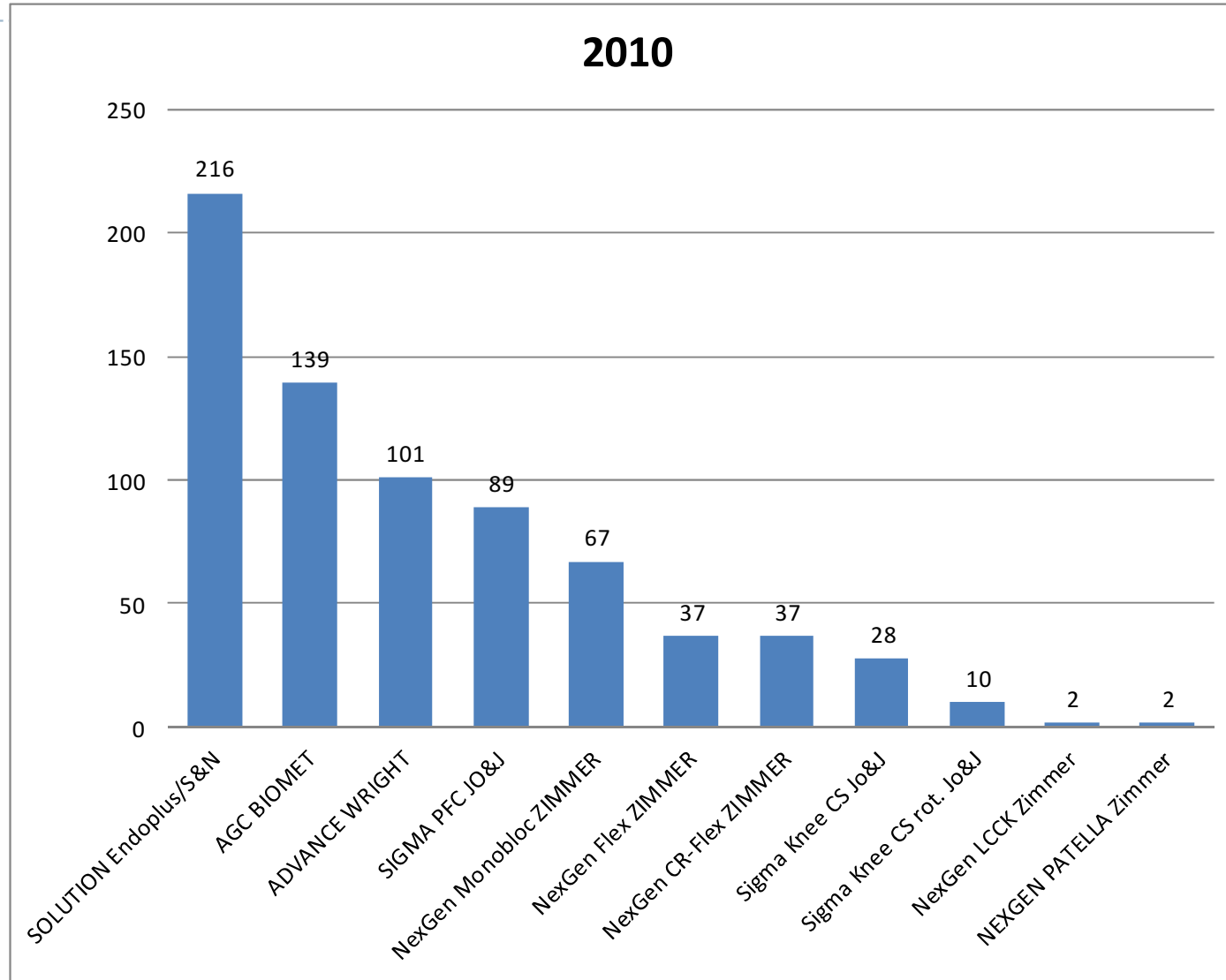
# Primary TKR in 2012, sum 667



# Primary TKR in 2011, sum 811

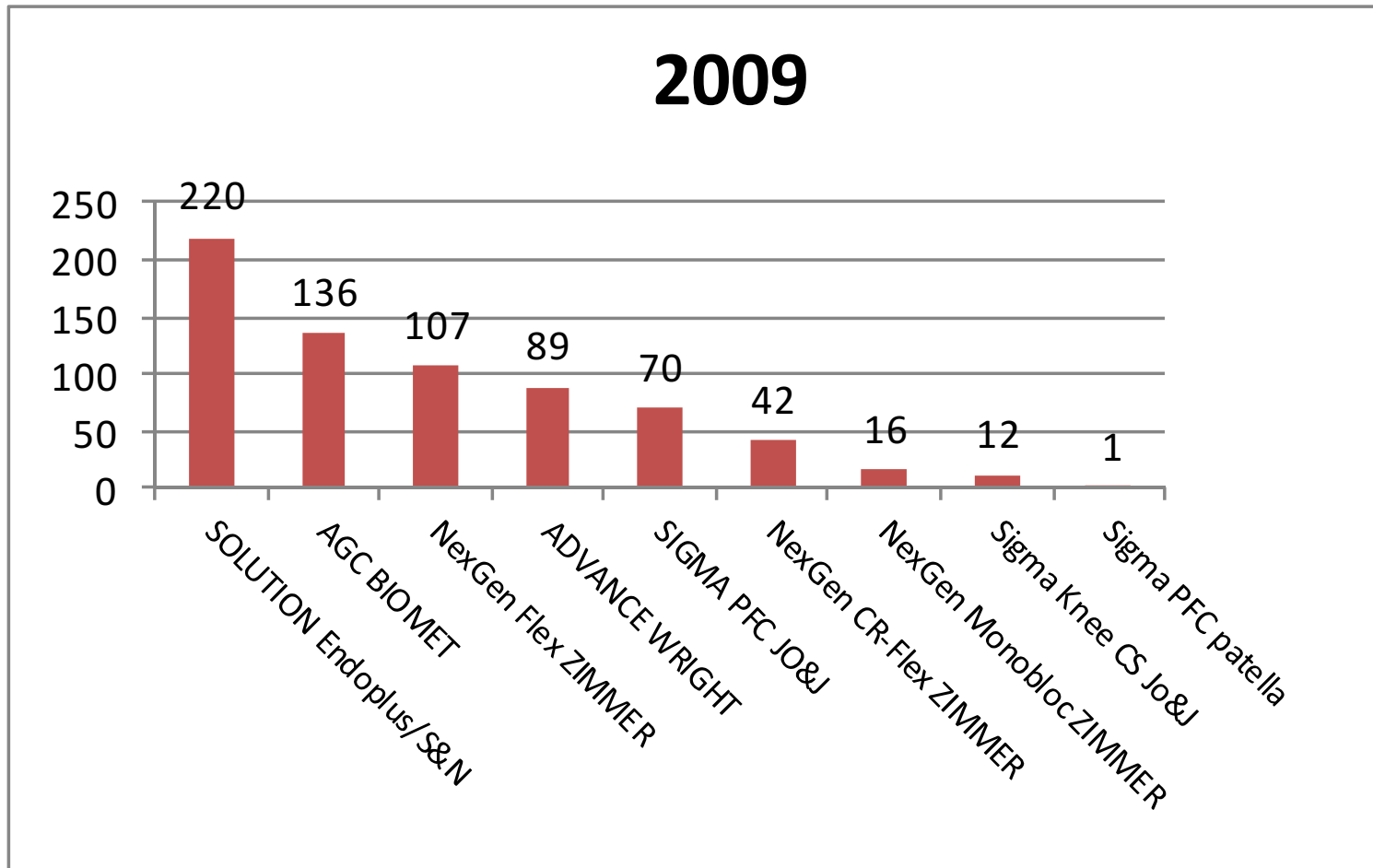


# Primary TKR in 2010 , sum 726



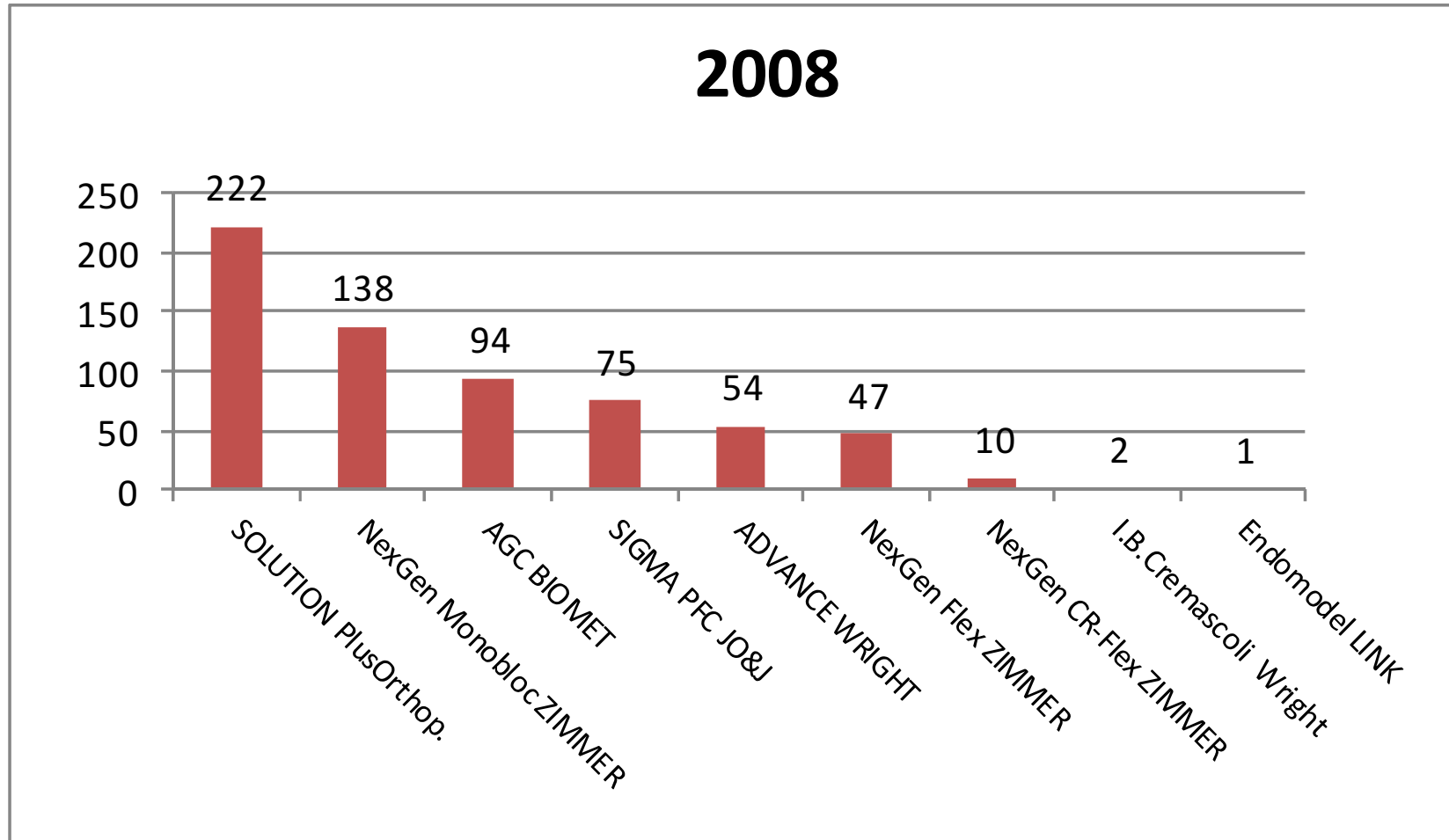


# Primary TKR in 2009, sum 693



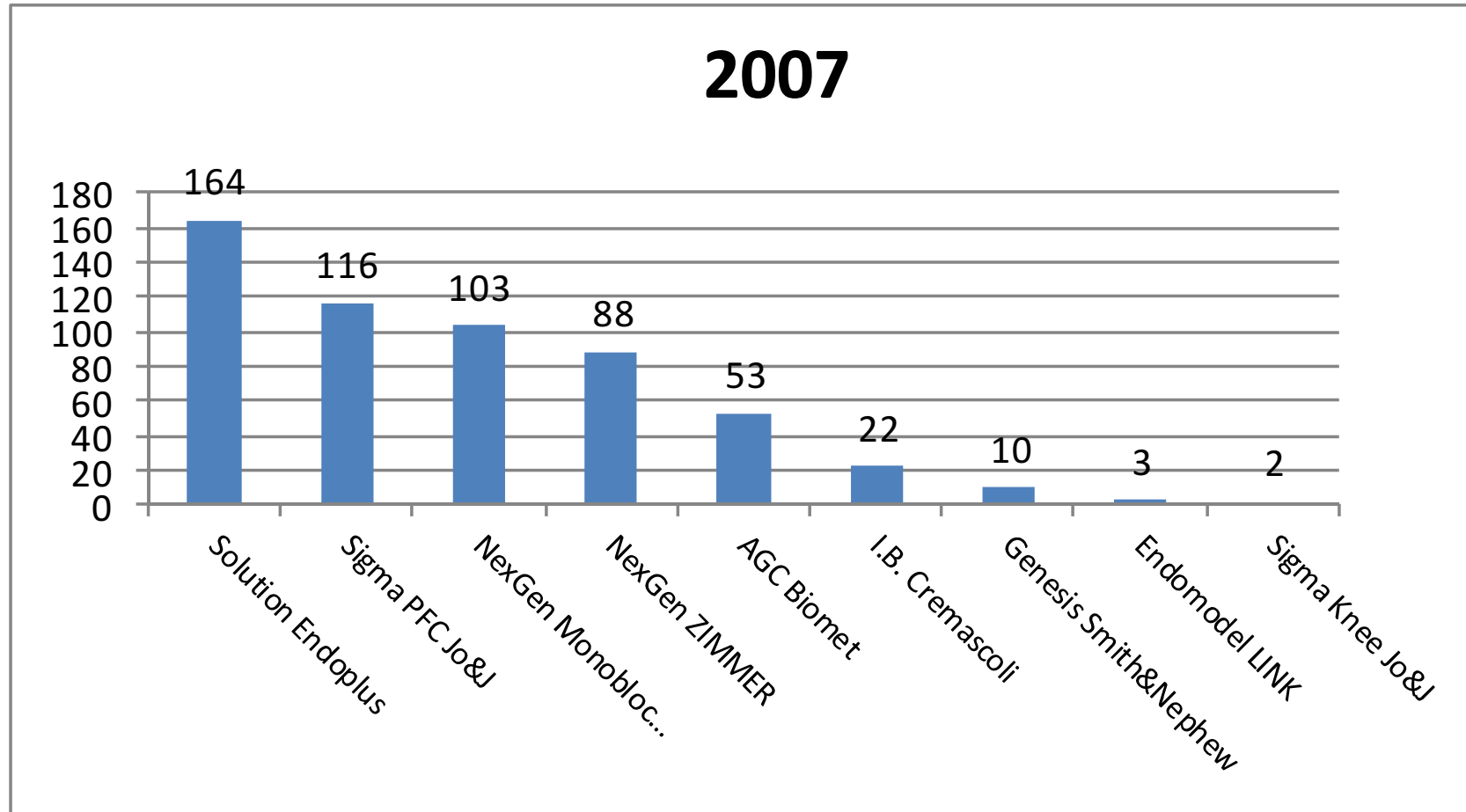
# Primary TKR in 2008, sum 642

---



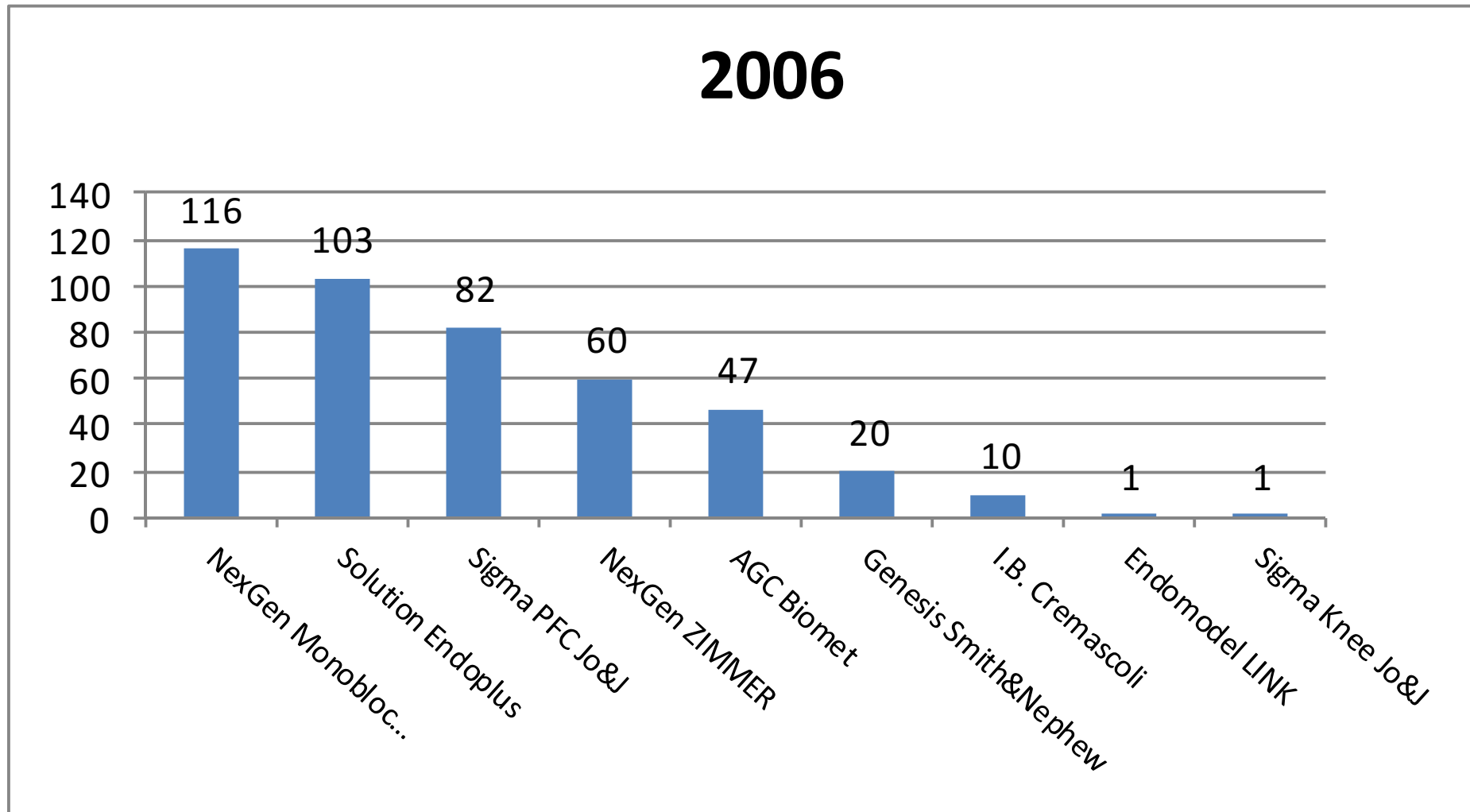
# Primary TKR in 2007, sum 561

---

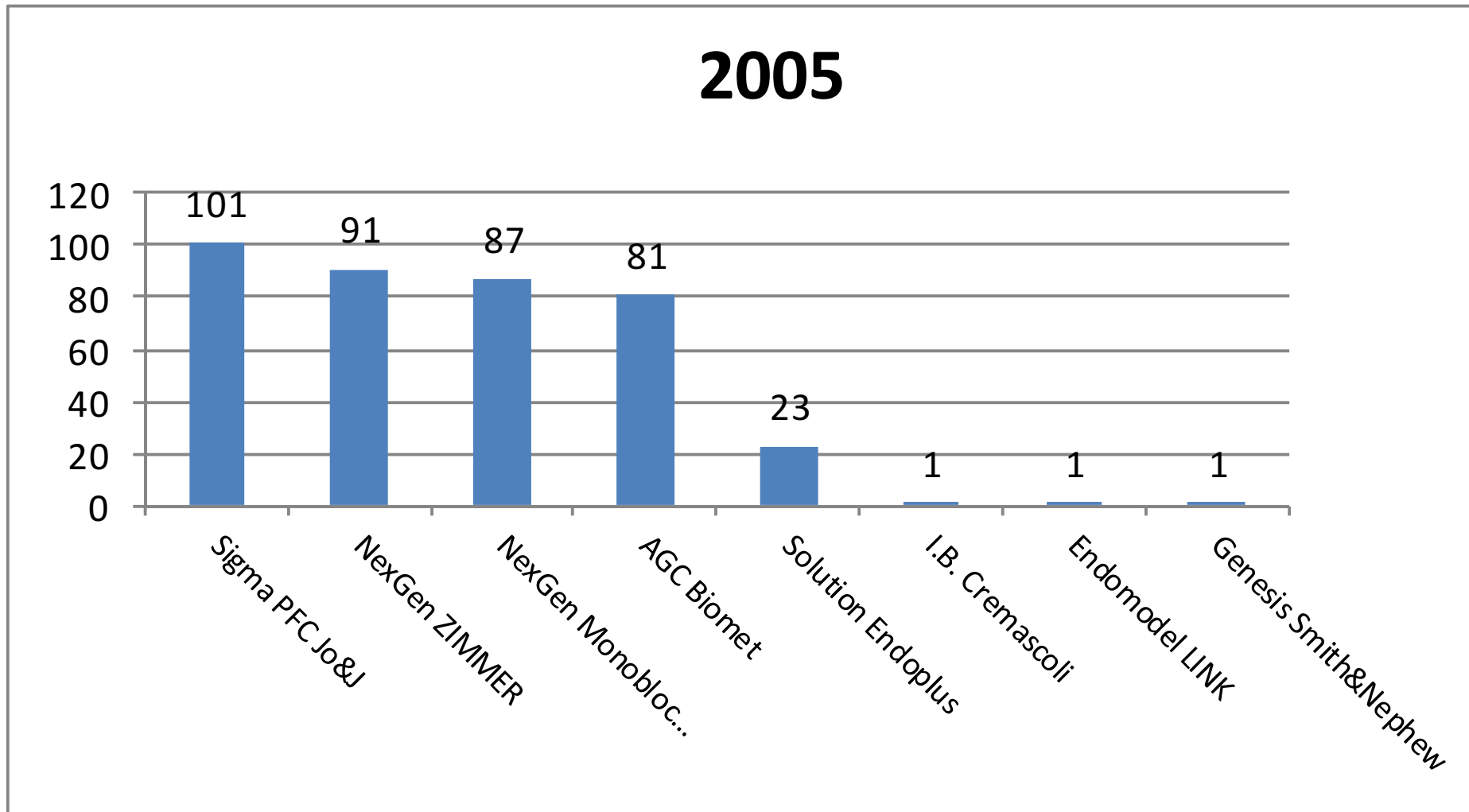


# Primary TKR in 2006, sum 440

---

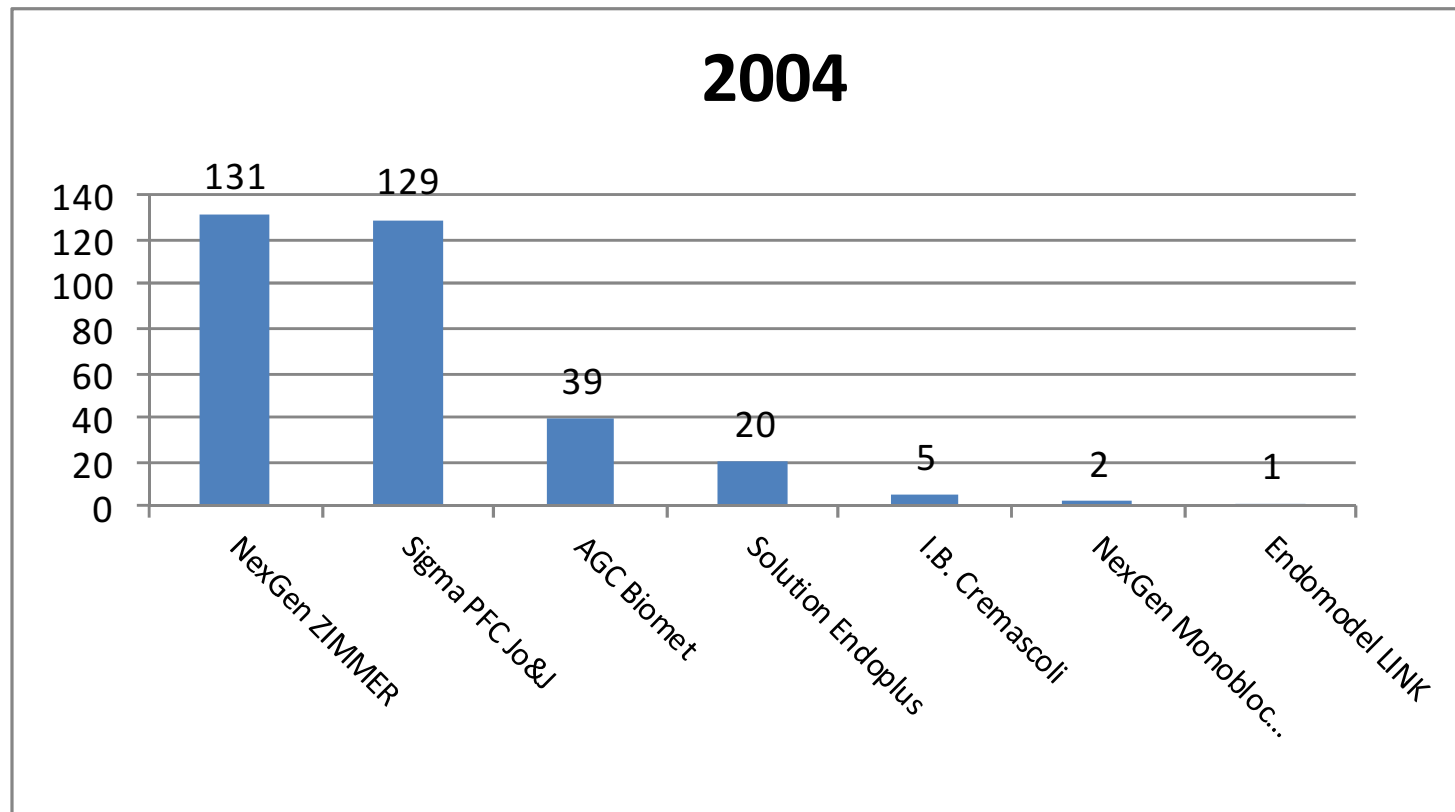


# Primary TKR in 2005, sum 386



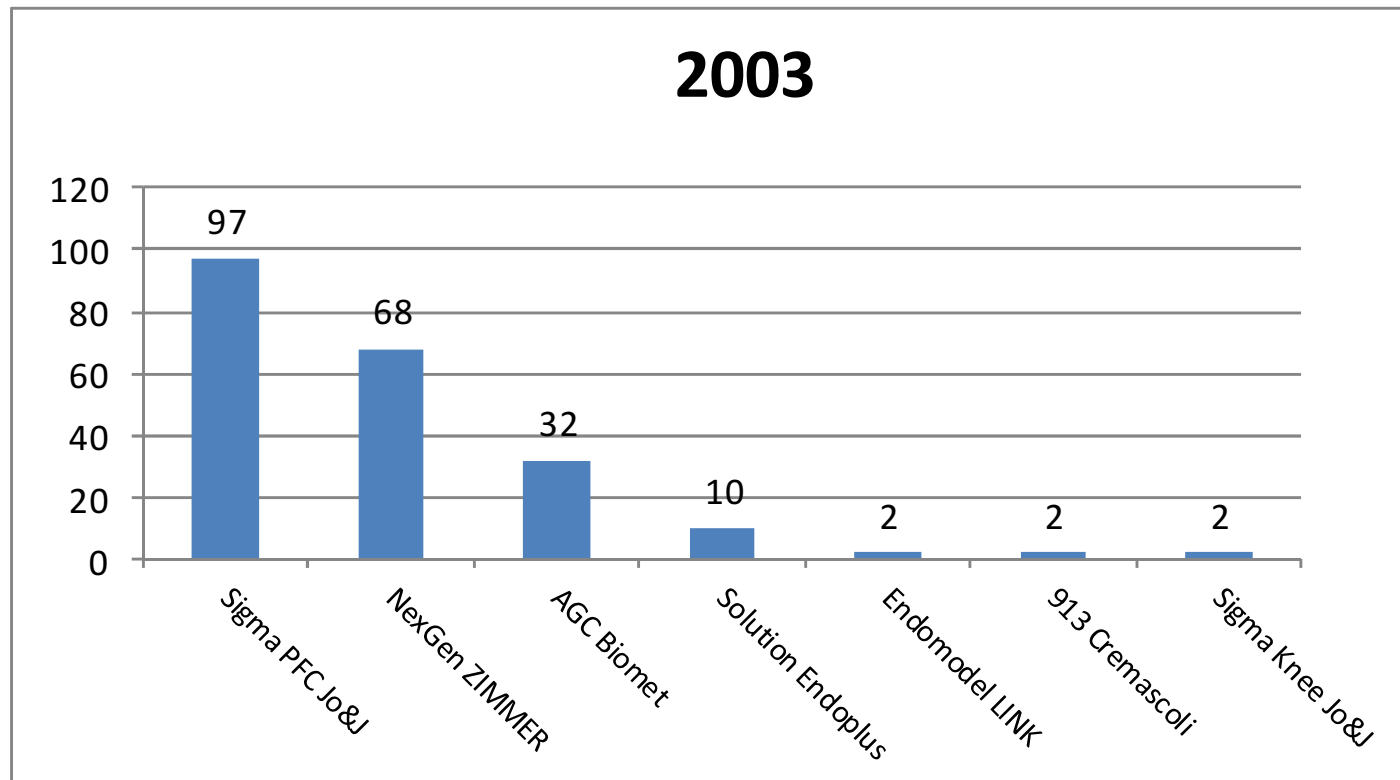
# Primary TKR in 2004, sum 327

---



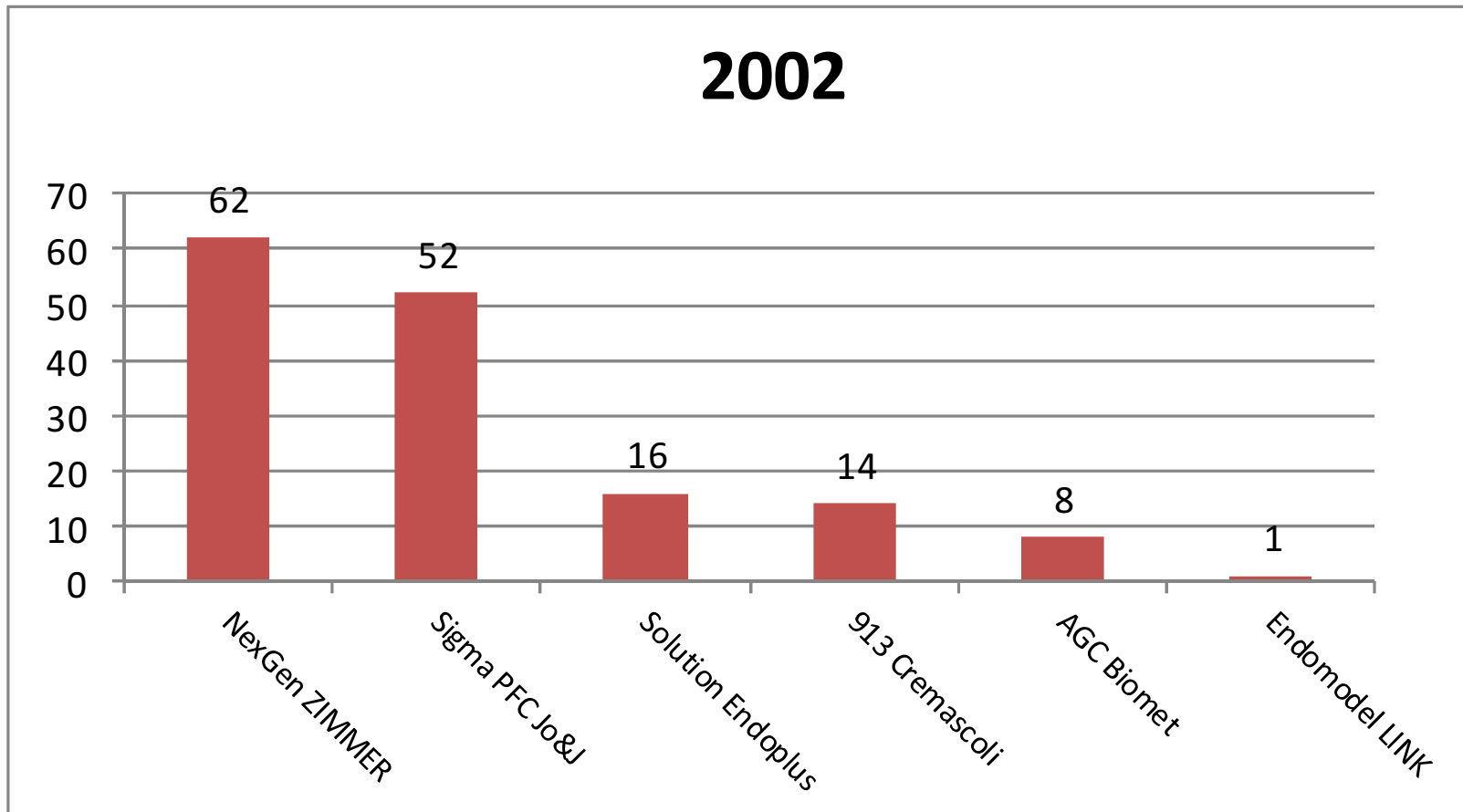
# Primary TKR in 2003, sum 213

---



# Primary TKR in 2002, sum 153

---



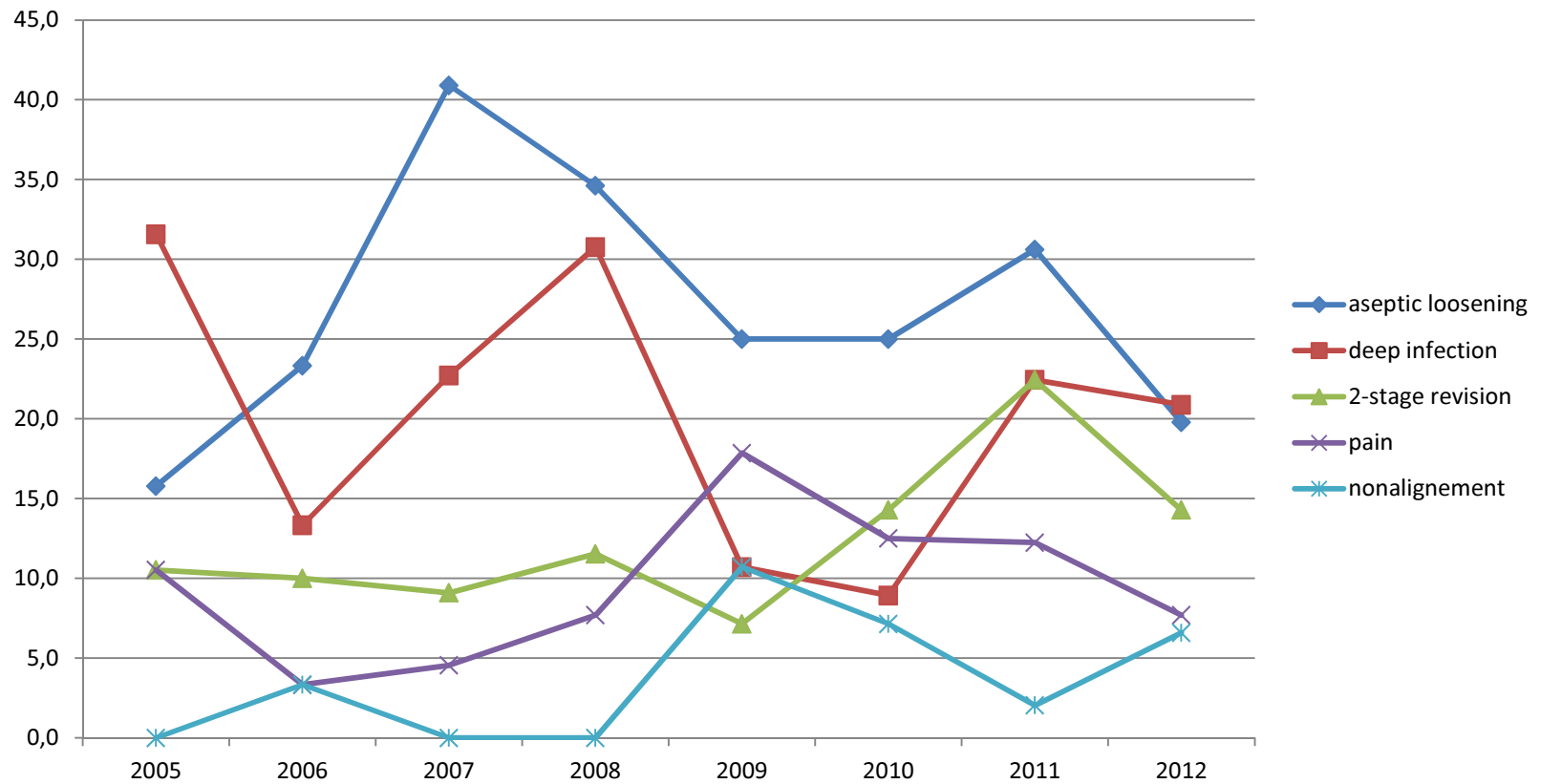


---

## Revision operations



## 5 main reasons for revision TKR from 2005 to 2012 (%)



## REVISION BURDEN – ALL REVISIONS

	RB (revision burden) = N <sup>o</sup> of revisions*100/(N <sup>o</sup> of primaries+ N <sup>o</sup> of revisions)	N <sup>o</sup> of revisions for infection*100 / (N <sup>o</sup> of primaries+ N <sup>o</sup> of revisions)
2003	2,12 %	0,00 %
2004	5,65 %	0,81 %
2005	4,41 %	0,93 %
2006	6,12 %	1,22 %
2007	3,64 %	1,49 %
2008	3,54 %	1,27 %
2009	3,71 %	0,93 %
2010	6,83 %	1,46 %
2011	5,47 %	1,68 %
2012	11,23 %	2,22 %
Avg OBV	5,27 %	1,20 %
Norway 09	8,90 %	1,02 %
Slovakia 10	4,23 %	1,45 %

## Revisions per 100 observed component years

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	0,33	<b>5,41</b>	175	10	0	<b>0,00</b>	57,01	<b>0,00</b>
2003	0,75	<b>3,56</b>	406	15	0	<b>0,00</b>	303,22	<b>0,00</b>
2004	1,11	<b>4,54</b>	757	36	6	<b>0,76</b>	842,45	<b>0,71</b>
2005	1,50	<b>4,49</b>	1169	55	12	<b>0,98</b>	1755,74	<b>0,68</b>
2006	1,94	<b>4,96</b>	1629	85	21	<b>1,23</b>	3158,47	<b>0,66</b>
2007	2,28	<b>4,61</b>	2212	107	29	<b>1,25</b>	5036,09	<b>0,58</b>
2008	2,61	<b>4,40</b>	2892	133	39	<b>1,29</b>	7559,61	<b>0,52</b>
2009	2,98	<b>4,26</b>	3618	161	54	<b>1,43</b>	10774,70	<b>0,50</b>
2010	3,36	<b>4,72</b>	4382	217	82	<b>1,78</b>	14736,73	<b>0,56</b>
2011	3,73	<b>4,84</b>	5228	266	99	<b>1,80</b>	19515,48	<b>0,51</b>
2012	4,22	<b>5,66</b>	5947	357	136	<b>2,16</b>	25086,56	<b>0,54</b>

## Revision rate for knee prostheses from 02 to 12

ime	odstranjeni	vsi vstavljeni	% revizij
Uni Parcial NexGen Zimmer	0	35	0,00
Sigma Knee HIBRID Jo&J	0	33	0,00
Vanguard Biomet	0	29	0,00
Sigma Knee (CS) Jo&J	1	290	0,34
Solution Endoplus S&N	16	1151	1,39
Sigma PFC (CR) Jo&J	22	1297	1,70
Nexgen Monobloc ZIMMER	12	688	1,74
AGC Biomet	16	747	2,14
Preservation Jo&J	1	40	2,50
Nexgen ZIMMER	32	859	3,73
Advance WRIGHT	12	300	4,00
Nexgen LCCK Zimmer	2	31	6,45
Endomodel LINK	3	39	7,69
Oxford Biomet	20	251	7,97
Genesis S&N	3	33	9,09

## Aknowldgements to:

---

- ▶ the former director of Valdoltra Orthopedic Hospital prim. mag. Venčeslav Pišot, dr. med., spec. ortop. and actual director Radoslav Marčan, dr. med., spec. ortop.
- ▶ the depute director for research department prof. dr. Ingrid Milošev
- ▶ all the orthopaedic surgeons, who perform knee arthroplasty in Valdoltra Hospital
- ▶ all other medical and administrative stuff, who are involved in the process of registration in Valdoltra Arthroplasty Register

