

The National Arthroplasty Registry of Slovenia (RES) 1st Annual Report - Hip Replacement (data from 2019)

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The National Arthroplasty Registry of Slovenia- RES

Registry Holder: Valdoltra Orthopaedic Hospital

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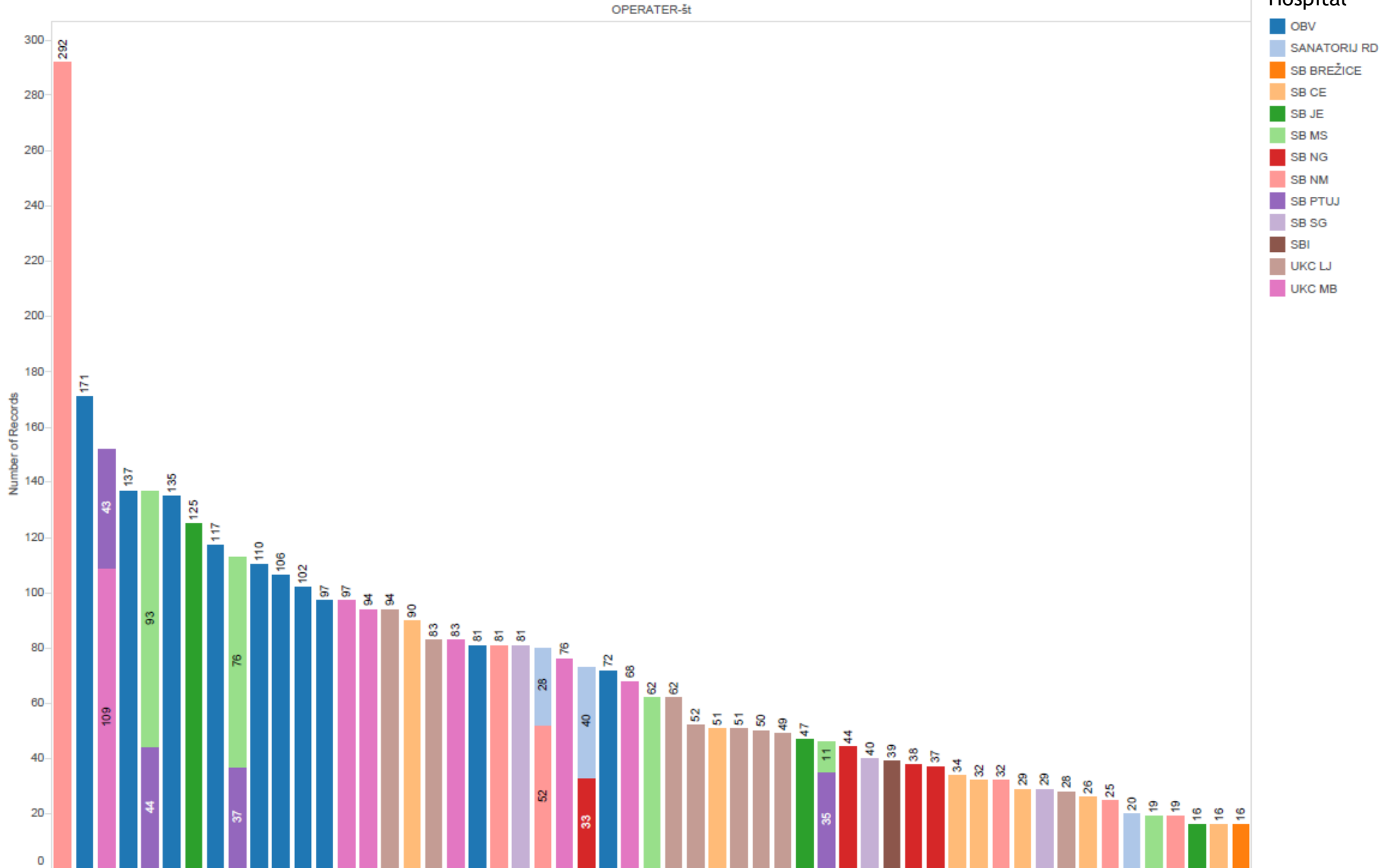
Registry completeness: 92 % of all Primary and Revision Hip Replacements in Slovenia

Year	Primary Total HR	Primary Partial HR	Revision HR	Total
2019	3727	378	356	4461

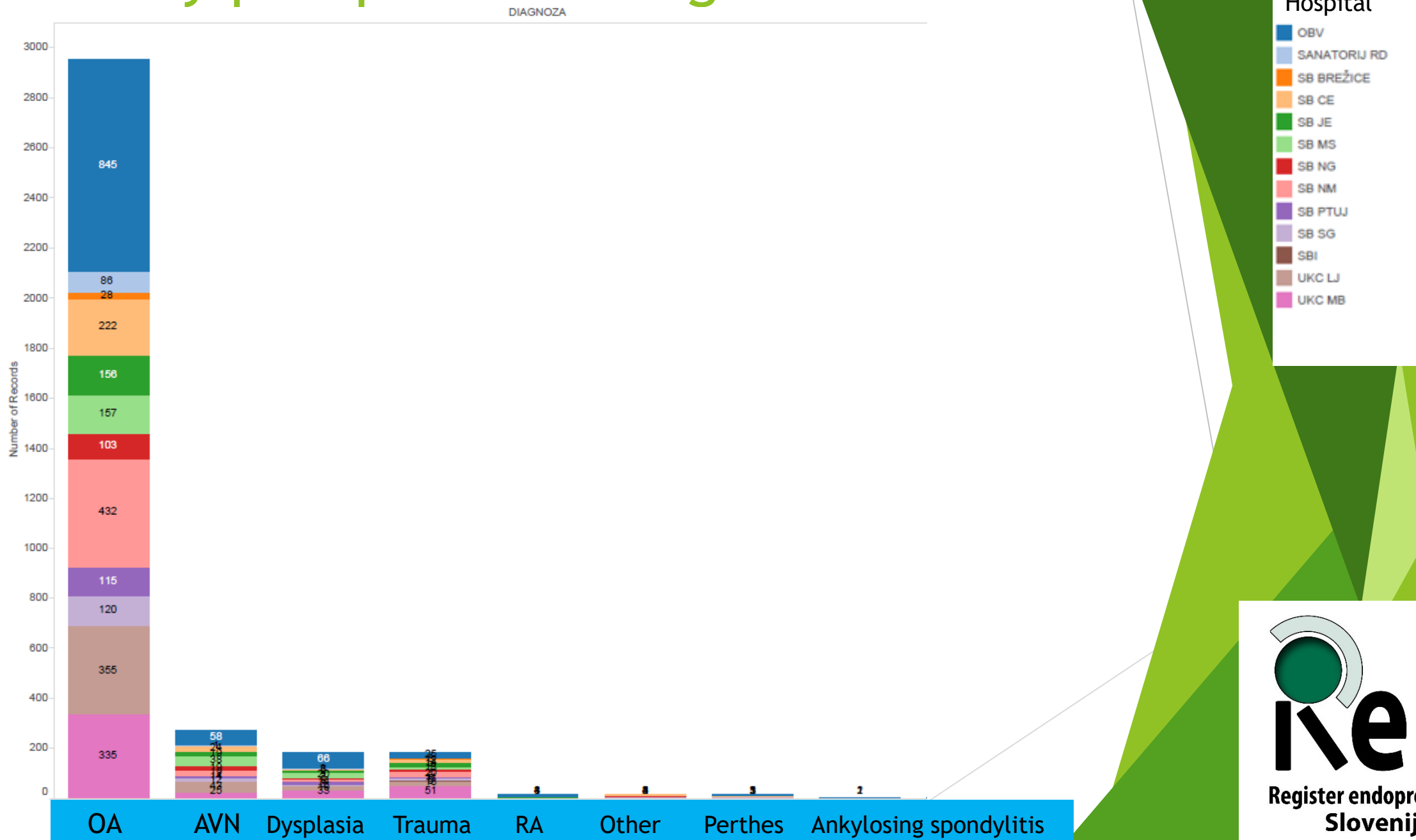
Demographic data:

Surgery 2019	Average Age($\pm$ SD)	Men (%)	Women (%)	Right (%)	Left (%)
Primary Total HR	68 ($\pm$ 10)	45	55	54	46
Primary Partial HR	83 ($\pm$ 8)	32,5	67,5	51	49
Revision HR	71,83 ($\pm$ 11)	48	52	50	50

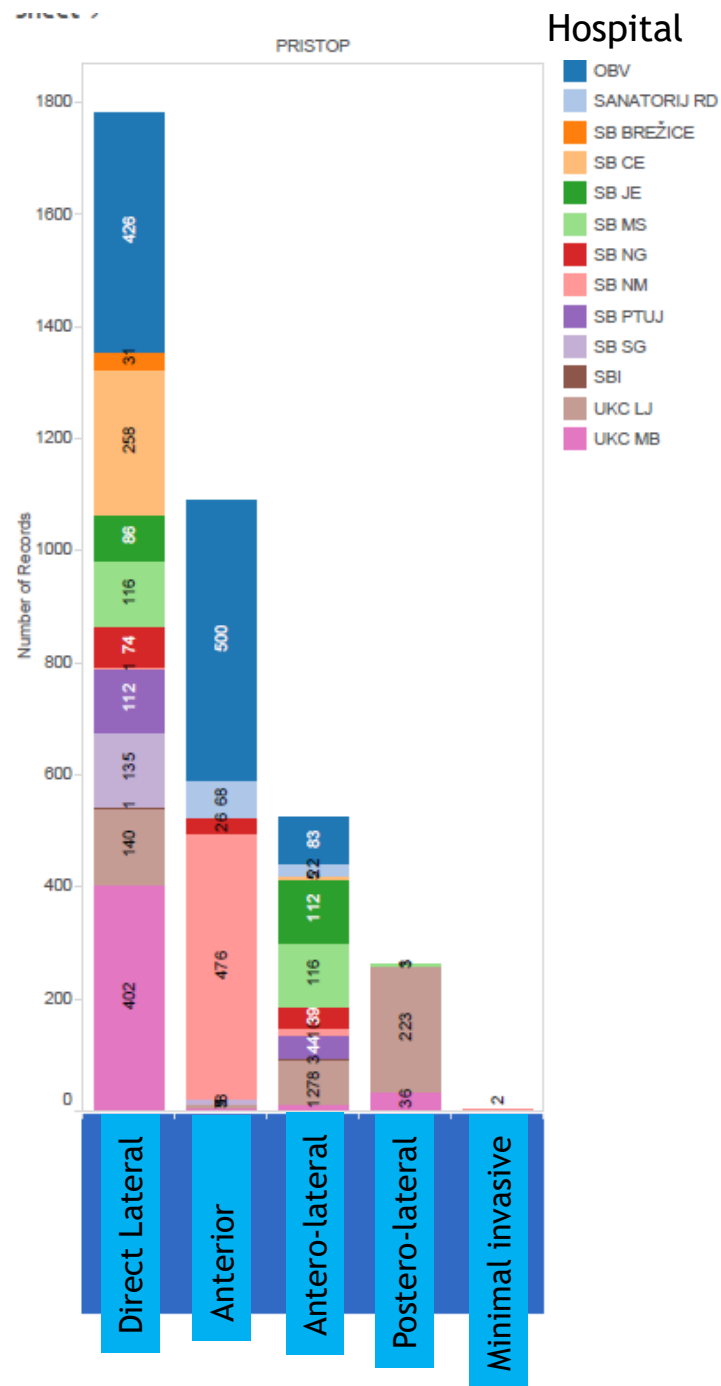
N° of operations per surgeon (primary and revision)



THR by preoperative diagnoses



THA approach



Uncemented THA

Part 1

Uncemented (Stem:Cup)vesnal	N°	N° of revision	% of revision
ABG II-STRYKER:Trident PSL HA-STRYKER	2		
CoP	2		
Acor-AMPLITUDE:ConeTact-SANATMETAL	1		
MoP	1		
Acor-AMPLITUDE:Freeliner-EVOLUTIS	8		
CoC	1		
CoXP	6		
MoXP	1		
Acor-AMPLITUDE:G7-BIOMET	1		
CoXP	1		
Acor-AMPLITUDE:Saturne II Dual Mobility-AMPLITUDE	46		
CoP	9		
MoP	37		
Alloclassic Revision-ZIMMER:Allofit-ZIMMER	11		
CoP	2		
CoXP	2		
MoP	3		
MoXP	4		
Alloclassic-ZIMMER :Continuum-ZIMMER	1		
MoXP	1		
Alloclassic-ZIMMER:Allofit IT-ZIMMER	75	1	1,33
CoC	70	1	1,43
CoXP	5		
Alloclassic-ZIMMER:Allofit-ZIMMER	709	9	1,27
CoP	24		
CoXP	303	4	1,32
MoP	16		
MoXP	366	5	1,37
Alloclassic-ZIMMER:Avantage cementless-BIOMET	2		
MoP	2		
Alloclassic-ZIMMER:Continuum-ZIMMER	1		
MoXP	1		
Apta Fix-ADLER ORTHO:Continuum-ZIMMER	6		
CoC	1		
CoXP	4		
MoXP	1		
Apta Fix-ADLER ORTHO:Fixa Larus-ADLER ORTHO	241	8	3,32
CoXP	224	8	3,57
MoXP	17		
Apta Fix-ADLER ORTHO:R3-SMITH-NEPHEW	1		
CoXP	1		

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
C2-LIMA:Delta PF-LIMA	29		
CoC	1		
CoXP	24		
MoXP	4		
C2-LIMA:RM Vitamys-MATHYS	1		
CoXP	1		
CBH-MATHYS:RM Vitamys-MATHYS	27		
CoXP	27		
CBH-MATHYS:Selexys PC-MATHYS	3		
CoC	2		
CoXP	1		
Corail-DePuy:Allofit-ZIMMER	6		
CoXP	5		
MoXP	1		
Corail-DePuy:Continuum-ZIMMER	1		
CoXP	1		
Corail-DePuy:Freeliner-EVOLUTIS	2		
CoXP	2		
Corail-DePuy:G7-BIOMET	2		
CoP	2		
Corail-DePuy:Pinnacle Gription-DePuy	194	1	0,52
CoC	13		
CoXP	160	1	0,63
MoXP	21		
Corail-DePuy:Pinnacle Porocoat-DePuy	407	3	0,74
CoC	28		
CoXP	284	3	1,06
MoXP	95		
Corail-DePuy:Saturne II Dual Mobility-AMPLITUDE	3		
CoP	2		
MoP	1		
EcoFit-IMPLANTCAST:Bicon Plus-SMITH-NEPHEW	1		
CoXP	1		
EcoFit-IMPLANTCAST:Continuum-ZIMMER	2		
CoXP	2		
EcoFit-IMPLANTCAST:EcoFit 2M-IMPLANTCAST	6		
CoP	1		
MoP	5		
EcoFit-IMPLANTCAST:EcoFit Epore-IMPLANTCAST	93	5	5,38
CoP	90	5	5,56
MoP	3		

Uncemented THA

Part 2

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
Evok-AMPLITUDE:Allofit-ZIMMER	2		
CoXP	1		
MoXP	1		
Evok-AMPLITUDE:ConeTact-SANATMETAL	1		
CoP	1		
Evok-AMPLITUDE:Freeliner-EVOLUTIS	72		
CoC	2		
CoXP	70		
Evok-AMPLITUDE:G7-BIOMET	5		
CoP	2		
CoXP	3		
Evok-AMPLITUDE:Pinnacle Gription-DePuy	7		
CoC	1		
CoXP	6		
Evok-AMPLITUDE:Pinnacle Porocoat-DePuy	50	1	2,00
CoXP	41		
MoXP	9	1	11,11
Evok-AMPLITUDE:Saturne II Dual Mobility-AMPLITUDE	138	2	1,45
CoP	95	2	2,11
MoP	43		
Exeption-BIOMET:Allofit-ZIMMER	7		
CoXP	4		
MoXP	3		
Exeption-BIOMET:Avantage cementless-BIOMET	63		
CoP	10		
MoP	53		
Exeption-BIOMET:G7-BIOMET	20	1	5,00
CoP	14		
CoXP	5	1	20,00
MoXP	1		
Exeption-BIOMET:Pinnacle Porocoat-DePuy	5		
CoXP	5		

Uncemented THA

Part 3

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
H-MAX S-LIMA:Allofit IT-ZIMMER	2		
CoC	1		
CoXP	1		
H-MAX S-LIMA:Allofit-ZIMMER	6		
CoXP	4		
MoXP	2		
H-MAX S-LIMA:Avantage cementless-BIOMET	2		
MoP	2		
H-MAX S-LIMA:CombiCup PF-LINK	1		
CoC	1		
H-MAX S-LIMA:Continuum-ZIMMER	6		
CoXP	6		
H-MAX S-LIMA:Delta PF-LIMA	567	5	0,88
CoC	60	1	1,67
CoXP	390	2	0,51
MoXP	117	2	1,71
H-MAX S-LIMA:Delta TT-LIMA	12		
CoXP	9		
MoXP	3		
H-MAX S-LIMA:TMARS-ZIMMER	1		
MoP	1		

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
Modular Revision-MATHYS:Avantage cementless-BIOMET	1		
MoP	1		
Modular Revision-MATHYS:Continuum-ZIMMER	1	1	100,00
CoXP	1	1	100,00
Modular Revision-MATHYS:Delta PF-LIMA	4	1	25,00
CoC	1	1	100,00
CoXP	2		
MoXP	1		
Modular Revision-MATHYS:G7-BIOMET	1		
MoP	1		
Modular Revision-MATHYS:Pinnacle Porocoat-DePuy	1	1	100,00
MoXP	1	1	100,00
Modulus-LIMA:Delta TT-LIMA	1		
CoXP	1		
Modulus-LIMA:Pinnacle Porocoat-DePuy	1		
CoXP	1		
MP Reconstruction-LINK:Pinnacle Gription-DePuy	1		
CoXP	1		
Pannon-HA-SANATMETAL:ConeTact-SANATMETAL	11		
CoP	11		
Pannon-HA-SANATMETAL:Pinnacle Gription-DePuy	1	1	100,00
CoXP	1	1	100,00
Quadra-H-MEDACTA:Versafit CC Trio-MEDACTA	13		
CoXP	8		
MoXP	5		
Revision Modular-LIMA:Allofit-ZIMMER	2	1	50,00
CoXP	2	1	50,00

Uncemented THA

Part 4

Uncemented (Stem:Cup)	N°
SL-PLUS-SMITH-NEPHEW:Bicon Plus-SMITH-NEPHEW	1
CoXP	1
SL-PLUS-SMITH-NEPHEW:Continuum-ZIMMER	3
CoXP	3
SL-PLUS-SMITH-NEPHEW:EcoFit Epore-IMPLANTCAST	3
CoP	3
SL-PLUS-SMITH-NEPHEW:Fixa Larus-ADLER ORTHO	7
CoXP	7
SL-PLUS-SMITH-NEPHEW:R3-SMITH-NEPHEW	21
CoXP	21
SLR-PLUS INTEGRATION-PLUS-SMITH-NEPHEW:Continuum-ZIMMER	1
CoXP	1
SP-CL-LINK:Allofit IT-ZIMMER	1
CoC	1
SP-CL-LINK:CombiCup PF-LINK	9
CoC	5
CoXP	4
SP-CL-LINK:Delta PF-LIMA	1
CoXP	1

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
Taperloc Complete Microplasty-BIOMET:Allofit IT-ZIMMER	38		
CoC	14		
CoXP	24		
Taperloc Complete Microplasty-BIOMET:Allofit-ZIMMER	150	2	1,33
CoXP	123		
MoXP	27	2	7,41
Taperloc Complete Microplasty-BIOMET:Continuum-ZIMMER	5		
CoC	1		
CoXP	4		
Taperloc Complete Microplasty-BIOMET:Delta PF-LIMA	34		
CoC	14		
CoXP	18		
MoXP	2		
Taperloc Complete Microplasty-BIOMET:G7-BIOMET	32		
CoC	11		
CoP	13		
CoXP	8		
Taperloc Complete Microplasty-BIOMET:Pinnacle Porocoat-DePuy	5		
CoXP	5		
Taperloc Complete-BIOMET:Allofit IT-ZIMMER	2		
CoXP	2		
Taperloc Complete-BIOMET:Allofit-ZIMMER	75	2	2,67
CoP	35		
CoXP	36	2	5,56
MoP	2		
MoXP	2		
Taperloc Complete-BIOMET:Avantage cementless-BIOMET	1		
MoP	1		
Taperloc Complete-BIOMET:Freeliner-EVOLUTIS	2		
CoXP	2		
Taperloc Complete-BIOMET:G7-BIOMET	19		
CoC	2		
CoP	6		
CoXP	9		
MoXP	2		
Taperloc Complete-BIOMET:Pinnacle Porocoat-DePuy	7		
CoXP	6		
MoXP	1		

Uncemented T

Part 5

Uncemented (Stem:Cup)	N°	N° of revision	% of revision
Tri-Lock-DePuy:G7-BIOMET	1		
CoXP	1		
Tri-Lock-DePuy:Pinnacle Gription-DePuy	10		
CoC	2		
CoXP	7		
MoXP	1		
Tri-Lock-DePuy:Pinnacle Porocoat-DePuy	86	1	1,16
CoC	5		
CoXP	51	1	1,96
MoXP	30		
TwinSys-MATHYS:RM Vitamys-MATHYS	37		
CoXP	37		
Wagner Revision-ZIMMER:Allofit-ZIMMER	1		
MoXP	1		
TOTAL	3439	46	1,34

Cemented THA

Cemented (Stem:Cup)	N°	N°revision	% of revision
EcoFit cem-IMPLANTCAST:Polarcup cem-SMITH-NEPHEW	1		
MoP	1		
Exeption-BIOMET:Avantage cem-BIOMET	1		
MoP	1		
H-MAX C-LIMA:Avantage cem-BIOMET	1		
MoP	1		
H-MAX C-LIMA:Muller cem-LIMA	5		
CoP	5		
Lubinus SPII-LINK:IP Cup, PE-LINK	59	1	1,69
CoP	44	1	2,27
MoP	15		
Lubinus SPII-LINK:IP Cup, XPE-LINK	22		
MoXP	22		
Lubinus SPII-LINK:Muller cem-MERETE MEDICAL	8		
CoP	8		
Lubinus SPII-LINK:Muller Cup-MERETE MEDICAL	3		
CoP	3		
Lubinus SPII-LINK:Muller Durasul Low Profile-ZIMMER	5		
CoXP	3		
MoXP	2		
Lubinus SPII-LINK:Polarcup cem-SMITH-NEPHEW	20		
MoP	20		
Self Locking Cemented-SURGIVAL:IP Cup, PE-LINK	1		
CoP	1		
TOTAL	126	1	0,79

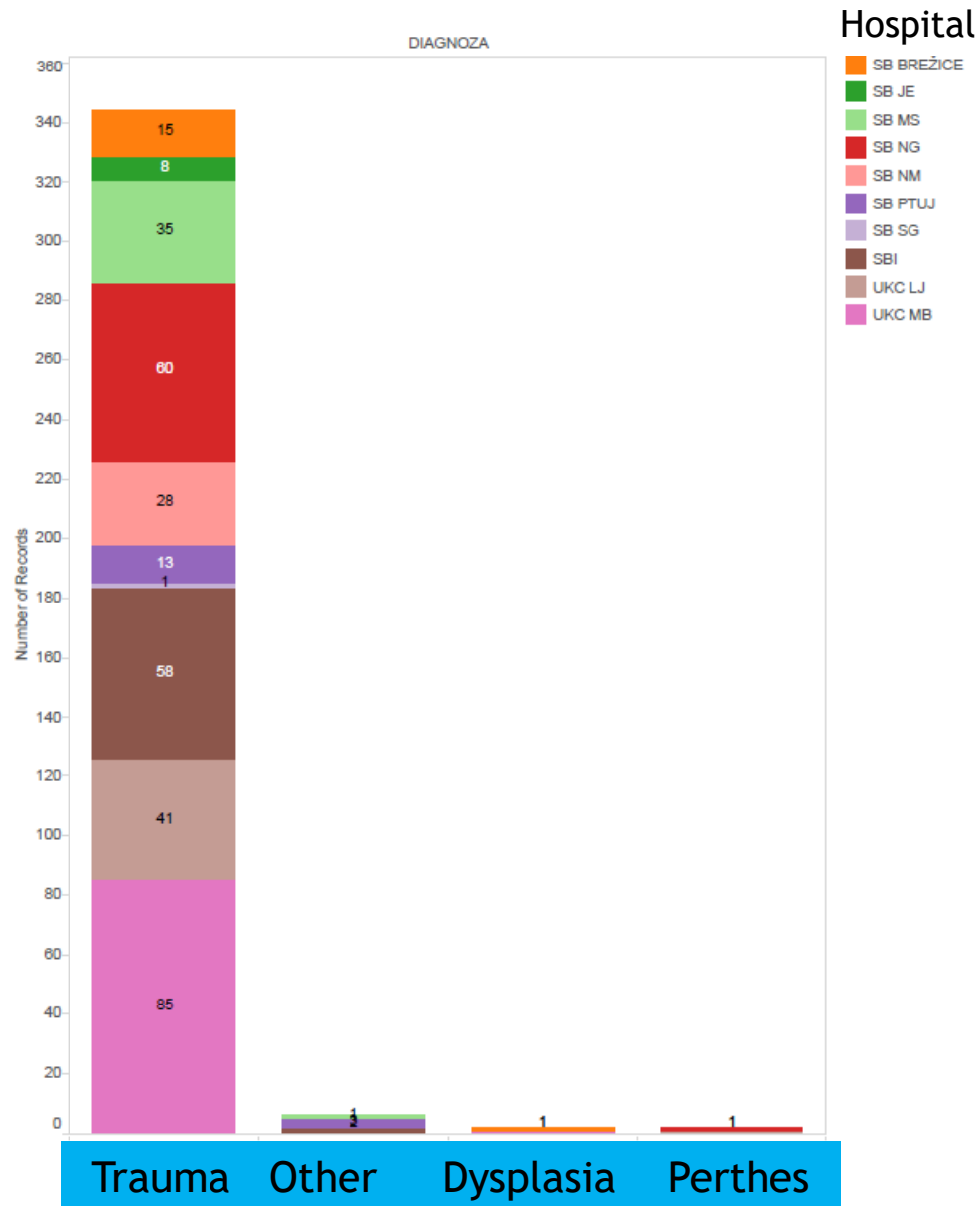
Hybrid THA

Hybrid (Stem:Cup)	N°	N° of revision	% of revision
Exeption-BIOMET:Avantage cementless-BIOMET		8	
MoP		8	
H-MAX C-LIMA:Allofit-ZIMMER		2	
MoXP		2	
H-MAX C-LIMA:Avantage cementless-BIOMET		1	
MoP		1	
H-MAX C-LIMA:Delta PF-LIMA		7	
MoXP		7	
H-MAX C-LIMA:Delta TT-LIMA		1	
CoXP		1	
Lubinus SPII-LINK:Allofit-ZIMMER		21	
CoXP		1	
MoXP		20	
Lubinus SPII-LINK:EcoFit 2M-IMPLANTCAST		1	
MoP		1	
Lubinus SPII-LINK:EcoFit Epore-IMPLANTCAST		4	
MoP		4	
Lubinus SPII-LINK:Fixa Larus-ADLER ORTHO		4	
MoXP		4	
Lubinus SPII-LINK:Pinnacle Porocoat-DePuy		2	
CoXP		2	
Quadra-C-MEDACTA:Versafit CC Trio-MEDACTA		2	
MoXP		2	
TOTAL		53	0

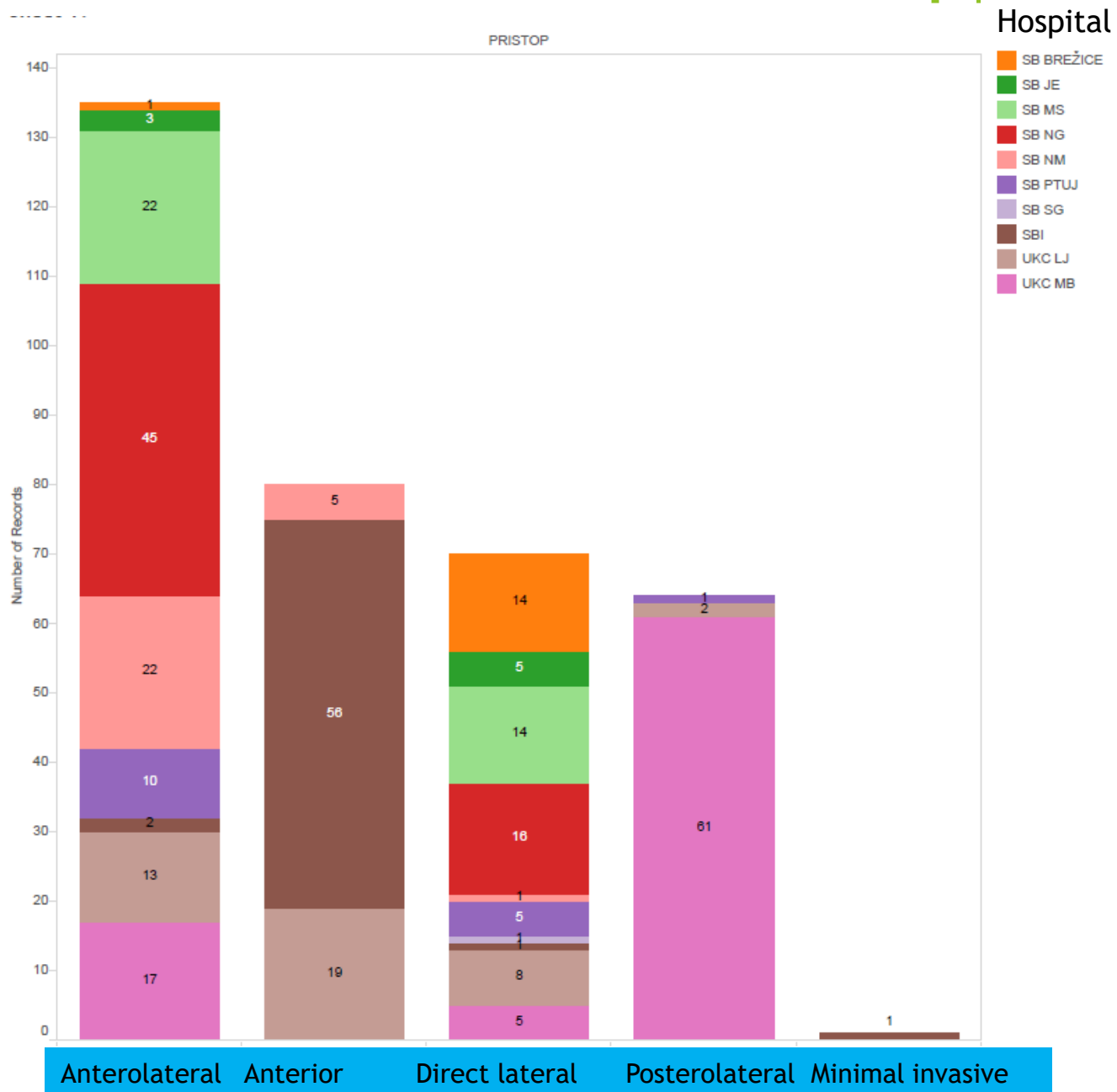
Reverse Hybrid THA

Reverse hybrid (Stem:Cup)	N° N° of revision	% of revision	
Alloclassic-ZIMMER:Muller Durasul Low Profile-ZIMMER	1		
MoXP	1		
Apta Fix-ADLER ORTHO:IP Cup, PE-LINK	7		
CoP	7		
Apta Fix-ADLER ORTHO:IP Cup, XPE-LINK	24	1	4,17
CoXP	22	1	4,55
MoXP	2		
C2-LIMA:PE Cup-LIMA	1		
CoP	1		
Corail-DePuy:IP Cup, PE-LINK	1		
MoP	1		
Corail-DePuy:Muller Durasul Low Profile-ZIMMER	1		
MoXP	1		
EcoFit-IMPLANTCAST:IP Cup, XPE-LINK	2		
CoXP	2		
EcoFit-IMPLANTCAST:Polarcup cem-SMITH-NEPHEW	15	1	6,67
MoP	15	1	6,67
Exeption-BIOMET:Avantage cem-BIOMET	3		
MoP	3		
H-MAX S-LIMA:Delta PF-LIMA	5		
CoXP	4		
MoXP	1		
H-MAX S-LIMA:Muller cem-LIMA	1	1	100,00
CoP	1	1	100,00
H-MAX S-LIMA:Muller Durasul Low Profile-ZIMMER	1		
MoXP	1		
H-MAX S-LIMA:Protruded Cup-LIMA	3		
MoP	3		
SL-PLUS-SMITH-NEPHEW:IP Cup, XPE-LINK	3		
CoXP	3		
SL-PLUS-SMITH-NEPHEW:Polarcup cem-SMITH-NEPHEW	3		
MoP	3		
TOTAL	71	3	4,29

Partial HR by preoperative diagnoses



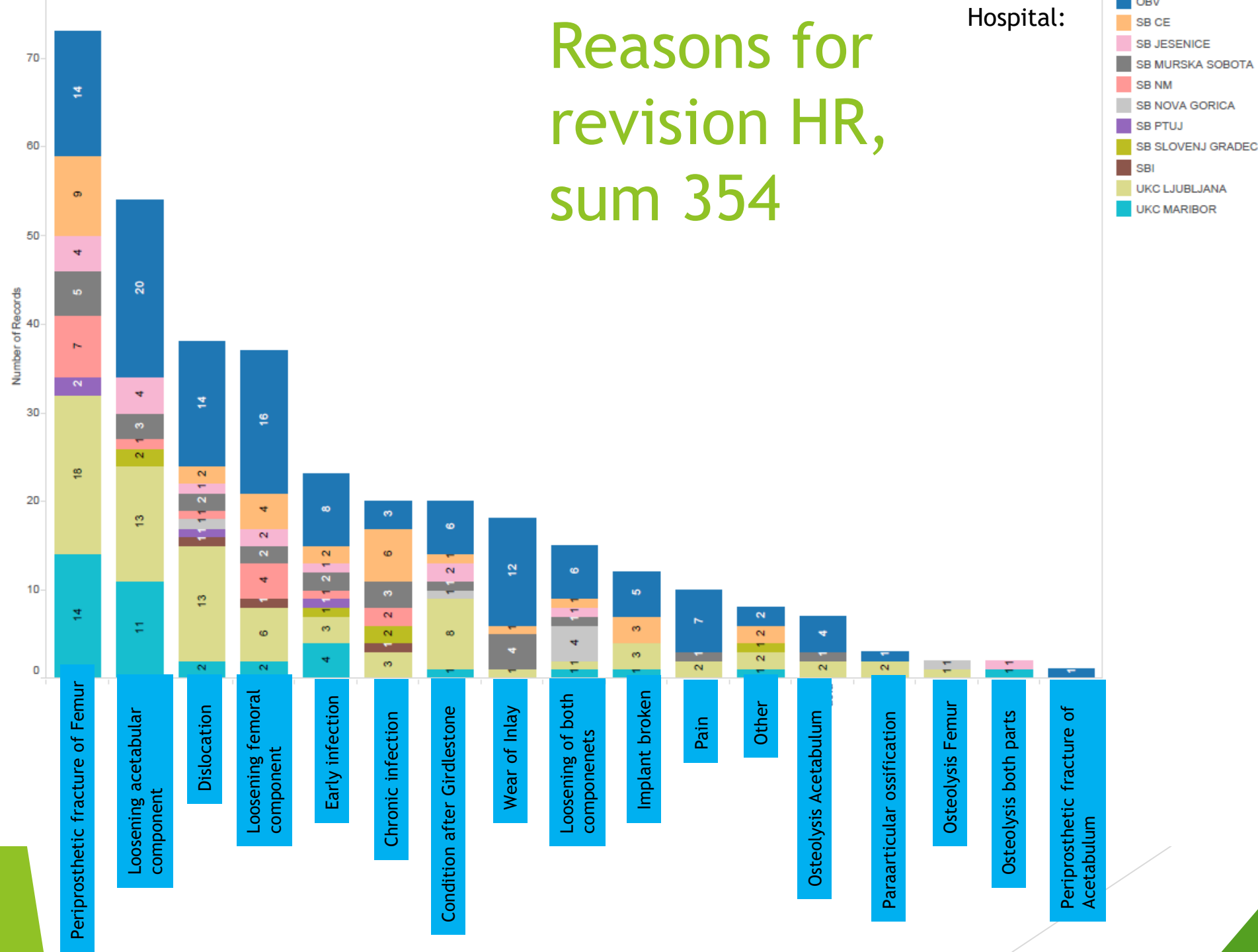
Partial HA - approach



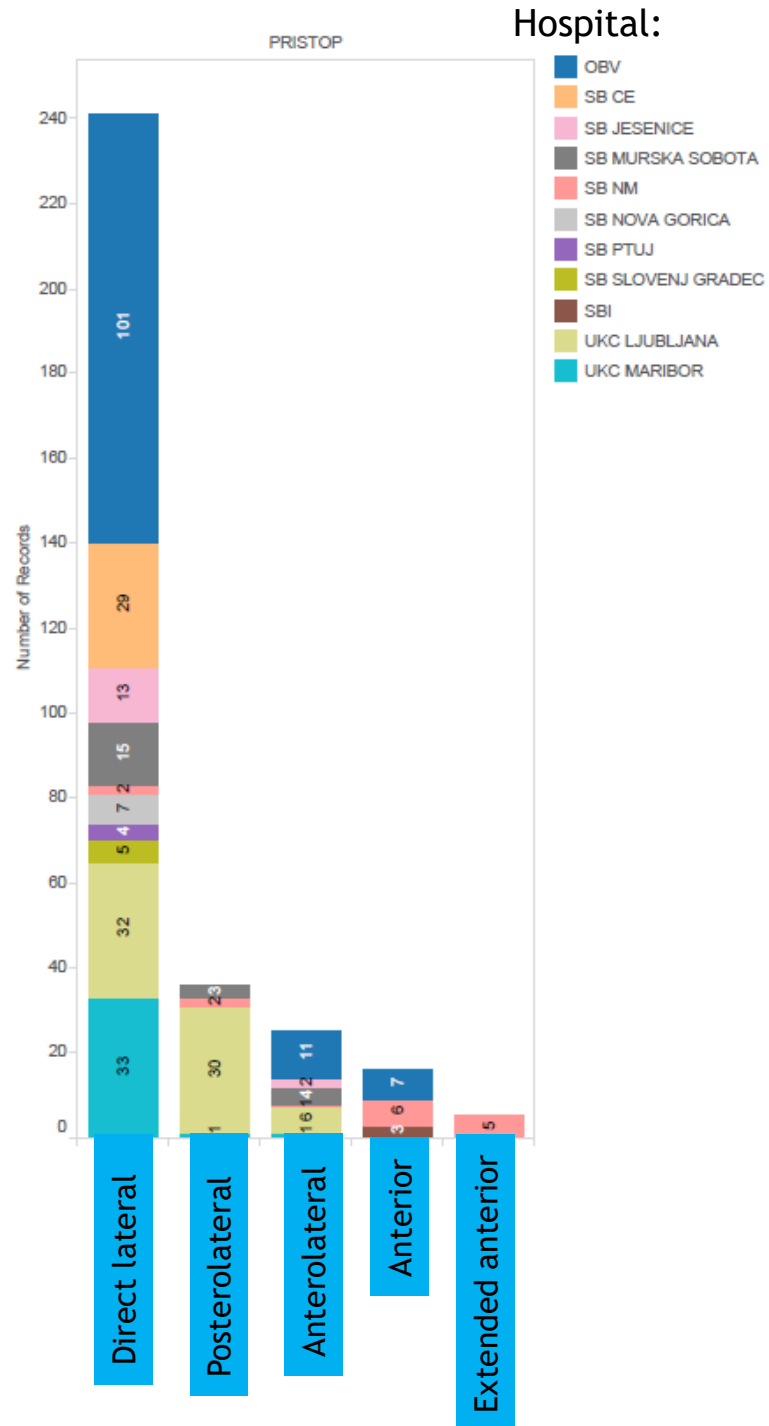
Partial HA

Partial Bipolar	N°	N° of revision	% of revision
Cemented Stem	286	4	1,40
CCA SS-MATHYS	13		
CL Revision-LIMA	2	1	50,00
EcoFit cem-IMPLANTCAST	42	1	2,38
Exeption-BIOMET	24		
H-MAX C-LIMA	51	2	3,92
Lubinus SPII-LINK	5		
Muller-MERETE MEDICAL	35		
Quadra-C-MEDACTA	21		
Self Locking Cemented-SURGIVAL	26		
SL cem-LIMA	66		
Uncemented Stem	92	3	3,23
Alloclassic Revision-ZIMMER	1		
C2-LIMA	4		
CBH-MATHYS	4		
EcoFit-IMPLANTCAST	42	1	2,38
Exeption-BIOMET	4		
H-MAX S-LIMA	37	2	5,41
Wagner Revision-ZIMMER	1		
TOTAL	378	7	1,85

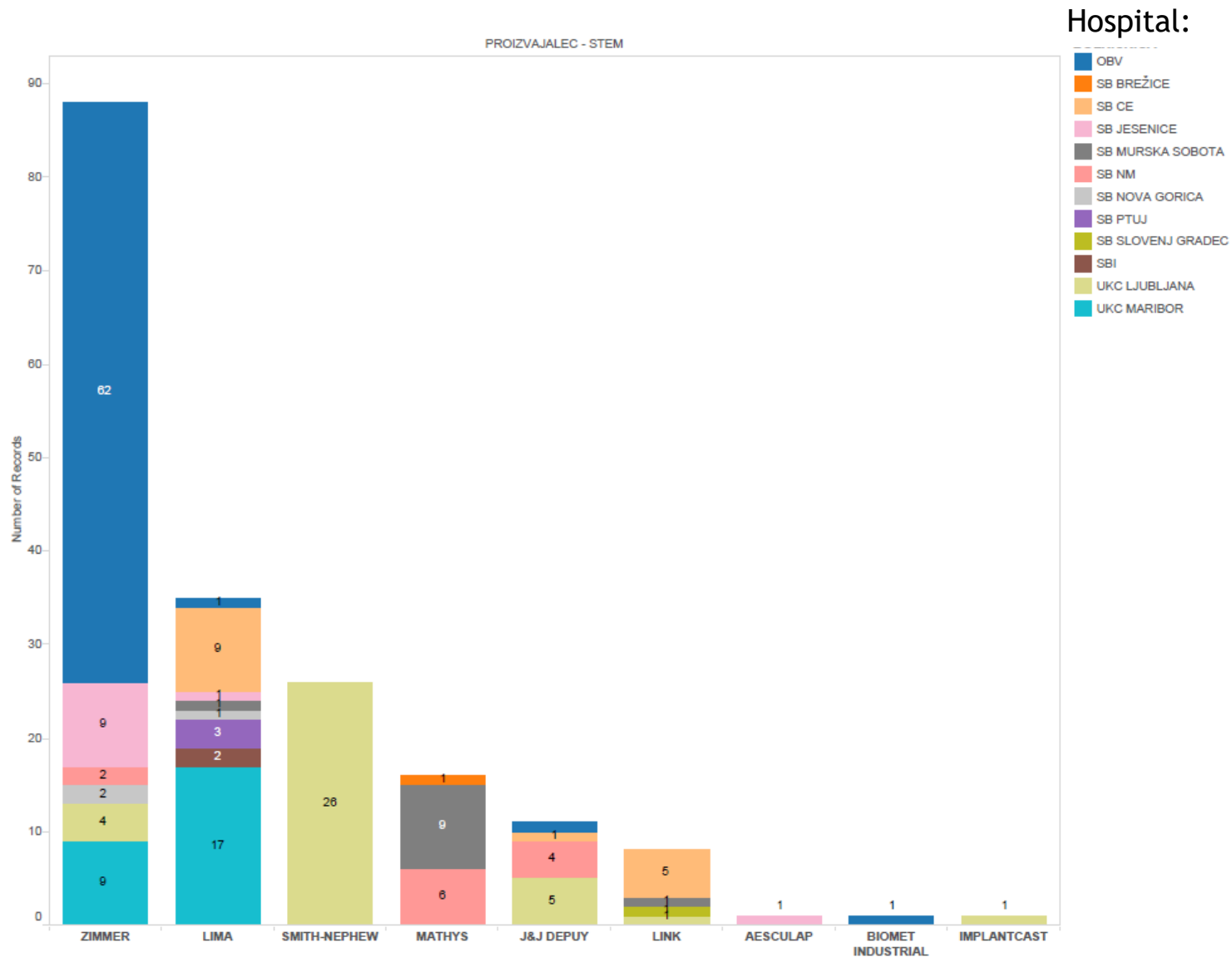
Reasons for revision HR, sum 354



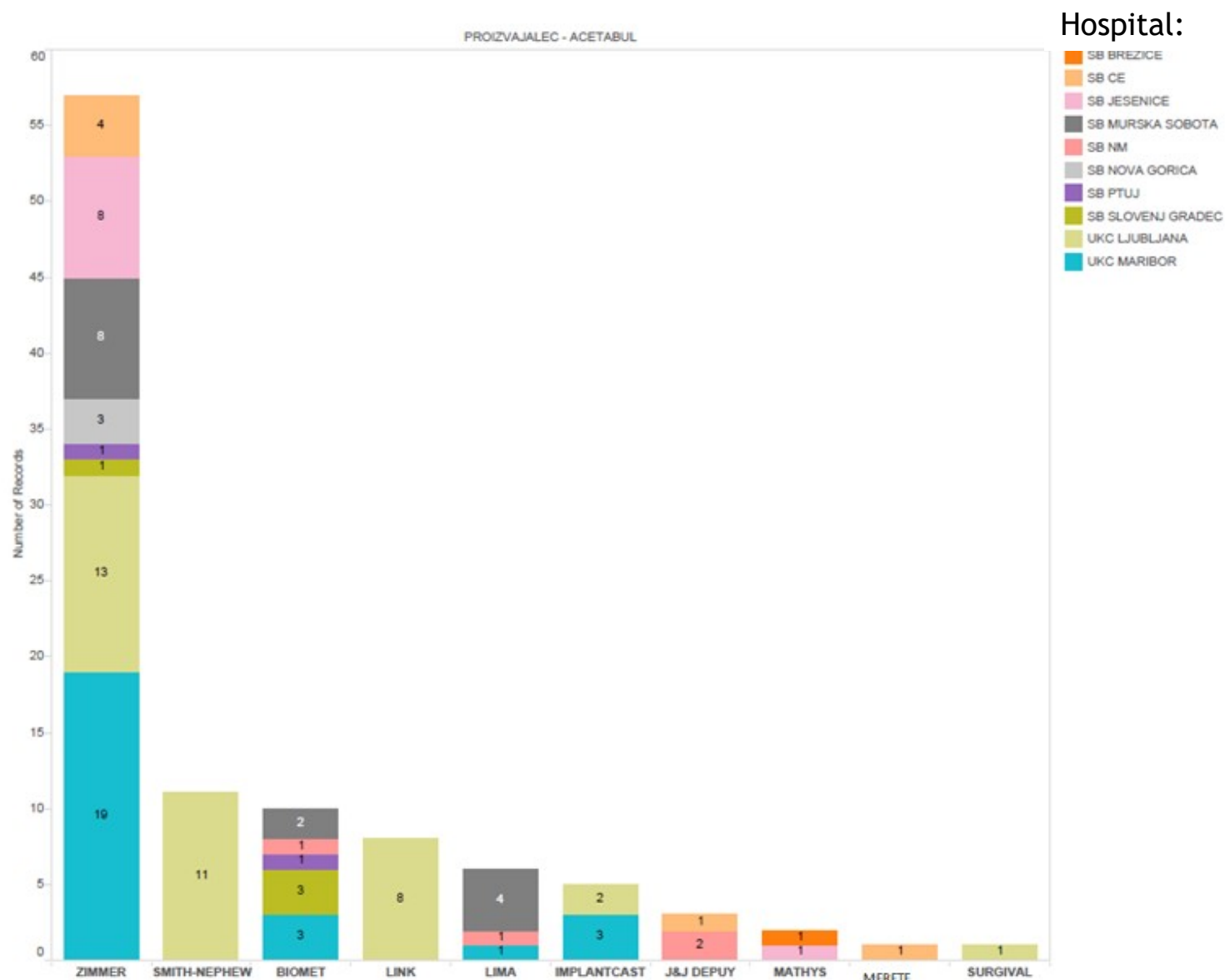
Revision HR - approach



Revision HR - implanted stems by manufacturer

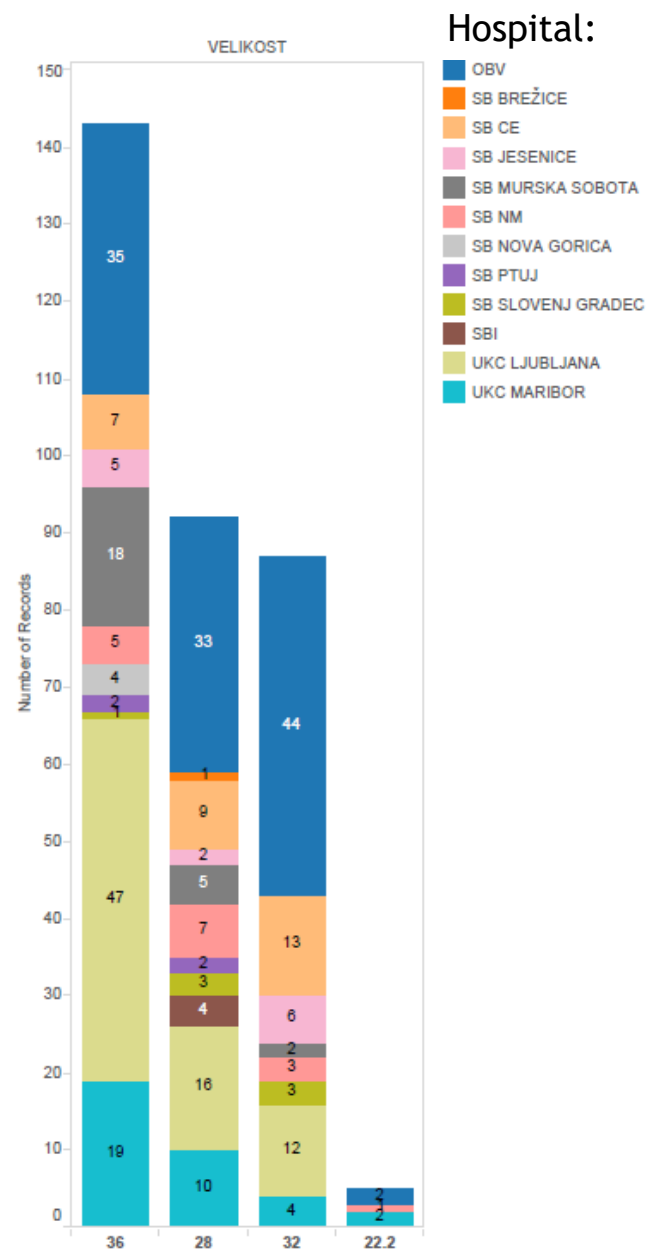


Revision HR - implanted acetabulum by manufacturer



Note: 14
acetabualr
components
were
combined with
acetabular
rings

Revision HR - implanted femoral heads by size



Thank you!

<https://www.ob-valdolta.si/sl/international>