



# 1st RES (The National Arthroplasty Registry of Slovenia) Annual report

Data on Hip and Knee Replacement from 2019

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

Authors: dr. Vesna Levašič, PhD, MD, Denia Savarin, dr. Simon Kovač, PhD, MD

The National Arthroplasty Registry of Slovenia- RES

Registry Holder: Valdoltra Orthopaedic Hospital

May 2020



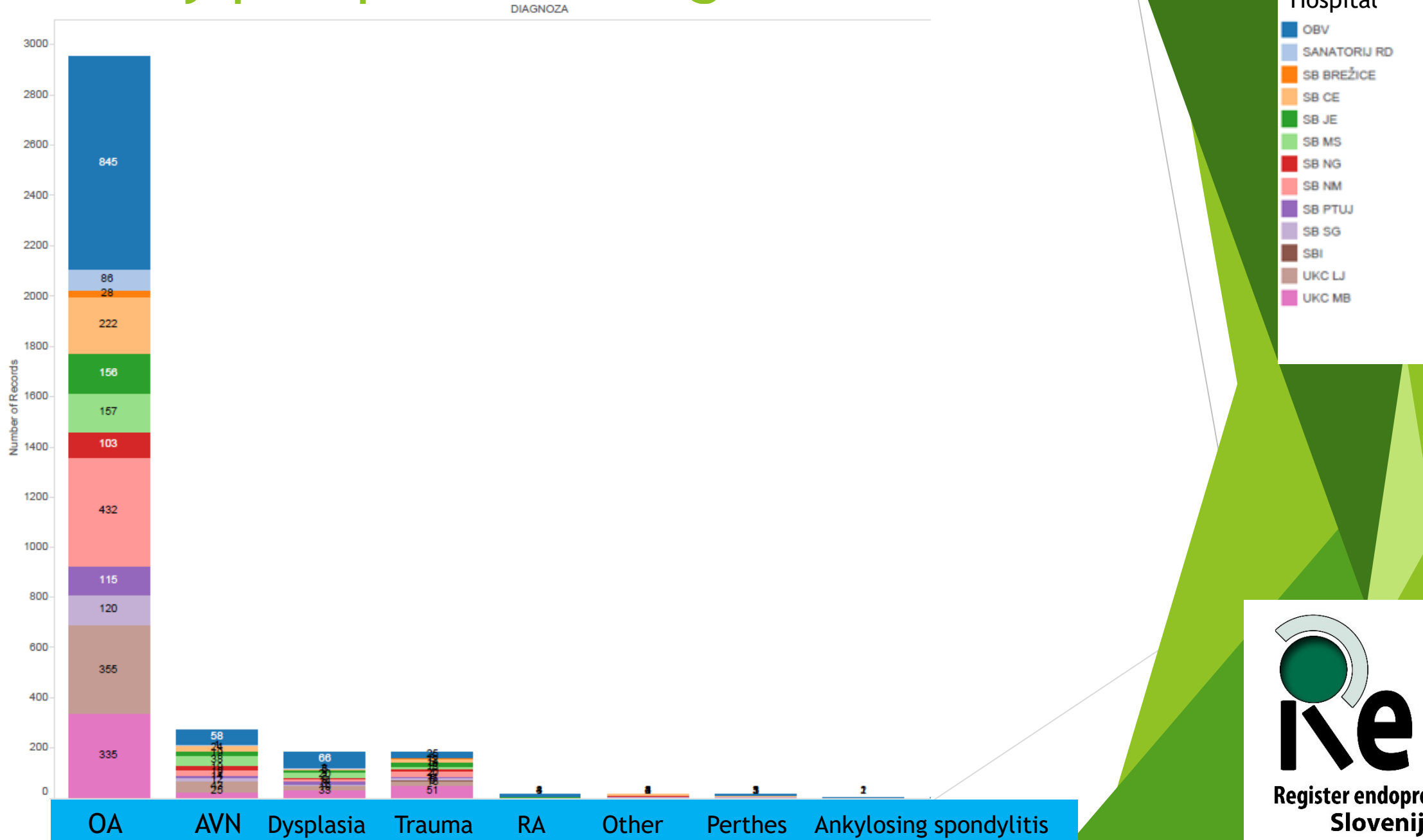
# Registry compliance 90,6 % of all Hip Replacement in Slovenia

## Demographic data:

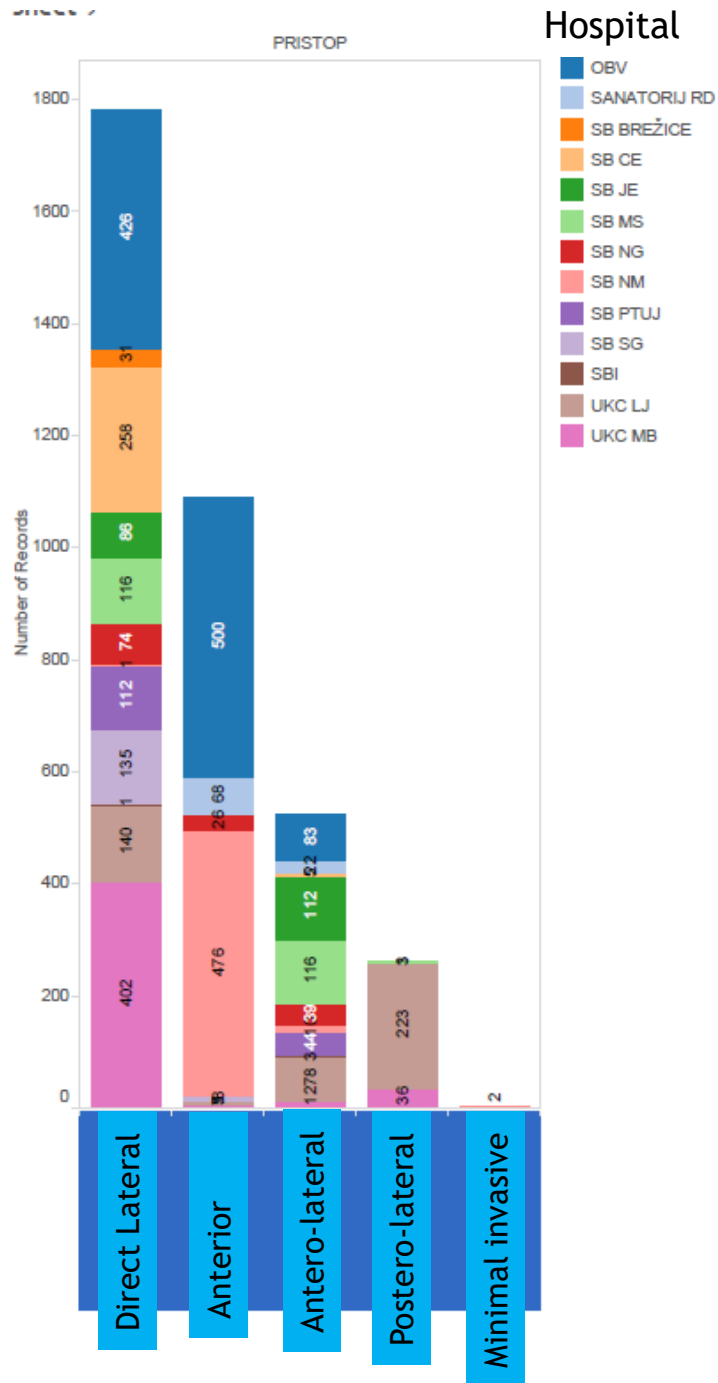
Surgery 2019	Average Age( $\pm$ SD)	Men (%)	Women (%)	Right (%)	Left (%)
Primary THR	68 ( $\pm$ 10)	45	55	54	46
Primary Partial HR	83 ( $\pm$ 8)	32,5	67,5	51	49
Revision HR	71,83 ( $\pm$ 11)	48	52	50	50



# THR by preoperative diagnoses



# THA approach



# Uncemented THA Part 1

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

Uncemented (Stem:Cup)

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

# Uncemented THA

## Part 2

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

# Uncemented THA Part 3

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

**Uncemented (Stem:Cup)**

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

# Uncemented THA

## Part 4

**Uncemented (Stem:Cup)**

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

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

# Uncemented T

## Part 5

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

# Cemented THA

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

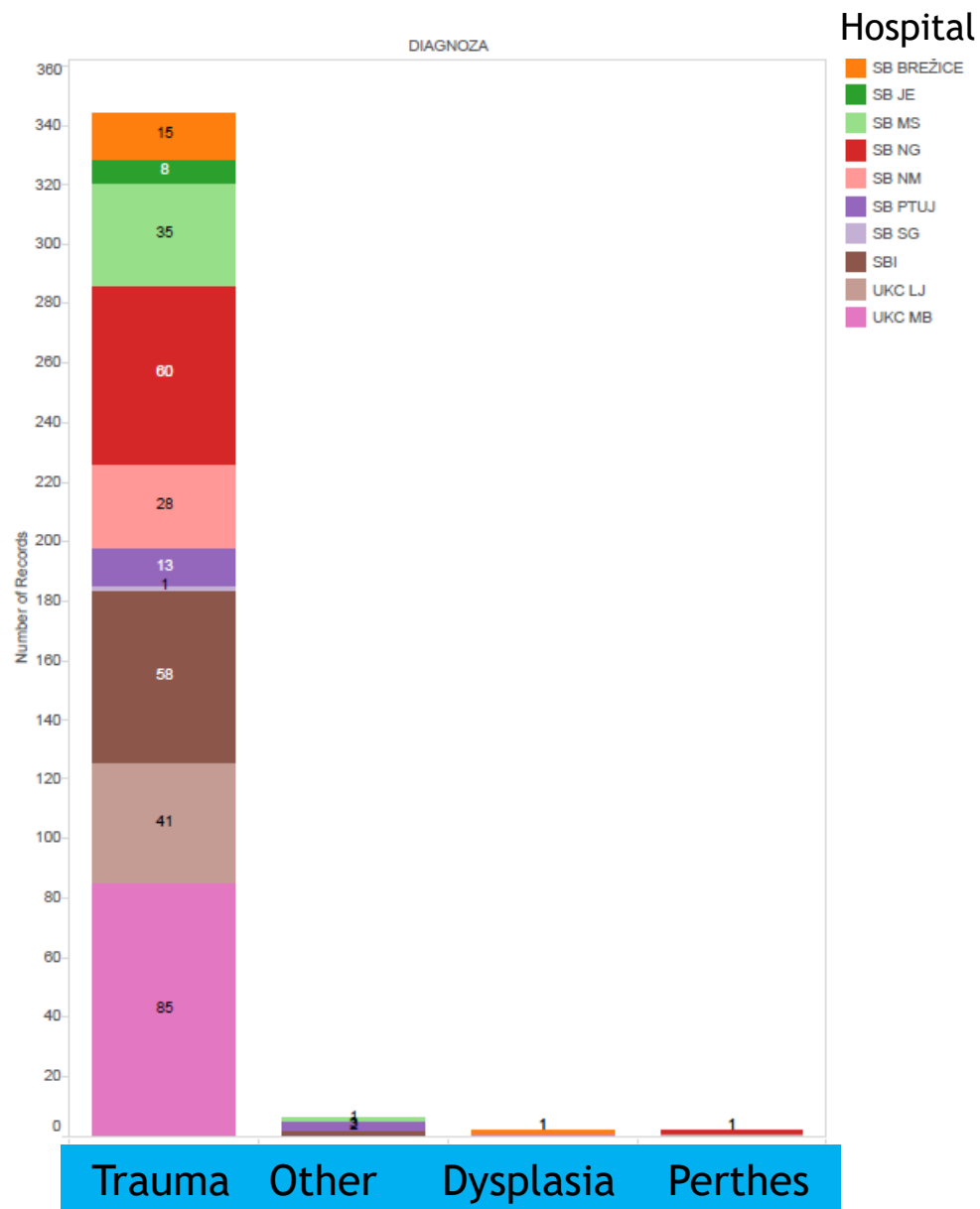
# Hybrid THA

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

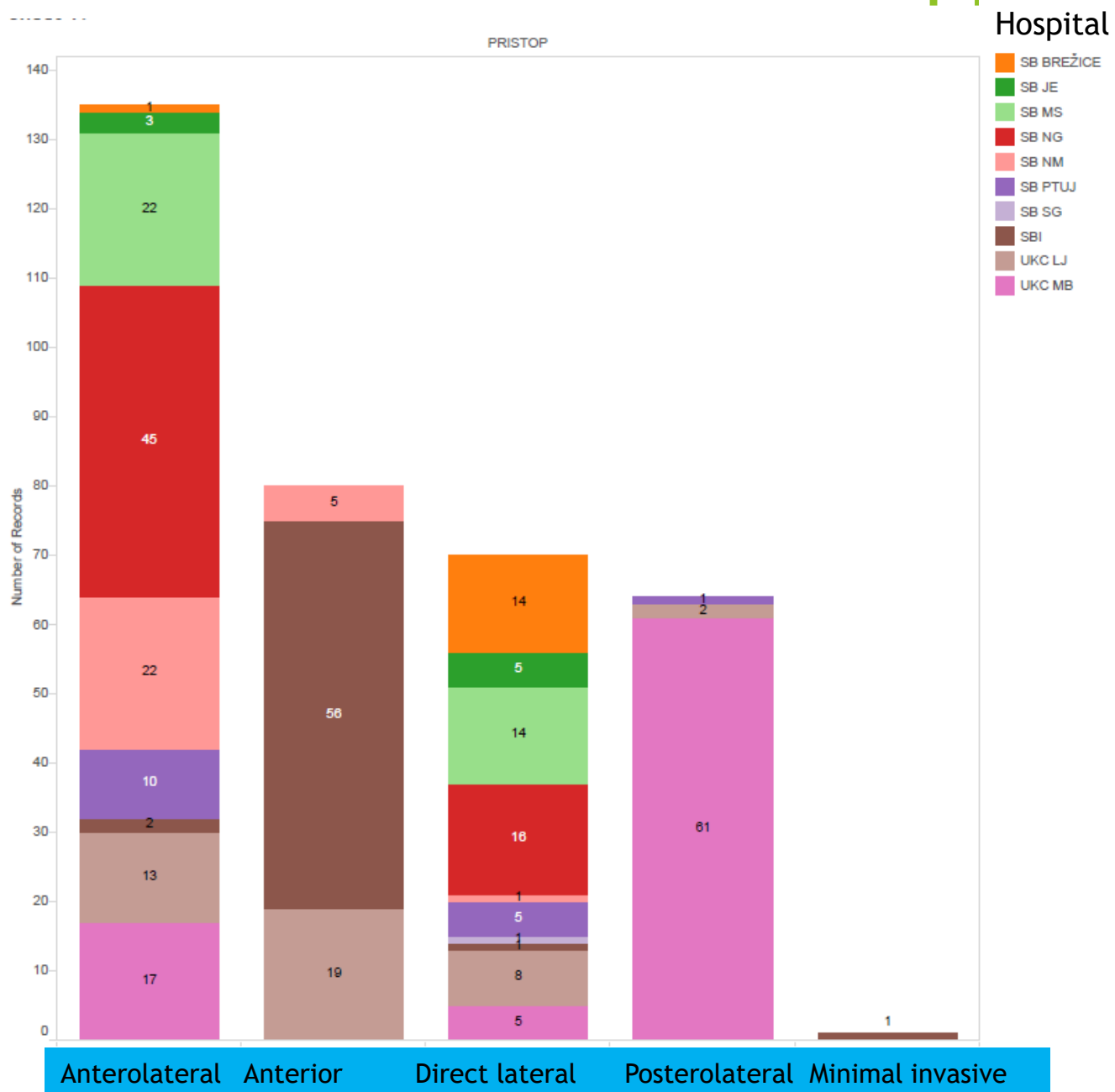
# Reverse Hybrid THA

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

# Partial HR by preoperative diagnoses



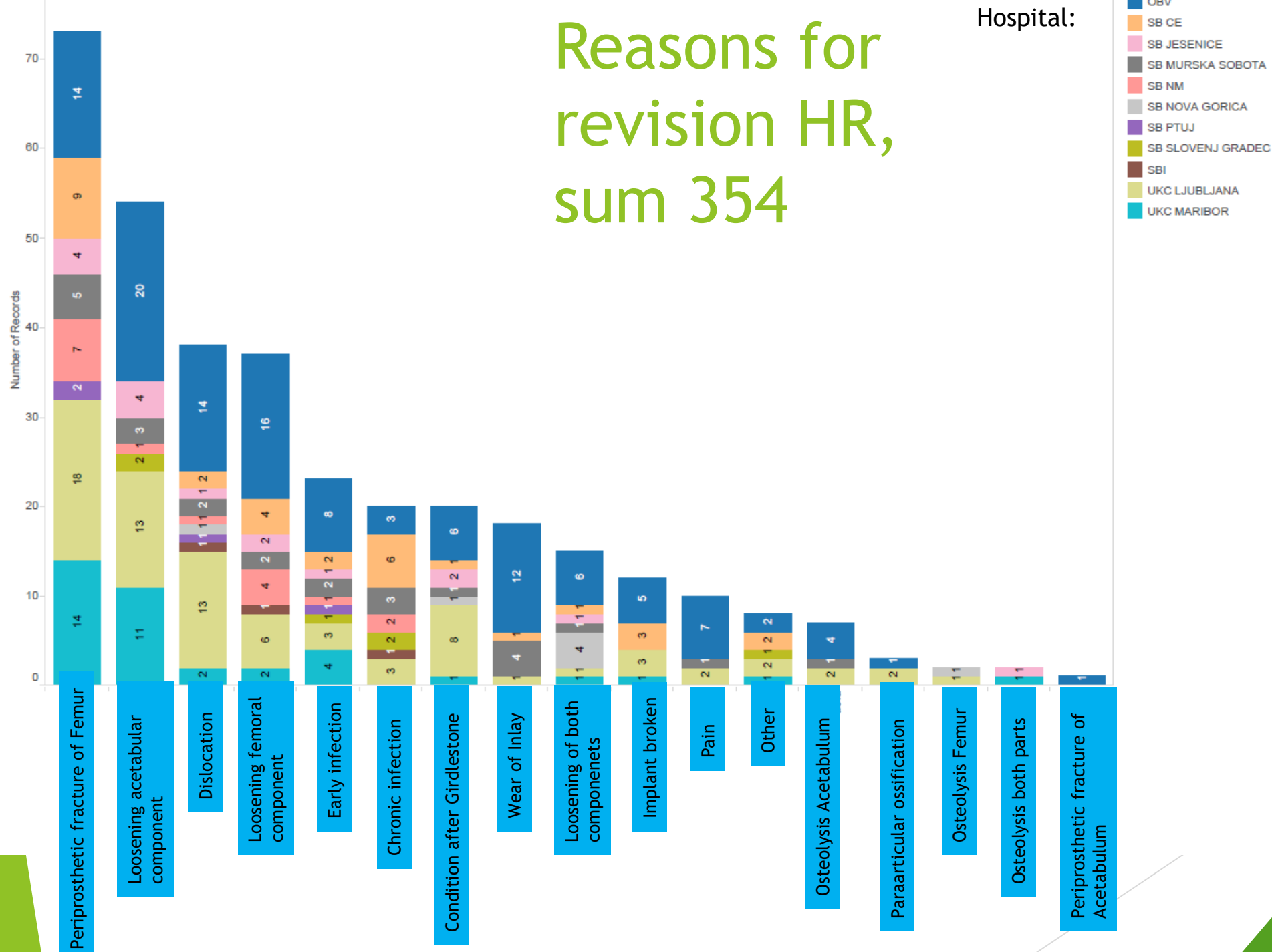
# Partial HA - approach



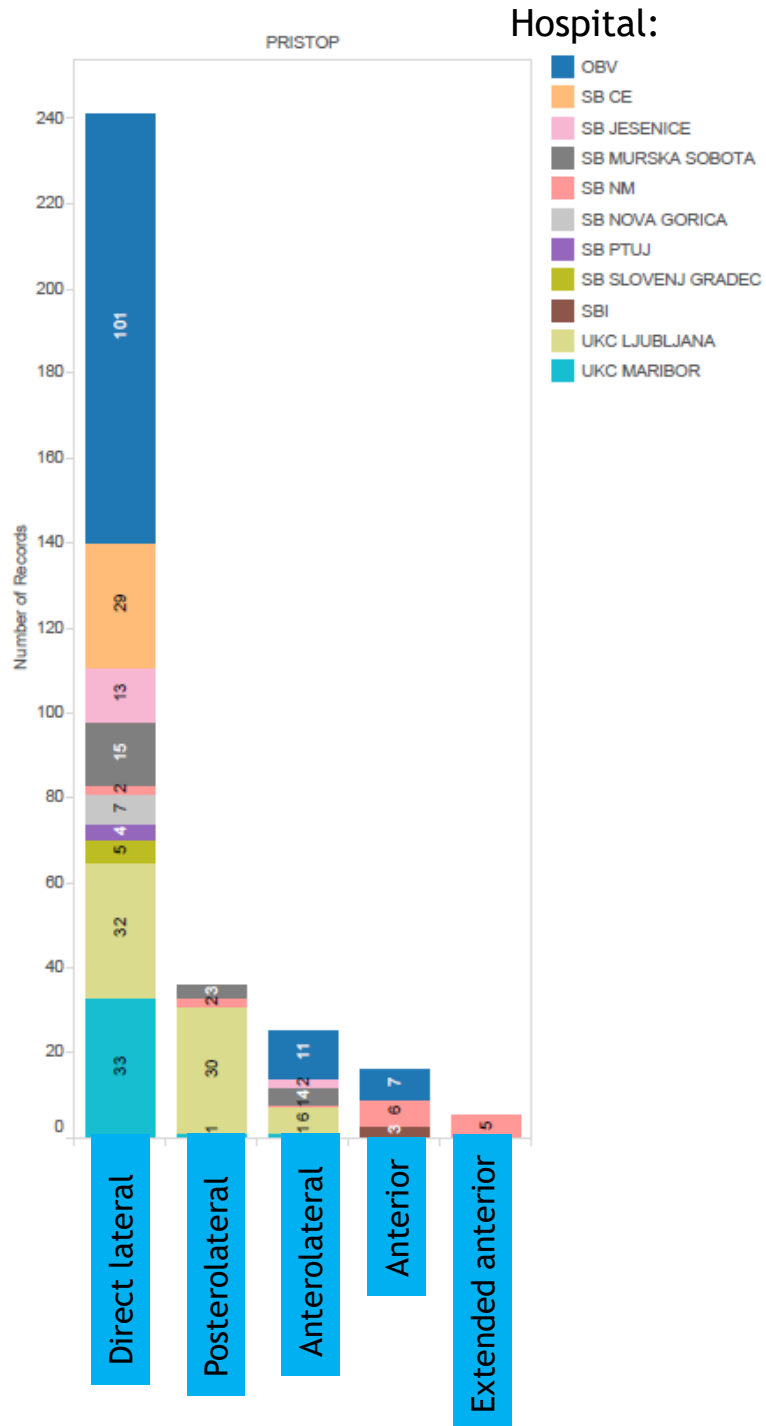
# Partial HA

Partial Bipolar	N°	N° of revision	% of revision
<b>Cemented Stem</b>	<b>286</b>	<b>4</b>	<b>1,40</b>
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		
<b>Uncemented Stem</b>	<b>92</b>	<b>3</b>	<b>3,23</b>
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		
<b>TOTAL</b>	<b>378</b>	<b>7</b>	<b>1,85</b>

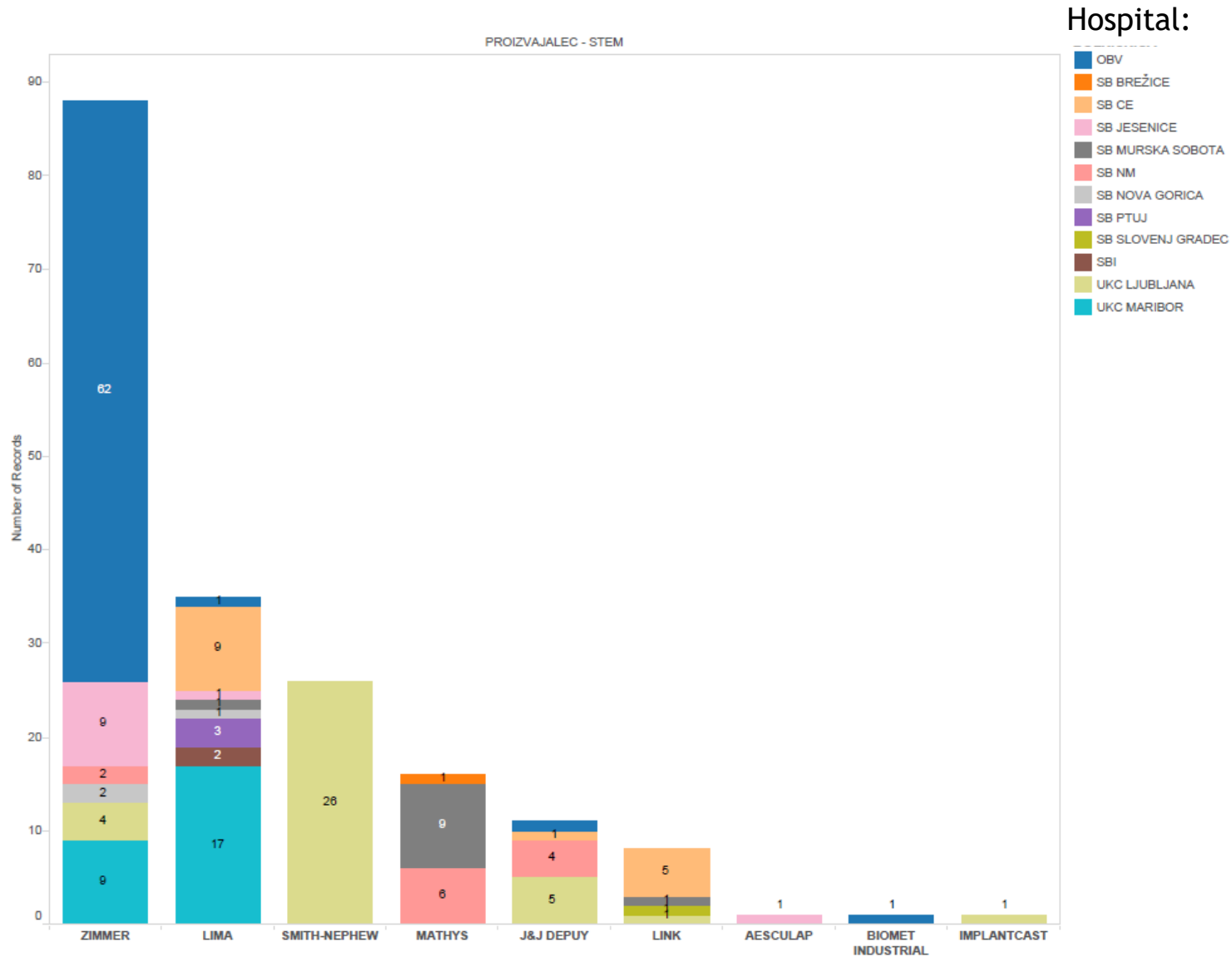
# Reasons for revision HR, sum 354



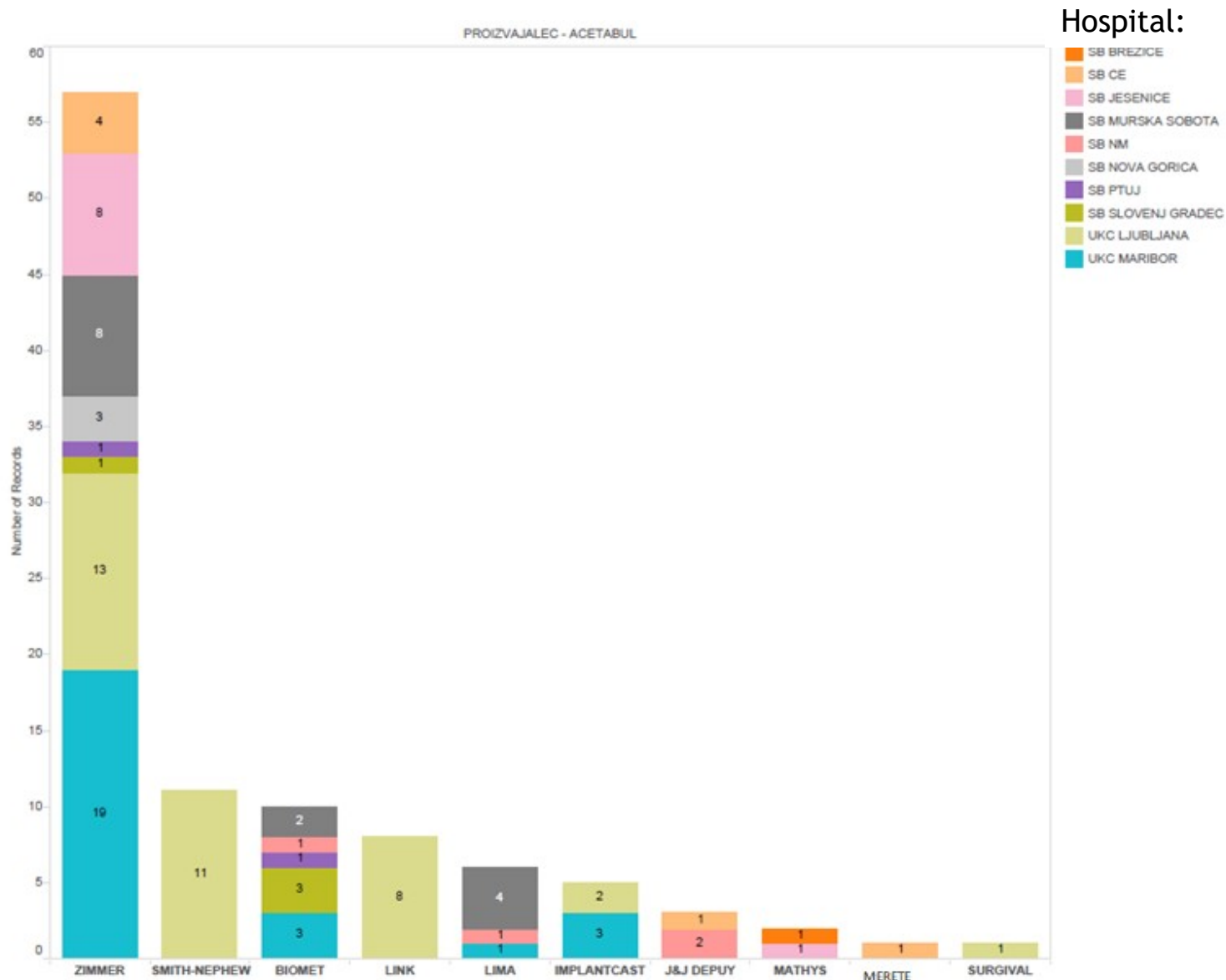
# Revision HR - approach



# Revision HR - implanted stems by manufacturer

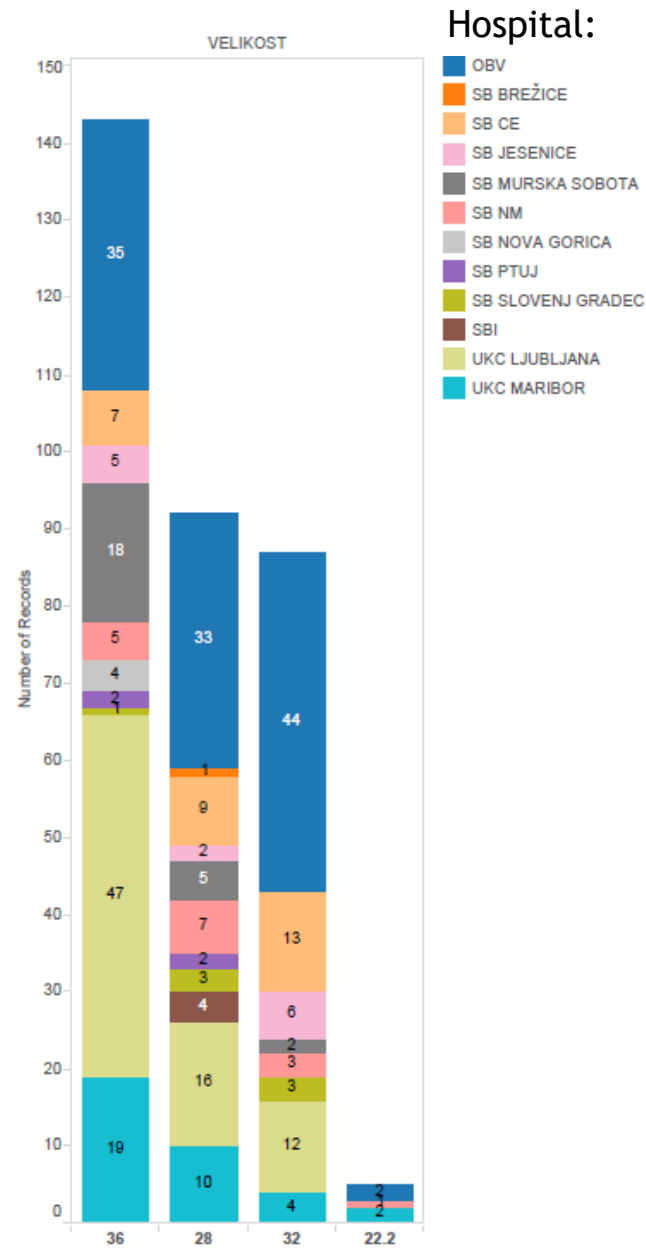


# Revision HR - implanted acetabulum by manufacturer



Note: 14 acetabular components were combined with acetabular rings

# Revision HR - implanted femoral heads by size



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

Authors: dr. Vesna Levašič, PhD, MD, Denia Savarin, dr. Simon Kovač, PhD, MD

The National Arthroplasty Registry of Slovenia- RES

Registry Holder: Valdoltra Orthopaedic Hospital

November 2020



# Registry completeness: 100 % of Primary and Revision Knee Replacement in Slovenia

Year	Primary Total KR	Primary Partial KR	Revision KR	Total
2019	2842	358	213	3413

## Demographic data:

Surgery 2019	Average Age( $\pm$ SD)	Men (%)	Women (%)	Right (%)	Left (%)
Primary TKR	70 ( $\pm$ 8)	35	65	54	46
Primary Partial KR	67 ( $\pm$ 9)	41	59	46	54
Revision KR	69 ( $\pm$ 10)	39	61	49	51

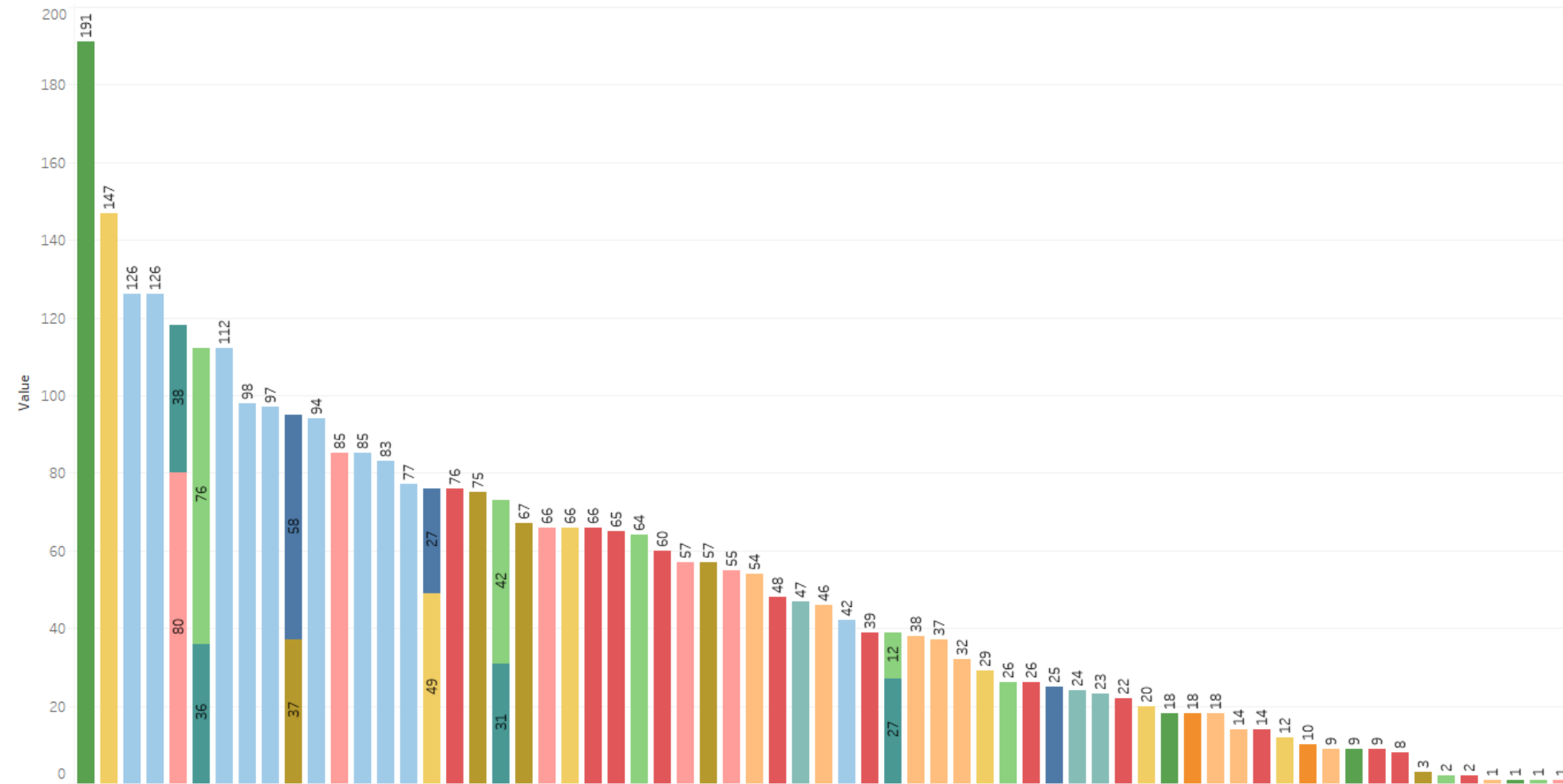
# N° of operations per surgeon (primary and revision)

Sheet 1

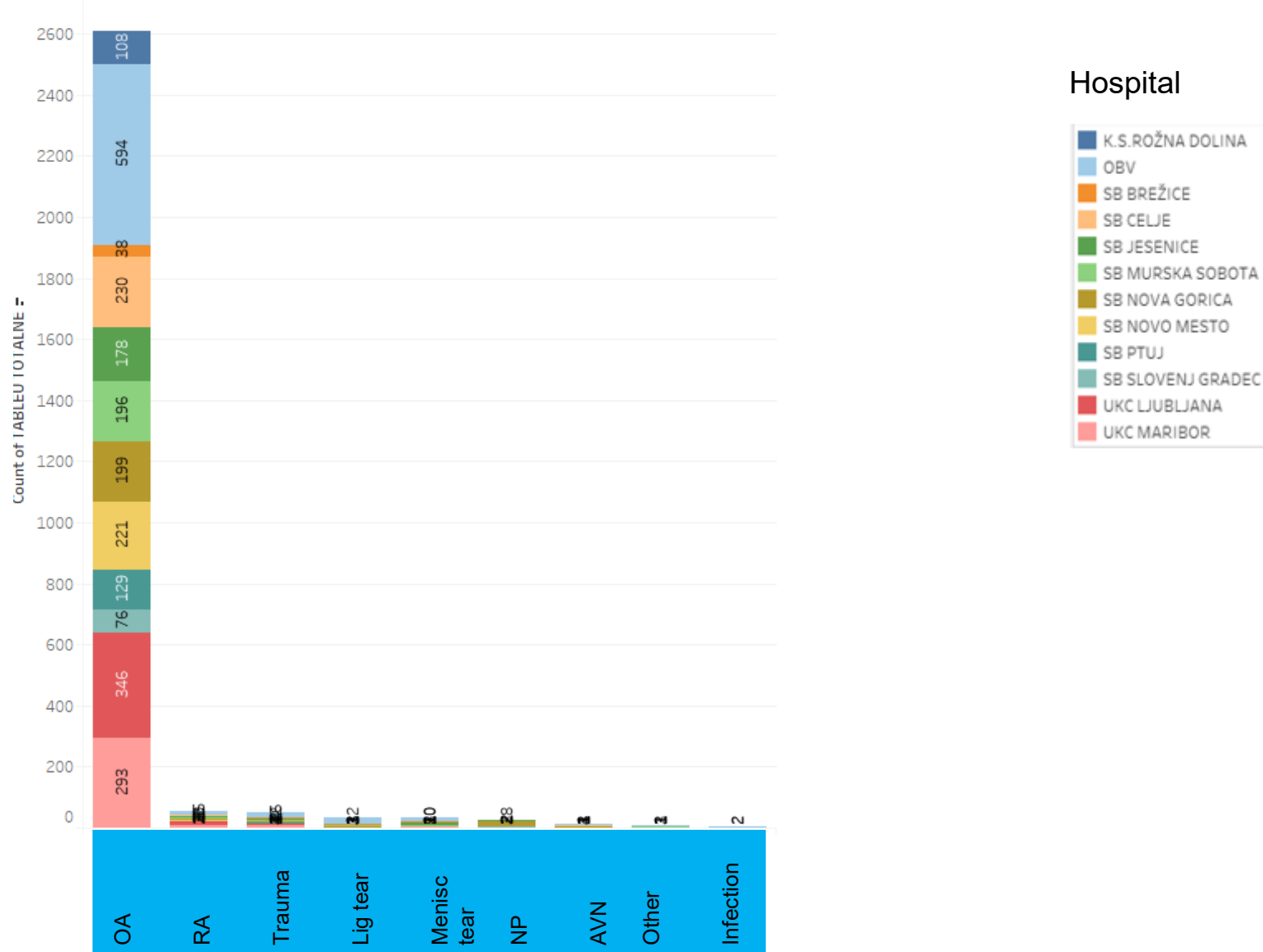
OPERATER-št

## Hospital

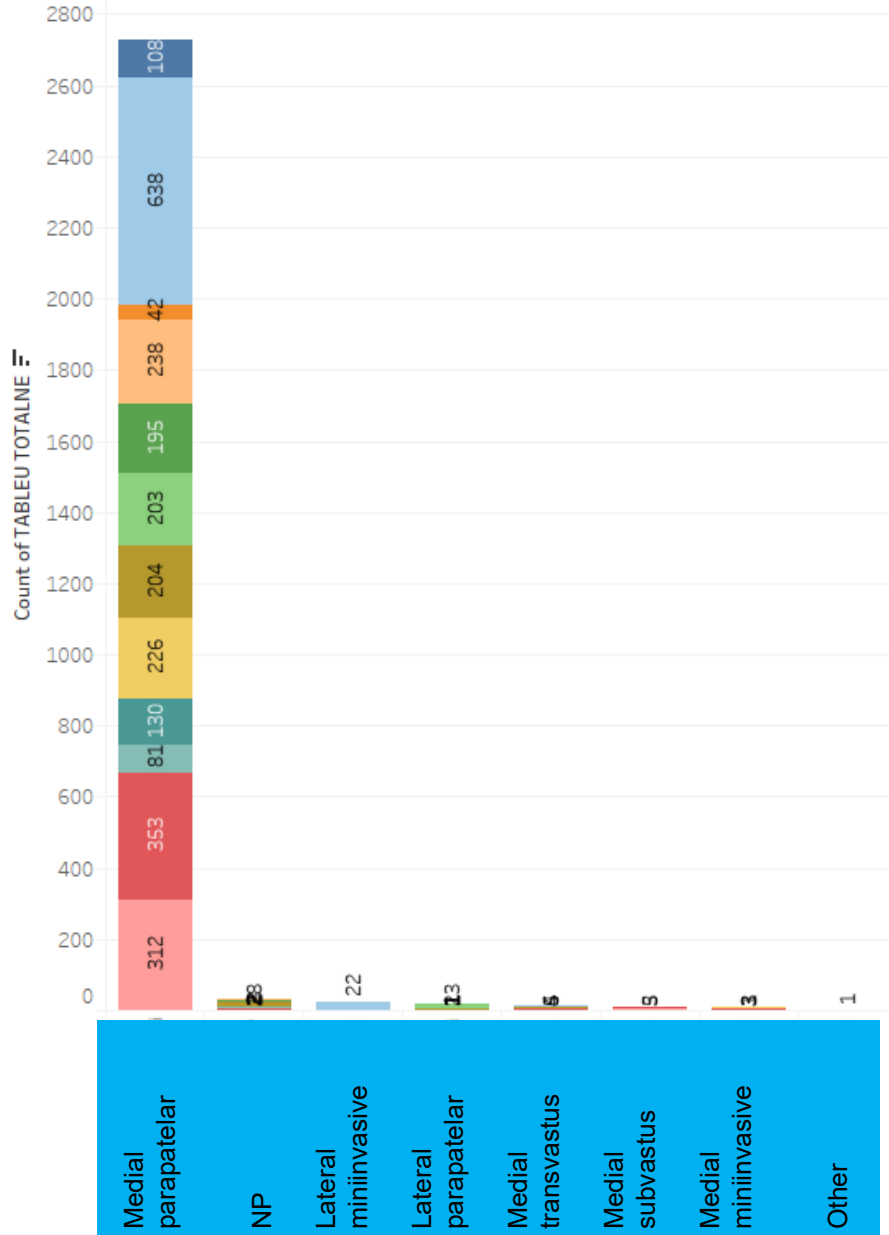
- K.S.ROŽNA DOLINA
- OBV
- SB BREŽICE
- SB CELJE
- SB JESENICE
- SB MURSKA SOBOTA
- SB NOVA GORICA
- SB NOVO MESTO
- SB PTUJ
- SB SLOVENJ GRADEC
- UKC LJUBLJANA
- UKC MARIBOR



# TKR by preoperative diagnoses



# TKA approach

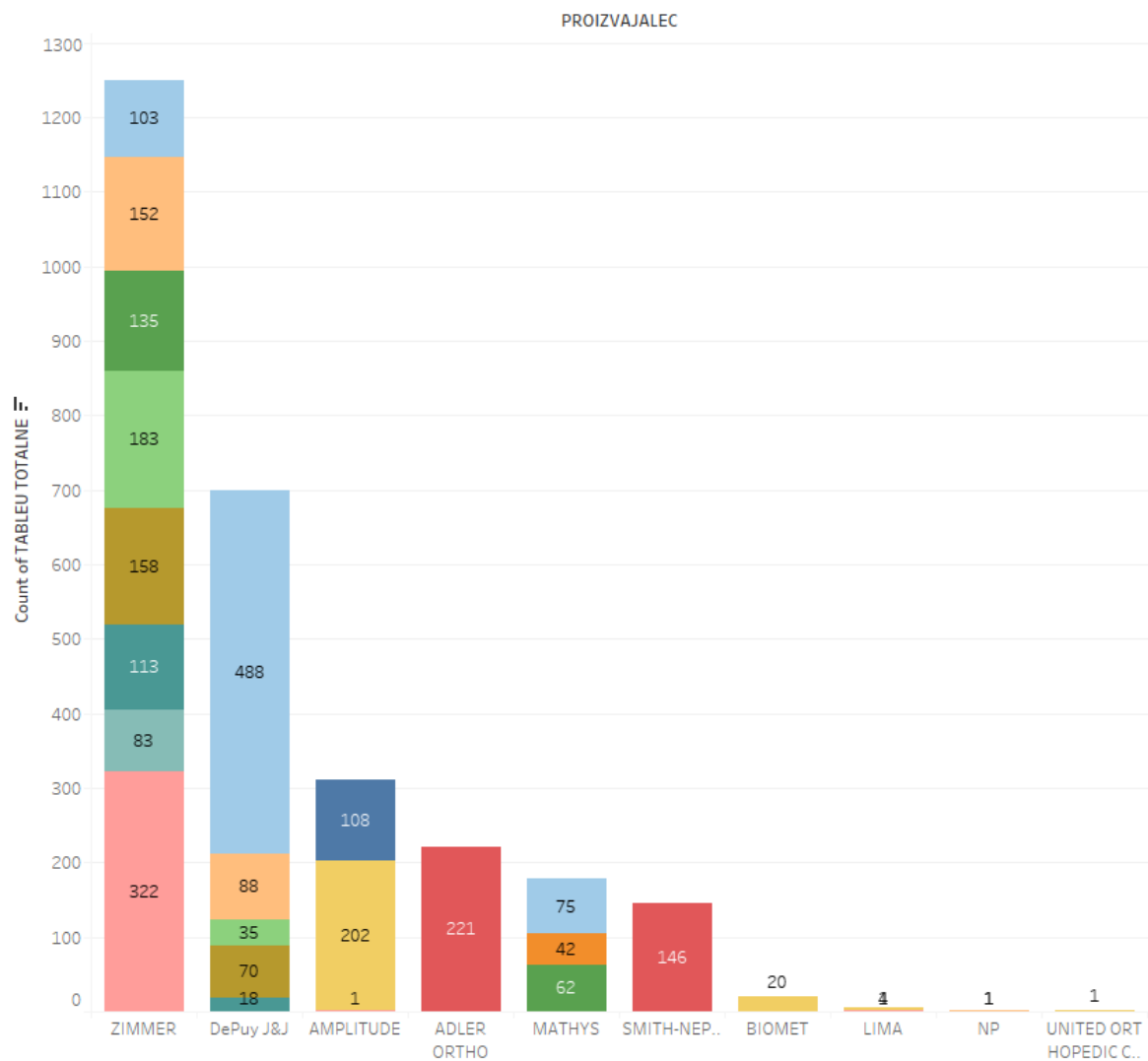


## Hospital



# TKA by manufacturers

Sheet 2



- BOLNIŠNICA
- K.S. ROŽNA DOLINA
  - OBV
  - SB BREŽICE
  - SB CELJE
  - SB JESENICE
  - SB MURSKA SOBOTA
  - SB NOVA GORICA
  - SB NOVO MESTO
  - SB PTUJ
  - SB SLOVENJ GRADEC
  - UKC LJUBLJANA
  - UKC MARIBOR

Primary 2019 revision	N°	N° of revision	% of
<b>ADLER ORTHO</b>	221	3	1,4
⊖ Genus PS-Genus FB	4	1	25,0
cemented	4	1	25,0
⊖ Genus-Genus FB	217	2	0,9
cemented	217	2	0,9
<b>AMPLITUDE</b>	312	3	1,0
⊖ Score PS-Score MB	310	3	1,0
cemented	10		
cementless	297	3	1,0
reverse hybrid	3		
⊖ Score Revision-Score MB	2		
cemented	1		
reverse hybrid	1		
<b>BIOMET</b>	21		
⊖ Vanguard 360-Biomet 360	1		
cemented	1		
⊖ Vanguard CR-Vanguard	11		
cemented	11		
⊖ Vanguard PS-Vanguard	9		
cemented	9		
<b>DePuy J&amp;J</b>	699	5	0,7
⊖ Attune CR-Attune FB	73		
cemented	73		
⊖ Attune CR-Attune MB	2		
cemented	2		
⊖ Attune PS-Attune FB	29		
cemented	29		
⊖ Attune PS-Attune MB	3		
cemented	3		
⊖ Sigma CR-Sigma	411	3	0,7
cemented	411	3	0,7
⊖ Sigma CR-Sigma	40	1	2,5
cemented	40	1	2,5
⊖ Sigma CR-Sigma MBT	17		
cemented	17		
⊖ Sigma PS-Sigma	121	1	0,8
cemented	121	1	0,8
⊖ Sigma PS-Sigma MBT	1		
cemented	1		
⊖ Sigma TC3-Sigma MBT	1		
cemented	1		
⊖ S-ROM RH-Sigma MBT	1		

# Total knee replacement Part 1

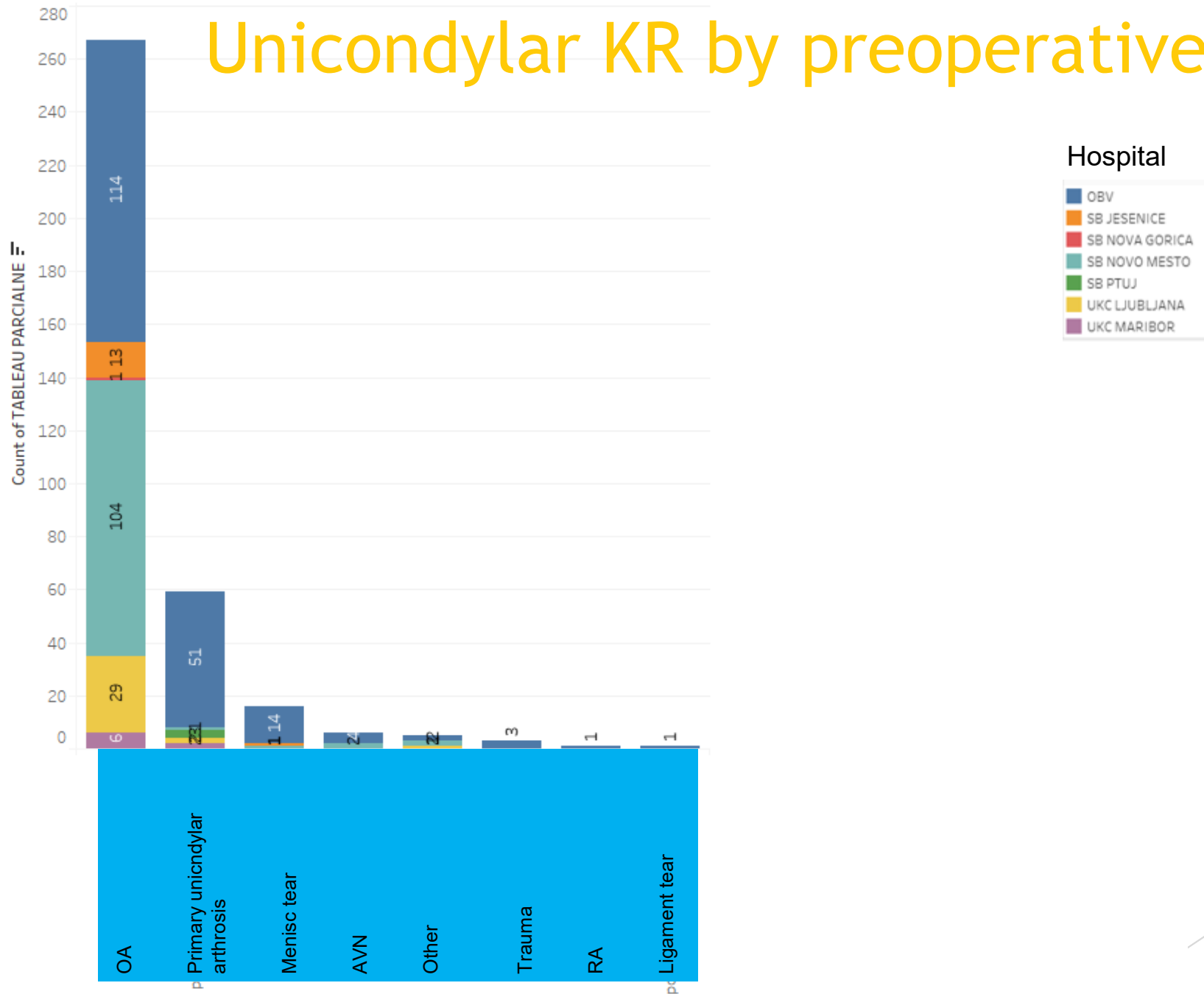
Primary 2019	N°	N° of revision	% of revision
<b>LIMA</b>	<b>5</b>		
<b>Physica CR-Physica FB</b>	<b>1</b>		
cemented	1		
<b>Physica KR-Physica FB</b>	<b>3</b>		
cemented	3		
<b>Physica PS-Physica FB</b>	<b>1</b>		
cemented	1		
<b>MATHYS</b>	<b>180</b>		
<b>BalanSys PS-BalanSys</b>	<b>180</b>		
cemented	180		
<b>SMITH-NEPHEW</b>	<b>145</b>	<b>2</b>	<b>1,4</b>
<b>Genesis II CR Oxinium-Genesis II</b>	<b>8</b>		
cemented	8		
<b>Genesis II CR-Genesis II</b>	<b>79</b>	<b>1</b>	<b>1,3</b>
cemented	79	1	1,3
<b>Genesis II PS-Genesis II</b>	<b>50</b>	<b>1</b>	<b>2,0</b>
cemented	50	1	2,0
<b>RT-Plus RH-RT-Plus RH</b>	<b>8</b>		
cemented	8		
<b>UNITED ORTHOPEDIC CORPORATION</b>	<b>1</b>		
<b>U2 PS-U2</b>	<b>1</b>		
cemented	1		

# Total knee replacement Part 2

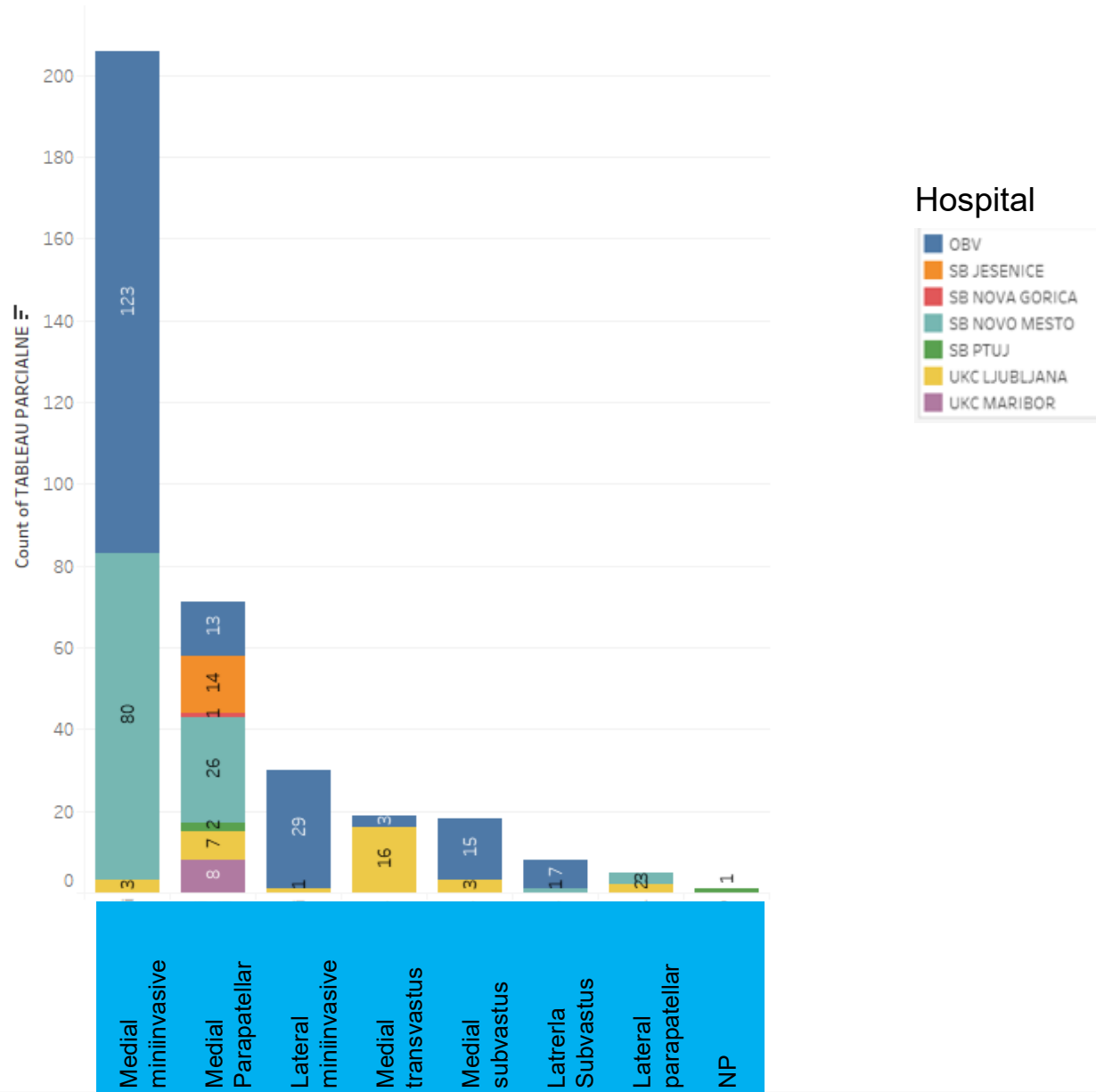
Primary 2019	N°	N° of revision	% of revision
<b>ZIMMER</b>	<b>1253</b>	<b>7</b>	<b>0,6</b>
Nexgen CR-Nexgen	62	1	1,6
cemented	62	1	1,6
Nexgen CR-Nexgen TM	94		
cementless	94		
Nexgen CR-Nexgen TM FB	10		
cementless	10		
Nexgen LCCK-Nexgen	5		
cemented	5		
Nexgen LPS Flex-Nexgen	961	5	0,5
cemented	961	5	0,5
Nexgen LPS Flex-Nexgen TM FB	1		
reverse hybrid	1		
Nexgen LPS-Nexgen	4		
cementless	4		
Nexgen LPS-Nexgen TM FB	110		
cementless	110		
Nexgen RH-Nexgen RH	3	1	33,3
cemented	3	1	33,3
Persona PS-Persona	3		
cemented	3		
<b>Skupna vsota</b>	<b>2838</b>	<b>20</b>	<b>0,7</b>

## Total knee replacement Part 3

# Unicondylar KR by preoperative diagnoses



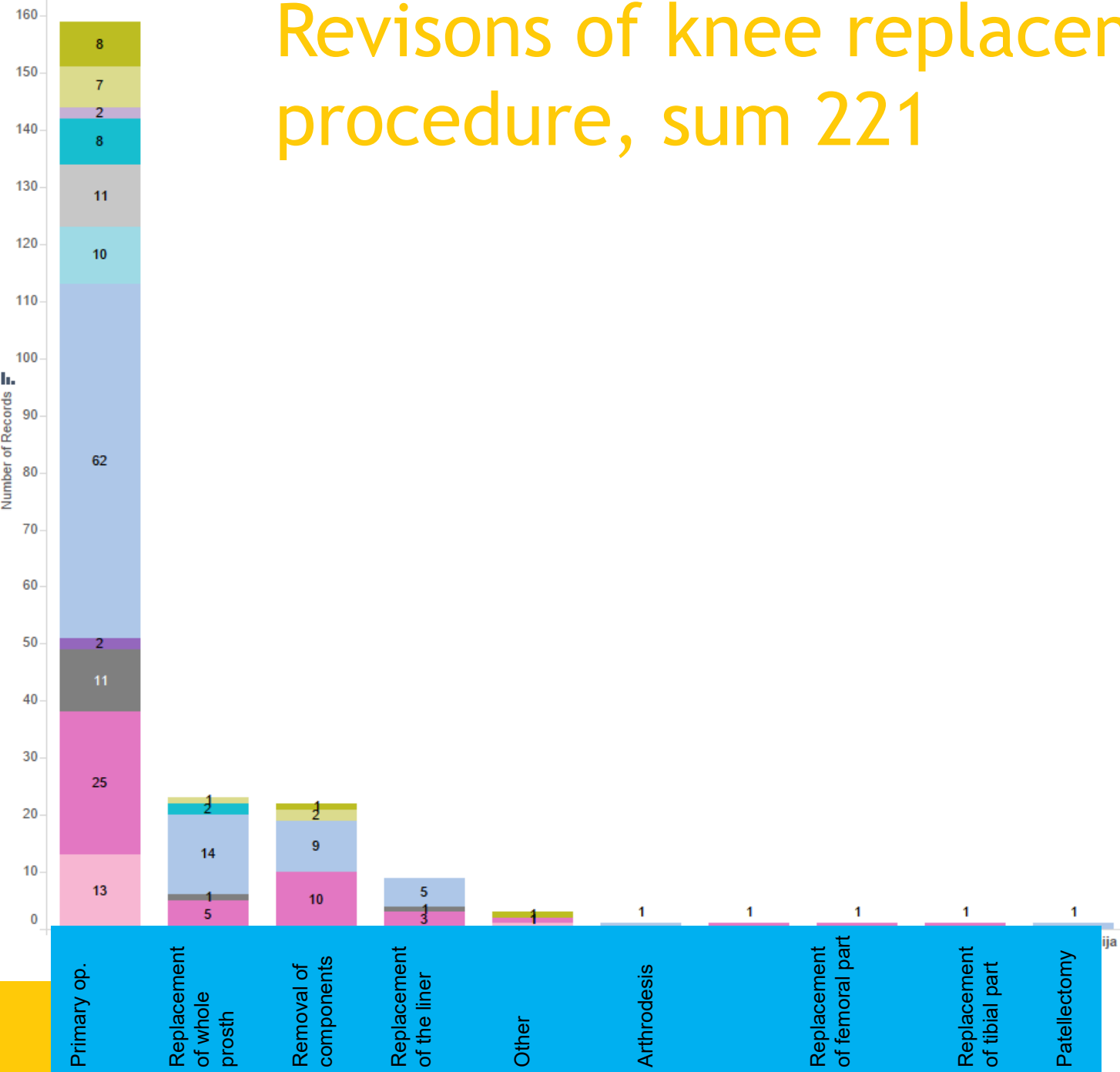
# Unicondylar KR by approach



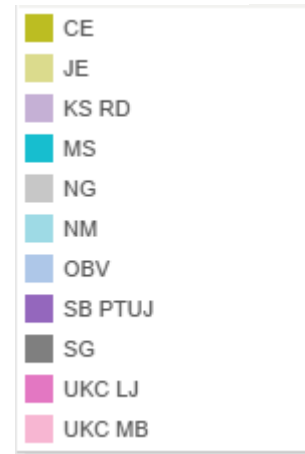
Primary 2019	N°	N° of revision	% of revision
<b>AMPLITUDE</b>	<b>22</b>	<b>1</b>	<b>4,5</b>
Uni Score HA-Uni Score FB hybrid	2 2		
Uni Score HA-Uni Score HA uncemented	1 1		
Uni Score-Uni Score FB	<b>19</b>	<b>1</b>	<b>5,3</b>
cemented	18	1	5,6
reverse hybrid	1		
<b>ATRHROSURFACE</b>	<b>2</b>		
HemiCAP	<b>1</b>		
cemented	1		
PF Wave	<b>1</b>		
cemented	1		
<b>BIOMET</b>	<b>54</b>		
Oxford-Oxford	<b>1</b>		
cemented	1		
Oxford-Oxford HA	<b>47</b>		
cementless	45		
reverse hybrid	2		
Persona Partial-Persona Partial	<b>6</b>		
cemented	6		
<b>LIMA</b>	<b>240</b>	<b>2</b>	<b>0,8</b>
Physica ZUK-Physica ZUK	<b>240</b>	<b>2</b>	<b>0,8</b>
cemented	240	2	0,8
<b>SMITH-NEPHEW</b>	<b>32</b>		
Journey Uni Oxinium-Journey Uni	<b>32</b>		
cemented	32		
<b>ZIMMER</b>	<b>7</b>		
Gender PFJ	<b>1</b>		
cemented	1		
Patellofemoral	<b>6</b>		
cemented	6		
<b>Grand Total</b>	<b>357</b>	<b>3</b>	<b>0,8</b>

## Unicondylar knee prostheses

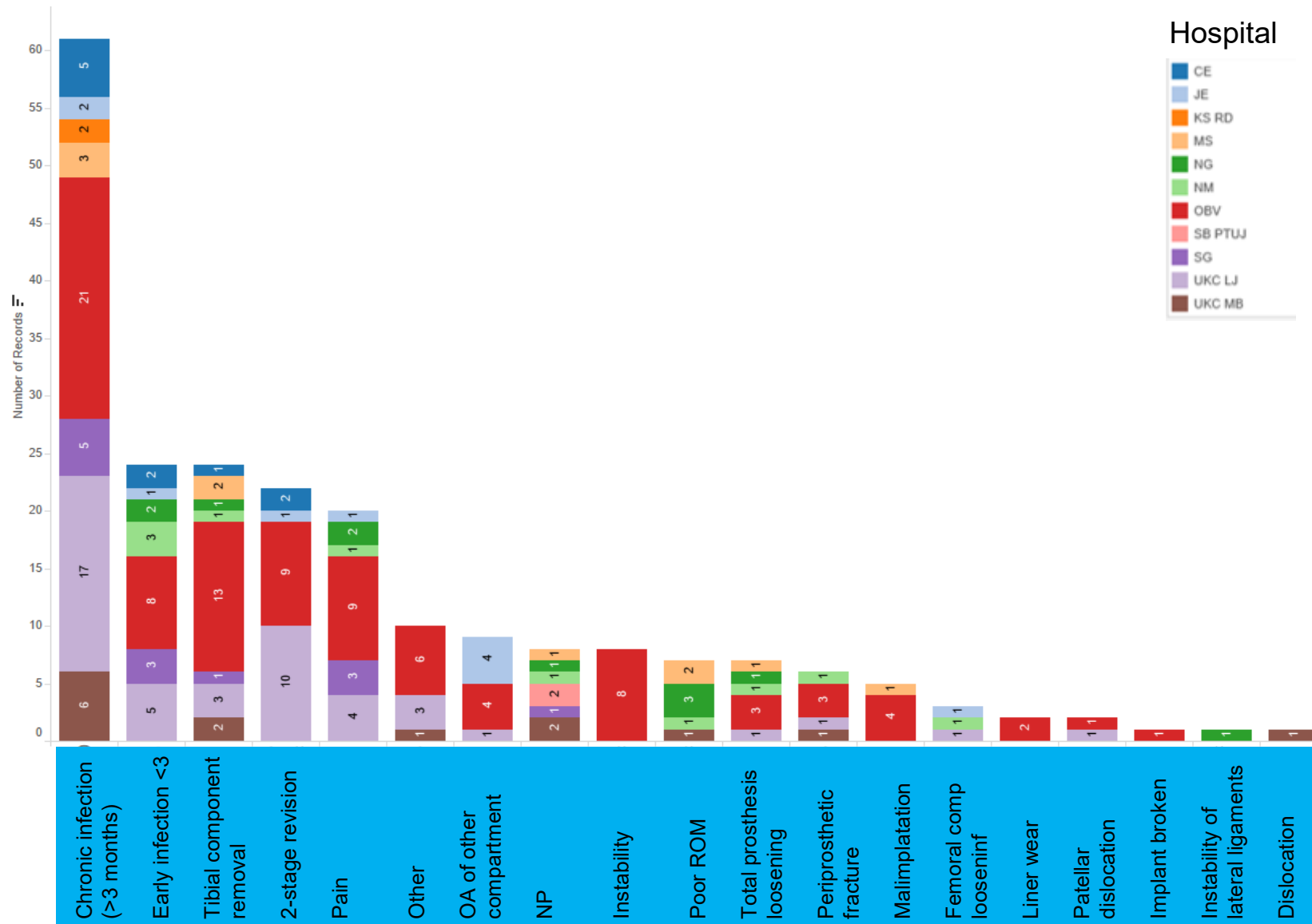
# Revisions of knee replacements by previous procedure, sum 221



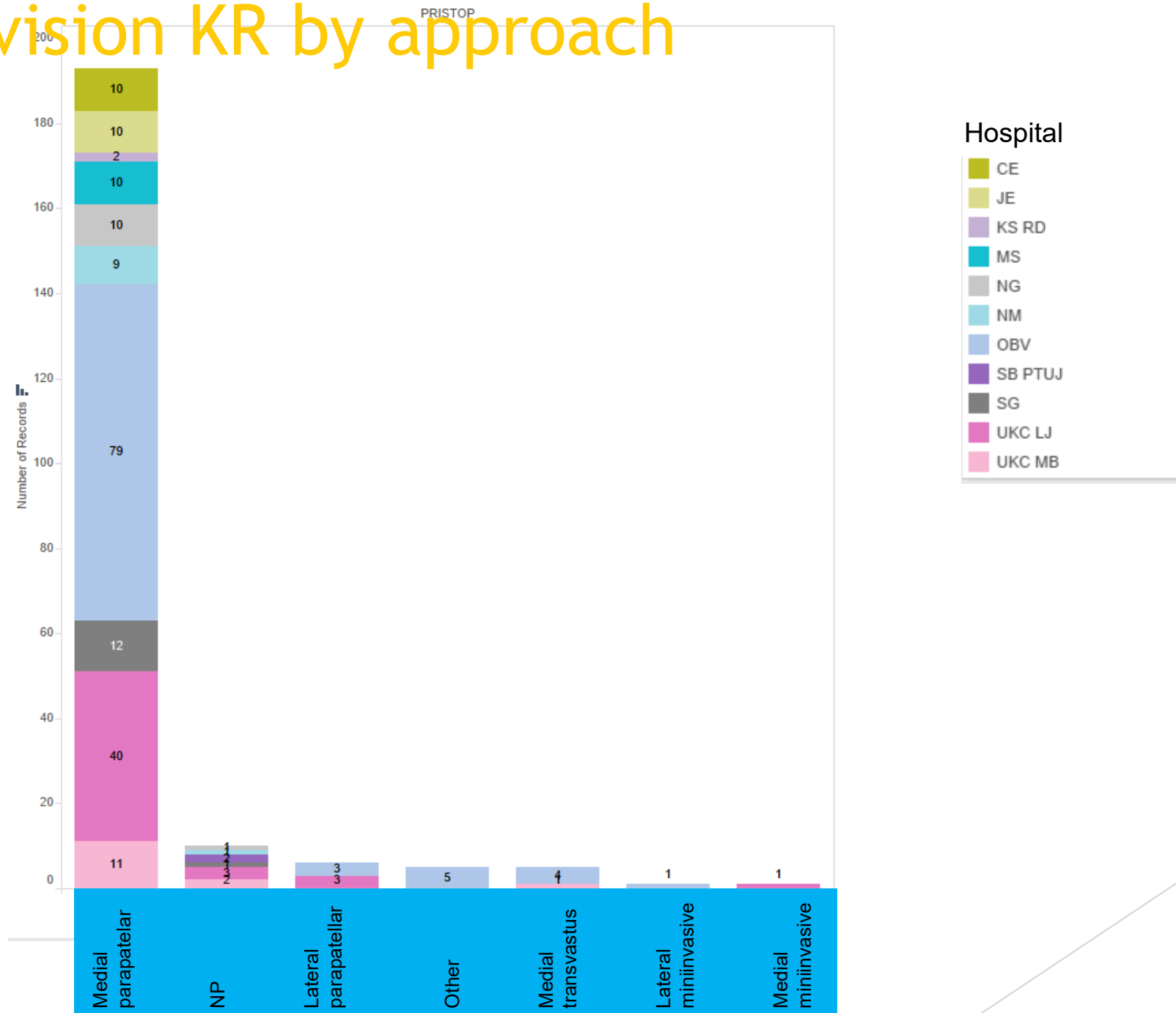
## Hospital



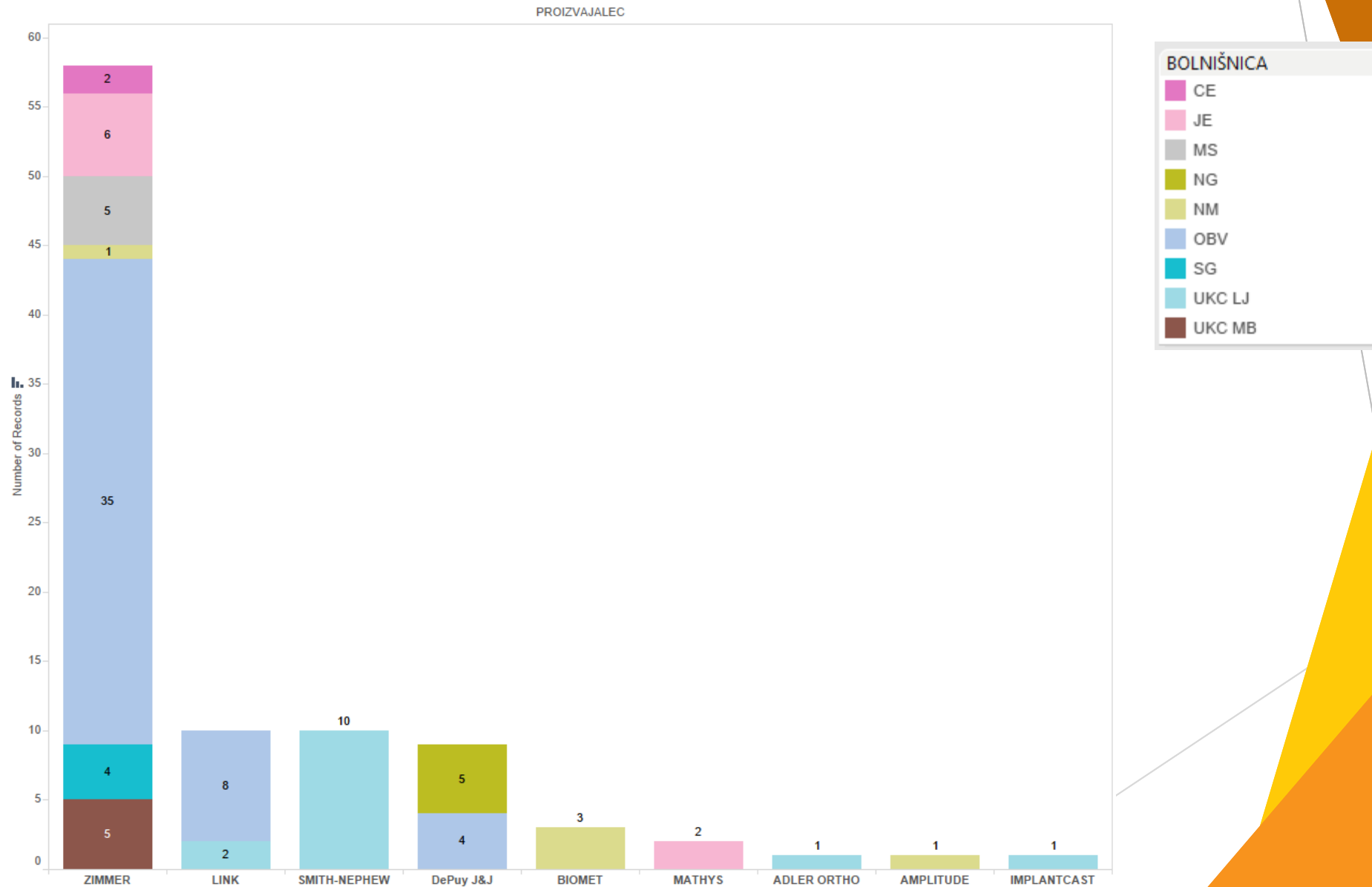
# Revision KR by reason for revision



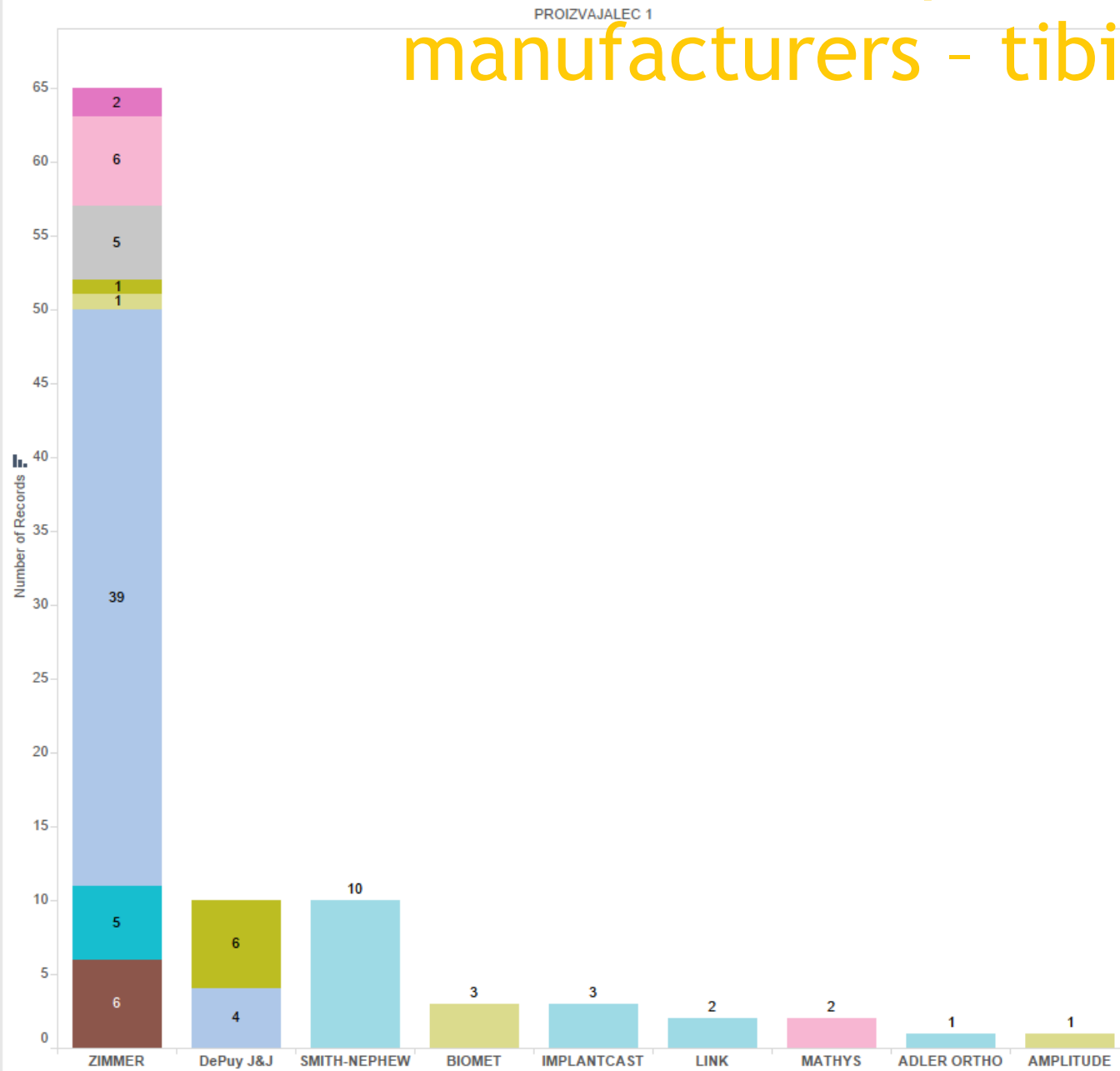
# Revision KR by approach



# Revision knee prosthesis by manufacturers - femoral parts



# Revision knee prosthesis by manufacturers - tibial parts



- BOLNIŠNICA
- CE
  - JE
  - MS
  - NG
  - NM
  - OBV
  - SG
  - UKC LJ
  - UKC MB



# % of revision and revision burden in 2019

State	N° of primary knee replacements	Revised knee replacements <sup>#</sup>	N% and revision burden of all revisions in 2019 *
Slovenija	3200	23 (0,7%)	221 (6,5%)

<sup>#</sup> % of revisions =  $N^{\circ}$  of revisions in this year  $\times$  100 /  $N^{\circ}$  of primaries in the same year

\* RB (revision burden) =  $N^{\circ}$  of revisions  $\times$  100 / ( $N^{\circ}$  of primaries +  $N^{\circ}$  of revisions) in %

Citation:

Levašič V, Savarin D, Kovač S. The National Arthroplasty Registry of Slovenia (RES) [Internet]. Orthopaedic Hospital Valdoltra. [cited 2020 Dec 28]. Available from: <https://www.ob-valdoltra.si/sl/international>

