

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

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The National Arthroplasty Registry of Slovenia- RES

Registry Holder: Valdoltra Orthopaedic Hospital

November 2020



Registry compliance: 100 % of all Knee Replacement in Slovenia

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

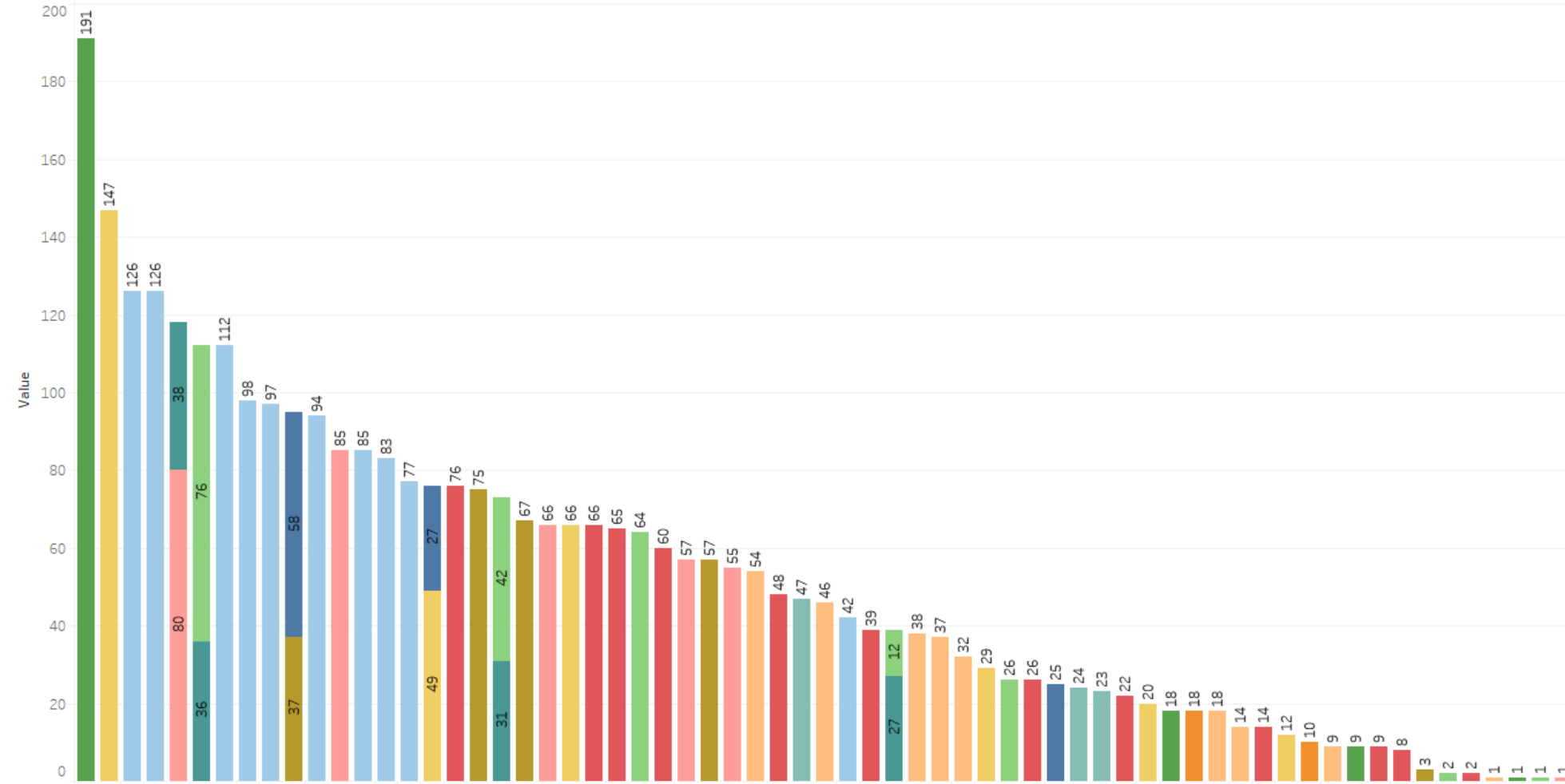
N° of operations per surgeon (primary and revision)

Sheet 1

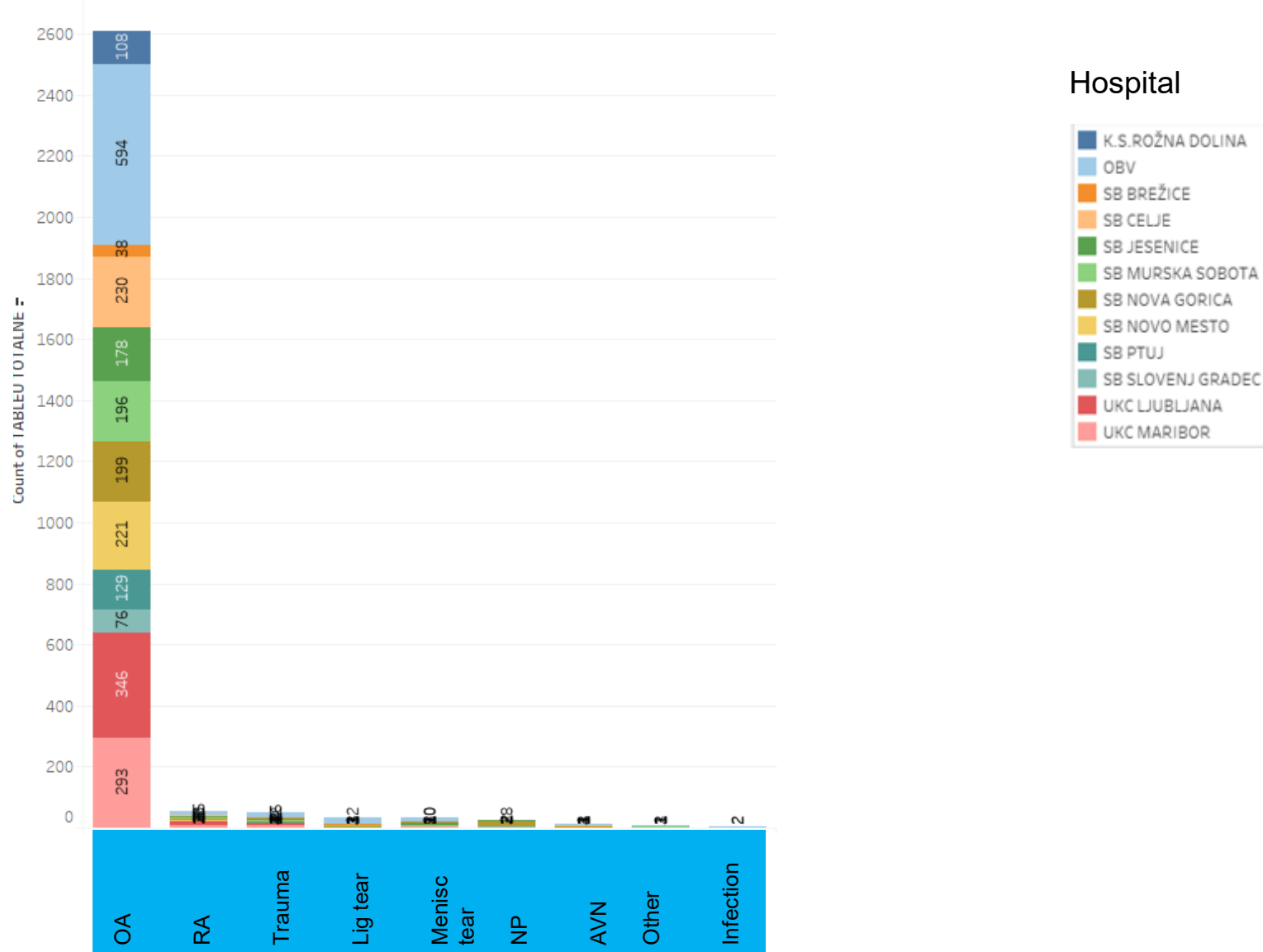
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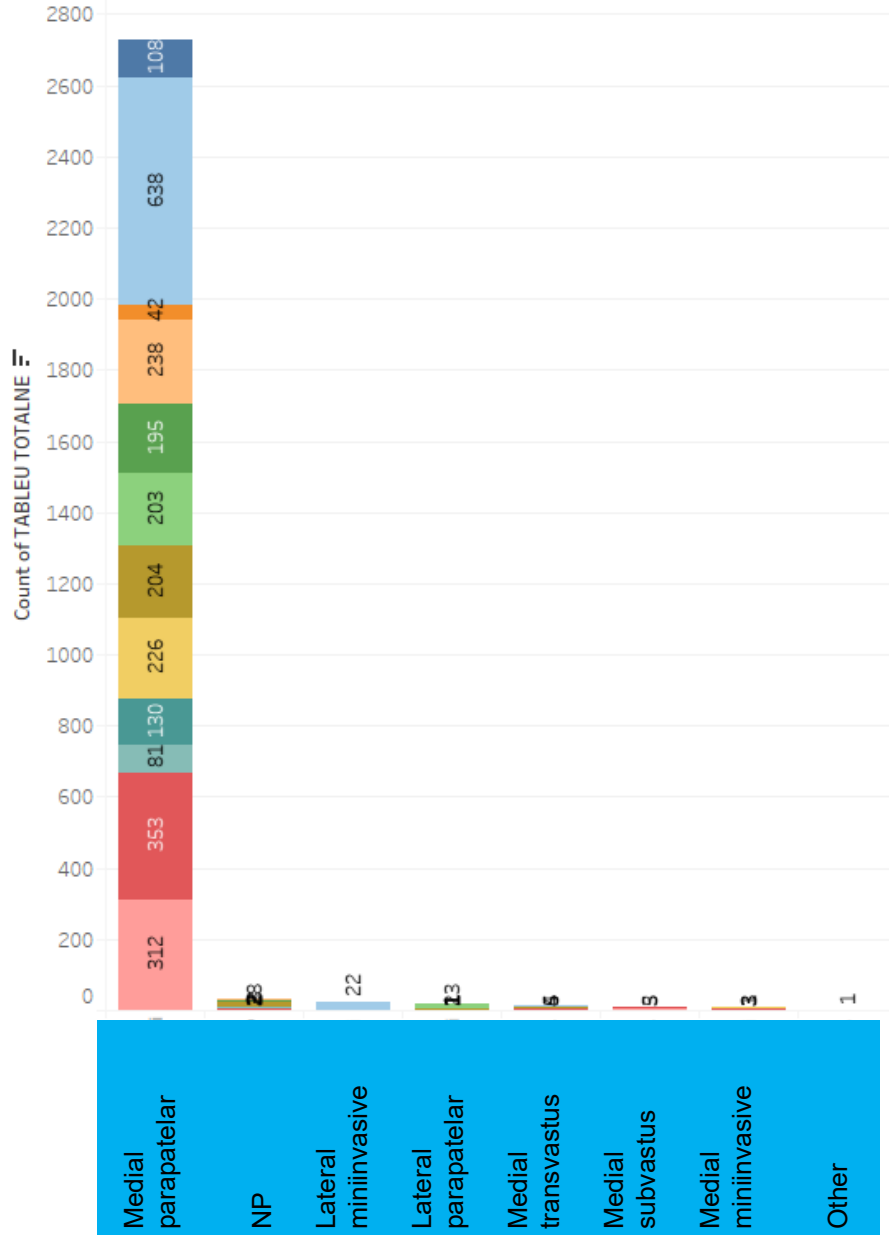
- K.S.ROŽNA DOLINA
- OBV
- SB BREŽICE
- SB CELJE
- SB JESENICE
- SB MURSKA SOBOTA
- SB NOVA GORICA
- SB NOVO MESTO
- SB PTUJ
- SB SLOVENJ GRADEC
- UKC LJUBLJANA
- UKC MARIBOR



TKR by preoperative diagnoses



TKA approach

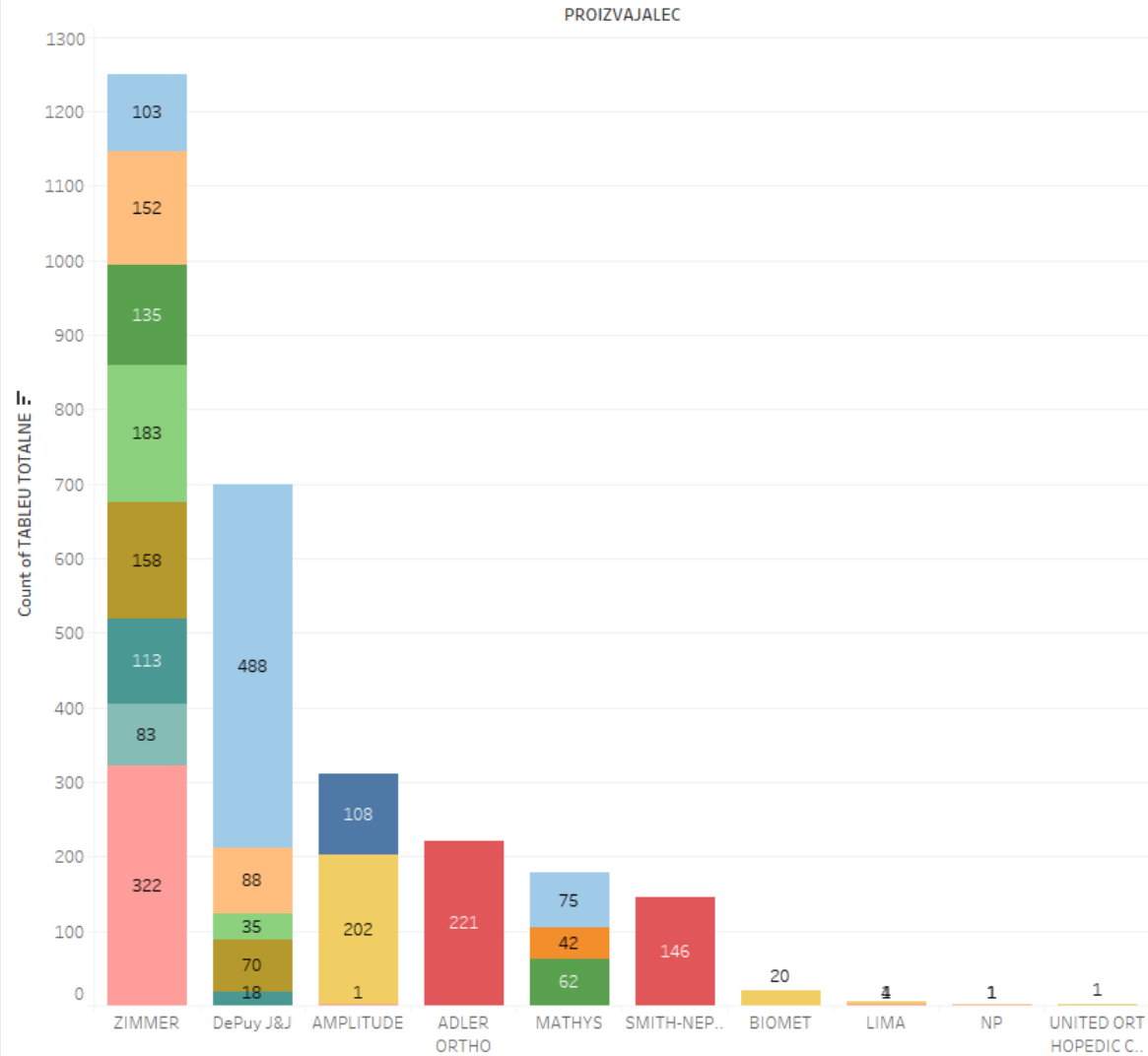


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TKA by manufacturers

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	N°	N° of revision	% of revision
⊖ ADLER ORTHO	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
⊖ AMPLITUDE	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		
⊖ BIOMET	21		
⊖ Vanguard 360-Biomet 360	1		
cemented	1		
⊖ Vanguard CR-Vanguard	11		
cemented	11		
⊖ Vanguard PS-Vanguard	9		
cemented	9		
⊖ DePuy J&J	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

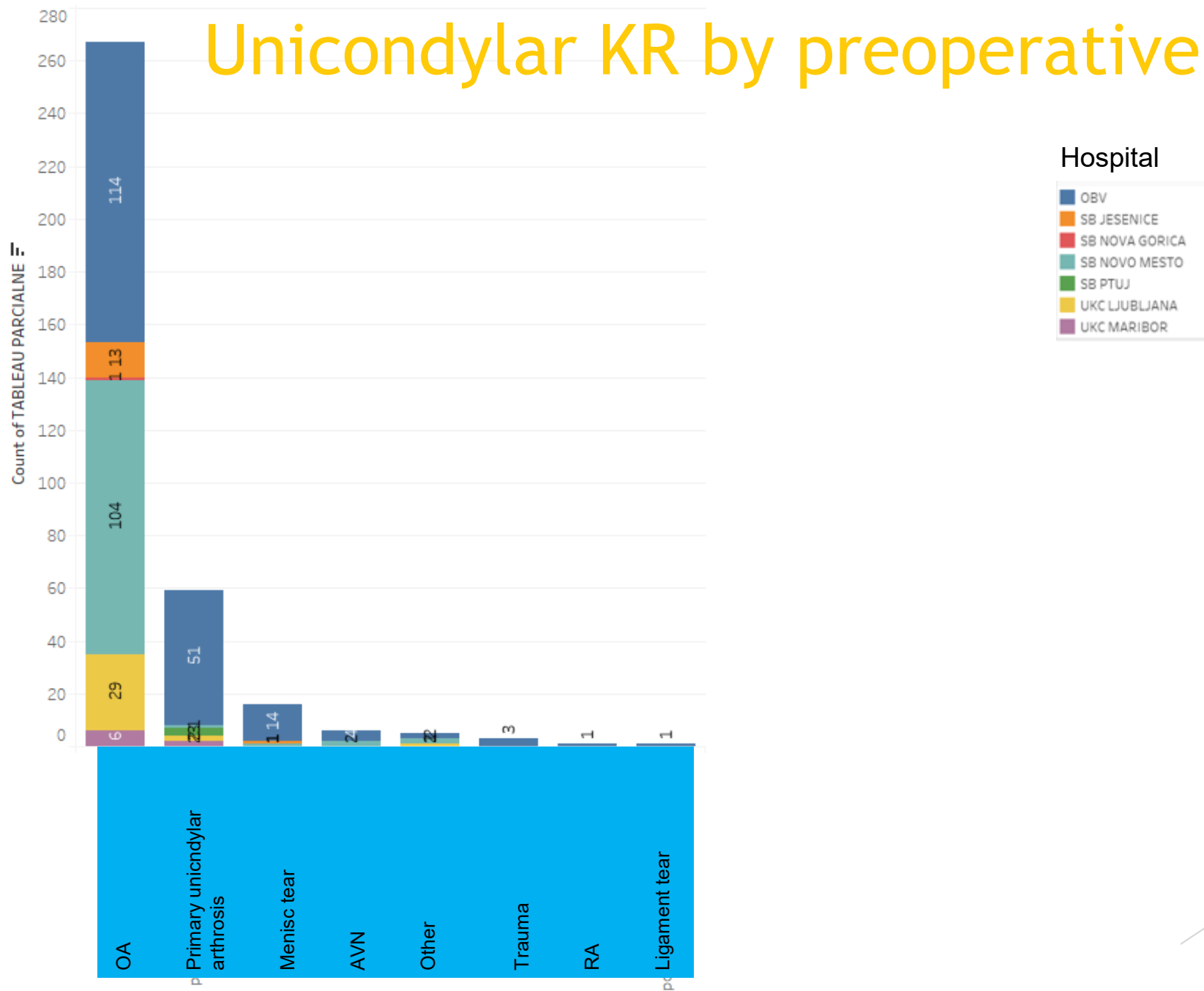
Primary 2019	N°	N° of revision	% of revision
LIMA	5		
Physica CR-Physica FB	1		
cemented	1		
Physica KR-Physica FB	3		
cemented	3		
Physica PS-Physica FB	1		
cemented	1		
MATHYS	180		
BalanSys PS-BalanSys	180		
cemented	180		
SMITH-NEPHEW	145	2	1,4
Genesis II CR Oxinium-Genesis II	8		
cemented	8		
Genesis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

Total knee replacement Part 2

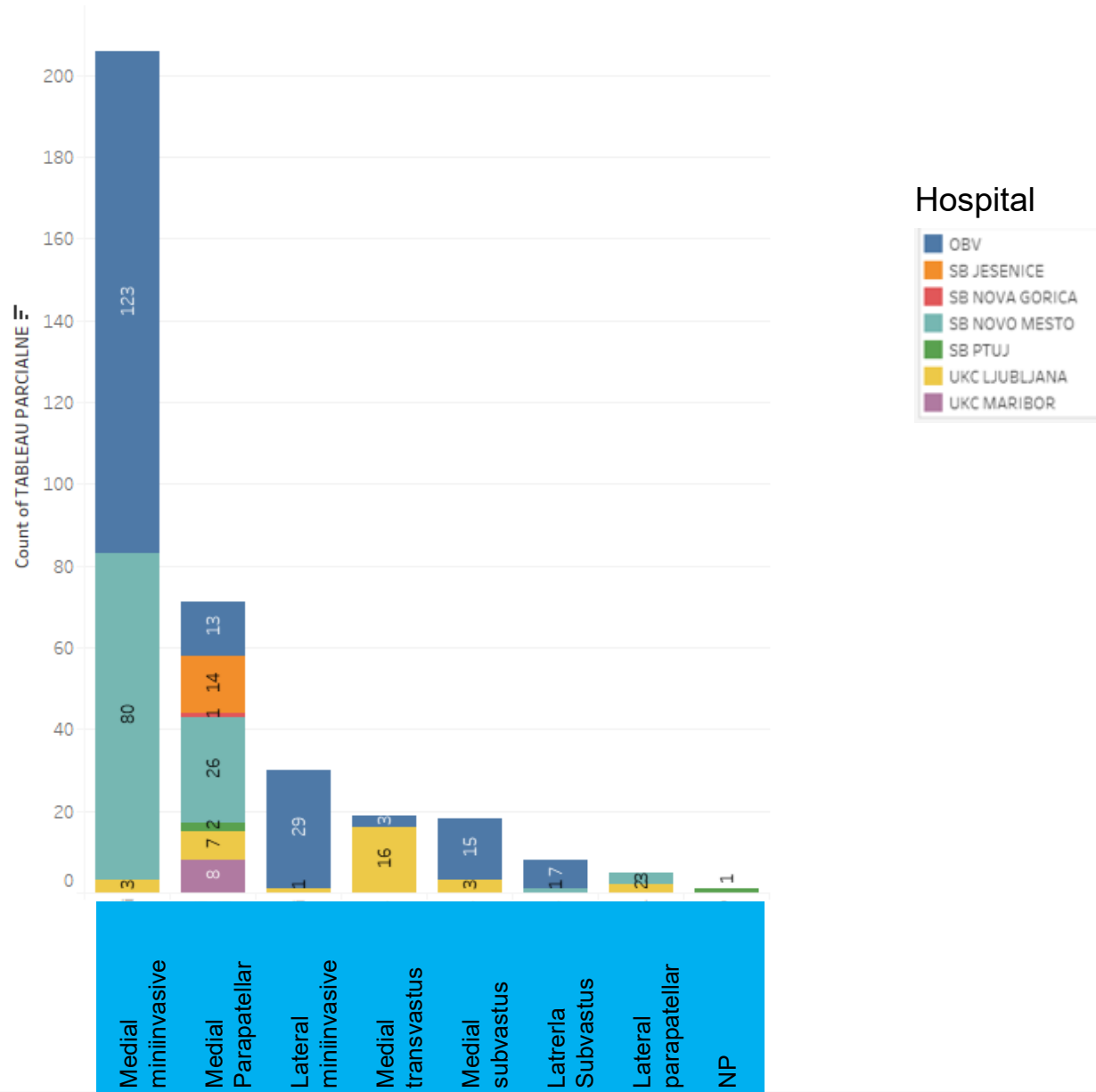
Primary 2019	N°	N° of revision	% of revision
ZIMMER	1253	7	0,6
Nexgen CR-Nexgen	62	1	1,6
cemented	62	1	1,6
Nexgen CR-Nexgen TM	94		
cementless	94		
Nexgen CR-Nexgen TM FB	10		
cementless	10		
Nexgen LCCK-Nexgen	5		
cemented	5		
Nexgen LPS Flex-Nexgen	961	5	0,5
cemented	961	5	0,5
Nexgen LPS Flex-Nexgen 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		
Skupna vsota	2838	20	0,7

Total knee replacement Part 3

Unicondylar KR by preoperative diagnoses



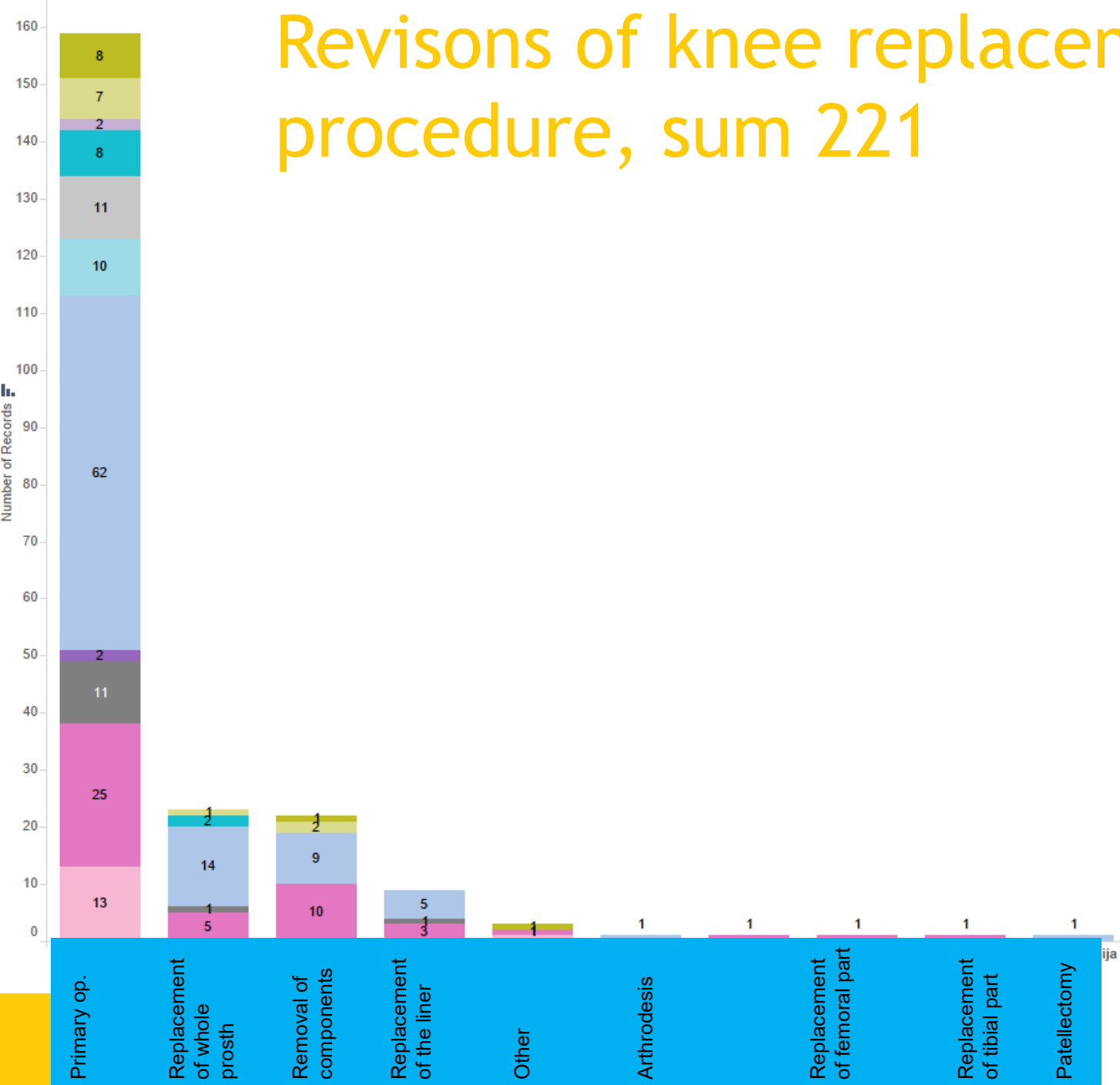
Unicondylar KR by approach



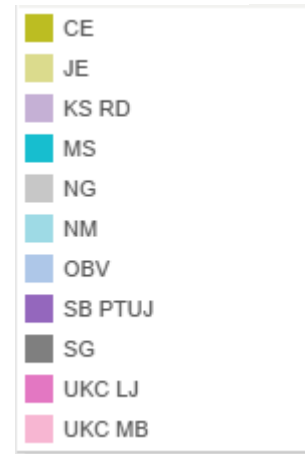
Primary 2019	N°	N° of revision	% of revision
AMPLITUDE	22	1	4,5
Uni Score HA-Uni Score FB hybrid	2		
Uni Score HA-Uni Score HA uncemented	1		
Uni Score-Uni Score FB cemented	19	1	5,3
Uni Score-Uni Score FB reverse hybrid	18	1	5,6
Uni Score-Uni Score FB reverse hybrid	1		
ATRHROSURFACE	2		
HemiCAP cemented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

Unicondylar knee prostheses

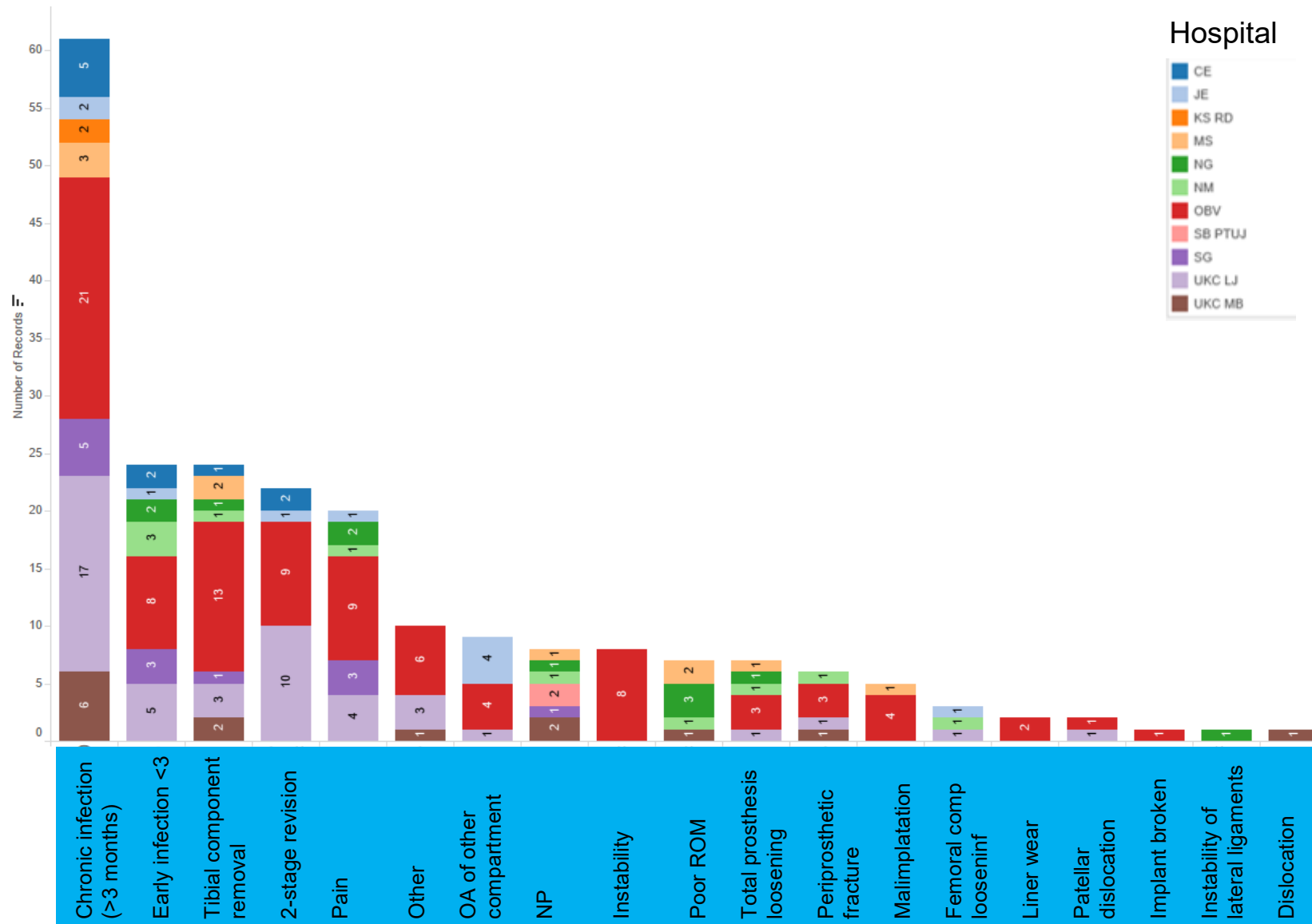
Revisions of knee replacements by previous procedure, sum 221



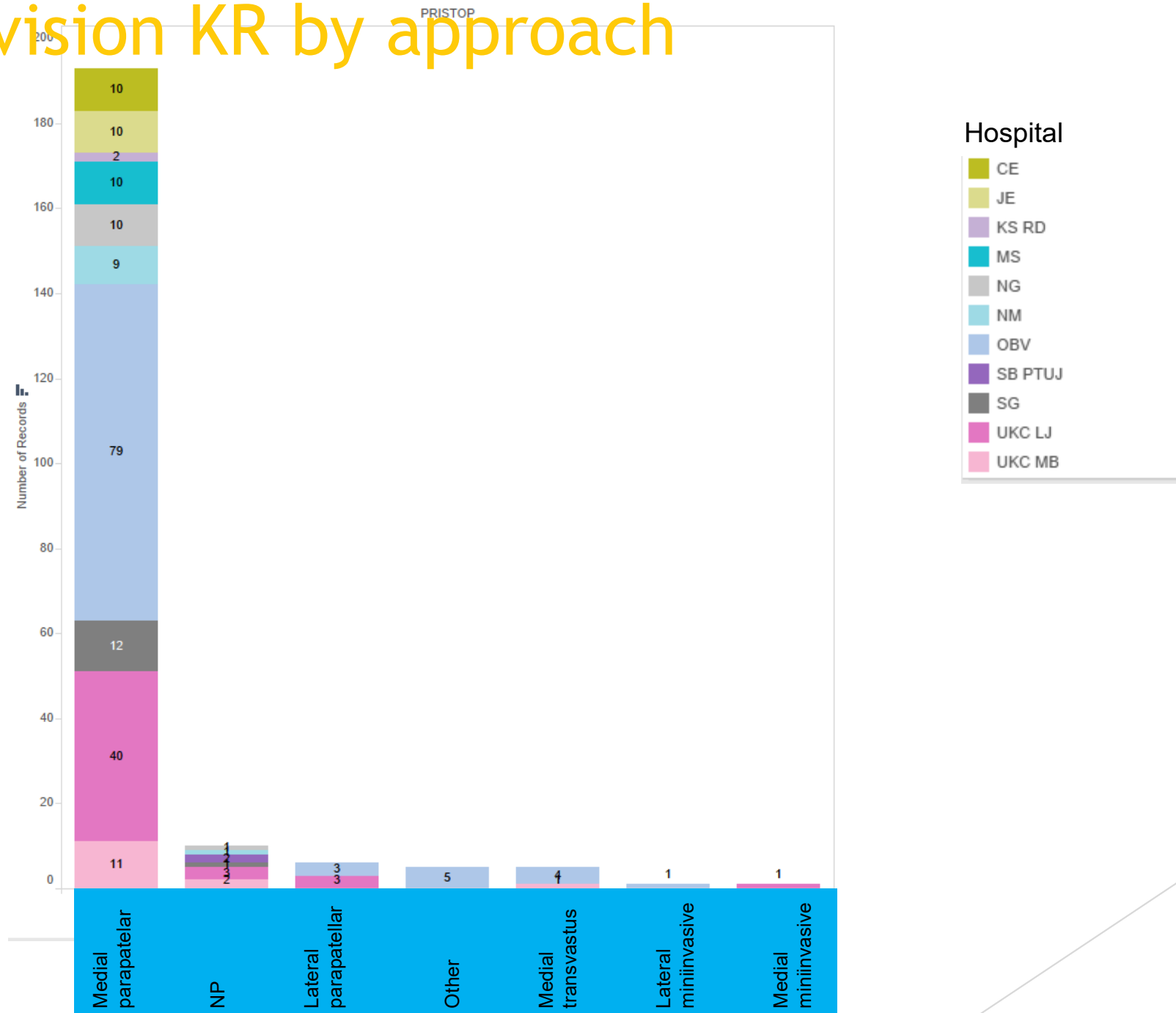
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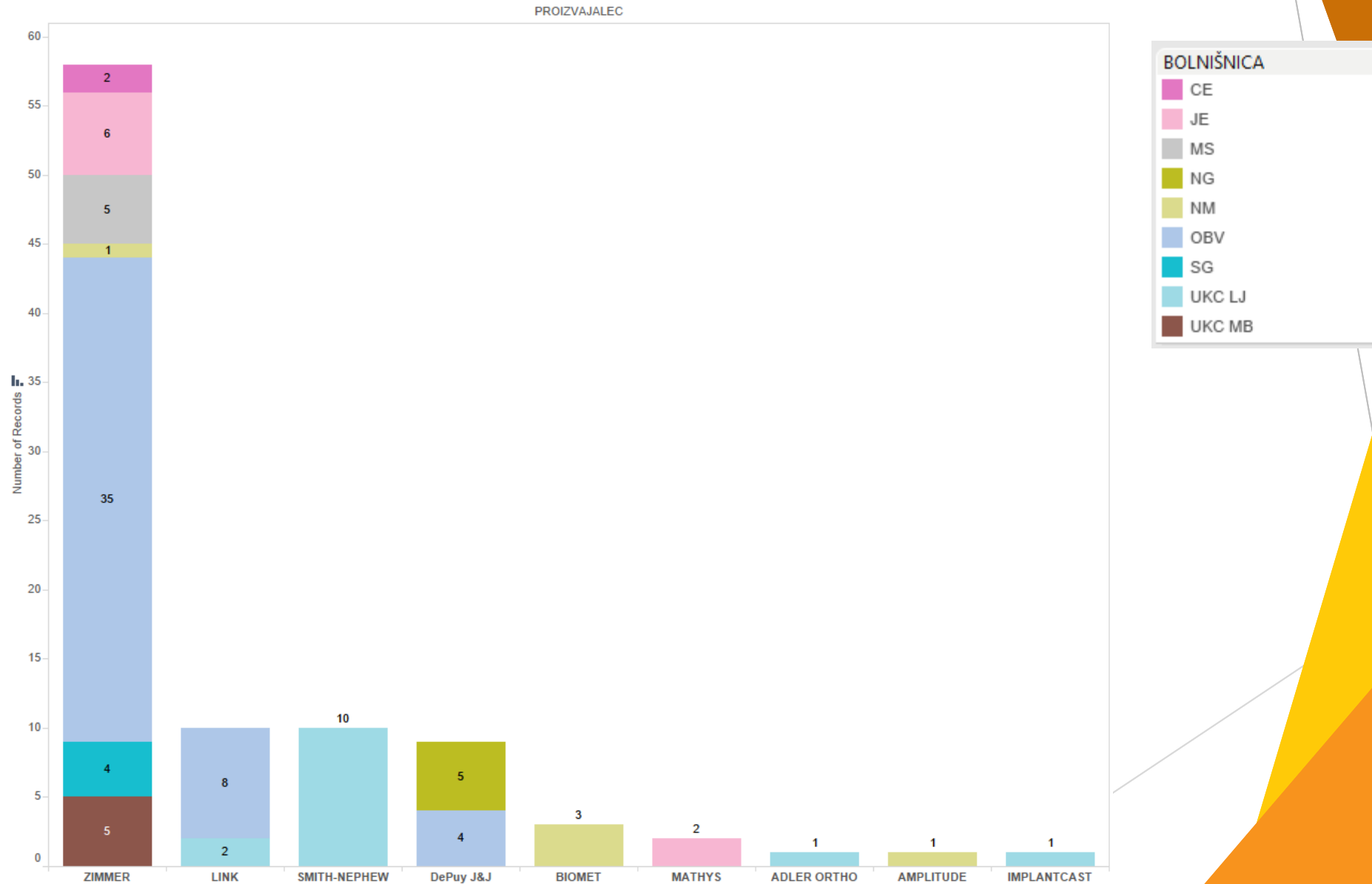
Revision KR by reason for revision



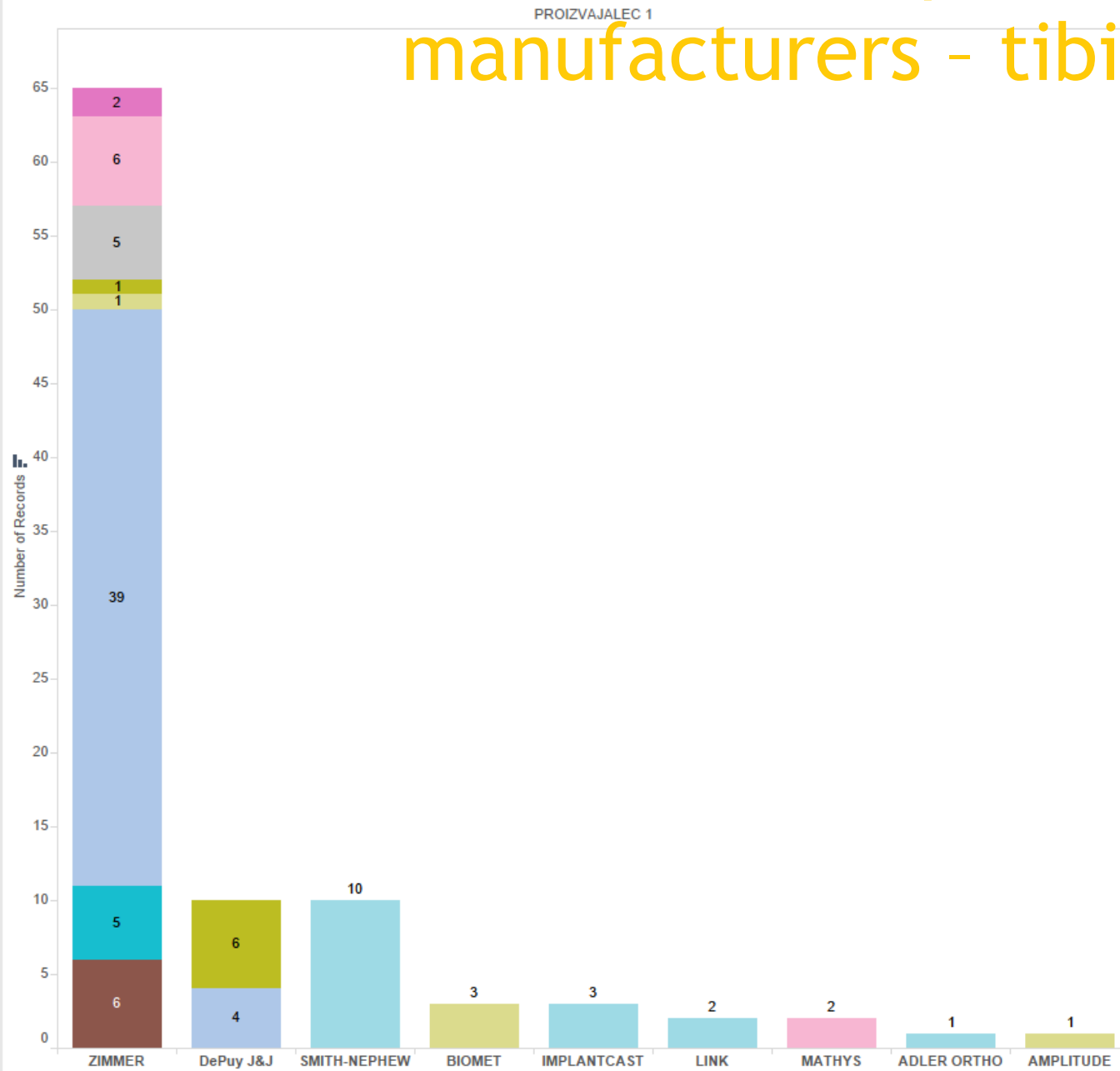
Revision KR by approach



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#	N% and revision burden of all revisions in 2019 *
Slovenija	3200	23 (0,7%)	221 (6,5%)

% of revisions= N° of revisions in this year x 100 / N° of primaries in the same year

* RB (revision burden) = N° of revisions*100/(N° of primaries+ N° of revisions) in %

THANK YOU!

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/s/international>

