

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

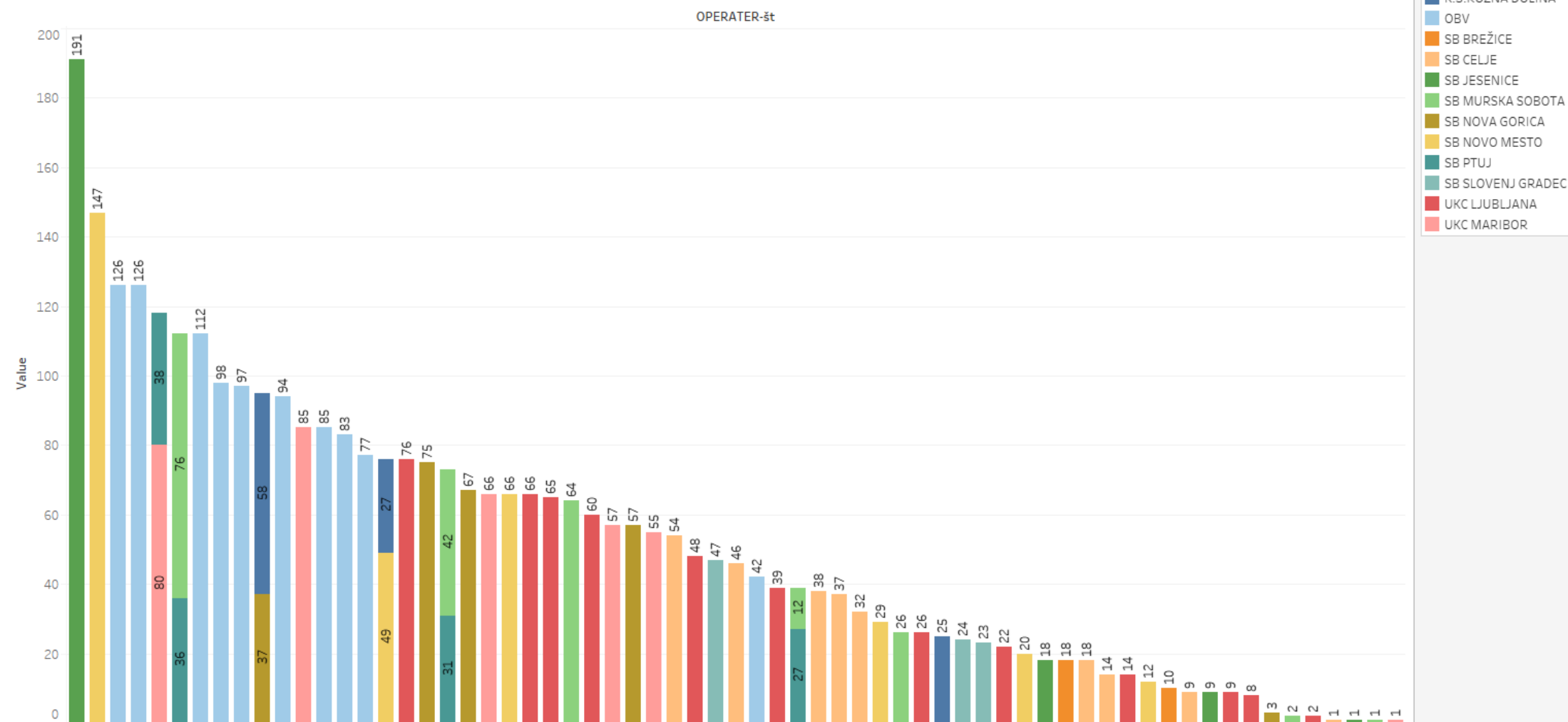
Year	Primary Total KR	Primary Partial KR	Revision KR	Total
2019	2842	358	213	3413

Demographic data:

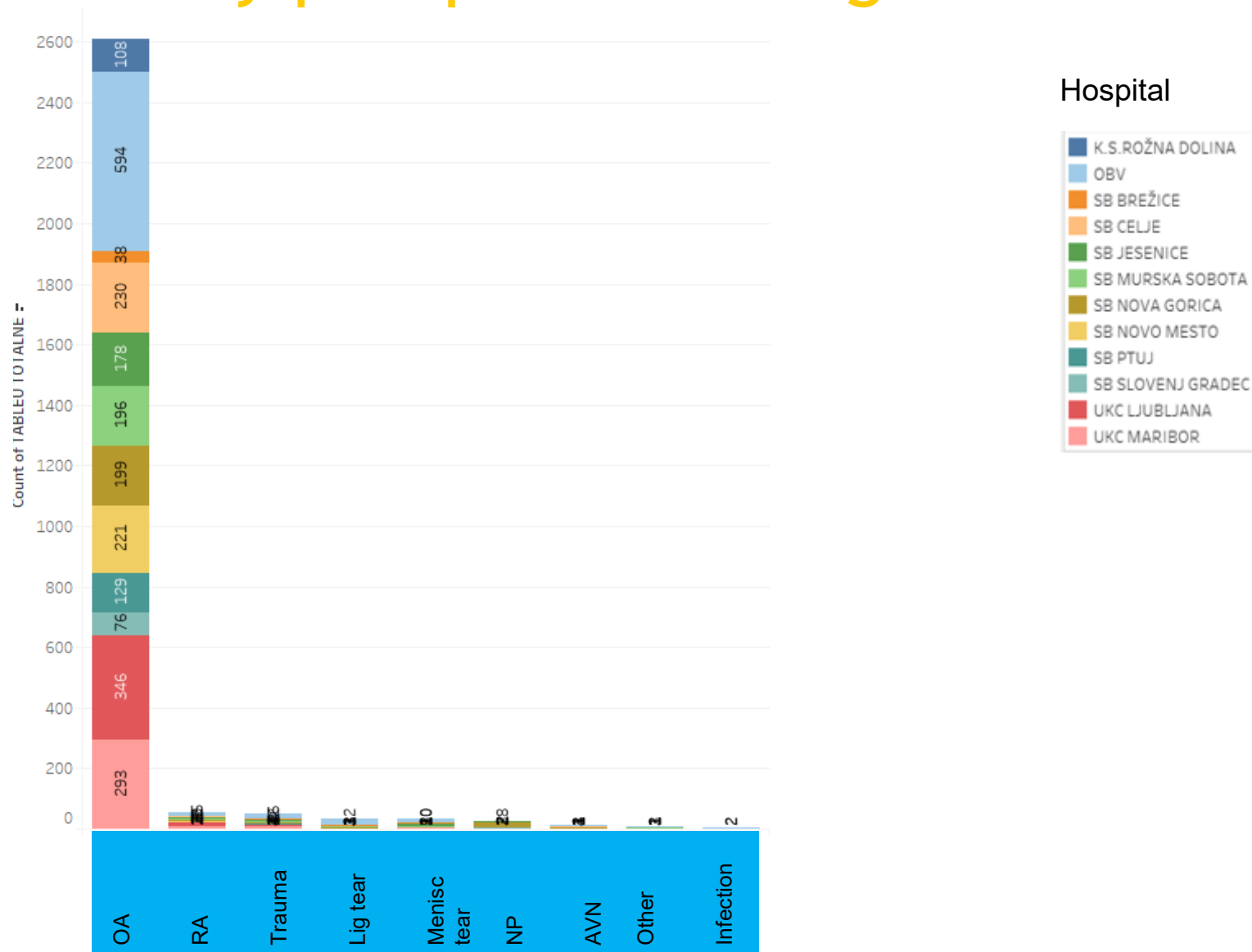
Surgery 2019	Average Age($\pm$ SD)	Men (%)	Women (%)	Right (%)	Left (%)
Primary TKR	70 ($\pm$ 8)	35	65	54	46
Primary Partial KR	67 ($\pm$ 9)	41	59	46	54
Revision KR	69 ($\pm$ 10)	39	61	49	51

N° of operations per surgeon (primary and revision)

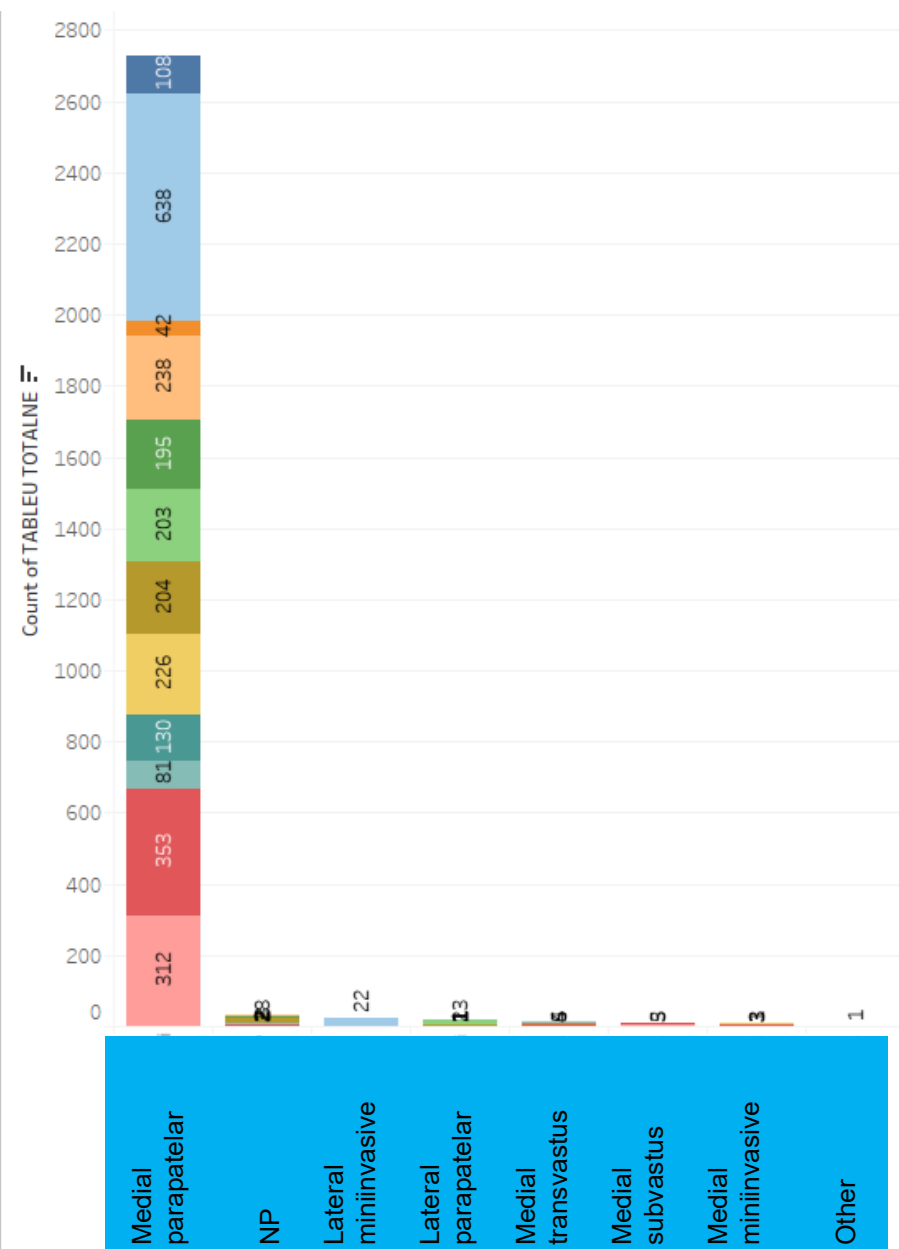
Sheet 1



TKR by preoperative diagnoses



TKA approach

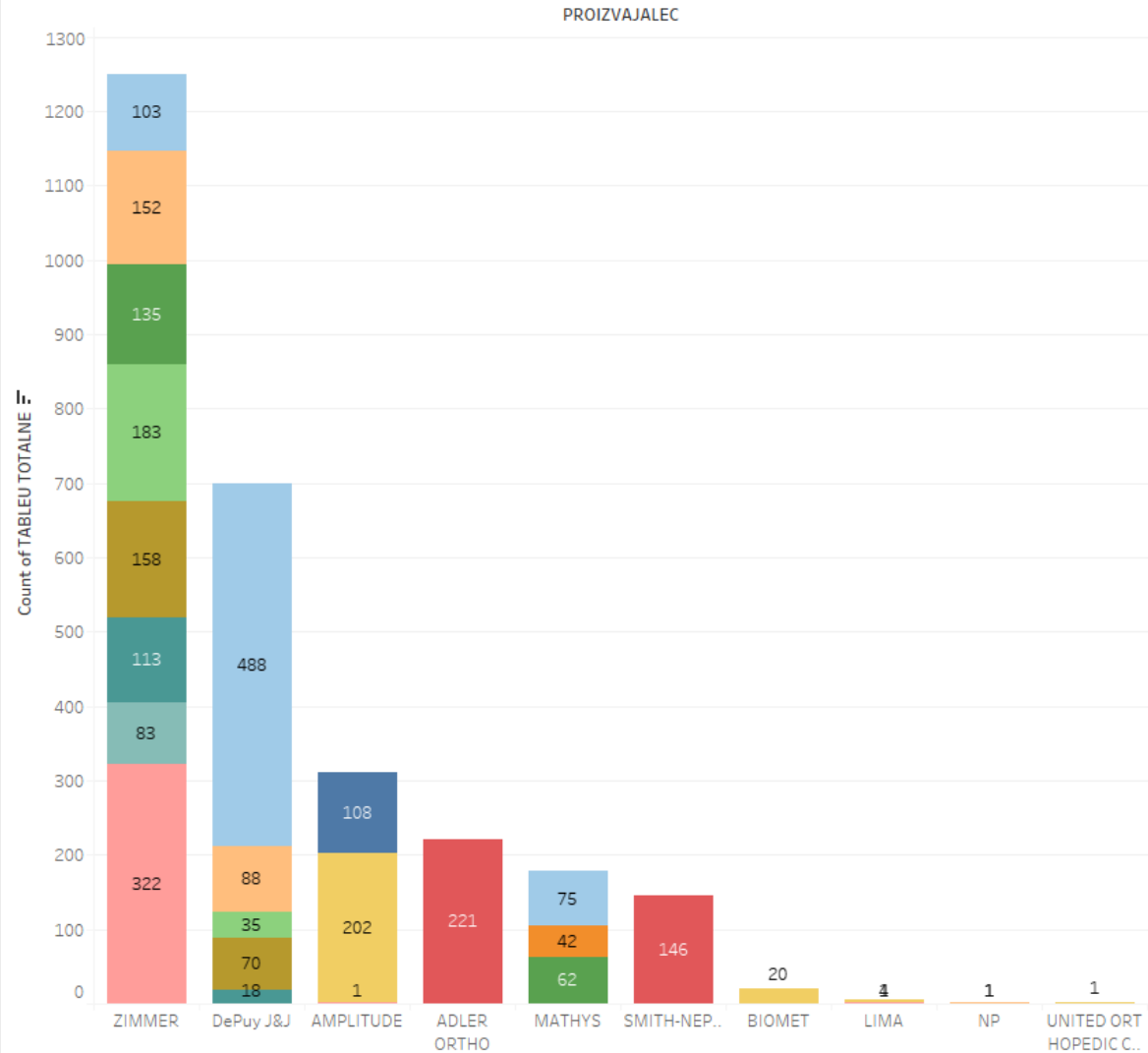


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TKA by manufacturers

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

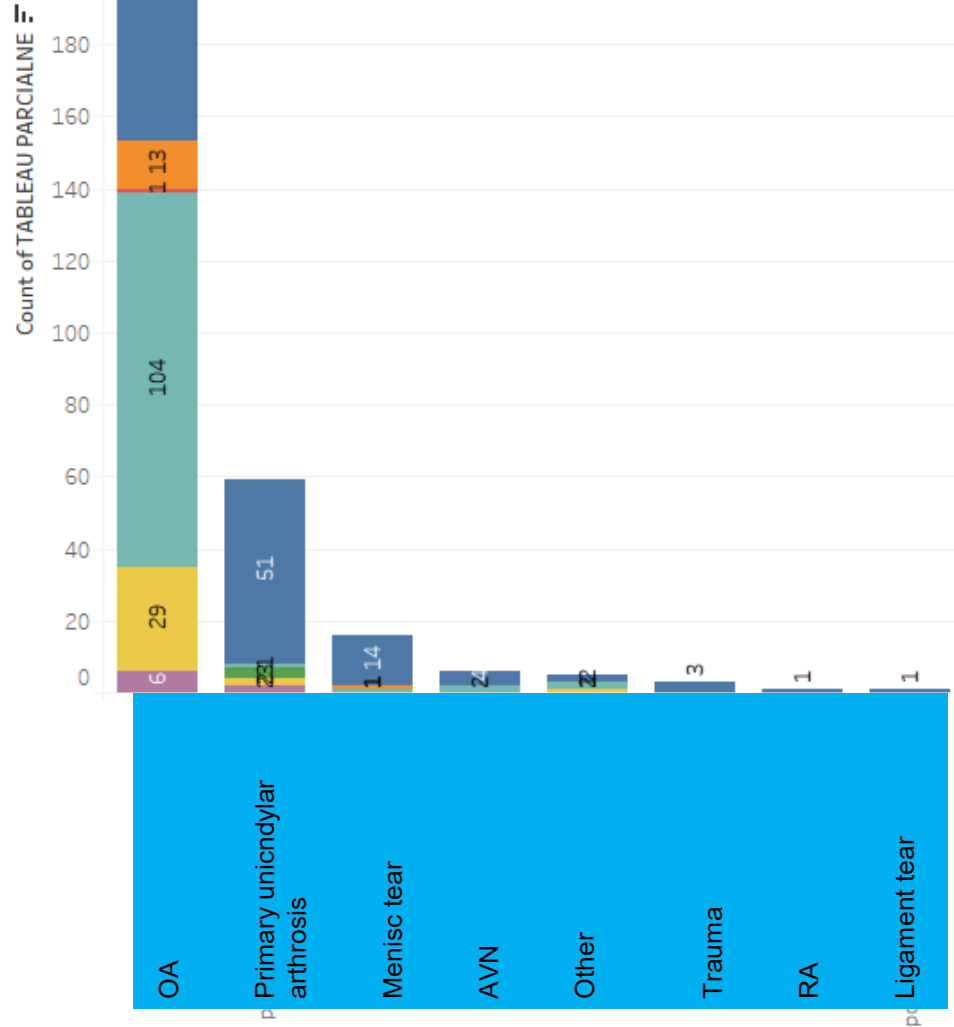
Unicondylar KR by preoperative diagnoses

Count of TABLEAU PARCIALNE

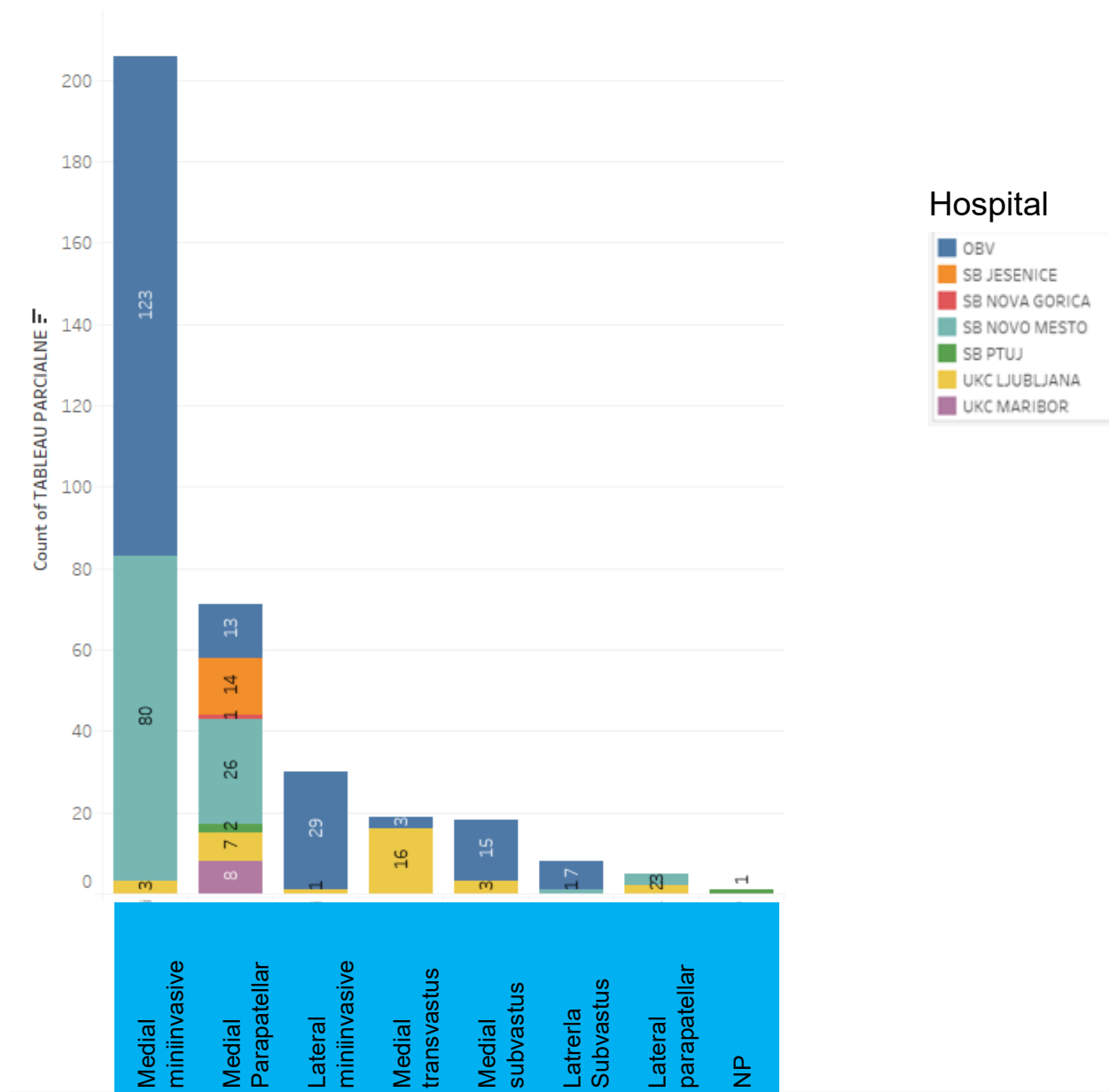
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- OBV
- SB JESENICE
- SB NOVA GORICA
- SB NOVO MESTO
- SB PTUJ
- UKC LJUBLJANA
- UKC MARIBOR



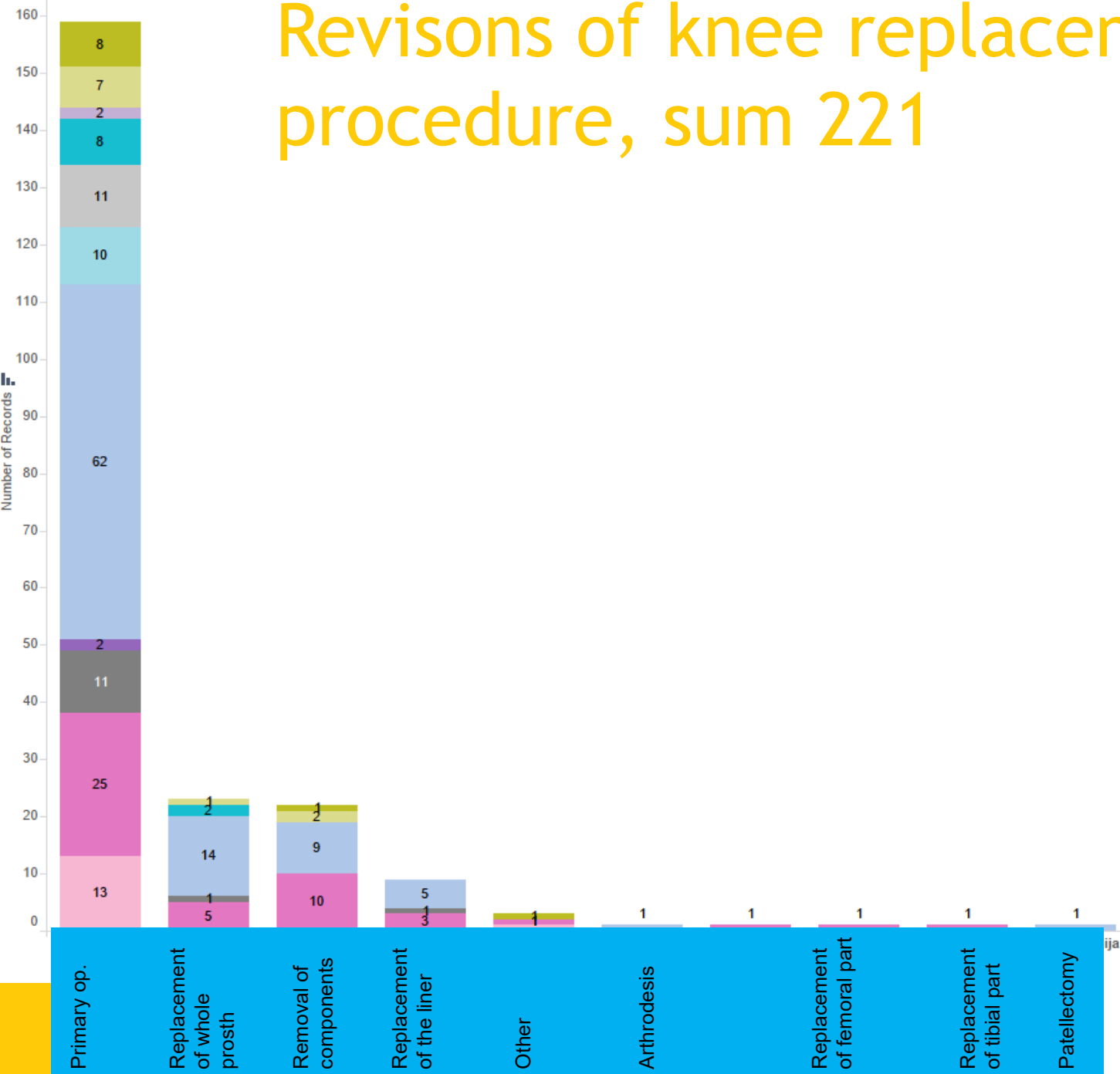
Unicondylar KR by approach



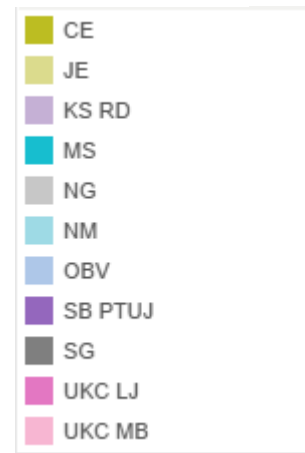
Primary 2019	N°	N° of revision	% of revision
AMPLITUDE	22	1	4,5
Uni Score HA-Uni Score FB	2		
hybrid	2		
Uni Score HA-Uni Score HA	1		
uncemented	1		
Uni Score-Uni Score FB	19	1	5,3
cemented	18	1	5,6
reverse hybrid	1		
ATRHROSURFACE	2		
HemiCAP	1		
cemented	1		
PF Wave	1		
cemented	1		
BIOMET	54		
Oxford-Oxford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

Unicondylar knee
prostheses

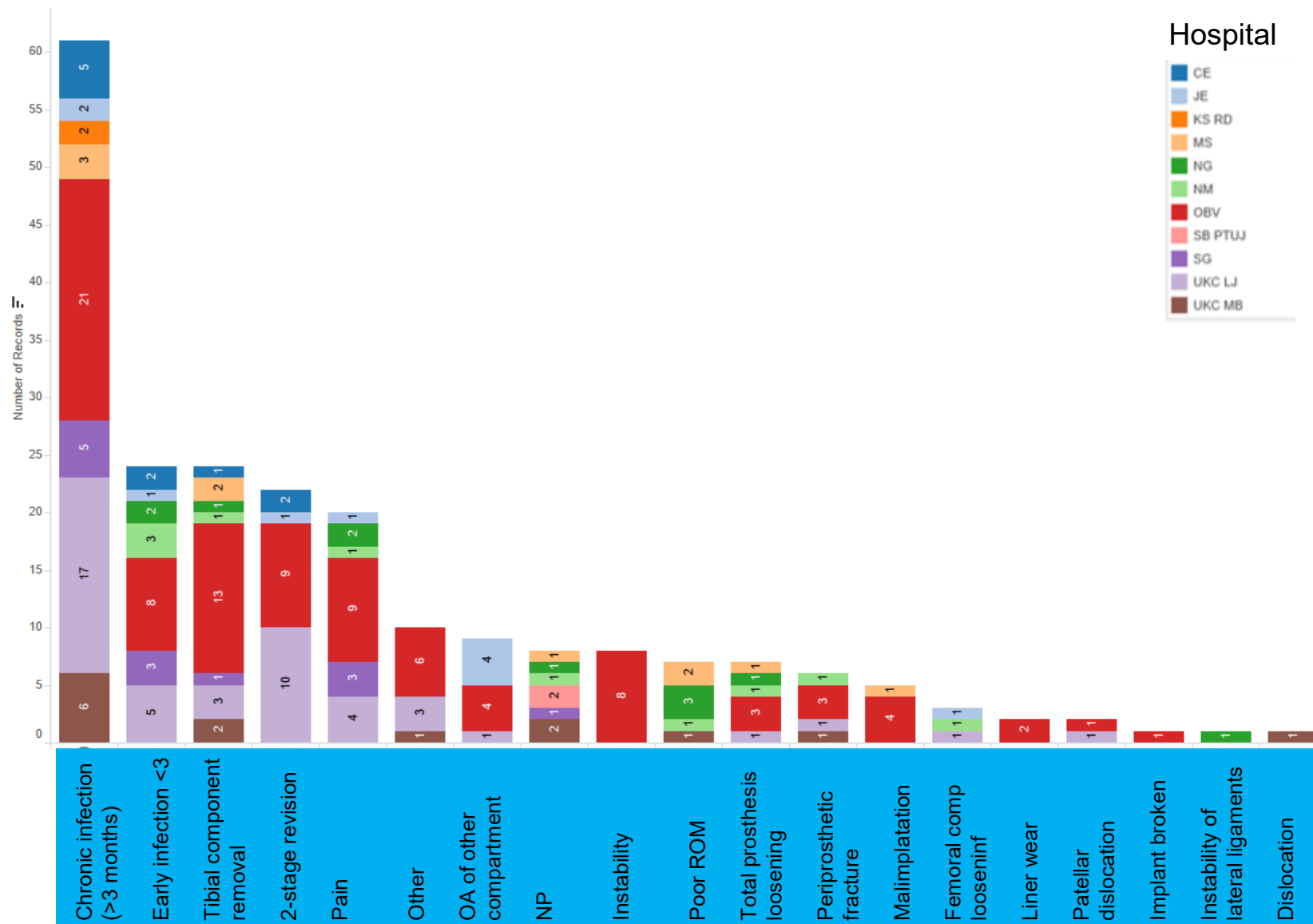
Revisions of knee replacements by previous procedure, sum 221



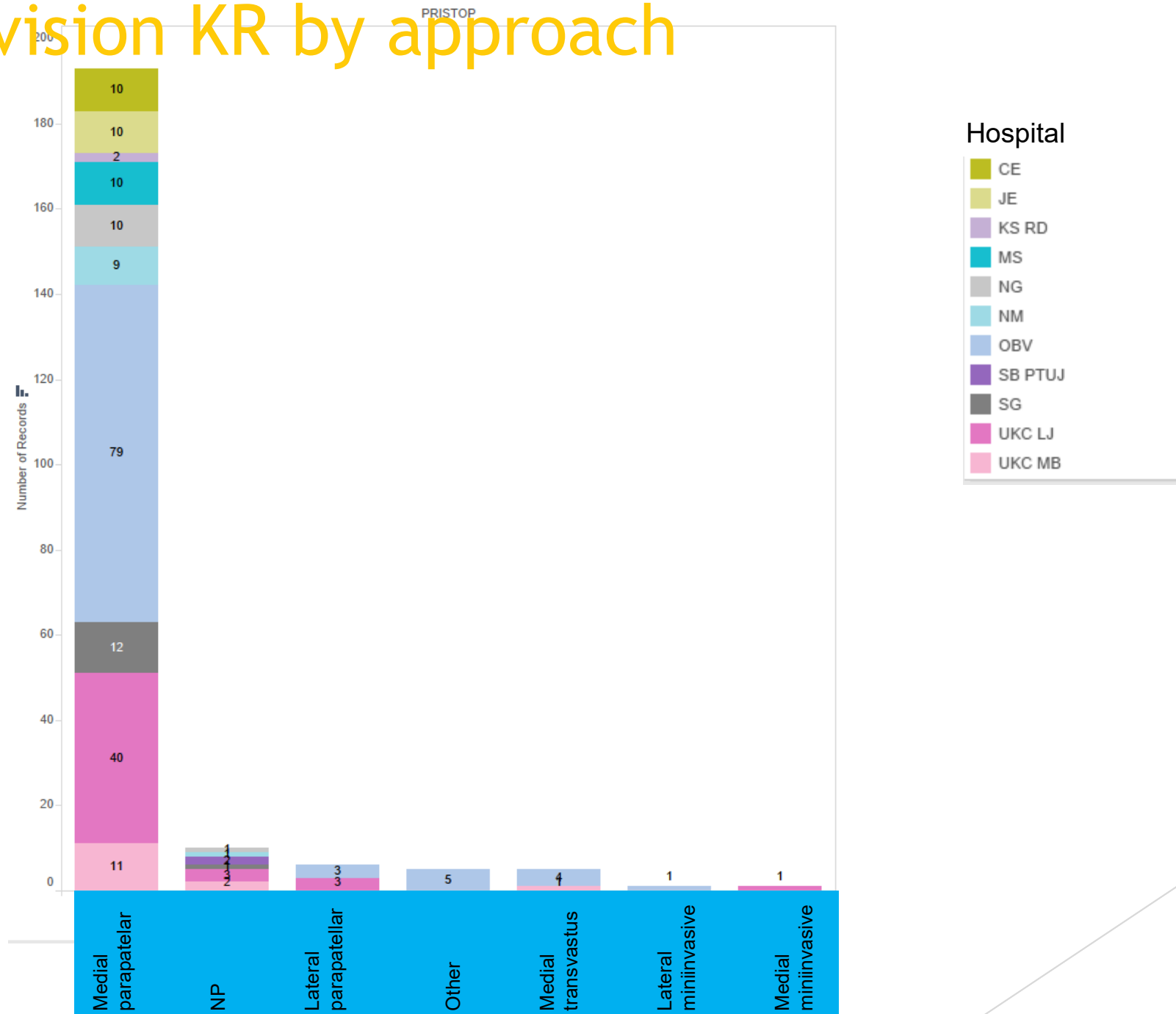
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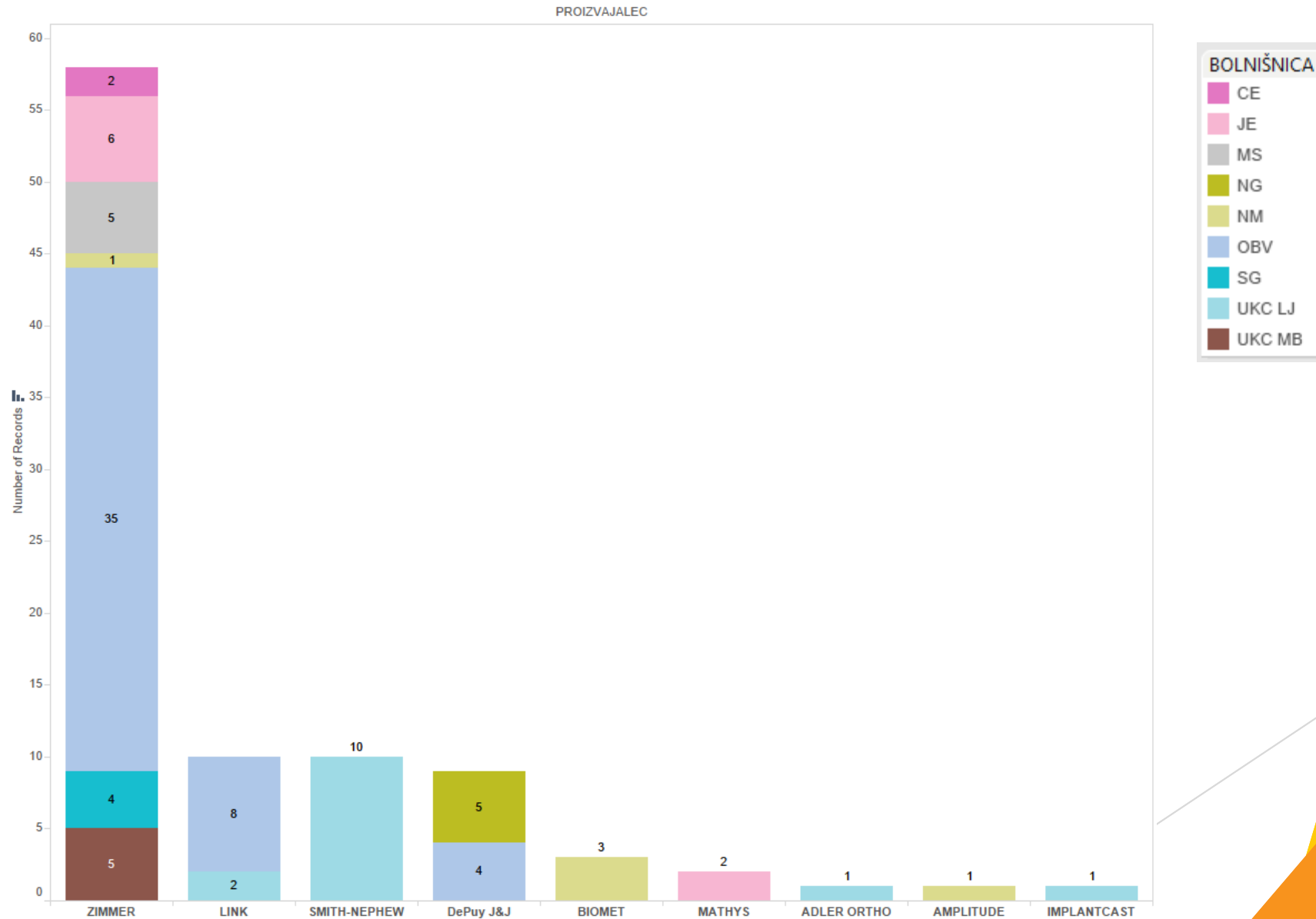
Revision KR by reason for revision



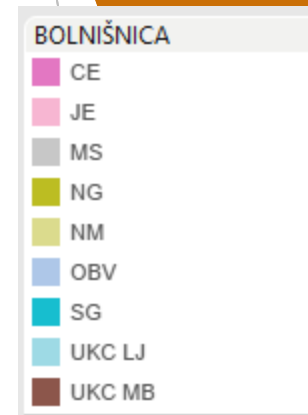
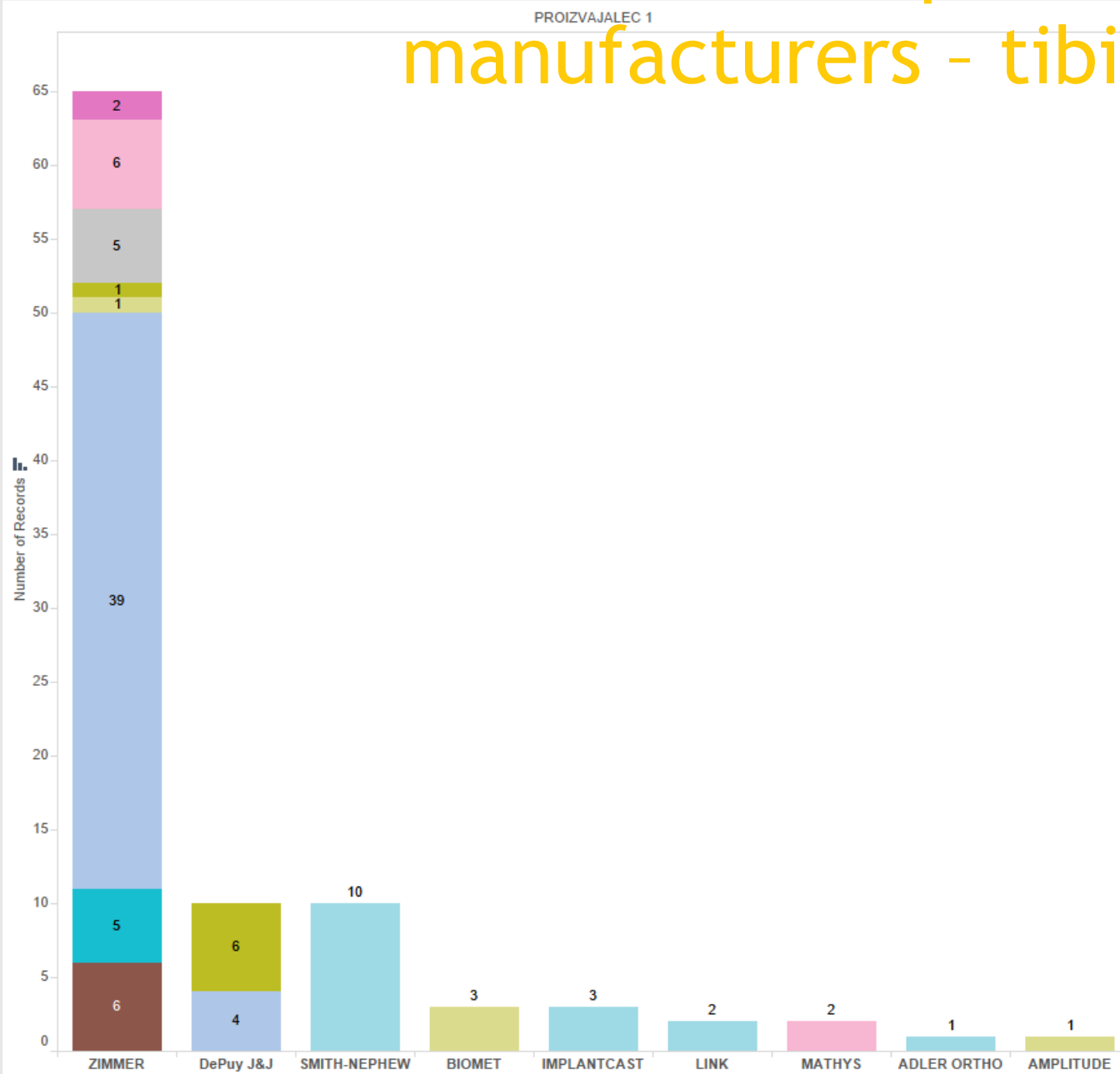
Revision KR by approach



Revision knee prosthesis by manufacturers - femoral parts



Revision knee prosthesis by manufacturers - tibial parts



% of revision and revision burden in 2019

State	N°of priamary knee replacements	Revized 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:

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