

The National Arthroplasty Registry of Slovenia (RES) 2st Annual Report - Knee Replacement (data 2020)

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The National Arthroplasty Registry of Slovenia- RES

Registry Holder: Valdoltra Orthopaedic Hospital

December 2021



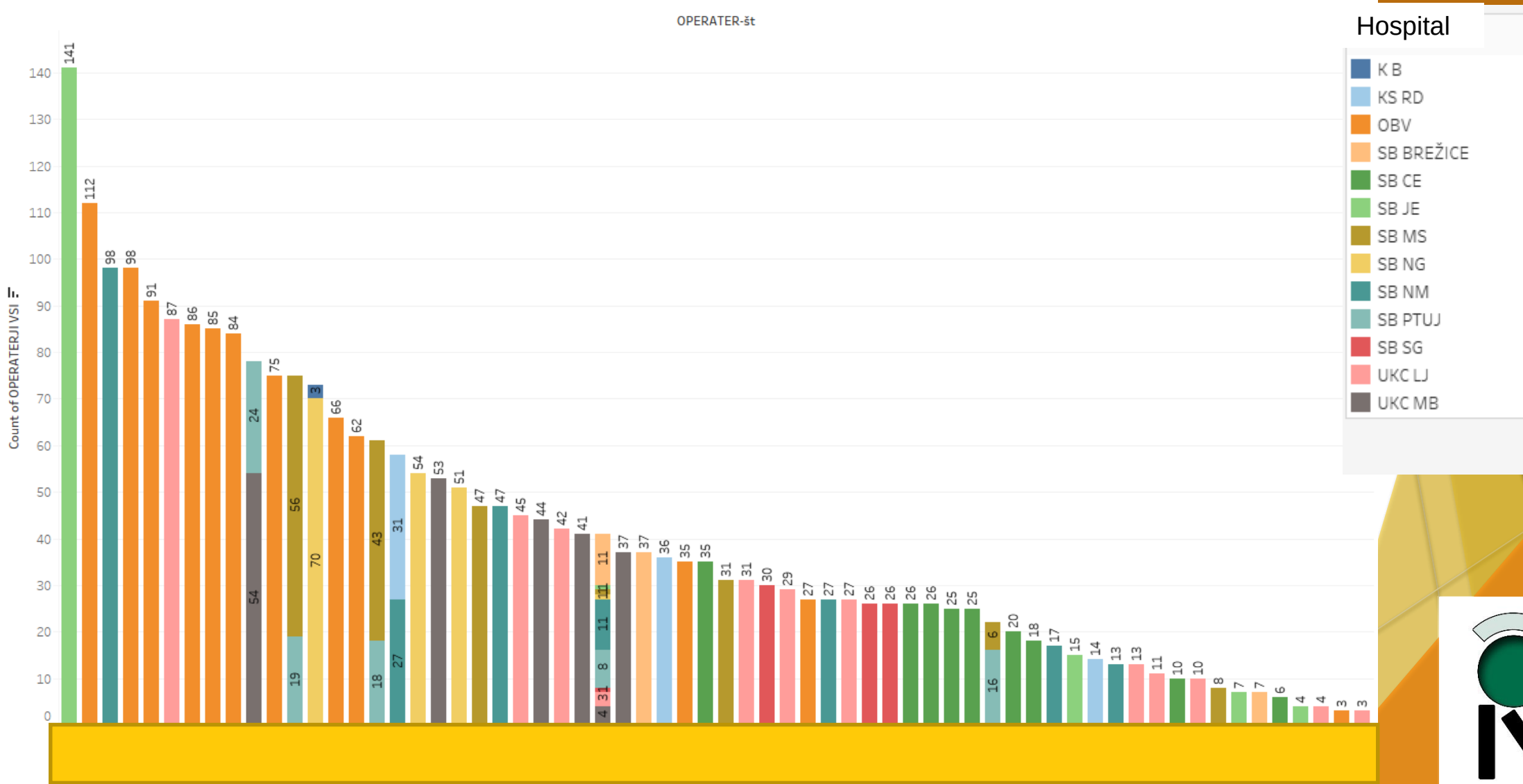
Registry completeness 2020: 99,4 % of Primary and Revision Knee Replacement in Slovenia

Year	Primary Total KR	Primary Partial KR	Revision KR	Total
2020	2192	294	157	2643

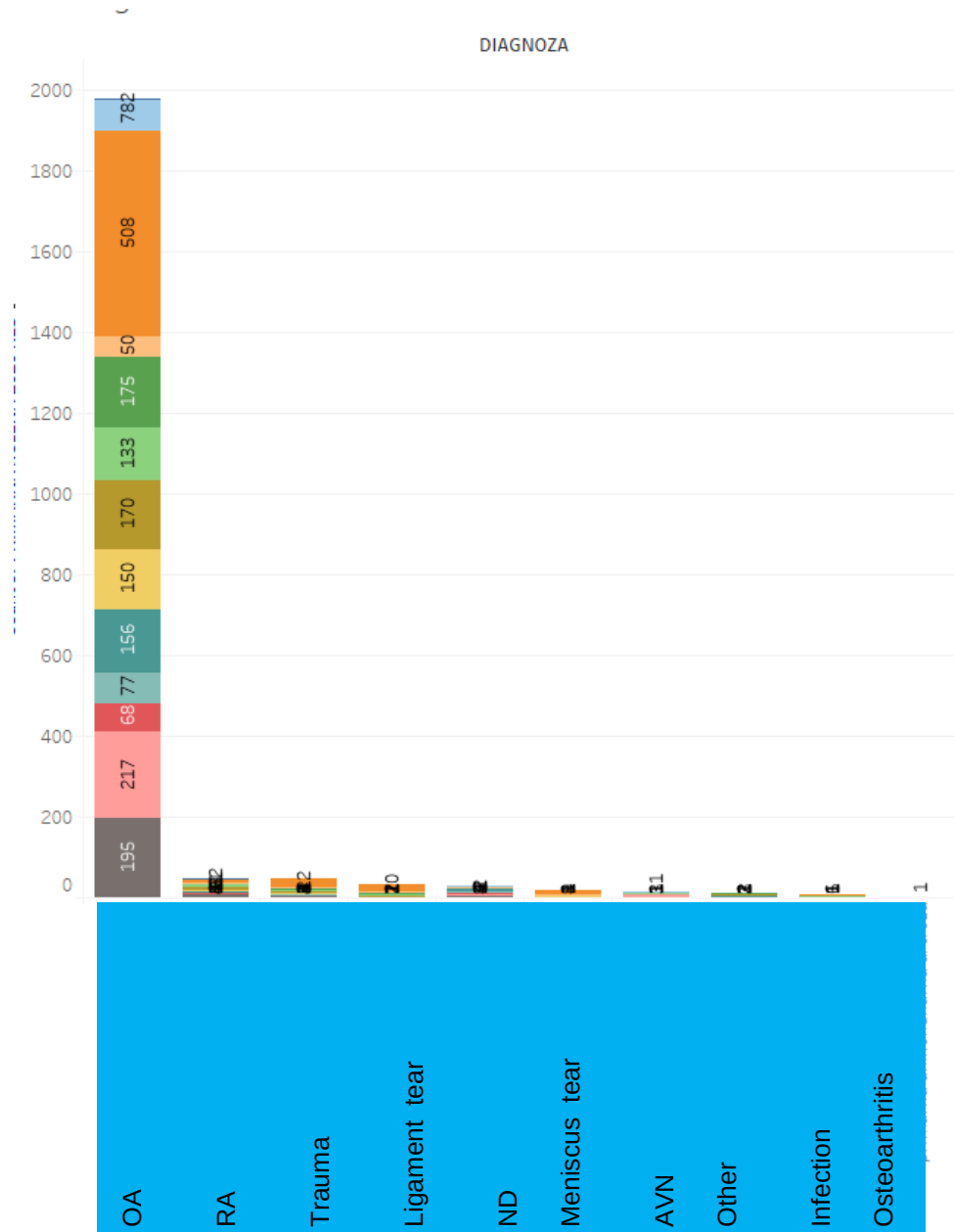
Demographic data 2020:

Surgery 2020	Average Age($\pm$ SD)	Men (%)	Women (%)	Right (%)	Left (%)
Primary TKR	70 ($\pm$ 9)	38	62	51	49
Primary Partial KR	67 ($\pm$ 9)	45	55	46	54
Revision KR	71 ($\pm$ 8)	38	62	51	49

N° of operations per surgeon 2020 (primary and revision)



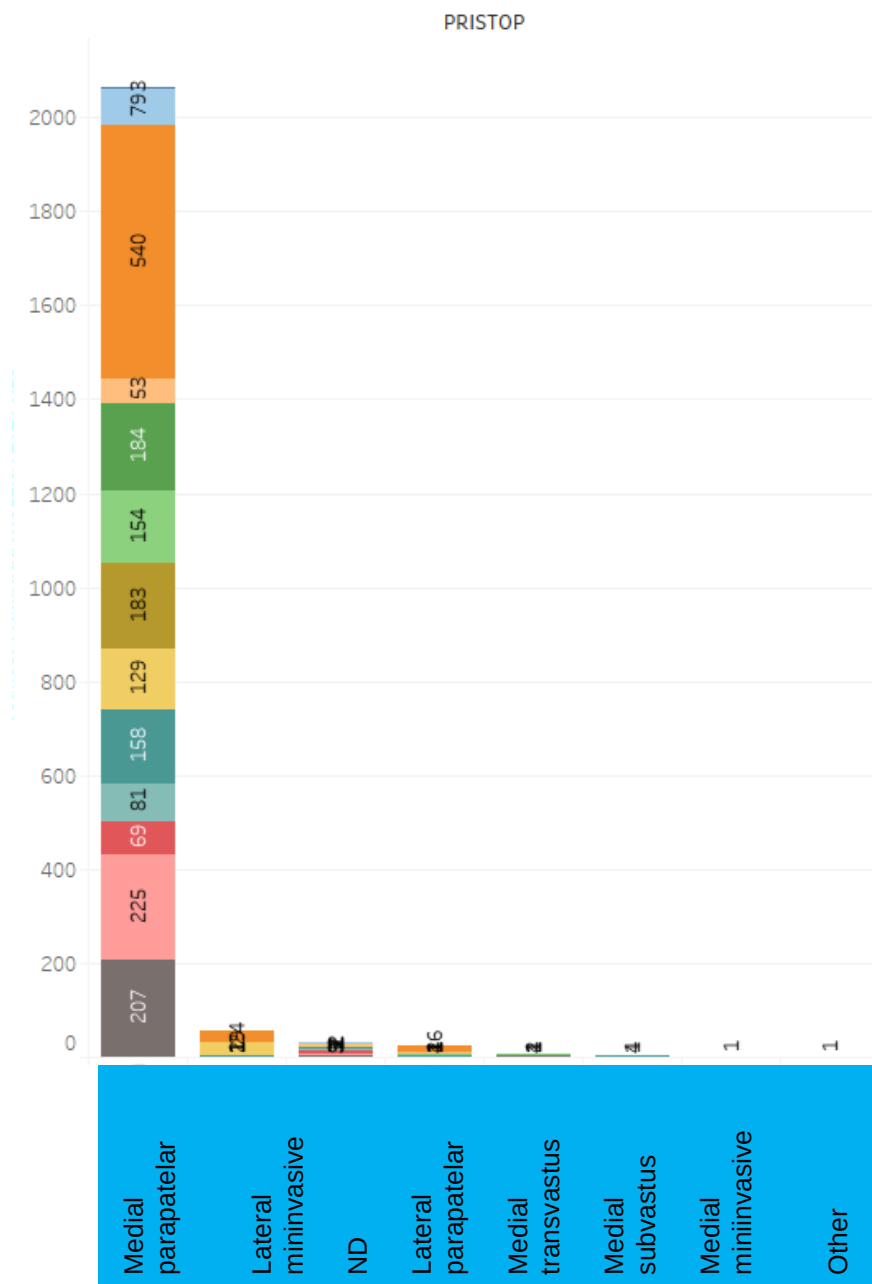
TKR 2020 by preoperative diagnoses



Hospital

- KB
- KS RD
- OBV
- SB BREŽICE
- SB CE
- SB JE
- SB MS
- SB NG
- SB NM
- SB PTUJ
- SB SG
- UKC LJ
- UKC MB

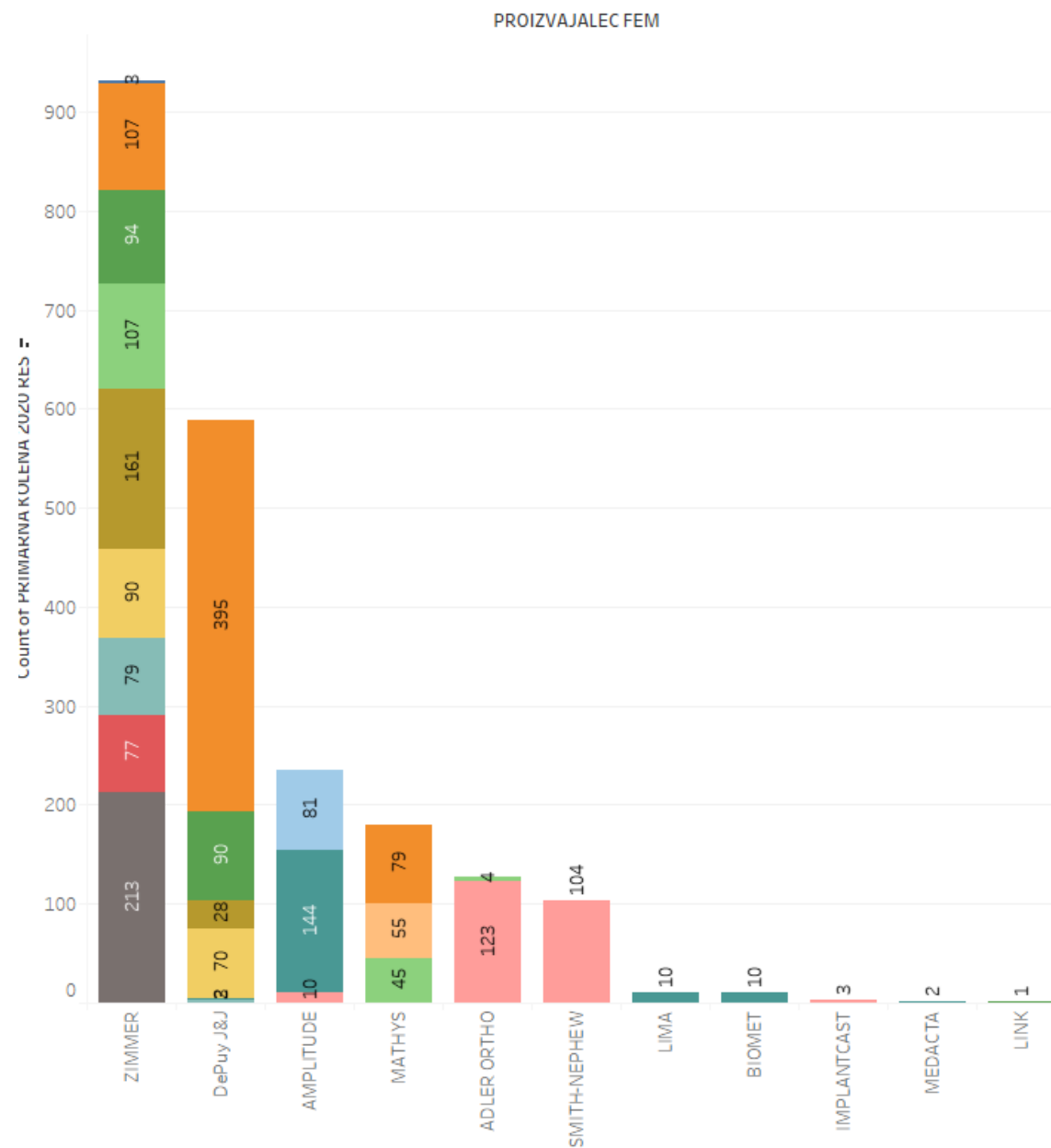
TKA 2020 approach



Hospital

- KB
- KS RD
- OBV
- SB BREŽICE
- SB CE
- SB JE
- SB MS
- SB NG
- SB NM
- SB PTUJ
- SB SG
- UKC LJ
- UKC MB

TKA 2020 by manufacturers



Hospital

- KB
- KS RD
- OBV
- SB BREŽICE
- SB CE
- SB JE
- SB MS
- SB NG
- SB NM
- SB PTUJ
- SB SG
- UKC LJ
- UKC MB

Primary 2019-20	N°	N° of revision	% of revision
ADLER ORTHO	348	9	2,59%
Genus PS-Genus FB	17	1	5,88%
cemented	17	1	5,88%
Genus-Genus FB	331	8	2,42%
cemented	331	8	2,42%
AMPLITUDE	539	4	0,74%
Score PS cem-Score MB	4		
reverse hybrid	4		
Score PS cem-Score MB cem	13		
cemented	13		
Score PS-Score MB	512	4	0,78%
uncemented	512	4	0,78%
Score PS-Score MB cem	8		
hybrid	8		
Score Revision-Score MB	1		
reverse hybrid	1		
Score Revision-Score MB cem	1		
cemented	1		
BIOMET	32	1	3,13%
Vanguard 360 Revision-Biomet 360	2		
cemented	2		
Vanguard CR-Vanguard	16		
cemented	16		
Vanguard PS-Vanguard	14	1	7,14%
cemented	14	1	7,14%

Total knee replacement 2019-20 Part 1

Total knee replacement 2019-20 Part 2

Primary 2019-20	N°	N° of revision	% of revision
DePuy J&J	1286	21	1,63%
Attune CR-Attune FB	114		
cemented	114		
Attune CR-Attune MB	2		
cemented	2		
Attune PS-Attune FB	51		
cemented	51		
Attune PS-Attune MB	3		
cemented	3		
Sigma CR-MBT Tibia	41		
cemented	41		
Sigma CR-Sigma	755	11	1,46%
cemented	755	11	1,46%
Sigma CR-Sigma PFC	83	4	4,82%
cemented	83	4	4,82%
Sigma PS-MBT Tibia	2	1	50,00%
cemented	2	1	50,00%
Sigma PS-Sigma	223	2	0,90%
cemented	223	2	0,90%
Sigma PS-Sigma PFC	9	3	33,33%
cemented	9	3	33,33%
Sigma TC3-MBT Tibia	1		
cemented	1		
Sigma TC4-MBT Tibia	1		
cemented	1		
S-ROM RH-MBT Tibia	1		
cemented	1		
IMPLANTCAST	2		
Mutars MK-Mutars MK	1		
cemented	1		
Mutars Total MK-Mutars MK	1		
hybrid	1		

Primary 2019-20	N°	N° of revision	% of revision
LIMA	15		
Physica CR-Physica FB	1		
cemented	1		
Physica KR-Physica FB	3		
cemented	3		
Physica PS-Physica FB	1		
cemented	1		
Physica-Physica FB	10		
cemented	10		
MATHYS	358	2	0,56%
BalanSys CR-BalanSys	3		
cemented	3		
BalanSys CR-BalanSys TiBN	1		
cemented	1		
BalanSys PS-BalanSys	354	2	0,56%
cemented	354	2	0,56%
MEDACTA	2		
GMK Sphere-GMK	2		
cemented	2		
SMITH-NEPHEW	252	5	1,98%
Genesis II CR Oxinium-Genesis II	15		
cemented	15		
Genesis II CR-Genesis II	122	1	0,82%
cemented	122	1	0,82%
Genesis II PS-Genesis II	98	3	3,06%
cemented	98	3	3,06%
RT-Plus-RT-Plus	17	1	5,88%
cemented	17	1	5,88%
UNITED ORTHOPEDIC CORPORATION	1		
U2 PS-U2	1		
cemented	1		

Total knee replacement 2019-20

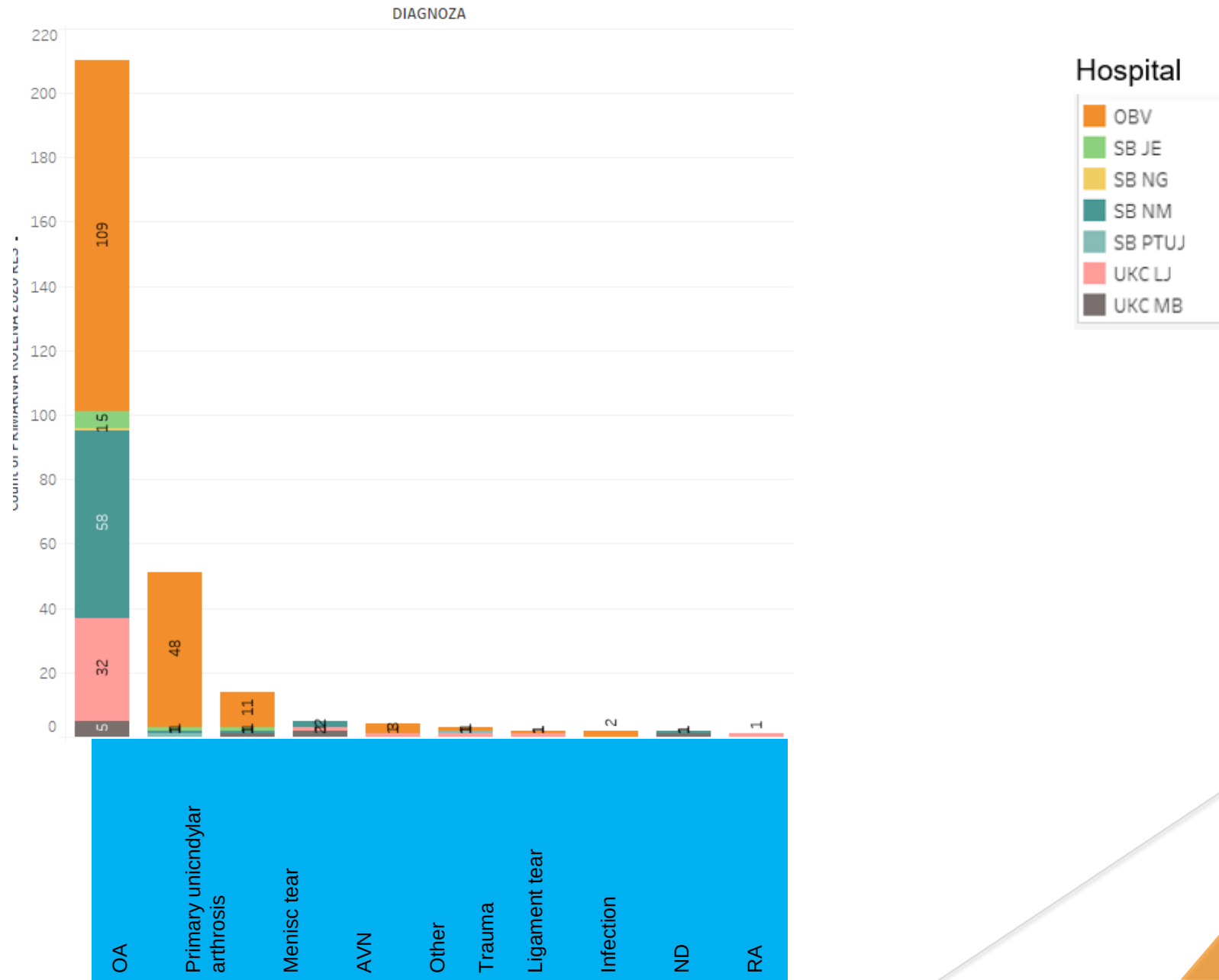
Part 3

Primary 2019-20	N°	N° of revision	% of revision
ZIMMER	2183	16	0,73%
Nexgen CR-Nexgen	138	2	1,45%
cemented	138	2	1,45%
Nexgen CR porous-Nexgen TM	174		
uncemented	174		
Nexgen CR porous-Nexgen TM FB	27	1	3,70%
uncemented	27	1	3,70%
Nexgen LCCK-Nexgen	10		
cemented	10		
Nexgen LPS Flex-Nexgen	1660	11	0,66%
cemented	1660	11	0,66%
Nexgen LPS Flex-Nexgen TM FB	9		
reverse hybrid	9		
Nexgen LPS-Nexgen	5		
hybrid	5		
Nexgen LPS-Nexgen TM FB	151	1	0,66%
uncemented	151	1	0,66%
Nexgen RH-Nexgen RH	3	1	33,33%
cemented	3	1	33,33%
Persona CR-Persona	3		
cemented	3		
Persona PS-Persona	3		
cemented	3		
Skupna vsota	5018	58	1,16%

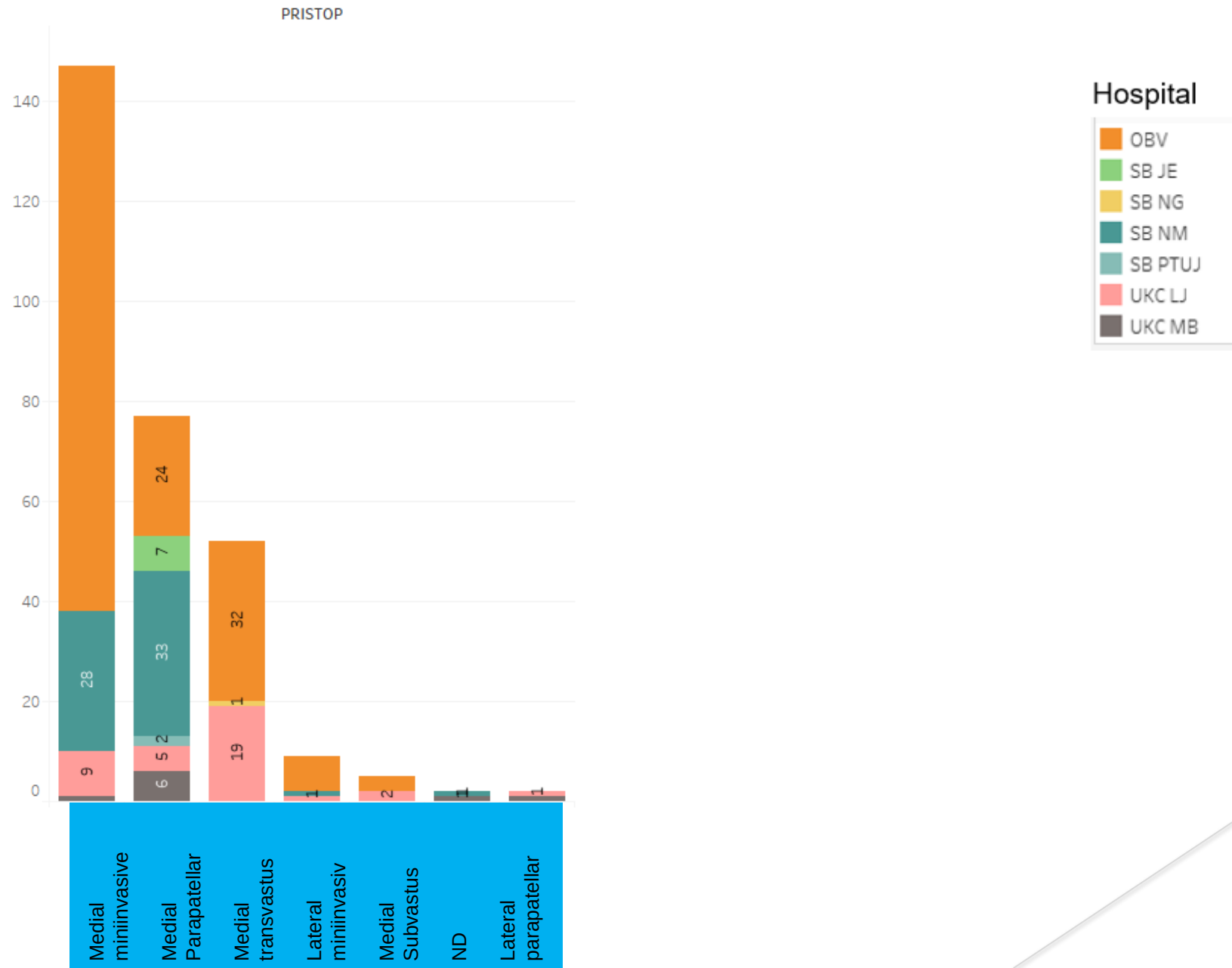
Total knee replacement 2019-20

Part 4

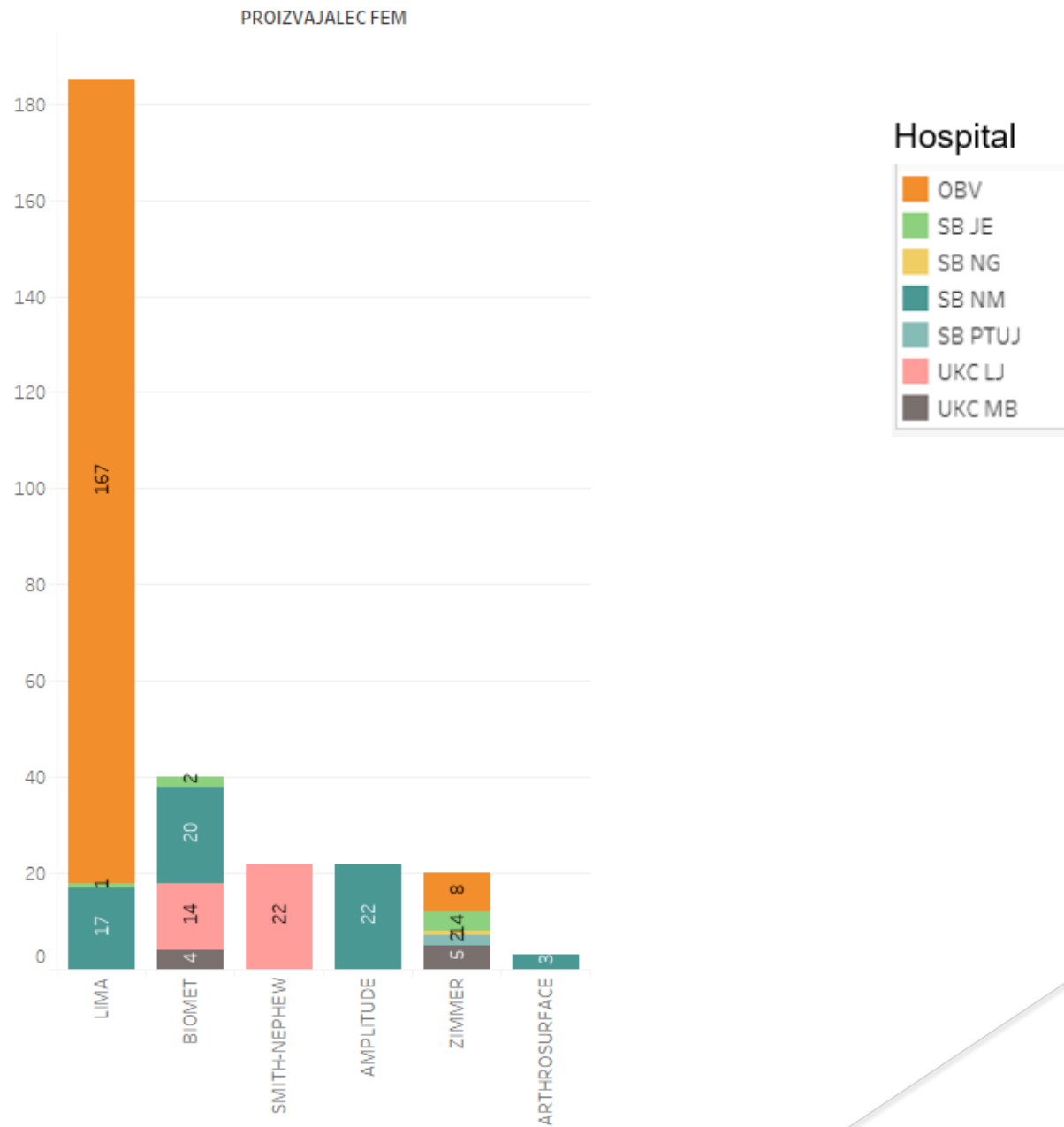
Unicondylar KR 2020 by preoperative diagnoses



Unicondylar KR 2020 by approach



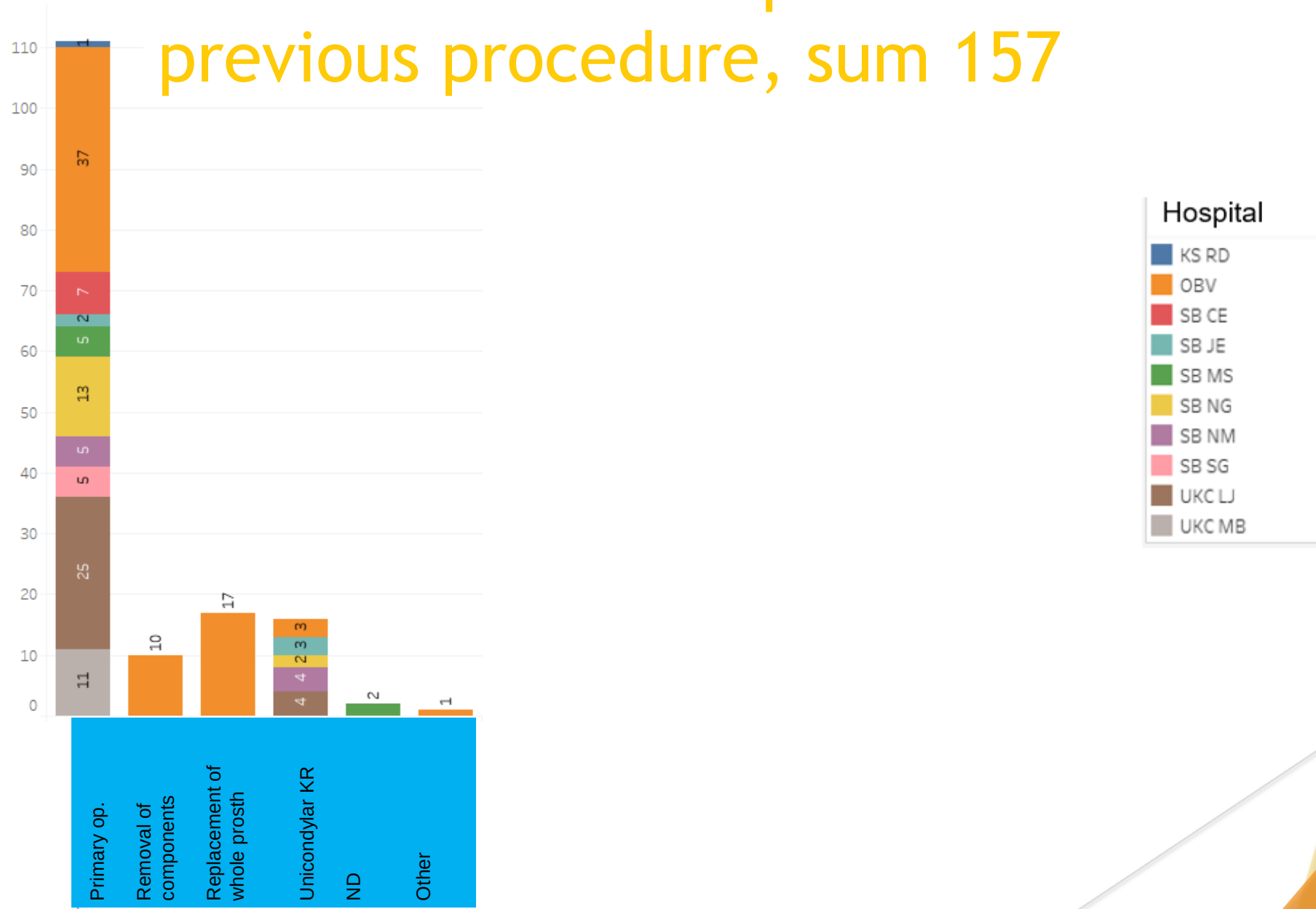
Unicondylar KR 2020 by manufacturers



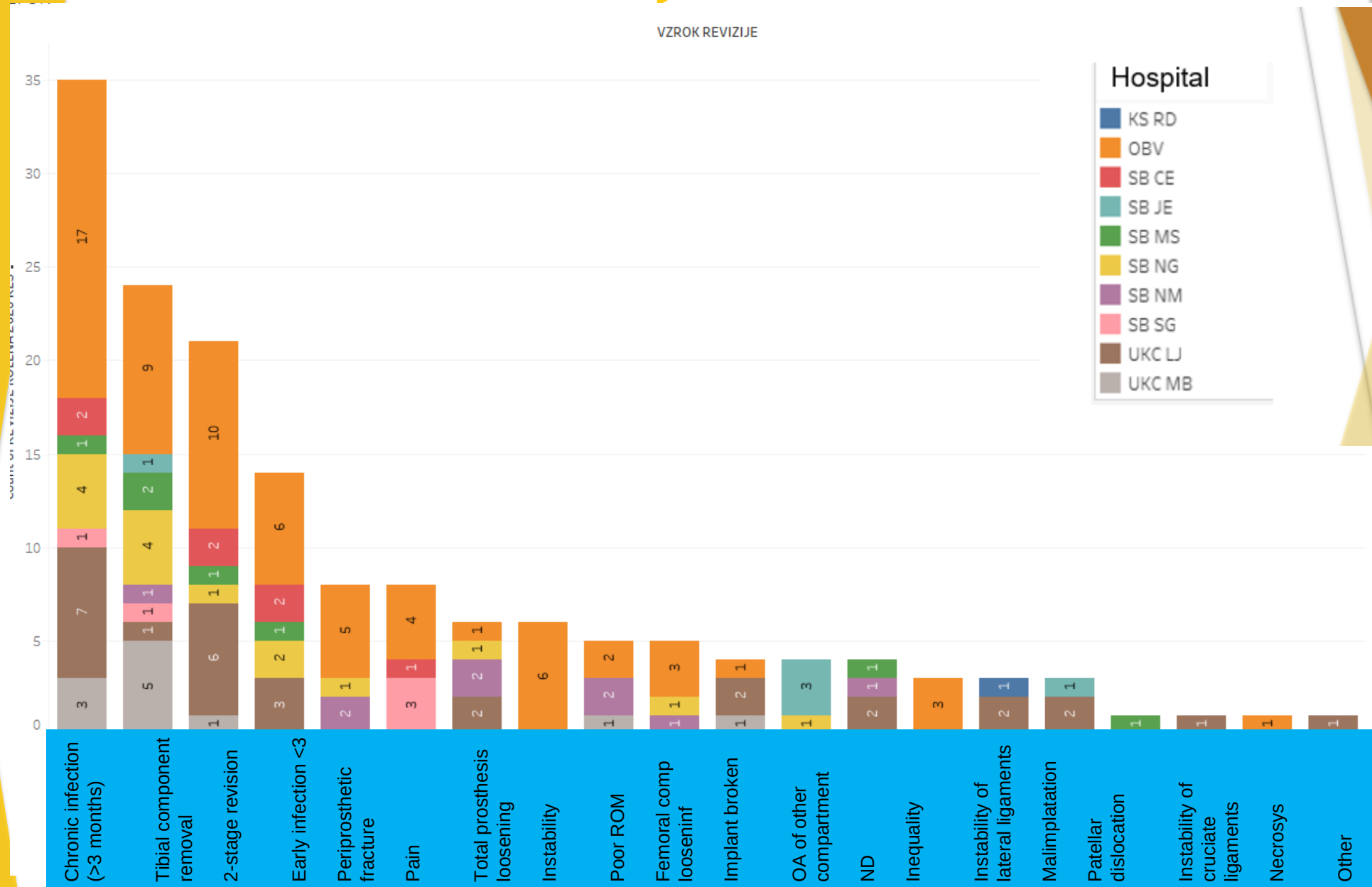
Primary 2019 -20	N°	N° of revision	% of revision
AMPLITUDE	52	2	3,85%
Anatomic PS-Uni Score FB	8		
cemented	8		
Uni Score HA-Uni Score FB	24		
hybrid	24		
Uni Score-Uni Score FB	20	2	10,00%
cemented	20	2	10,00%
ARTHROSURFACE	3		
PF Wave	3		
cemented	3		
BIOMET	94	1	1,06%
Oxford cementless-Oxford	1		
hybrid	1		
Oxford cementless-Oxford cementless	64		
uncemented	64		
Oxford-Oxford	1		
cemented	1		
Oxford-Oxford cementless	2		
reverse hybrid	2		
Persona Partial-Persona Partial	26	1	3,85%
cemented	26	1	3,85%
LIMA	407	1	0,25%
Physica ZUK-Physica ZUK	407	1	0,25%
cemented	407	1	0,25%
SMITH-NEPHEW	56		
Journey Uni Oxinium-Journey Uni	56		
cemented	56		
ZIMMER	45	1	2,22%
Patellofemoral	11		
cemented	11		
Physica ZUK-Physica ZUK	34	1	2,94%
cemented	34	1	2,94%
Skupna vsota	657	5	0,76%

Unicondylar knee prostheses 2019-20

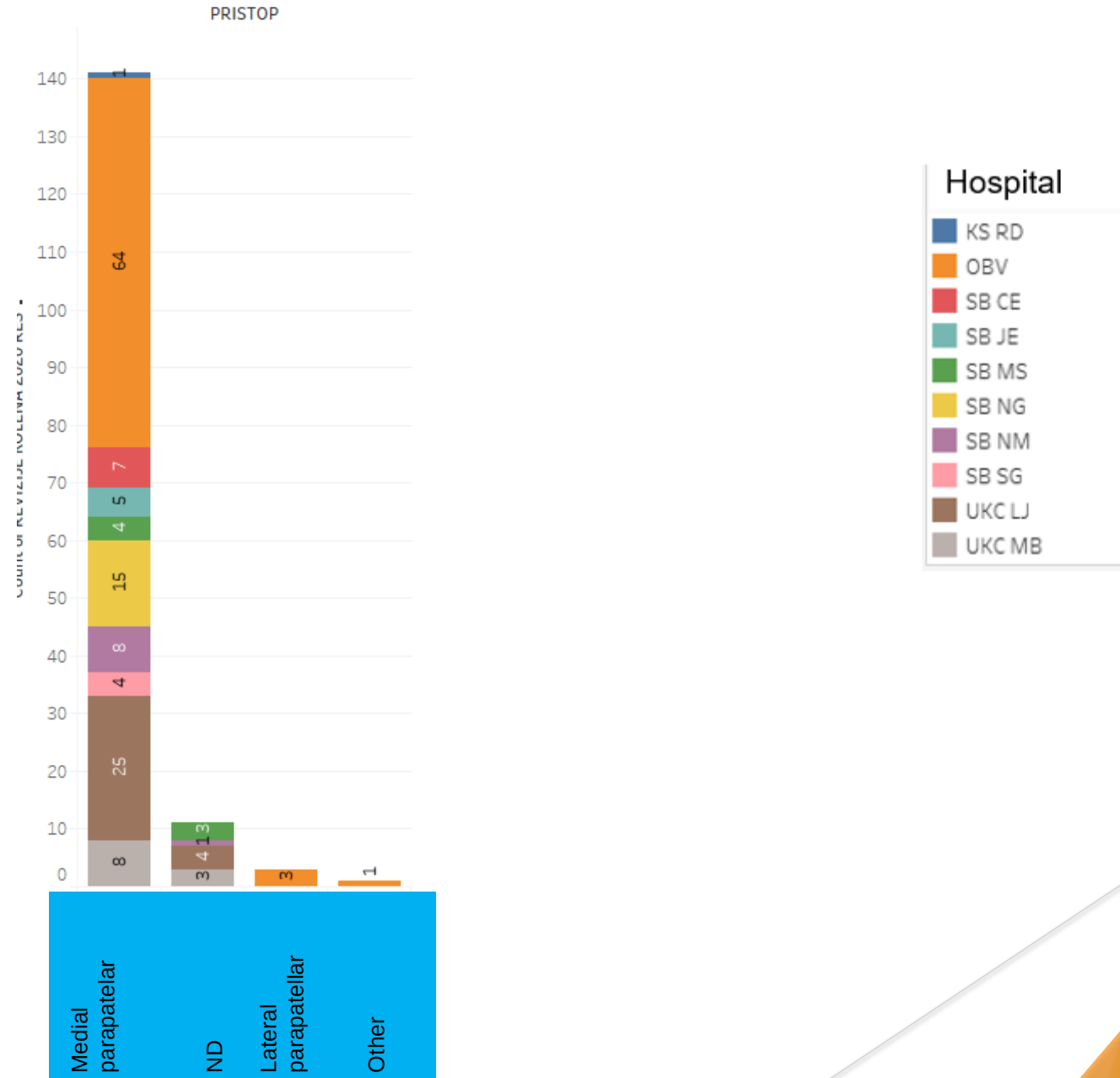
Revisions of knee replacements 2020 by previous procedure, sum 157



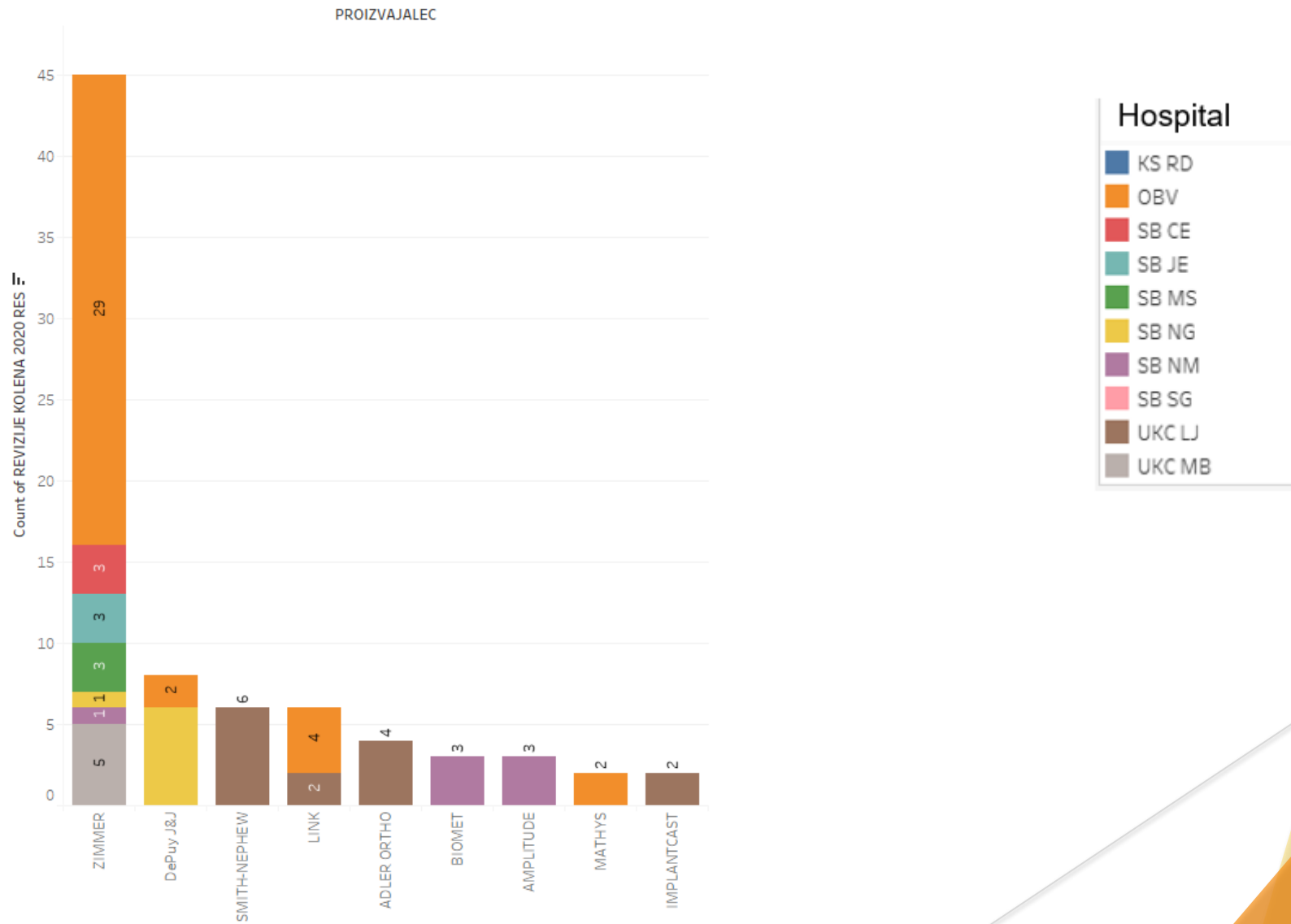
Revision KR 2020 by reason for revision



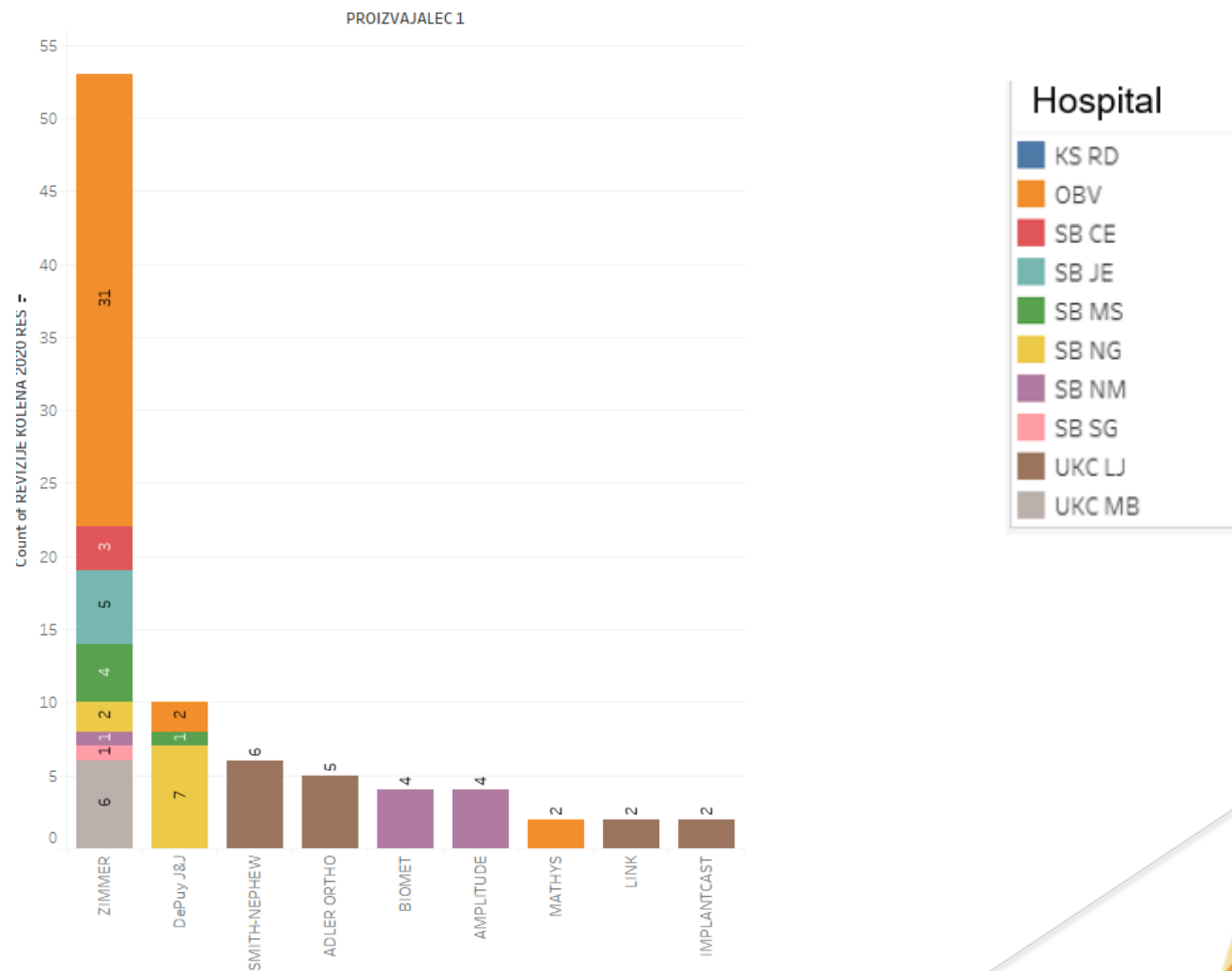
Revision KR 2020 by approach



Revision KR 2020 by manufacturers - femoral parts



Revision KR 2020 by manufacturers - tibial parts



% of revision and revision burden in 2020

State	N° of primary knee replacements	Revised knee replacements [#]	N% and revision burden of all revisions in 2020 *
Slovenija	2486	23 (0,7%)	157 (6,5%)

[#] % of revisions = $\text{N}^\circ \text{ of revisions in this year} \times 100 / \text{N}^\circ \text{ of primaries in the same year}$

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

THANK YOU!

Citation:

Levašič V, Savarin D, Kovač S. The National Arthroplasty Registry of Slovenia (RES) [Internet]. Orthopaedic Hospital Valdoltra. [cited 2021 Dec 2]. Available from: <https://www.ob-valdoltra.si/sl/international>