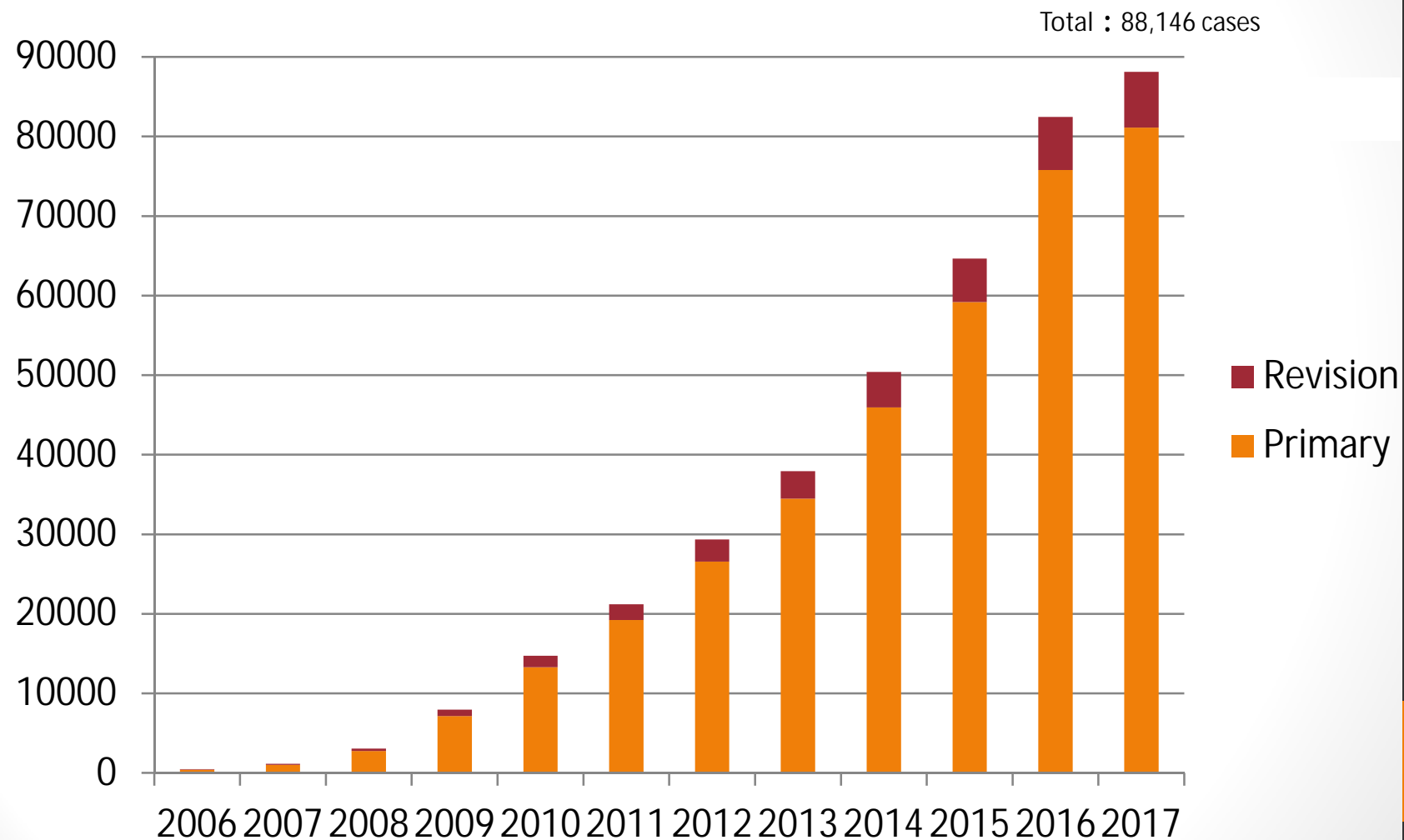


2016 ANNUAL REPORTS (THA)

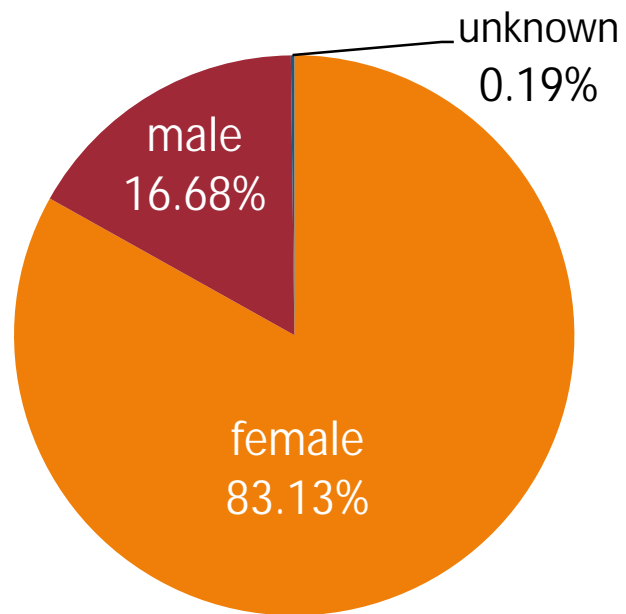
The Japanese Society For Replacement Arthroplasty
The Japan Arthroplasty Register

Number of Registrations

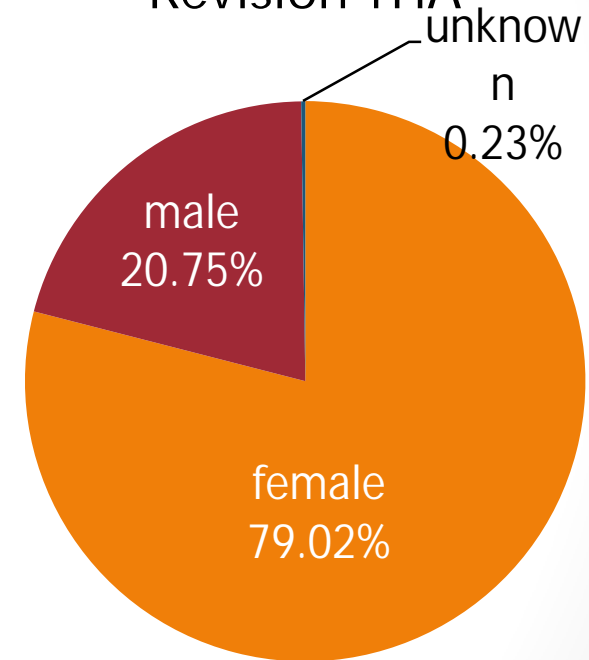


Gender

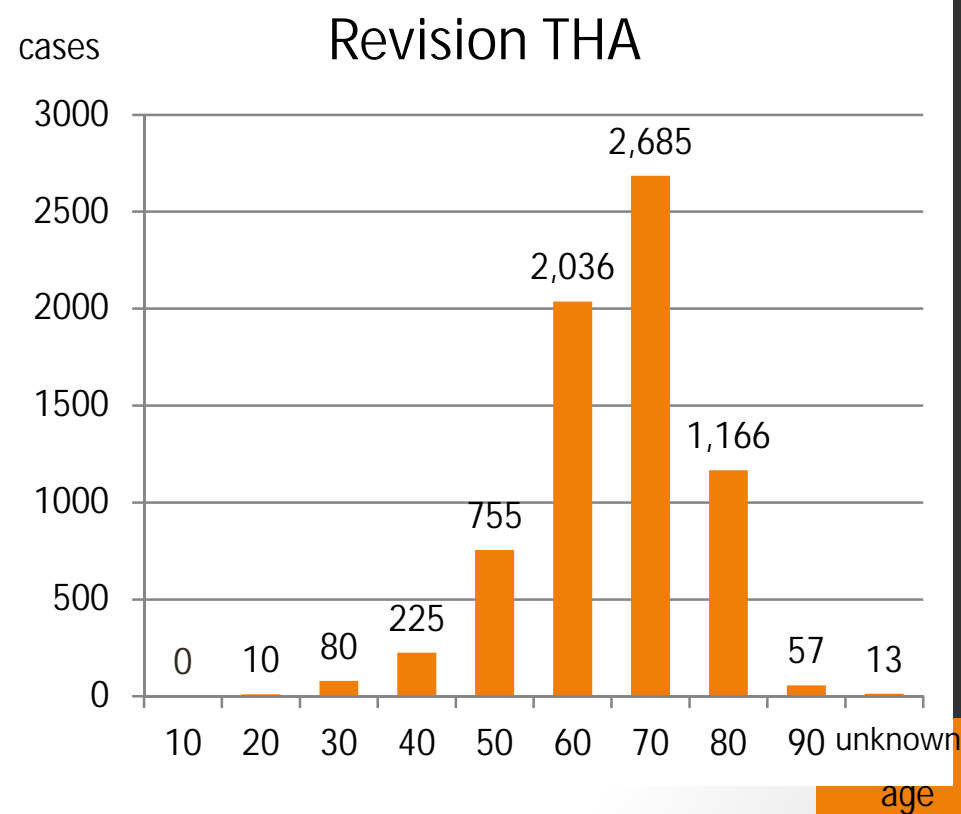
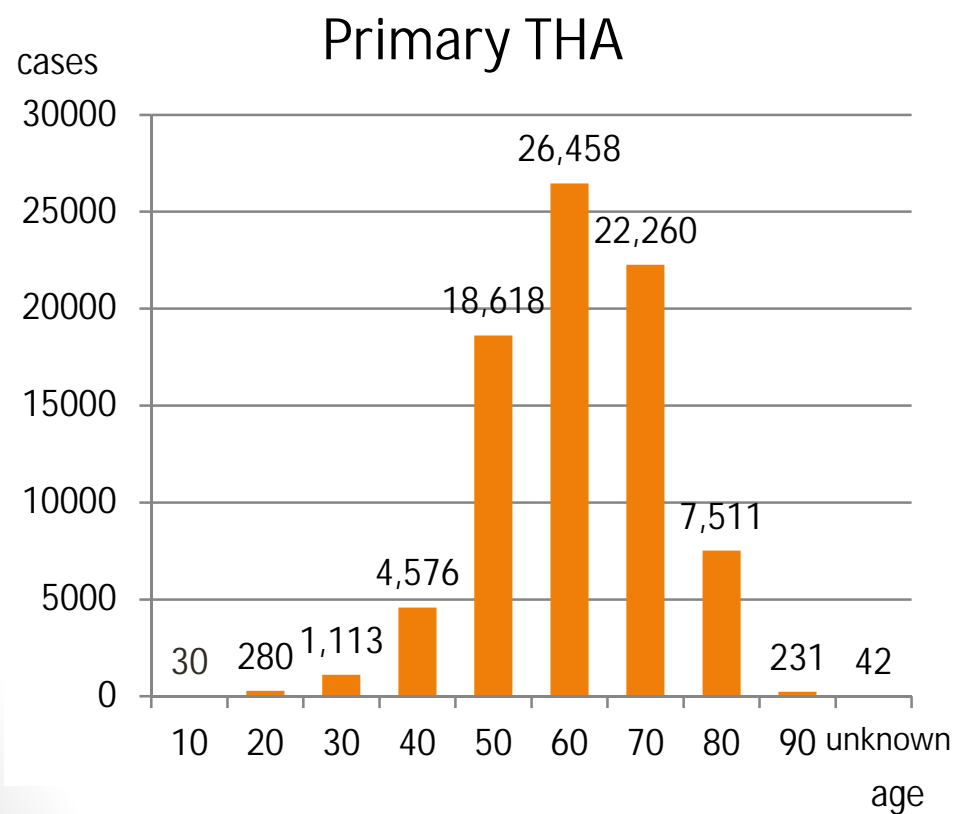
Primary THA



Revision THA

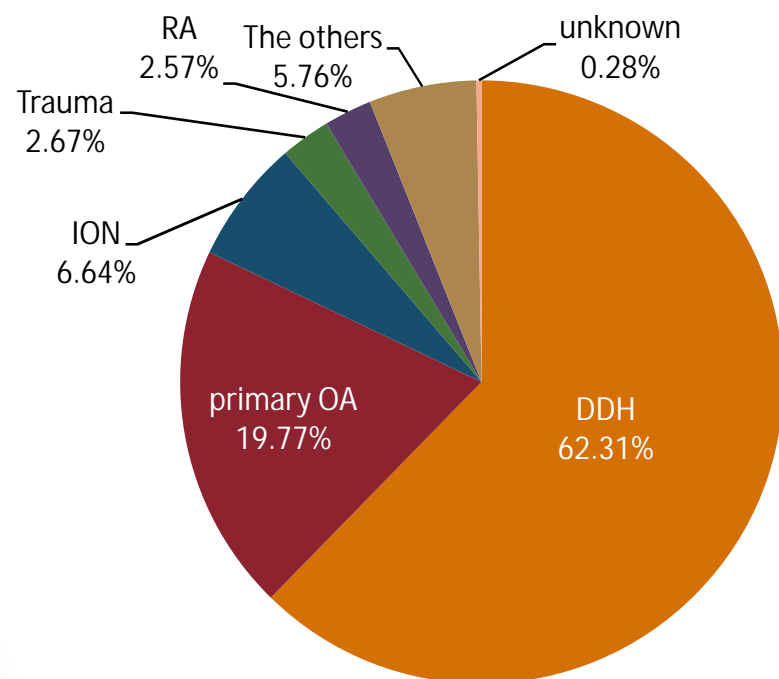


Age distribution

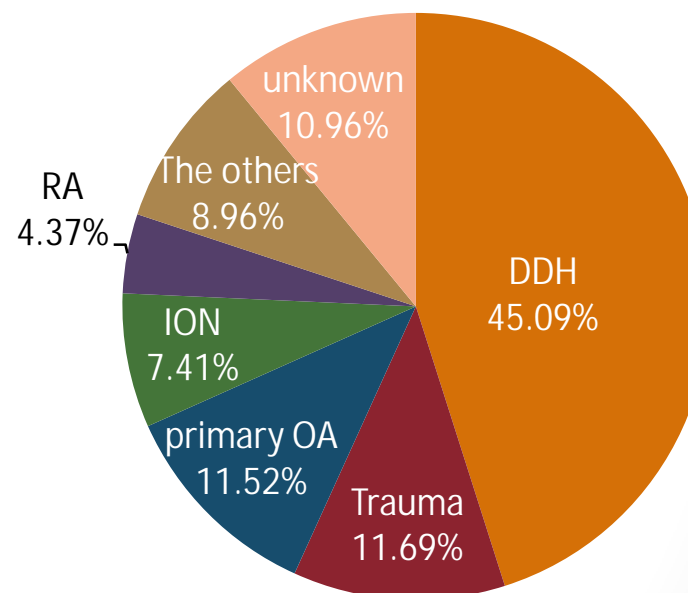


Initial diagnosis

Primary THA

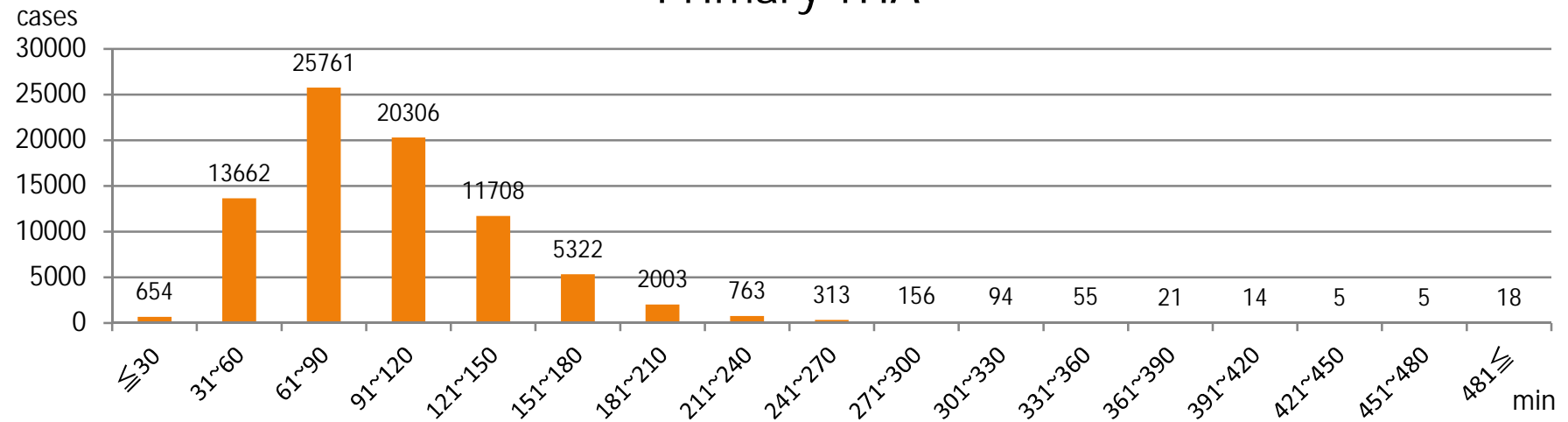


Revision THA

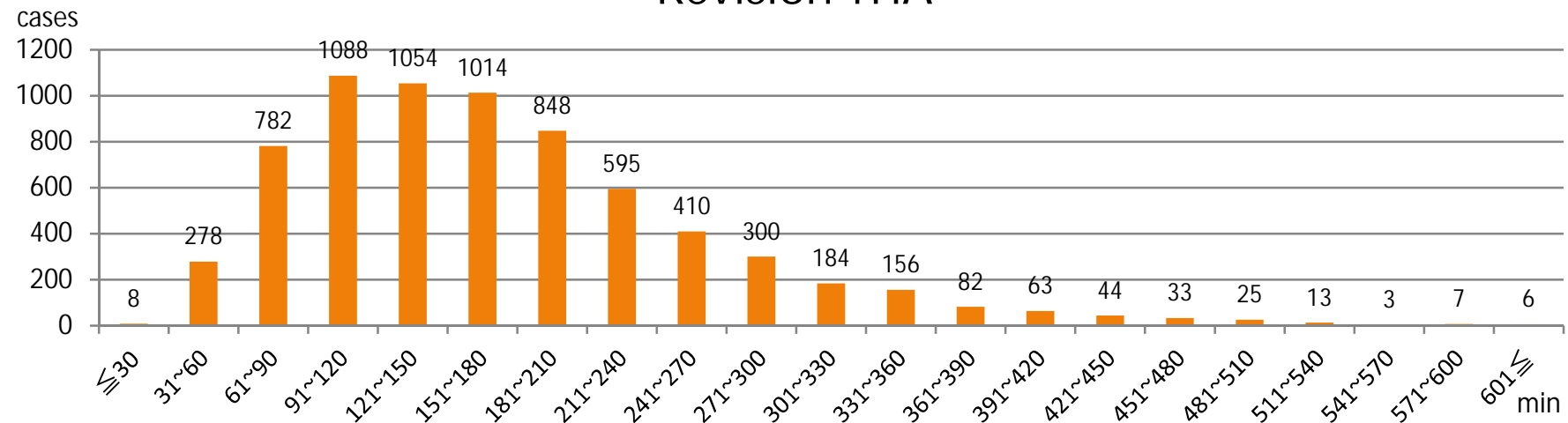


Operation time

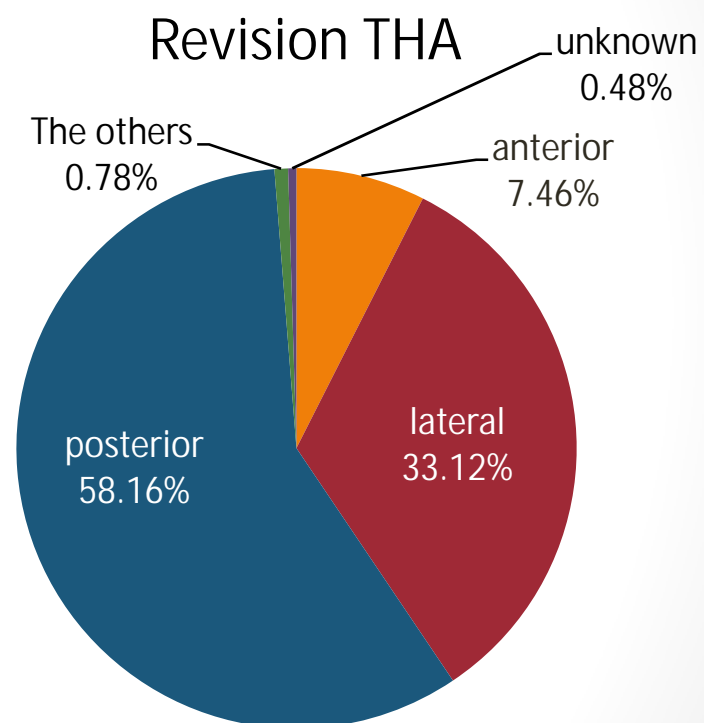
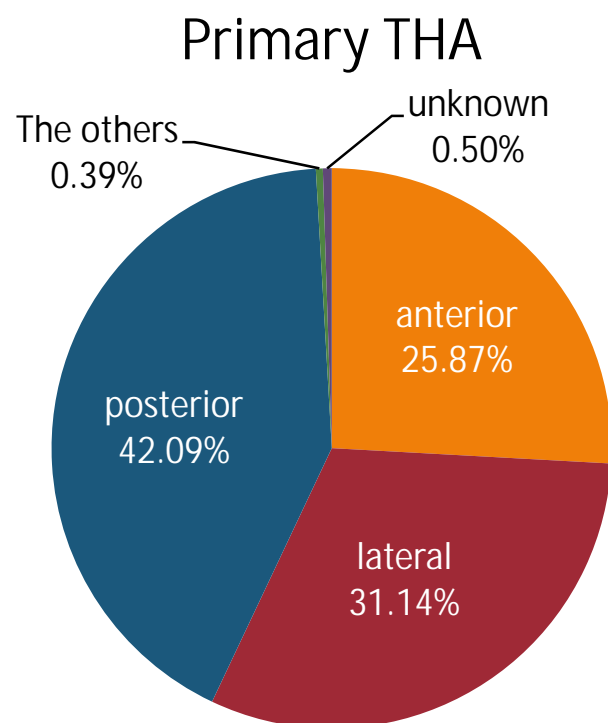
Primary THA



Revision THA

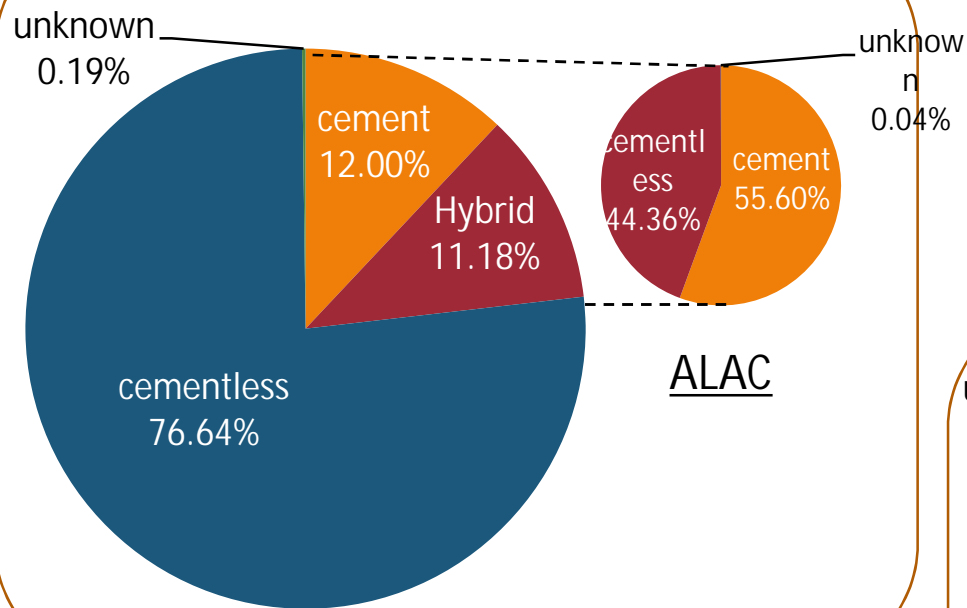


Approach

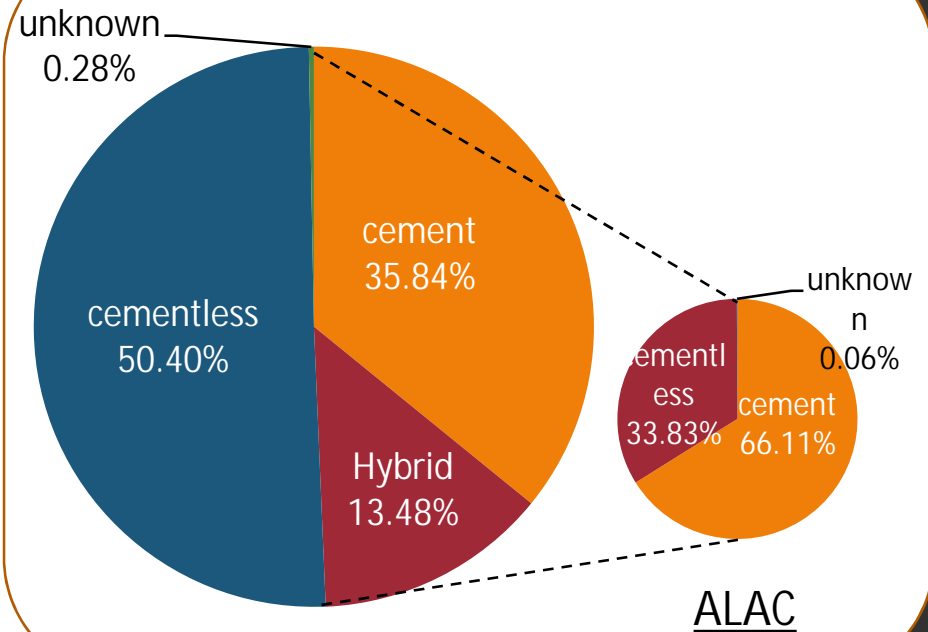


Cement/Cementless

Primary THA



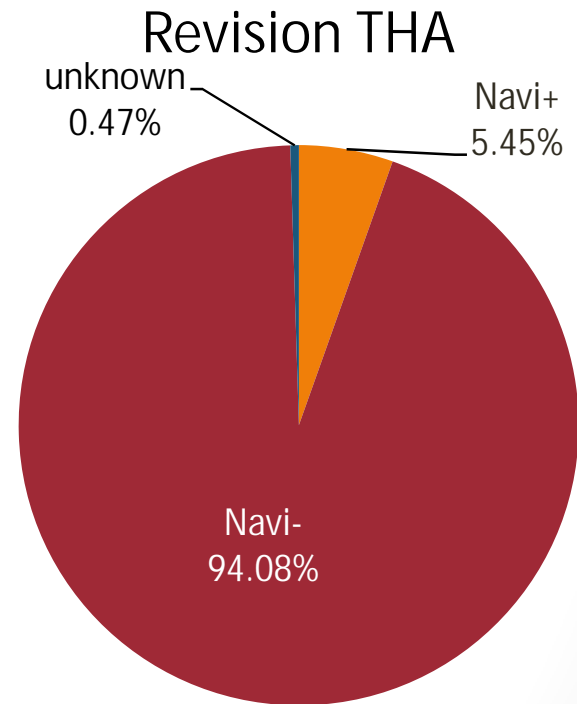
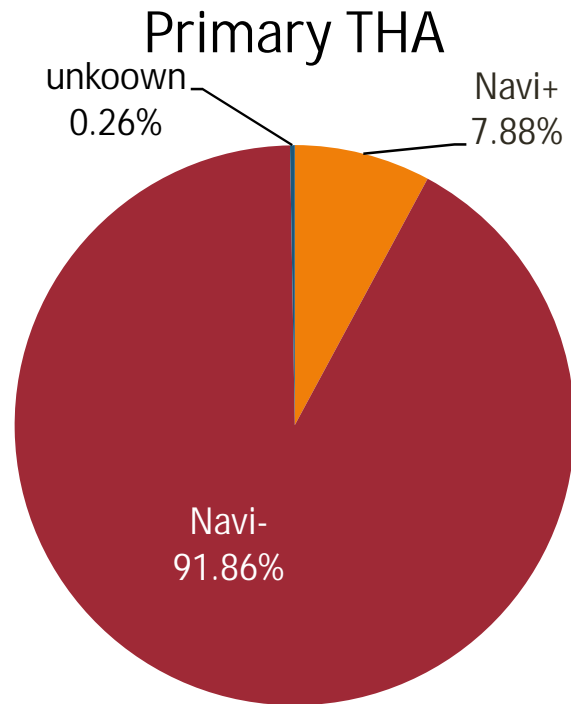
Revision THA



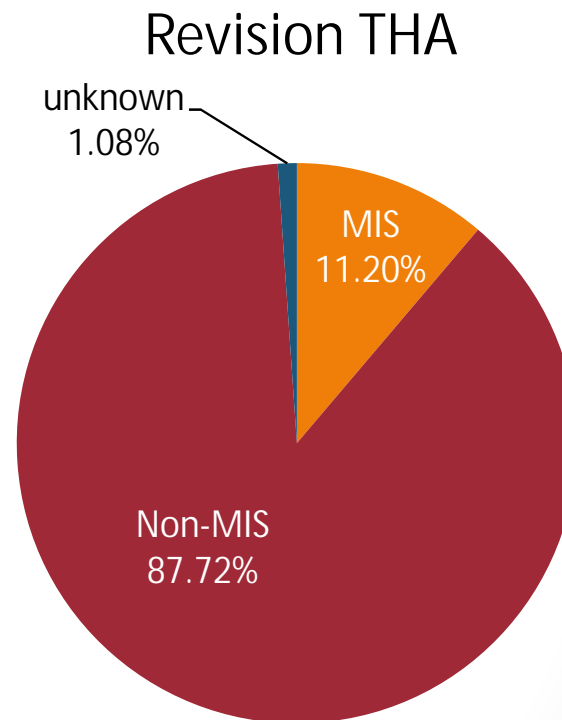
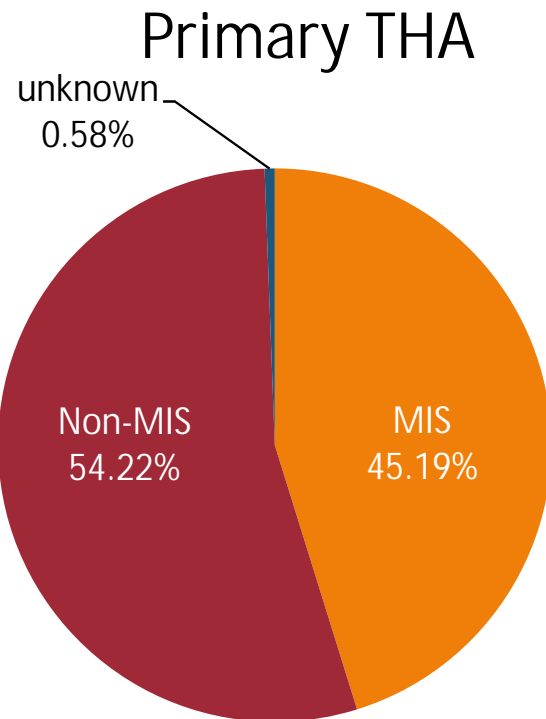
Bone grafting

	Primary	Revision
none	62.15%	44.69%
chip, small autograft (acetabulum)	24.73%	4.69%
chip, small autograft (acetabulum+femur)	2.32%	0.57%
chip, small autograft (femur)	2.21%	2.06%
chip, small allograft (acetabulum)	0.23%	5.39%
chip, small allograft (acetabulum+femur)	0.03%	1.40%
chip, small allograft (femur)	0.05%	3.69%
block, large autograft (acetabulum)	6.94%	2.38%
block, large autograft (acetabulum+femur)	0.62%	0.74%
block, large autograft (femur)	0.22%	0.70%
block, large allograft (acetabulum)	0.38%	19.43%
block, large allograft (acetabulum+femur)	0.07%	8.62%
block, large allograft (femur)	0.03%	5.64%

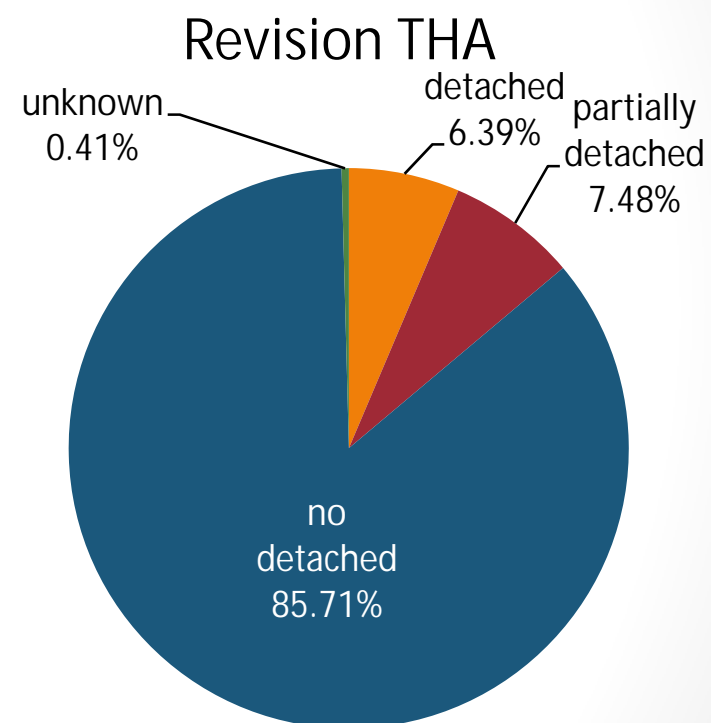
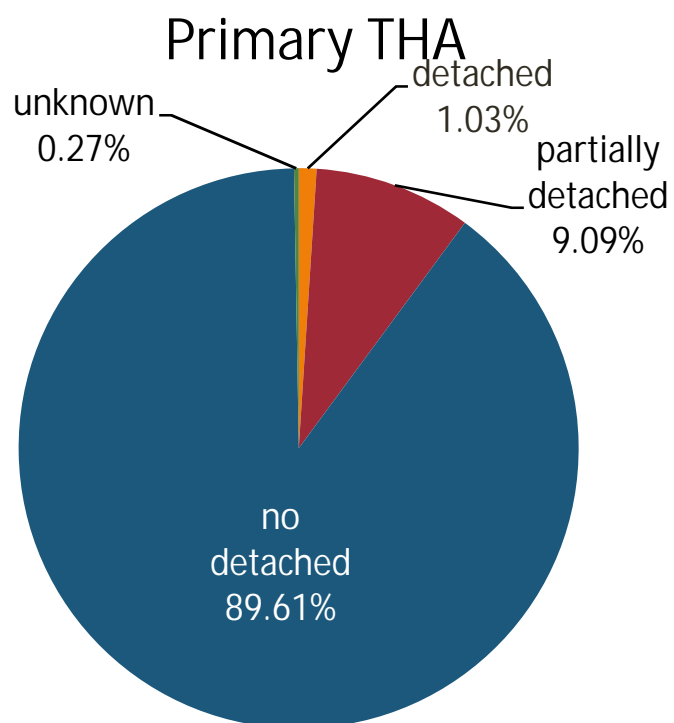
Navigation



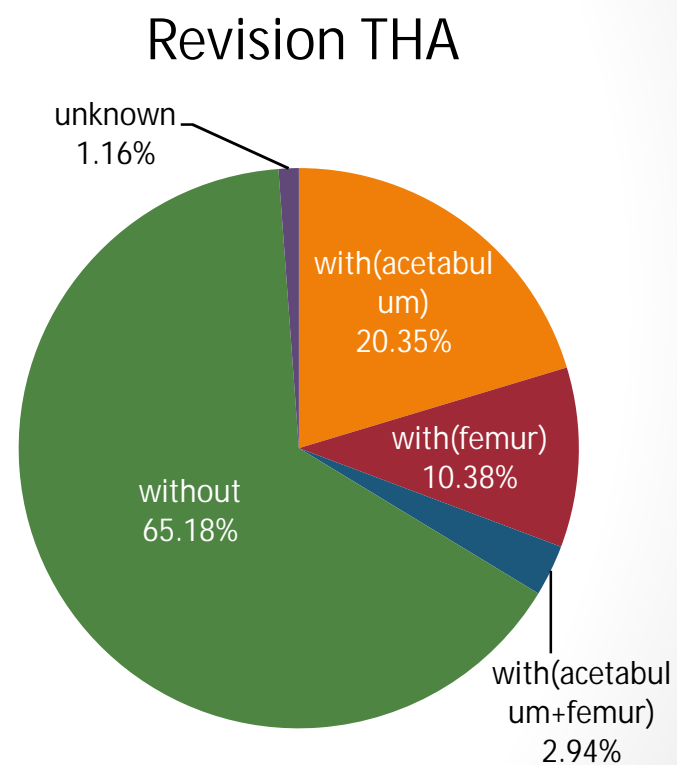
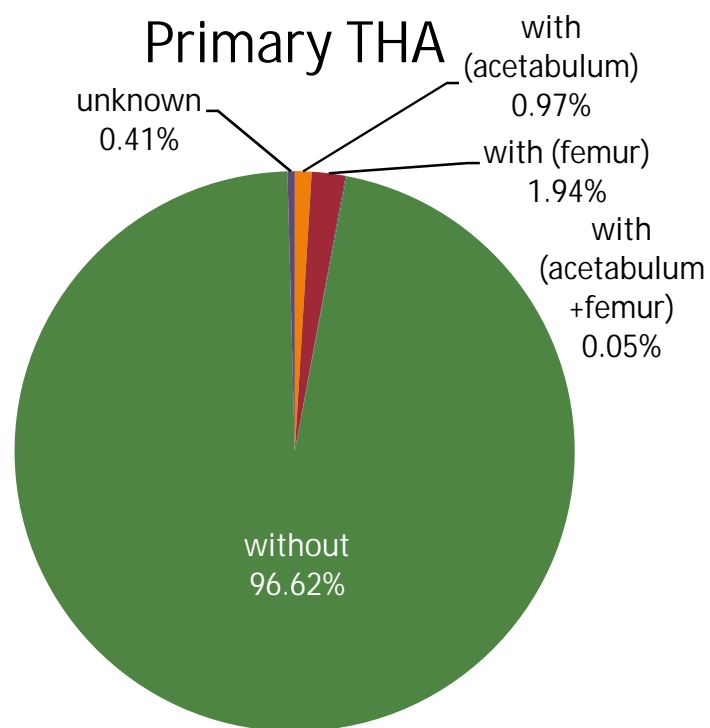
MIS



Greater trochanter



Augment materials

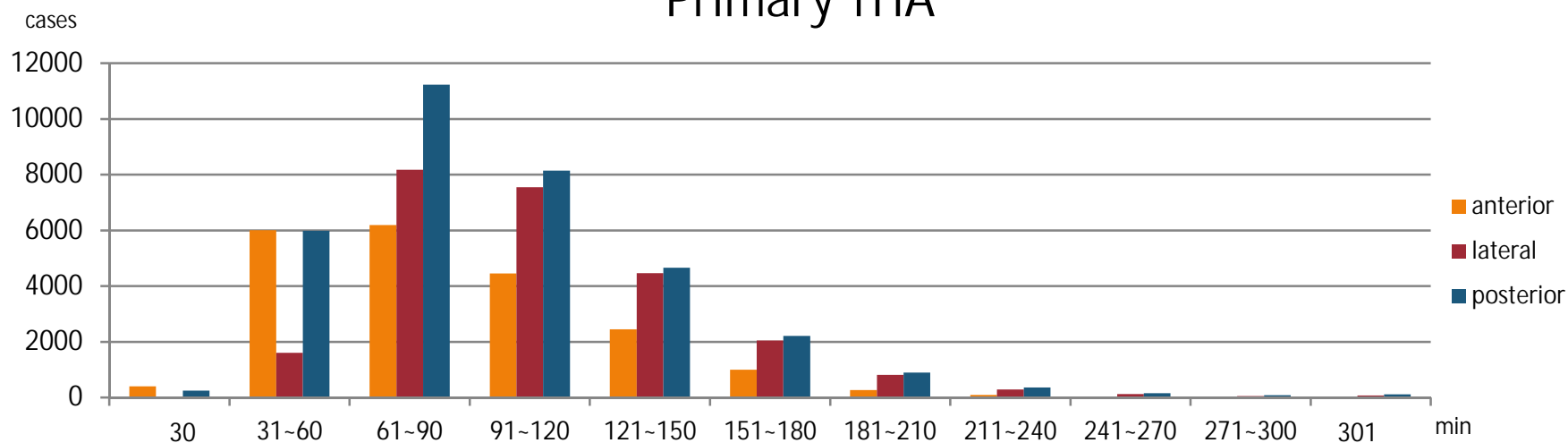


Causes of revision THA

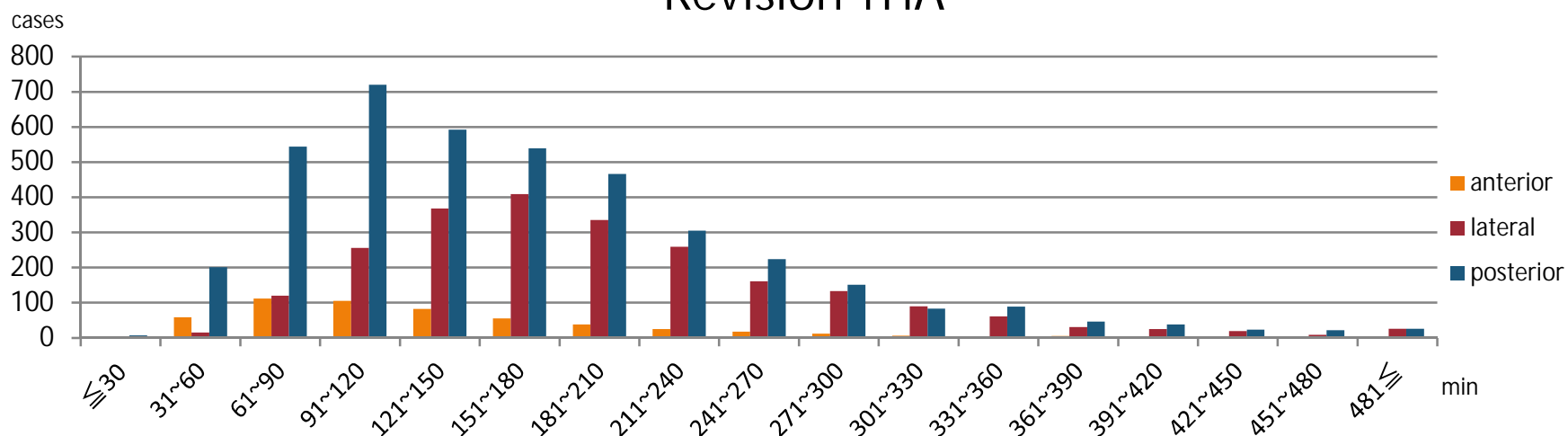
	n=7027 Multiple answers allowed
Aseptic loosening (acetabulum)	2283
Aseptic loosening (femur)	1427
Infection	1126
Polyethylene wear	826
Osteolysis (acetabulum)	881
Osteolysis (femur)	576
Implant breakage (acetabulum)	434
Implant breakage (femur)	93
Fracture (acetabulum)	71
Fracture (femur)	359
Dislocation • instability	884
The others	688

Operation time and approach

Primary THA



Revision THA



Approach and Cement/Cementless

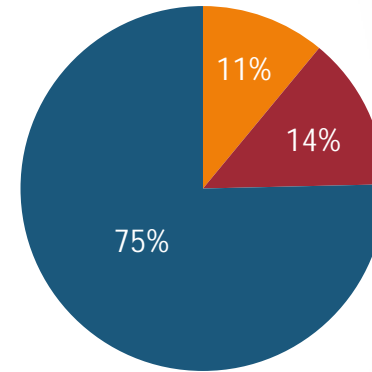
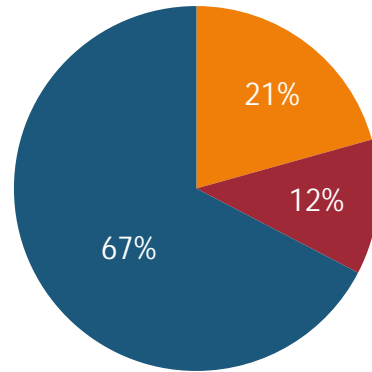
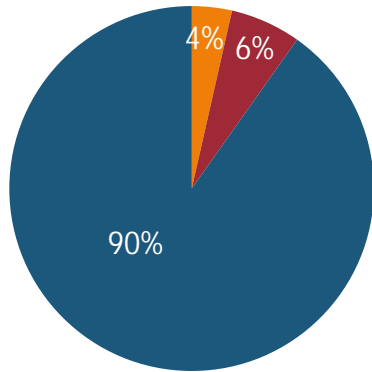


anterior

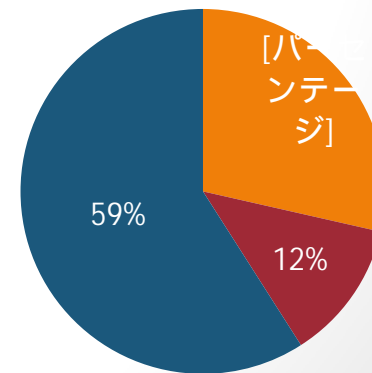
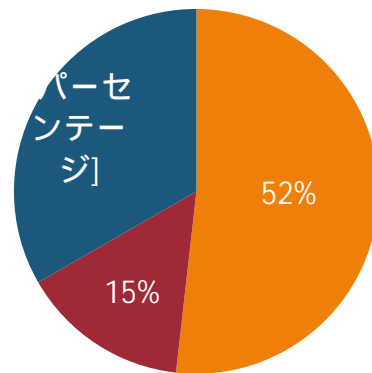
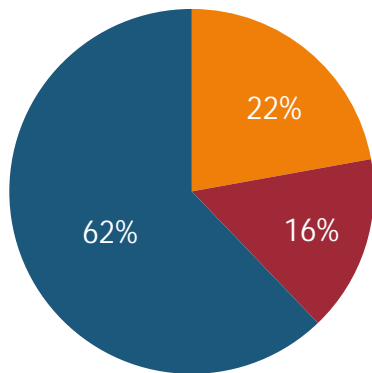
lateral

posterior

Primary THA

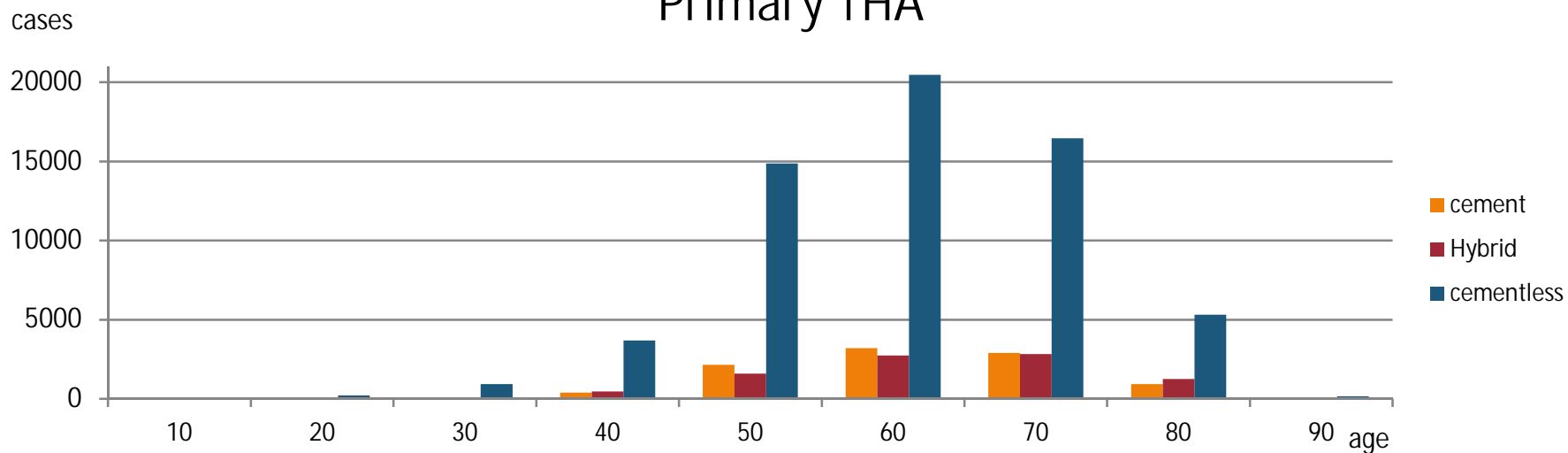


Revision THA

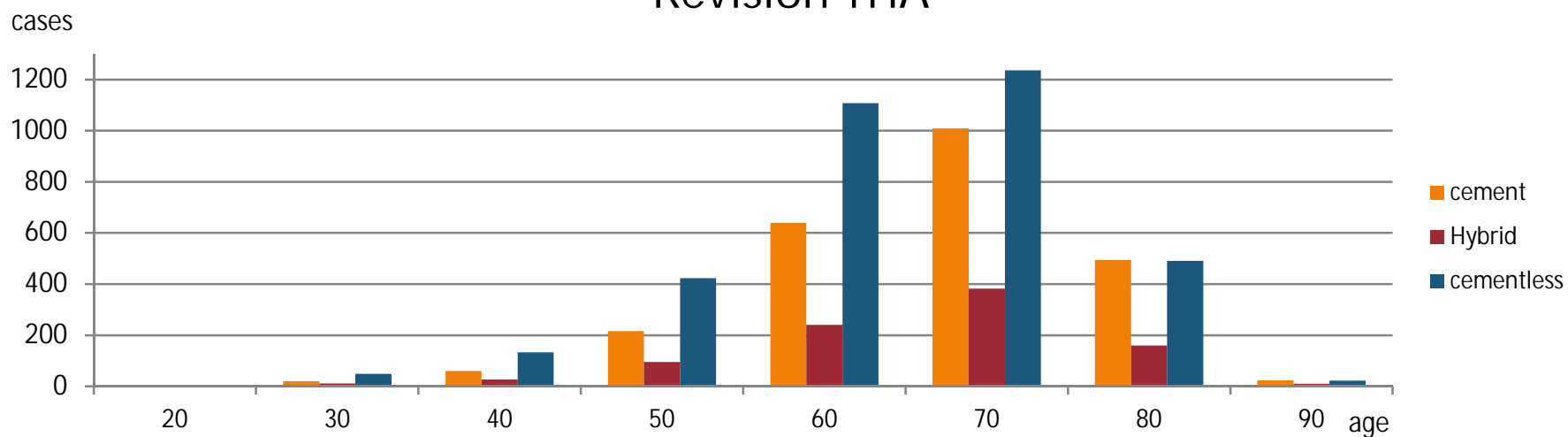


Ages and Cement/Cementless

Primary THA



Revision THA



Implant companies –acetabular component-

Primary

Target operation : 80972 cases

Maker ' s name	
Zimmer Biomet	31.53%
Kyocera	28.23%
Stryker	16.50%
Depuy Synthes	7.78%
Smith & Nephew	5.54%
B.Braun Aesculap	5.21%
MicroPort Orthopedics	1.55%
Teijin Nakashima Medical	1.38%
Lima	0.51%
ORTHODYNAMICS	0.47%
ORTHO DEVELOPMENT	0.31%
Finsbury Orthopaedics	0.29%
Corin	0.16%
ADLER ORTHO	0.16%
ESKA IMPLANTS	0.15%
Medacta	0.10%

Revision

Target operation : 5004 cases

Maker ' s name	
Kyocera	35.77%
Zimmer Biomet	27.92%
Stryker	26.18%
Depuy Synthes	3.90%
Smith & Nephew	2.98%
B.Braun Aesculap	0.78%
Teijin Nakashima Medical	0.72%
MicroPort Orthopedics	0.66%
Lima	0.44%
StelKast	0.20%
Mizuho	0.18%

Implant companies –femoral stem-

Primary

Target operation : 80714 cases

Maker ' s name	
Zimmer Biomet	27.13%
Kyocera	23.75%
Stryker	16.16%
Depuy Synthes	11.22%
Smith & Nephew	7.81%
B.Braun Aesculap	5.80%
MicroPort Orthopedics	2.93%
Lima	1.54%
Teijin Nakashima Medical	1.14%
MATHYS	0.53%
ORTHO DEVELOPMENT	0.38%
Aimedic	0.35%
ADLER ORTHO	0.33%
Medacta	0.25%
Corin	0.25%
Plus Orthopedics	0.16%
Senko Medical Instrument Mfg (Mera)	0.10%

Revision

Target operation : 3845 cases

Maker ' s name	
Stryker	28.04%
Kyocera	26.89%
Zimmer Biomet	17.61%
Depuy Synthes	10.22%
MicroPort Orthopedics	5.38%
Lima	4.24%
Smith & Nephew	3.51%
Teijin Nakashima Medical	1.53%
B.Braun Aesculap	1.09%
Waldemar LINK	0.62%
ADLER ORTHO	0.29%
PETER BREHM	0.16%
Aimedic	0.10%
Plus Orthopedics	0.10%

Femoral stem implants

Primary

Target operation : 80720 cases

Maker ' s name	Product name	
Kyocera	PHYSIO-HIP SYSTEM	8.95%
Stryker	Accolade	8.17%
Kyocera	K-MAX	6.95%
Zimmer Biomet	M/L Taper Hip Prosthesis	6.90%
Zimmer Biomet	Taperloc	6.69%
Stryker	EXETER	5.84%
Kyocera	J-Taper	4.99%
Smith & Nephew	SL-PLUS	4.77%
B.Braun Aesculap	BICONTACT	4.07%
Zimmer Biomet	VERSYS	3.24%
DepuySynthes	S-Rom	2.92%
MicroPort Orthopedics	PROFEMUR	2.86%
Depuy Synthes	C-STEM	2.85%
Depuy Synthes	TRI-LOCK	2.01%
Zimmer Biomet	CPT HIP SYSTEM	1.82%
Depuy Synthes	CORAIL	1.67%
Zimmer Biomet	BI-METRIC	1.59%
The others		23.71%

Revision

Target operation : 3844 cases

Maker ' s name	Product name	
Stryker	EXETER	22.45%
Kyocera	PHYSIO-HIP SYSTEM	12.62%
Kyocera	K-MAX	10.43%
Depuy Synthes	S-Rom	6.89%
MicroPort Orthopedics	PROFEMUR	5.33%
Zimmer Biomet	VERSYS	2.94%
Zimmer Biomet	CPT HIP SYSTEM	2.47%
Lima	REVISION Hip	2.21%
Lima	MODULUS Hip System	2.03%
Smith & Nephew	SL-PLUS	1.87%
Kyocera	910YU	1.82%
Stryker	Restoration	1.80%
Depuy Synthes	C-STEM	1.72%
Zimmer Biomet	CMK	1.61%
Zimmer Biomet	ARCOS	1.40%
Teijin Nakashima Medical	Delta LOCK	1.40%
Smith & Nephew	SLR-PLUS	1.14%
The others		19.85%

Bioactive materials

Primary

Target operation : 2632 cases

Product name	
Boneceram-P	70.66%
Apaceram	11.24%
Neobone	9.77%
OSferion	1.73%
Osteograft S	1.51%
Bonefill	1.13%
OSferion60	1.51%
Superpore	0.49%
Biopex(R)	0.41%
Ceratite	0.19%
The others	1.36%

Revision

Target operation : 964 cases

Product name	
Boneceram-P	29.35%
OSferion	17.50%
Apaceram	11.57%
Superpore	10.80%
Neobone	9.66%
Biopex(R)	4.68%
OSferion60	3.44%
Refit	1.53%
Osteograft S	1.43%
Ostinato	1.34%
β bone	1.34%
The others	7.36%