

# 2017 Annual Report

The Japanese Society For Replacement Arthroplasty  
The Japan Arthroplasty Register

2018/3/31

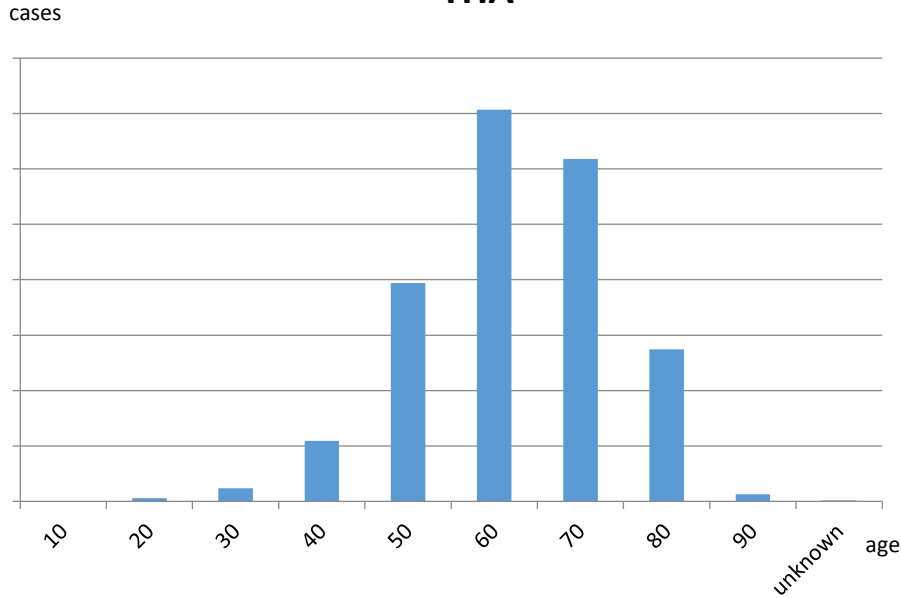
# Summary

Record date : April 2017 ~ March 2018

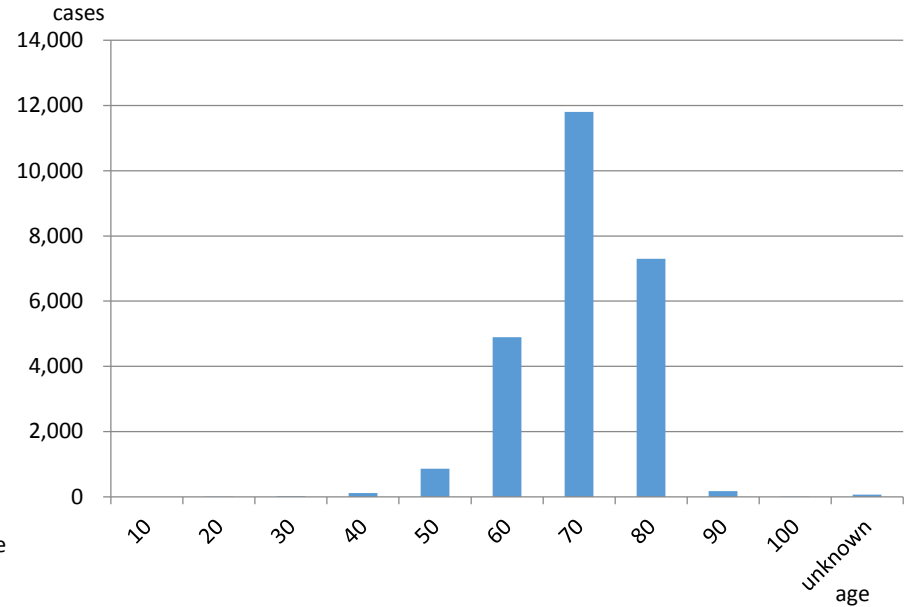
	primary	revision	total		male	female	unknown
THA	21456	1479	22935		4155	18733	47
TKA/UKA/PFA	25220	672	25892		5128	20720	44
Anatomical TSA	176	4	180		48	132	0
Reverse TSA	1394	69	1463		490	969	4

# Primary : Age distribution

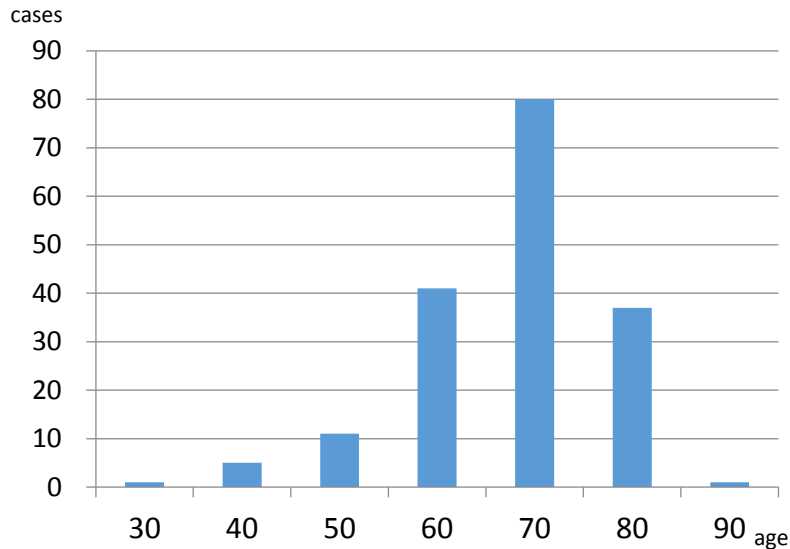
## THA



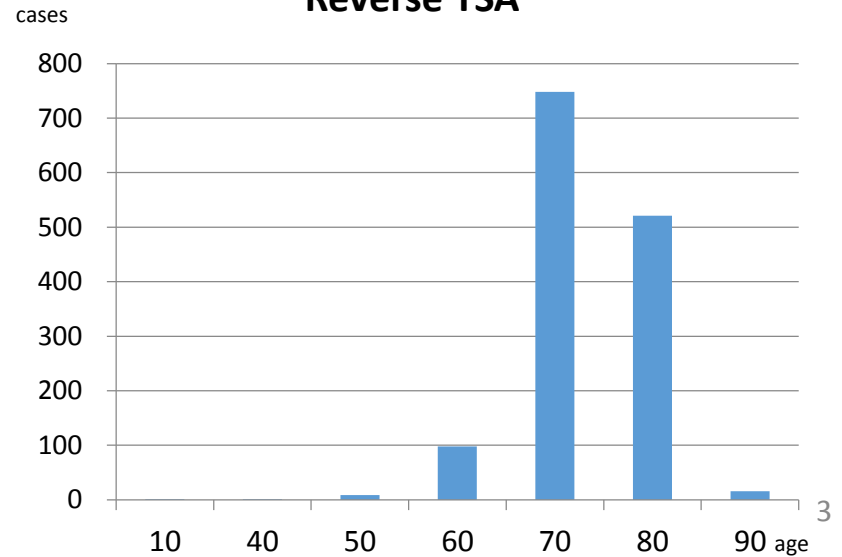
## TKA/UKA/PFA



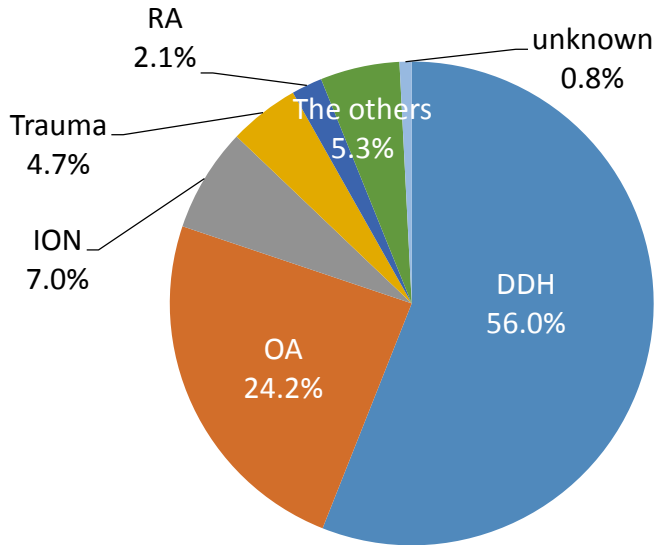
## Anatomical TSA



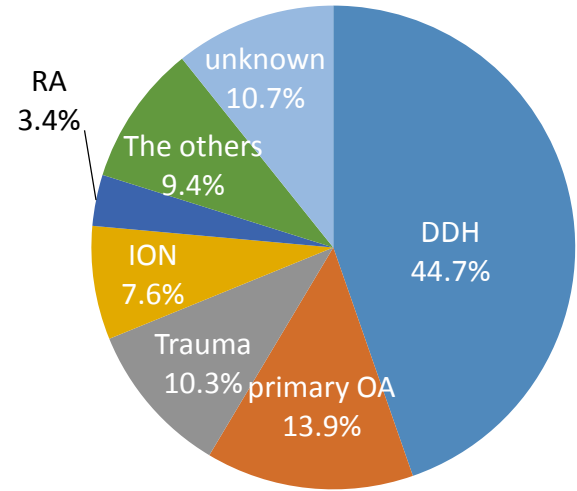
## Reverse TSA



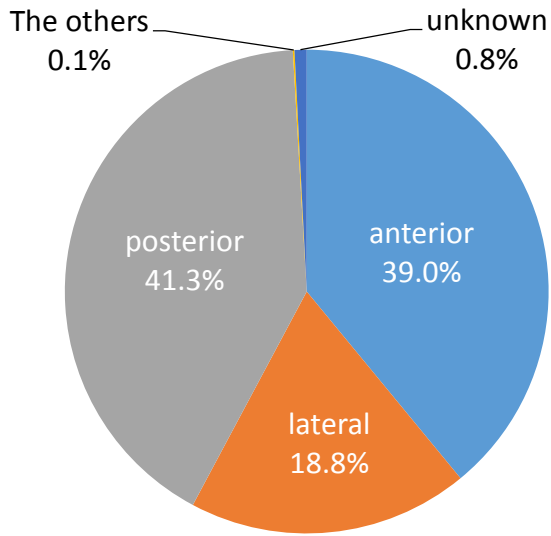
# THA



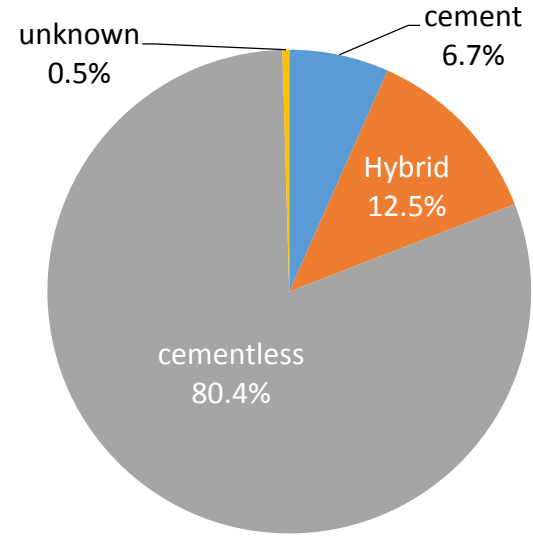
**Primary Initial diagnosis**



**Revision Initial diagnosis**

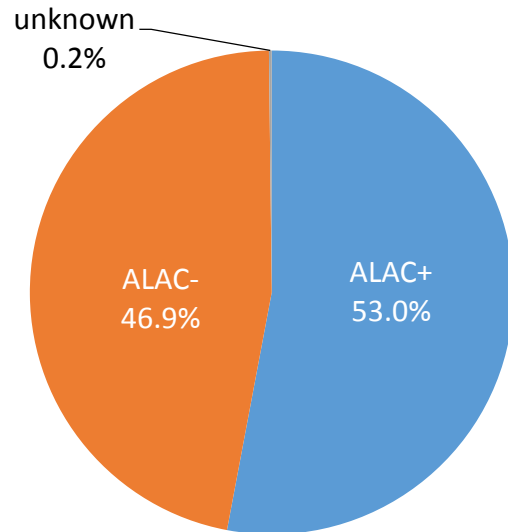


**Approach**

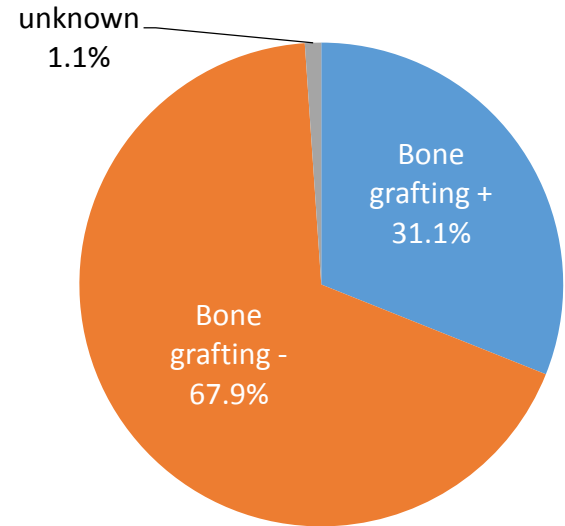


**Cement/Cementless**

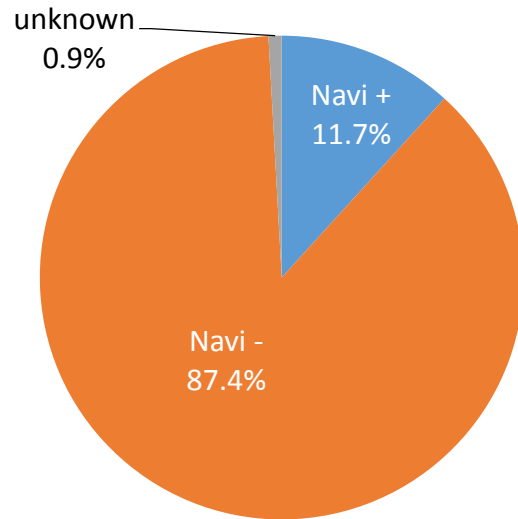
# THA



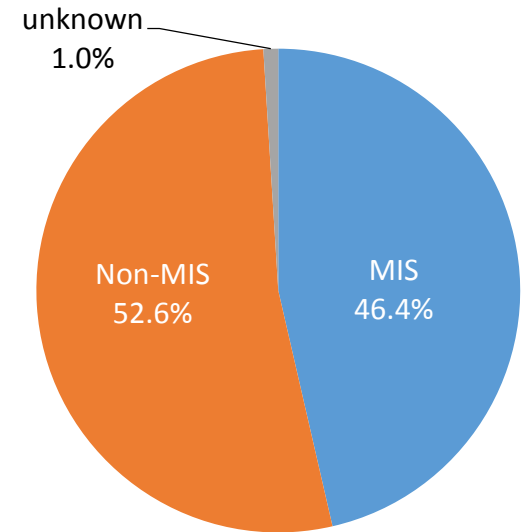
**Antibiotic loaded cement(ALAC)**



**Bone grafting**

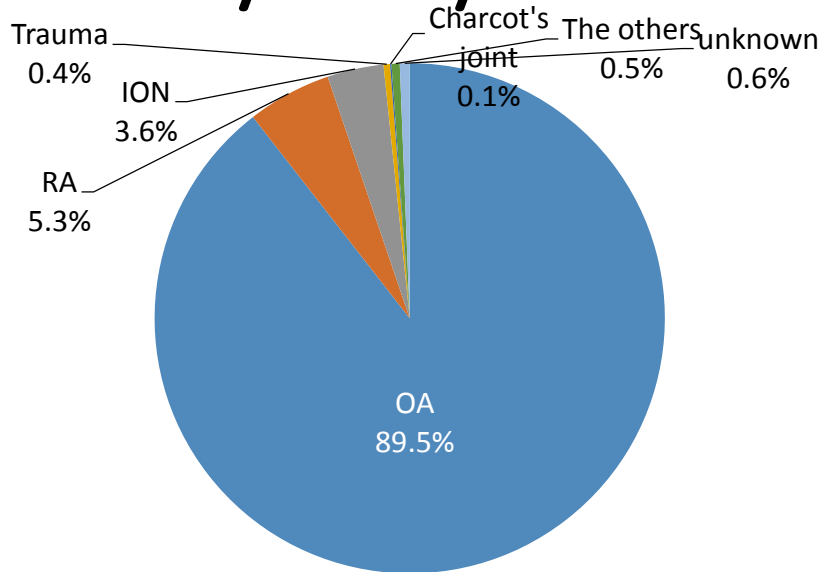


**Navigation**

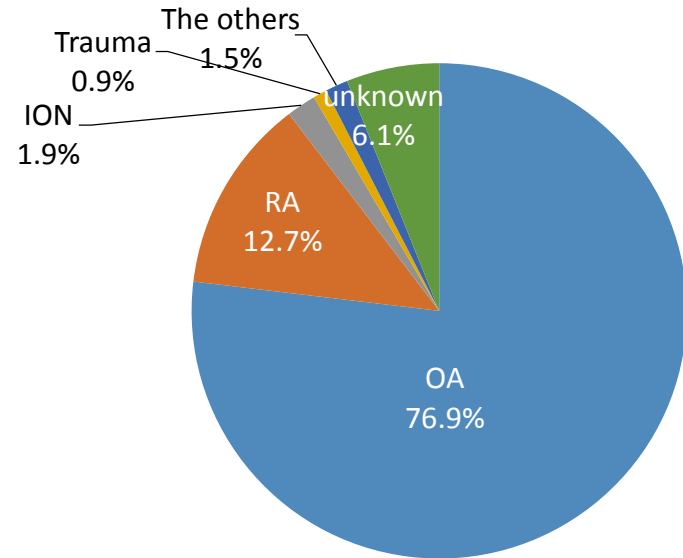


**MIS**

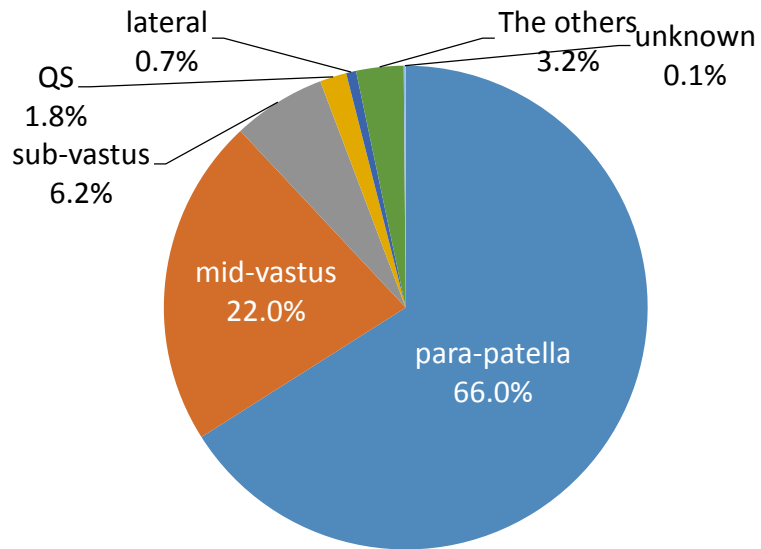
# TKA/UKA/PFA



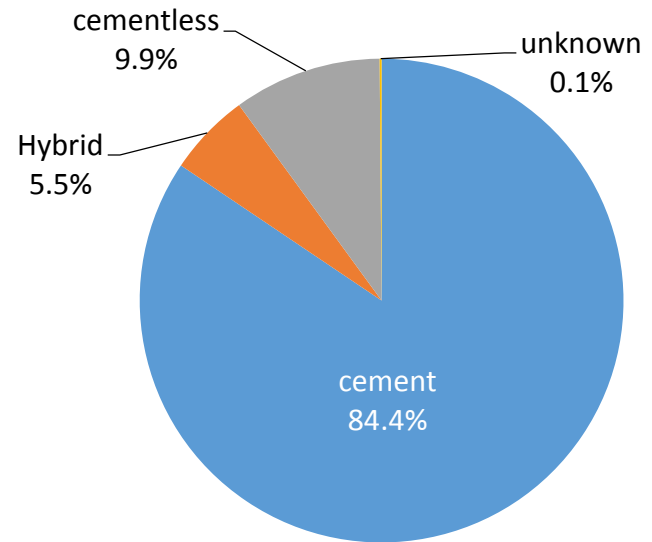
**Primary Initial diagnosis**



**Revision Initial diagnosis**

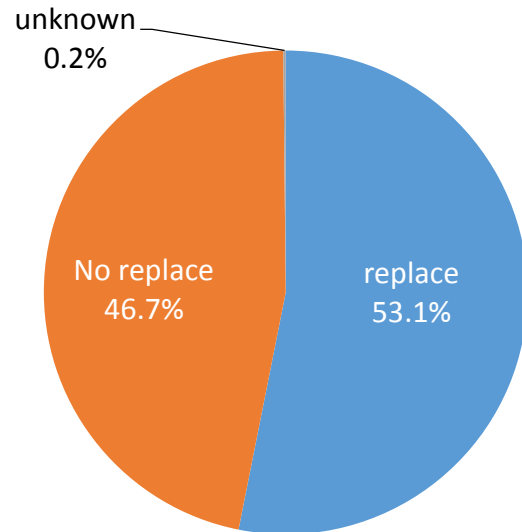


**Approach**

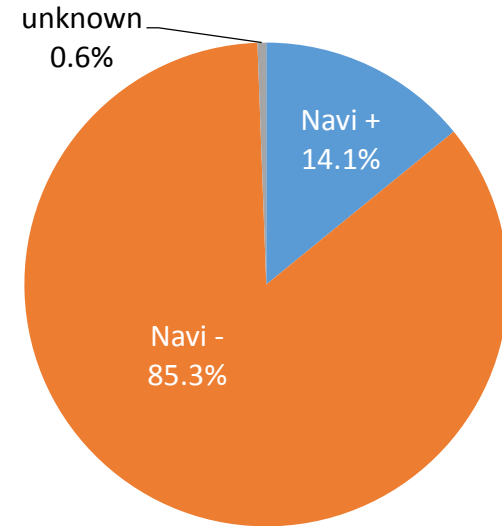


**Fixation**

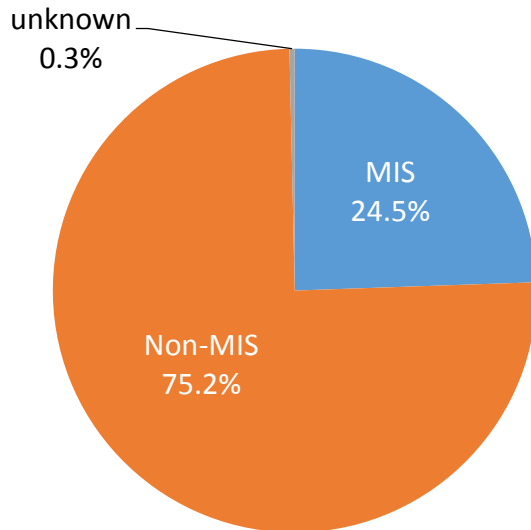
# TKA/UKA/PFA



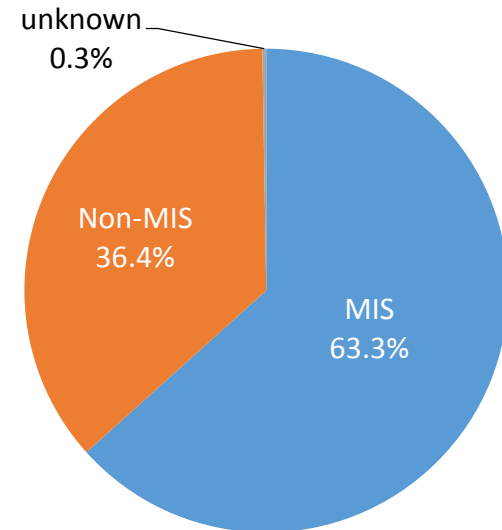
**Patella replacement**



**Navigation**

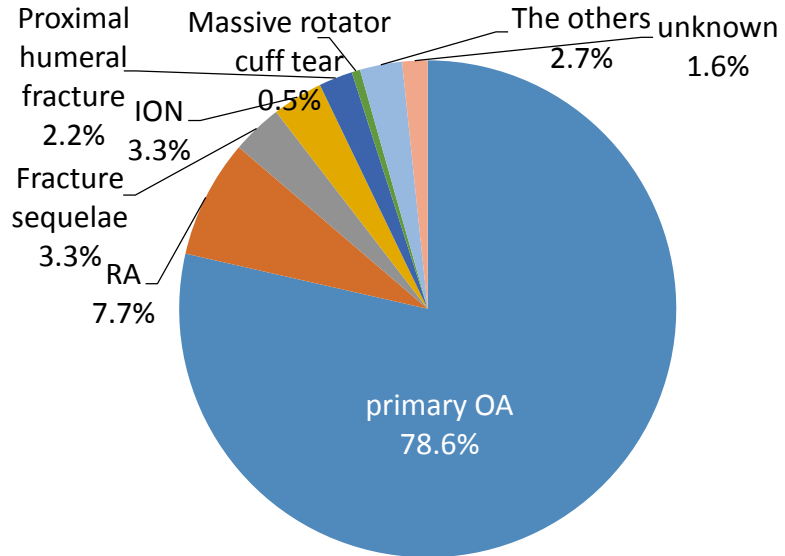


**MIS**

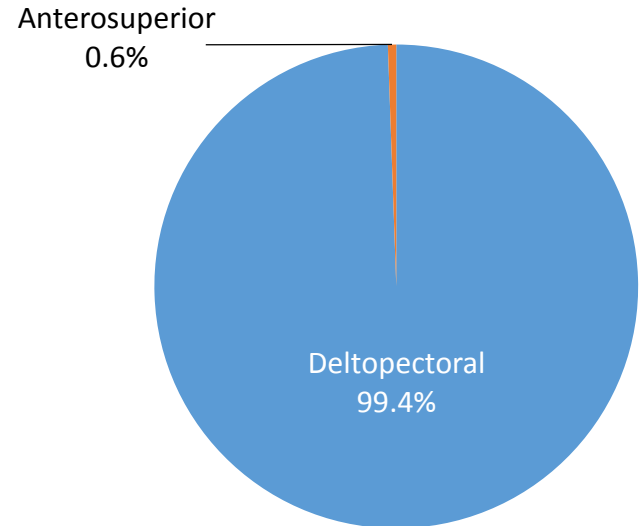


**MIS (UKA)**

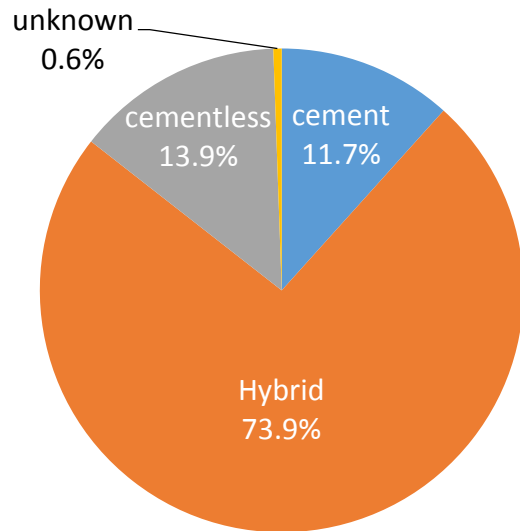
# Anatomical TSA



**Primary Initial diagnosis**



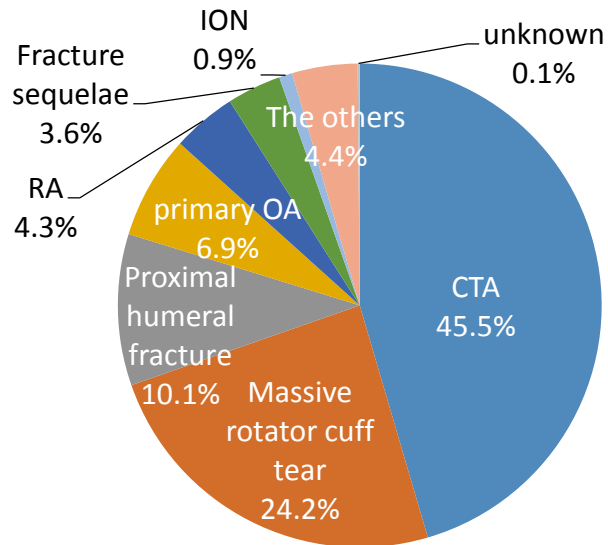
**Approach**



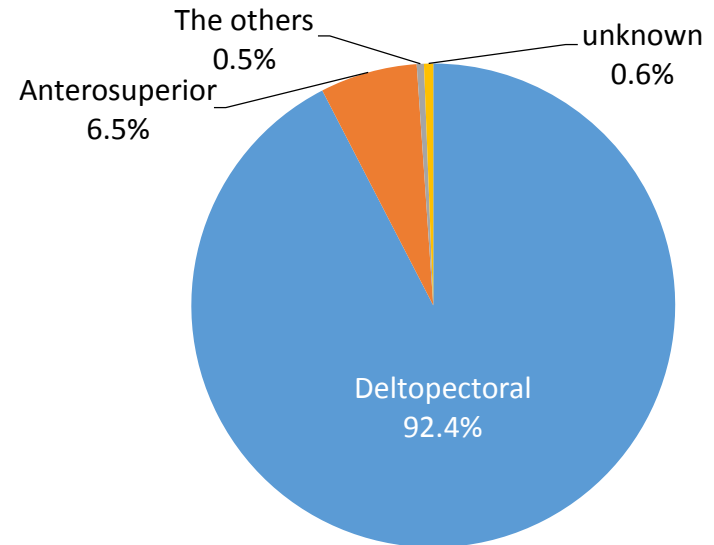
**Fixation**



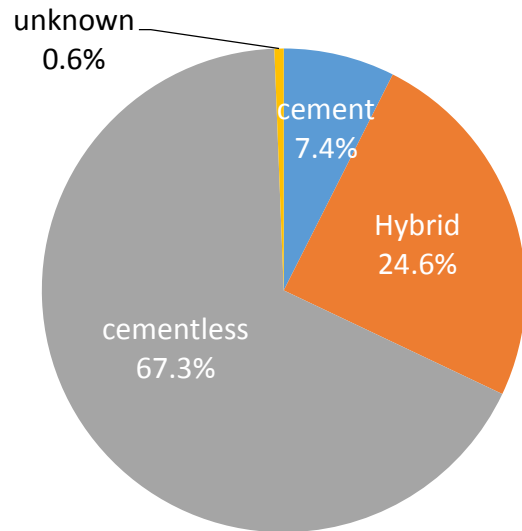
# Reverse TSA



**Primary Initial diagnosis**



**Approach**



**Fixation**

# Causes of revision

## THA

(n=1479 multiple answers allowed)

aseptic loosening (acetabulum)	376
aseptic loosening (femur)	219
Infection	205
Polyethylene wear	175
Osteolysis (acetabulum)	149
Osteolysis (femur)	107
Implant breakage (acetabulum)	101
Implant breakage (femur)	22
Fracture (acetabulum)	19
Fracture (femur)	128
Dislocation • instability	260
The others	131

## TKA/UKA/PFA

(n=672 multiple answers allowed)

loosening (femur)	127
loosening (tibia)	179
loosening (patella)	5
Infection	204
Polyethylene wear (tibia)	55
Polyethylene wear (patella)	5
Implant breakage (femur)	3
Implant breakage (tibia)	14
Implant breakage (patella)	2
Trauma	23
Dislocation • instability	98
Excursion restrictions	23
The others	89

# Causes of revision

## Anatomical TSA

(n=4 multiple answers allowed)

loosening (humerus)	0
loosening (shoulder blade)	0
Infection	0
Dislocation • instability	0
Implant breakage (humerus)	0
Implant breakage (shoulder blade)	2
Polyethylene wear (humerus)	0
Polyethylene wear (shoulder blade)	0
Trauma	0
Excursion restrictions	1
The others	1

## Reverse TSA

(n=69 multiple answers allowed)

loosening (humerus)	4
loosening (shoulder blade)	6
Infection	6
Dislocation • instability	20
Implant breakage (humerus)	2
Implant breakage (shoulder blade)	1
Polyethylene wear (humerus)	0
Polyethylene wear (shoulder blade)	0
Trauma	0
Excursion restrictions	20
The others	27

# Implant companies

## THA Acetabulum

Maker's name	
Zimmer Biomet	37.32%
Stryker	20.60%
Kyocera	18.11%
Depuy Synthes	7.66%
Smith & Nephew	5.29%
B.Braun Aesculap	4.29%
Teijin Nakashima Medical	1.69%
ORTHO DEVELOPMENT	1.24%
MicroPort Orthopedics	1.06%
Medacta	0.80%
Corin	0.68%
Lima	0.66%
ADLER ORTHO	0.45%

## THA Stem

Maker's name	
Zimmer Biomet	31.46%
Stryker	18.42%
Kyocera	16.71%
Depuy Synthes	10.25%
Smith & Nephew	6.67%
B.Braun Aesculap	4.82%
MicroPort Orthopedics	2.61%
Lima	2.02%
ORTHO DEVELOPMENT	1.47%
Teijin Nakashima Medical	1.14%
ADLER ORTHO	1.10%
Medacta	1.09%
MATHYS	1.00%
Corin	0.97%
Exactech	0.16%

# Implant companies

## TKA/UKA/PFA

maker's name	
Zimmer Biomet	47.15%
Stryker	18.41%
Depuy Synthes	12.20%
Smith & Nephew	7.90%
Kyocera	4.88%
MicroPort Orthopedics	2.29%
Teijin Nakashima Medical	1.90%
ORTHO DEVELOPMENT	1.52%
Medacta	1.21%
B.Braun Aesculap	0.92%
Exactech	0.92%
Senko Medical Instrument Mfg(Mera)	0.36%
ADLER ORTHO	0.32%

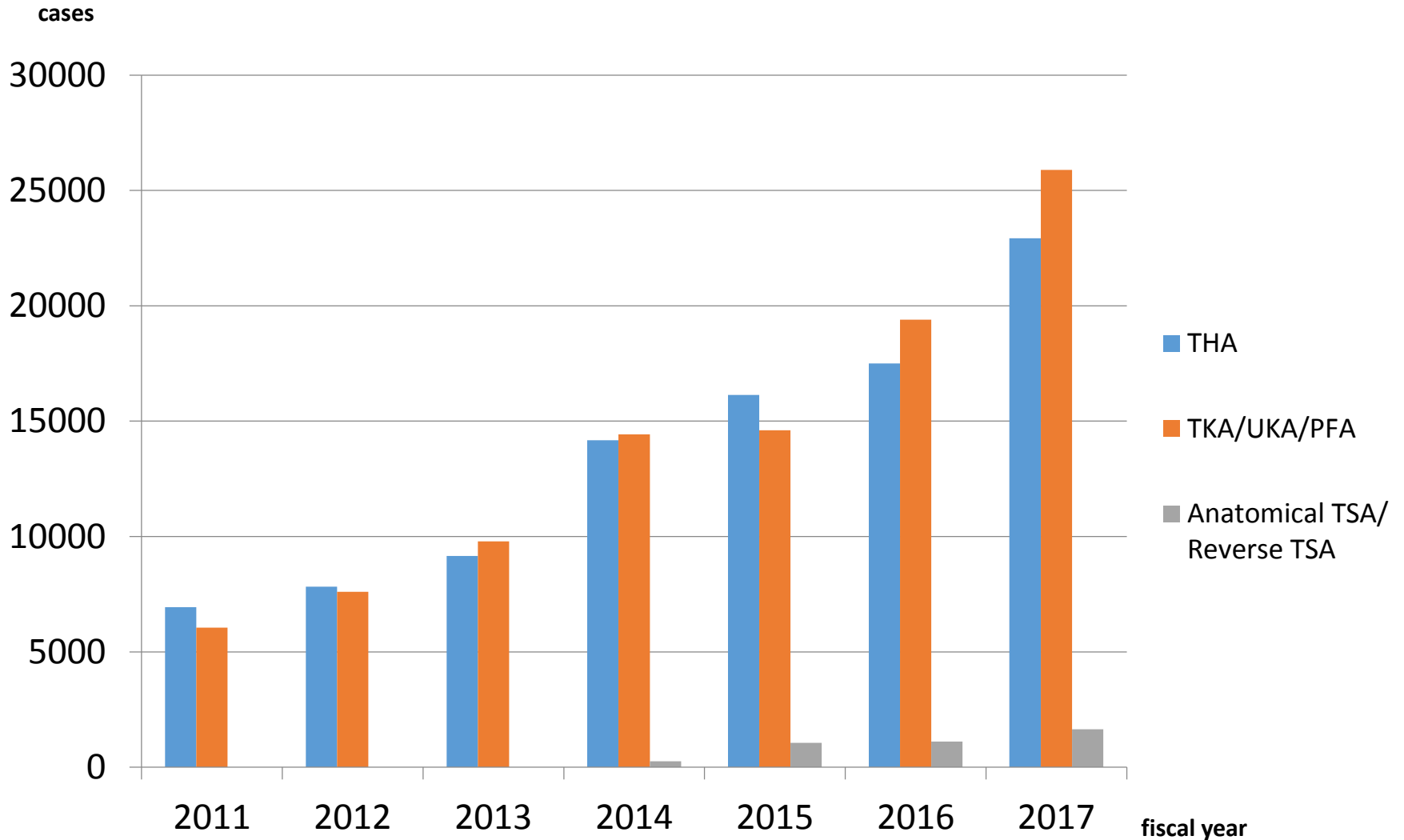
## Anatomical TSA

maker's name	
Tornier	43.58%
Zimmer Biomet	25.70%
Depuy Synthes	15.64%
Lima	13.97%

## Reverse TSA

maker's name	
Zimmer Biomet	45.18%
Tornier	30.17%
Depuy Synthes	10.96%
Lima	8.52%
Exactech	5.17%

# Number of Registrations



# Number of hospitals

Year	Numbers
2006	10
2007	1
2008	58
2009	14
2010	11
2011	2
2012	34
2013	28
2014	93
2015	411
2016	403
2017	554
2018	32
total	1651

April 30, 2018