5y complications analysis

All

```
xls_path <- '../../data/Dataset 4th report 5Y - ONLY DPS.xlsx'</pre>
```

Filters

Major Complications

• Total patients: 608

• Complications before 2 years: 326

• Elegible patients with 2Y: 434

• Patients with complications before 2 years: 131

• Proportion of patients with complications before 2 years: 0.3018433

• Complications between 2y and 5y: 65

• Elegible patients with 2Y and 5Y: 216

• Patients with complications before 5 years: 34

• Proportion of patients with complications between 2y and 5y: 0.1574074

- p-value testing equality between proportions of complications: 1.0028248×10^{-4}

Complications 2Y

	Category	pats_n	prop
1:	Infections	34	0.07834101
2:	Medical	25	0.05760369
3:	Neurological	32	0.07373272
4:	Mechanical complications	71	0.16359447
5:	Iatrogenic	19	0.04377880
6:	Wound problems	15	0.03456221
7:	Pain	10	0.02304147

Complications between 2Y and 5Y

	Category	pats_n	prop
1:	Mechanical complications	24	0.111111111
2:	Neurological	4	0.018518519
3:	Pain	7	0.032407407
4:	Wound problems	2	0.009259259
5:	Infections	1	0.004629630
6:	Iatrogenic	1	0.004629630

Minor Complications

• Total patients: 608

• Complications before 2 years: 344

• Elegible patients with 2Y: 434

• Patients with complications before 2 years: 186

• Proportion of patients with complications before 2 years: 0.4285714

• Complications between 2y and 5y: 26

• Elegible patients with 2Y and 5Y: 216

• Patients with complications before 5 years: 21

• Proportion of patients with complications between 2y and 5y: 0.0972222

- p-value testing equality between proportions of complications: $2.8635981 \times 10^{-17}$

Complications 2Y

	Category	pats_n	prop
1:	Mechanical complications	45	0.10368664
2:	Iatrogenic	55	0.12672811
3:	Wound problems	17	0.03917051
4:	Medical	86	0.19815668
5:	Neurological	38	0.08755760
6:	Infections	10	0.02304147
7:	Pain	14	0.03225806

Complications between 2Y and 5Y

		Category	pats_n	prop
1:	Mechanical	complications	19	0.08796296
2:		Pain	1	0.00462963
3:		Neurological	1	0.00462963

Reinterventions

- Patients with reintervention before 2 years: 111
- Reinterventions between 2y and 5y: 47

Non depuy

```
xls_path <- '../../data/ESSG Extraction_DEC_OP_ NON DePuy v8.xlsx'</pre>
```

Filters

Major Complications

• Total patients: 708

• Complications before 2 years: 159

• Elegible patients with 2Y: 465

• Patients with complications before 2 years: 91

• Proportion of patients with complications before 2 years: 0.1956989

• Complications between 2y and 5y: 18

• Elegible patients with 2Y and 5Y: 199

• Patients with complications before 5 years: 13

• Proportion of patients with complications between 2y and 5y: 0.0653266

• p-value testing equality between proportions of complications: 3.8207953×10^{-5}

Complications 2Y

		Category	$pats_n$	prop
1:	Mechanical	complications	53	0.11397849
2:	Other	complications	31	0.0666667
3:		Neurological	15	0.03225806
4:		Infections	14	0.03010753

Complications between 2Y and 5Y

		Category	pats_n	prop
1:	Other	complications	1	0.005025126
2:	Mechanical	complications	12	0.060301508

Minor Complications

• Total patients: 708

• Complications before 2 years: 127

• Elegible patients with 2Y: 465

• Patients with complications before 2 years: 84

• Proportion of patients with complications before 2 years: 0.1806452

 $\bullet\,$ Complications between 2y and 5y: 22

• Elegible patients with 2Y and 5Y: 199

• Patients with complications before 5 years: 16

• Proportion of patients with complications between 2y and 5y: 0.080402

• p-value testing equality between proportions of complications: 0.0014216

Complications 2Y

		Category	pats_n	prop
1:	Other	complications	19	0.040860215
2:	Mechanical	complications	57	0.122580645
3:		Infections	3	0.006451613
4:		Neurological	17	0.036559140

Complications between 2Y and 5Y

Category pats_n prop
1: Mechanical complications 16 0.08040201

Reinterventions

- Patients with reintervention before 2 years: 103
- Reinterventions between 2y and 5y: 48

Comparations

All vs nondepuy 2Y

Major

P-value: Proportion 2y depuy vs non depuy

[1] 0.000305609

complication p_val
Infections 0.002168948
Neurological 0.008247793
Mechanical complications 0.039490911

Minor

P-value: Proportion before 2y vs non depuy

[1] 9.700817e-16

complication p_val
Mechanical complications 0.431073975
Neurological 0.002295834
Infections 0.071455033

Reinterventions

p-value on the proportion of patients with reinterventions among elegible patients between 2Y and 5Y

[1] 0.259852

All vs nondepuy between 2Y and 5Y

Major

P-value: Proportion 2y and 5Y depuy vs non depuy

[1] 0.005076775

complication p_val 1 Mechanical complications 0.09638577

Minor

P-value: Proportion between 2y and 5y depuy vs non depuy

[1] 0.6684295

complication p_val 1 Mechanical complications 0.920256

Reinterventions

patients_reintervention eligible proportion depuy \$47\$ 216 0.2175926 nondepuy \$48\$ 199 0.2412060

p-value on the proportion of patients with reinterventions among elegible patients with 2Y

[1] 0.6490603