PGY4 Ratings

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1. Data source

Milestones

From ACGME

Data for the residents who graduated in 2015, 2016, 2017, and 2018 (all PGY 5 residents in June of each year) (along with their corresponding previous years' ratings). This means that if residents started as PGY 1 resident in July 2015, for example, their expected graduation is in June 2020. Since their graduation is after June 2018, this cohort of residents' data is not included in the dataset.

year of graduation = academic year + 2

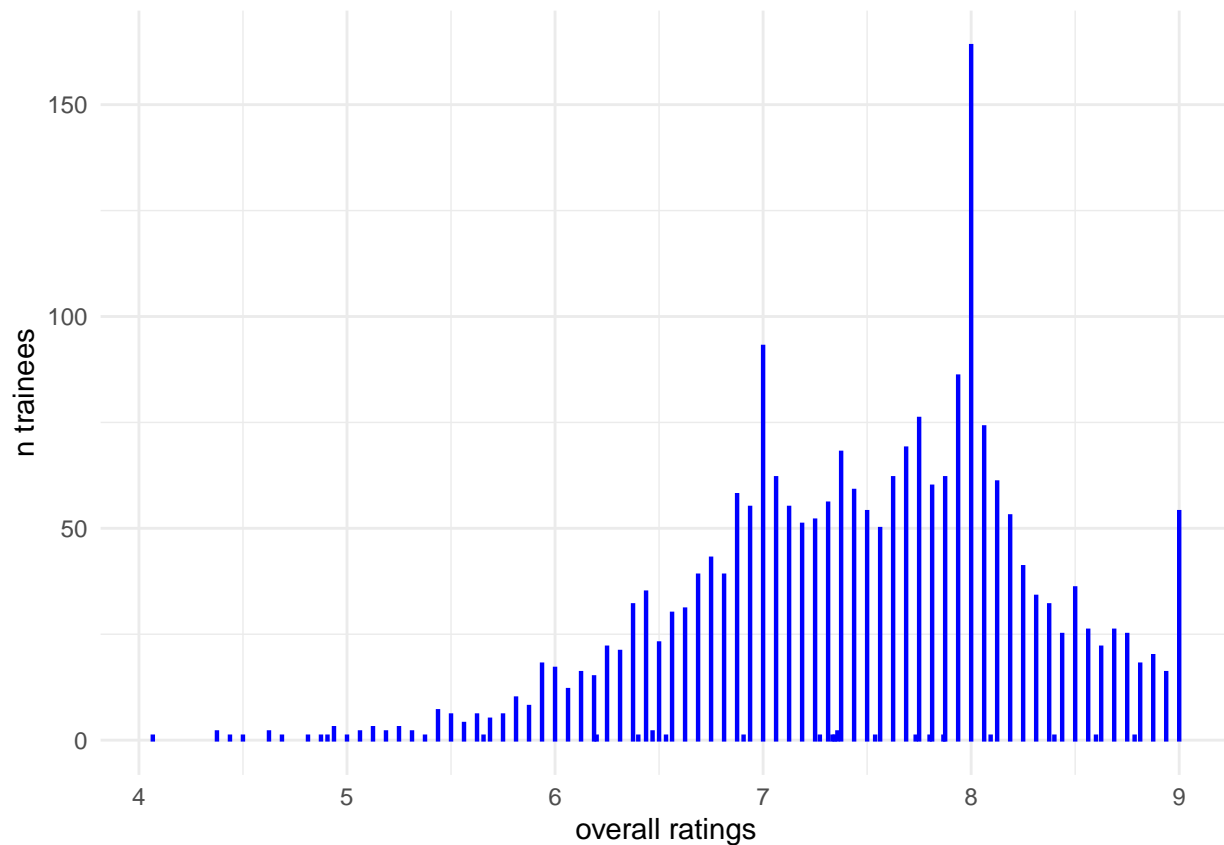**Medicare**

Partial Colectomy up to 2017

2. Data Process

2.1 Raw person data before filters

residentyear	grad_year	n surgeons
4	2016	1166
4	2017	1203

Year-end ratings for all PGY4 trainees by category

Rating	N = 2,353[1]
Overall	7.56 (6.94, 8.00)
Overall >=8	736 (31%)
Professional	7.67 (7.00, 8.00)
Professional >=8	1,060 (45%)
Operative	7.33 (7.00, 8.00)
Operative >=8	808 (34%)
Leadership	7.75 (7.00, 8.25)
Leadership >=8	1,135 (48%)

[1]Statistics presented: Median (IQR); n (%)

2.2 After filtered milestone data with linked medicare

residentyear	grad_year	n_surg
4	2016	195
4	2017	106

Rating	excluded, N = 2,052[1]	included, N = 301[1]	p-value[2]
Overall	7.56 (6.94, 8.00)	7.62 (6.88, 8.06)	0.9
Overall >=8	638 (31%)	98 (33%)	0.7
Professional	7.67 (7.00, 8.00)	7.67 (7.00, 8.33)	0.6
Professional >=8	918 (45%)	142 (47%)	0.5
Operative	7.33 (7.00, 8.00)	7.67 (7.00, 8.00)	0.2
Operative >=8	689 (34%)	119 (40%)	0.053
Leadership	7.75 (7.00, 8.25)	7.75 (7.00, 8.25)	0.6
Leadership >=8	987 (48%)	148 (49%)	0.8

[1]Statistics presented: Median (IQR); n (%)
[2]Statistical tests performed: Wilcoxon rank-sum test; chi-square test of independence