

Distribution for continuous milestone ratings

Xilin Chen

12/14/2020

Contents

summary	1
Binary milestone rating tables	1
Binary by rating 8	1
Binary by rating 9	2
Plot: Distribution of 4 mean milestone ratings	3
Critical deficiency group	6
Overall ratings distribution	7

summary

Partial Colectomy medicare cases by milestone graduates within 24 of graduation.

n_case	n_surgeon	n_hosp	n_patient
1508	433	440	1498

content

- Explore cutoffs for % Trainees Overall Mean Milestone ratings (0-7, 8, 9 vs. 0-8, 9)
- Histogram for continuous milestone ratings
- Critical deficiency group (using all pgy 5 milestone group)
 - how many residents have 1,2,3, end-year evaluation at PGY5 (n)
 - check 1,2,3 for outliers
 - meaning of 0 rating (NA vs. critical deficiency)

Binary milestone rating tables

Binary by rating 8

```
$IntResponseValue_mean
# A tibble: 2 x 4
  IntResponseValue_mean_bin8 n_case n_surgeon n_patient
      <dbl>    <int>      <int>      <int>
1             0      261         84        258
2             1     1247        349       1241
```

```
$operative_rating_mean
# A tibble: 2 x 4
  operative_rating_mean_bin8 n_case n_surgeon n_patient
      <dbl>    <int>      <int>      <int>
1             0      240         80        236
```

2	1	1268	353	1263
---	---	------	-----	------

\$leadership_rating_mean

A tibble: 2 x 4

	leadership_rating_mean_bin8	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	194	59	192
2	1	1314	374	1307

\$prof_rating_mean

A tibble: 2 x 4

	prof_rating_mean_bin8	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	252	81	250
2	1	1256	352	1249

Binary by rating 9

\$IntResponseValue_mean

A tibble: 2 x 4

	IntResponseValue_mean_bin9	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	1135	323	1126
2	1	373	110	372

\$operative_rating_mean

A tibble: 2 x 4

	operative_rating_mean_bin9	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	757	234	750
2	1	751	199	748

\$leadership_rating_mean

A tibble: 2 x 4

	leadership_rating_mean_bin9	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	759	219	754
2	1	749	214	744

\$prof_rating_mean

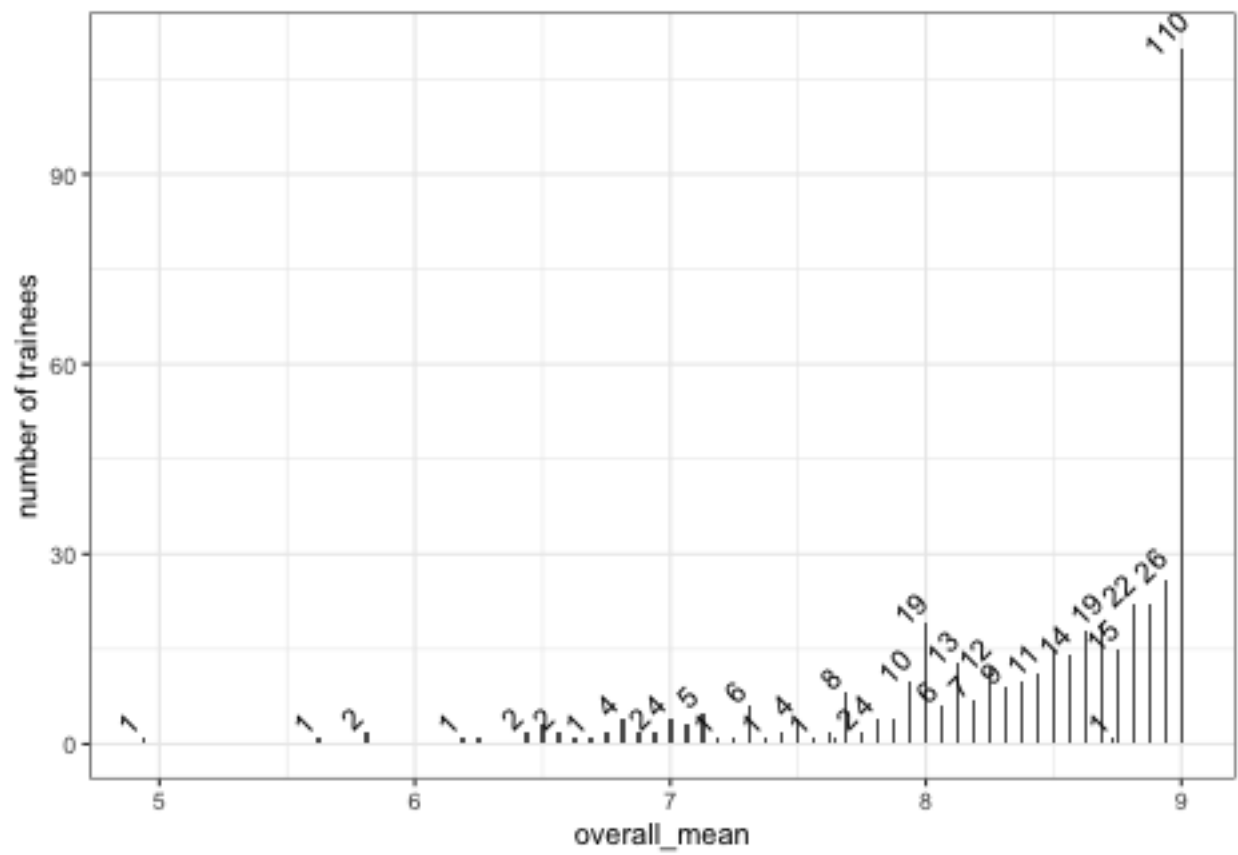
A tibble: 2 x 4

	prof_rating_mean_bin9	n_case	n_surgeon	n_patient
	<dbl>	<int>	<int>	<int>
1	0	768	222	762
2	1	740	211	737

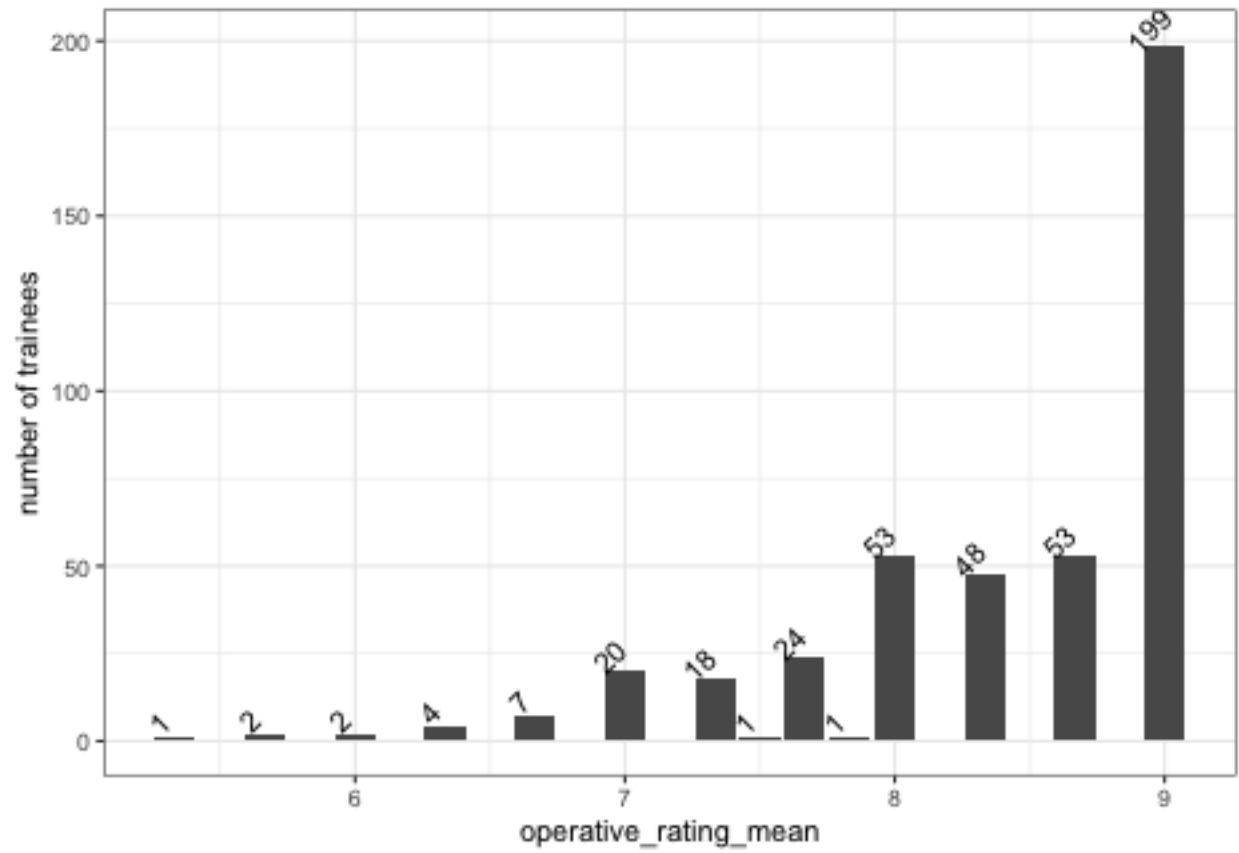
In the subcategory rating groups, half of the trainees had perfect 9 rating.

Plot: Distribution of 4 mean milestone ratings

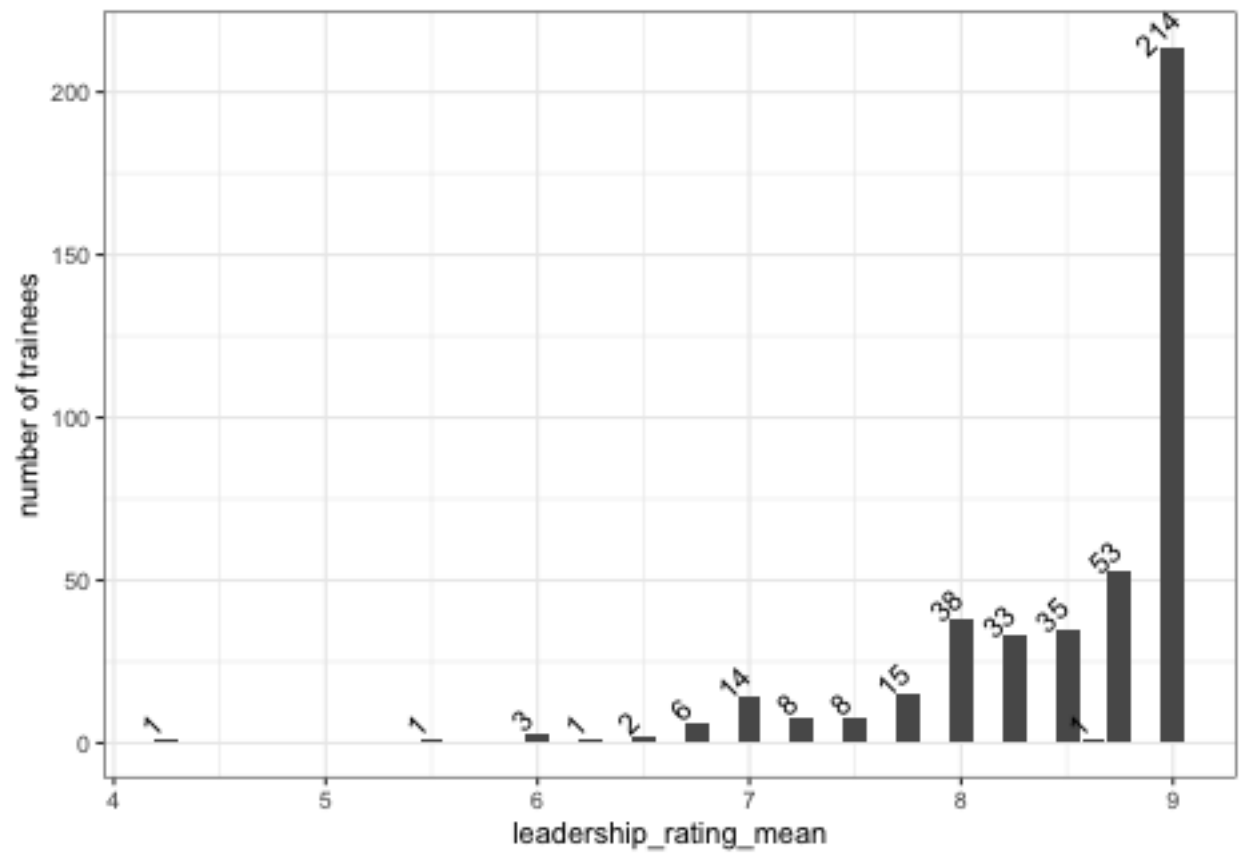
\$overall_mean



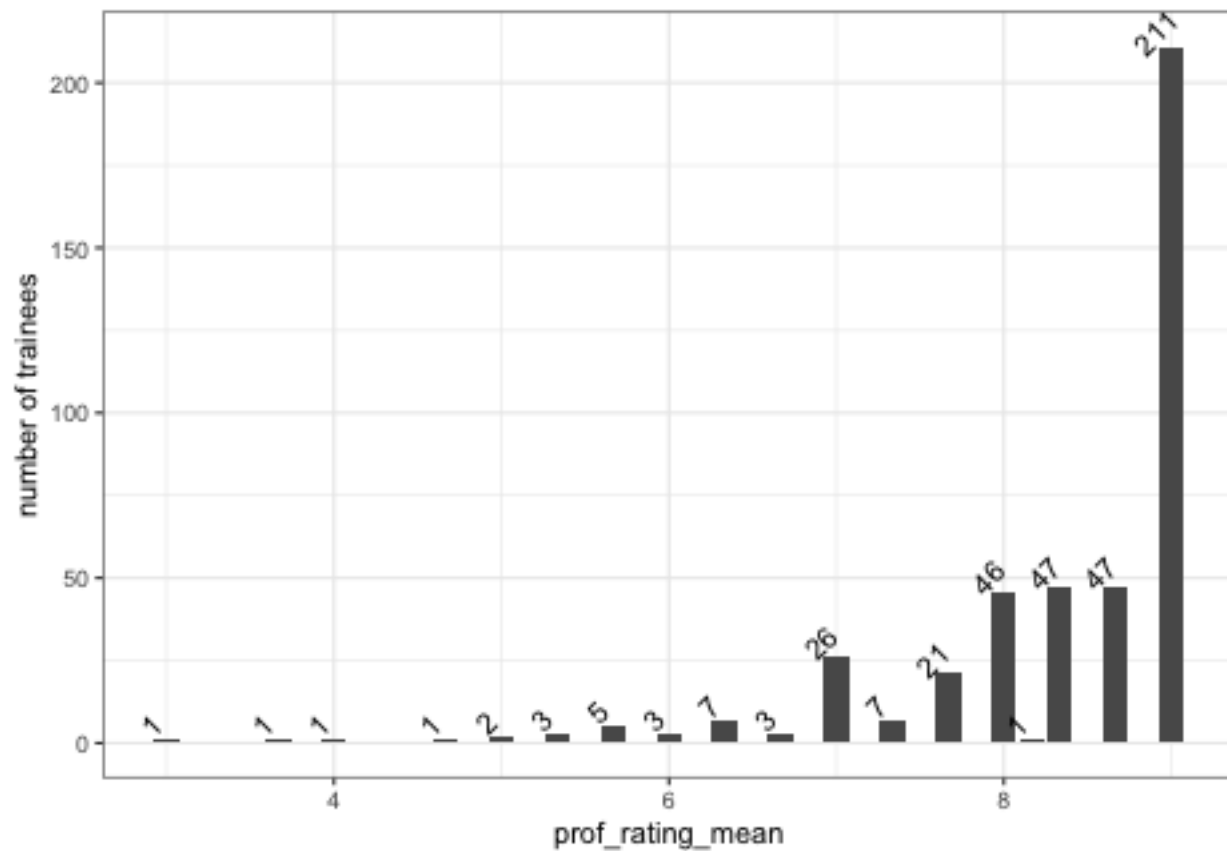
\$operative_rating_mean



\$leadership_rating_mean



\$prof_rating_mean



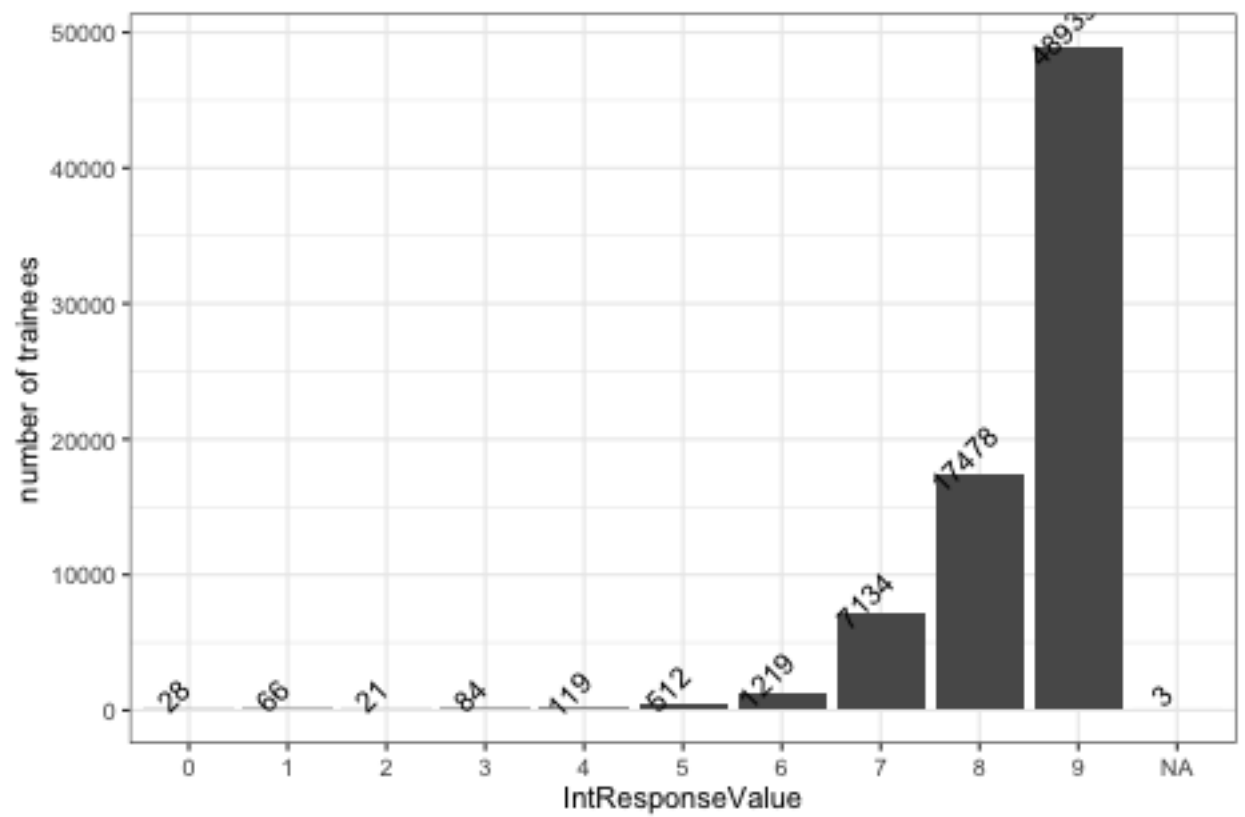
Critical deficiency group

Cohort

- original milestone ratings (without linking to medicare)
- end-year evals at PGY5

eval_peroid	n_evals	n_person
2014-2015 ACGME Year-End Milestone Evaluations	18144	1134
2015-2016 ACGME Year-End Milestone Evaluations	18883	1183
2016-2017 ACGME Year-End Milestone Evaluations	19488	1218
2017-2018 ACGME Year-End Milestone Evaluations	19088	1193

Overall ratings distribution



1 person with 16 evals

