

2017's residents are not showing in medicare  
12 months lag between graduation and Medicare procedures

	AcademicYear	residentyear	n_surg
	<chr>	<chr>	<int>
1	2014	5	1089
2	2015	5	1151
3	2016	5	1195
4	2017	5	1190

Milestone  
N = 4628

2% missing  
NPI

Exclude foreign  
in ABS&AMA

Milestone  
N = 3869

Exclude recorded specialty  
In ABS

All graduated

5 procedures

Medicare  
N = 40,308

No missing NPI

N obs = 1,547,219

Milestone  
N = 3869

	AcademicYear	residentyear	n_surg
	<chr>	<chr>	<int>
1	2014	5	903
2	2015	5	947
3	2016	5	1023
4	2017	5	992
5	NA	NA	2

38% matching (excl. 2017)

AcademicYear	n_surg
<chr>	<int>
2014	472
2015	403
2016	216
2017	4

Milestone  
Medicare  
N = 1094

N cases = 10,861

Delete all cases before  
graduation

facility_clm_yr	n_surgeon	n_cases
<dbl>	<int>	<int>
1 2010	1	1
2 2011	2	4
3 2012	3	3
4 2013	1	2
5 2014	3	3
6 2015	177	601
7 2016	598	3402
8 2017	1034	6647

Fellowship council (91 NPI)  
N = 2645

Milestone  
Medicare  
N = 1079

Exclude surgeons that is not GS from NPPES

GS surgeons  
N = 780

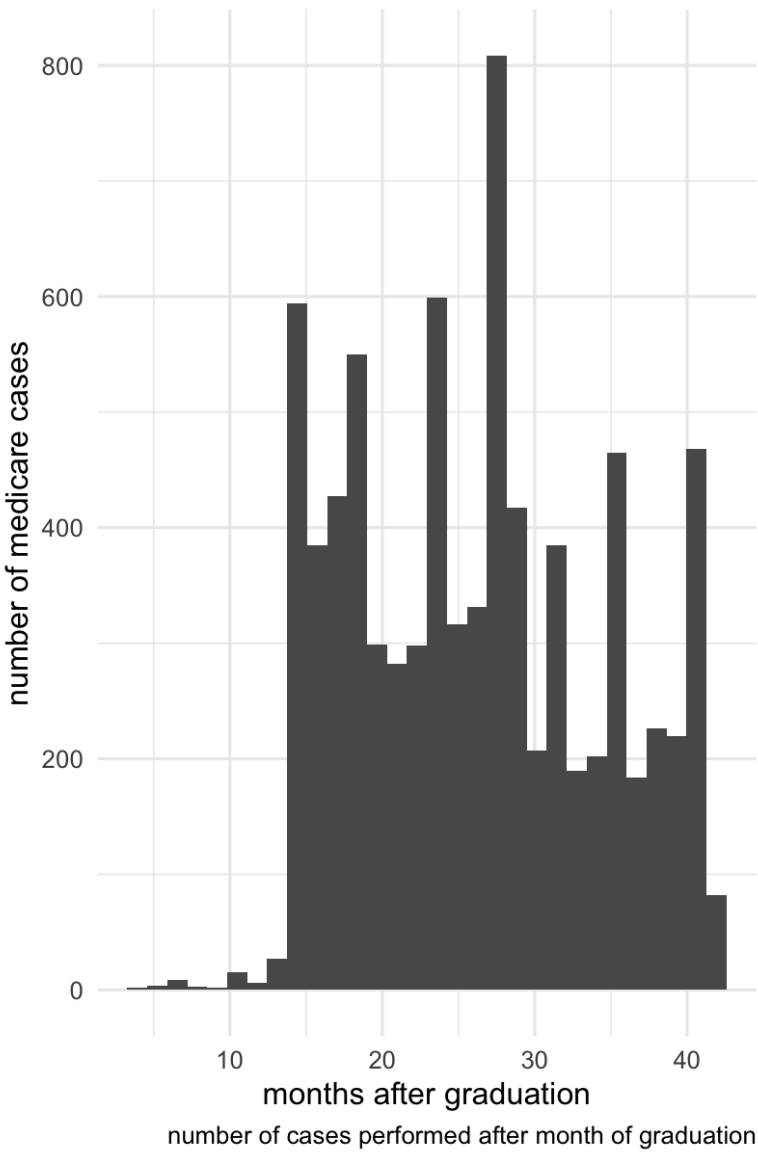
8031

Partial Colectomy

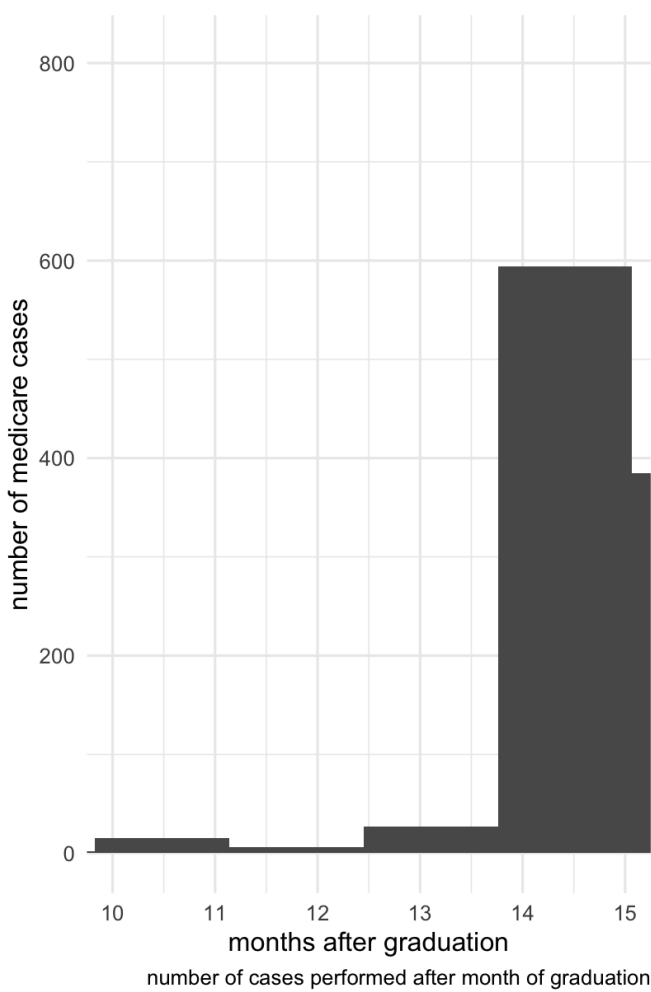
Milestone  
Medicare  
N = 577

N cases = 2681

### General surgery surgeons



Zoom in plot  
14 month is the  
Change point



year of graduation by claim year	
n_surg	
claim year 2015	
2014	143
2015	2
claim year 2016	
2014	281
2015	173
claim year 2017	
2014	322
2015	280
2016	142
2017	1