

Supplementary Table 1 : Number of NIH training grants (F32, T32) awarded from 2011-2020 by specialty

F32 grants	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	4	6	8	7	1	1	3	5	2	6
Dermatology	4	4	3	2	3	3	5	4	1	3
Emergency Medicine	1	1	1	0	0	0	0	0	0	1
Family Medicine	0	0	0	1	1	0	0	0	0	0
Internal Medicine/Medicine	126	112	116	108	109	119	132	115	108	116
Neurology	15	10	20	31	29	23	29	27	29	22
Neurosurgery	8	8	8	8	10	10	9	15	8	12
Obstetrics and Gynecology	4	6	4	4	5	4	3	6	5	5
Ophthalmology	4	7	7	9	12	8	10	7	9	10
Orthopedics	5	6	5	5	6	6	6	7	7	7
Otolaryngology	10	7	7	10	6	8	14	10	8	6
Pathology	22	17	22	22	23	25	24	17	16	13
Pediatrics	25	27	24	24	18	17	15	13	19	12
Physical Medicine & Rehab	1	1	0	1	1	1	3	4	3	2
Plastic Surgery	0	0	0	0	0	0	0	0	1	0
Psychiatry	39	29	28	26	27	29	29	25	29	32
Radiation-Diagnostic/Oncology	14	8	5	1	2	9	8	7	4	7
Surgery	17	15	13	19	21	20	17	20	15	15
Urology	2	2	2	5	2	3	3	1	1	1
T32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	13	15	14	17	21	19	25	19	20	15
Dermatology	12	12	12	11	11	11	11	10	7	8
Emergency Medicine	0	0	0	0	0	1	2	2	2	2
Family Medicine	5	4	6	5	4	4	9	5	4	5
Internal Medicine/Medicine	382	389	357	353	339	341	452	366	347	365
Neurology	37	34	32	32	29	30	38	36	35	37
Neurosurgery	3	3	3	3	5	5	6	4	6	8
Obstetrics and Gynecology	12	11	12	11	12	10	13	7	8	11
Ophthalmology	15	16	21	19	17	18	27	22	26	23
Orthopedics	8	9	8	7	7	7	8	7	7	8
Otolaryngology	12	12	11	14	15	15	29	17	16	16
Pathology	86	75	70	79	68	70	89	67	59	55
Pediatrics	108	99	90	87	90	84	88	73	74	72
Physical Medicine & Rehab	9	4	4	3	3	4	5	5	4	5
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	77	79	80	79	71	71	107	69	68	71
Radiation-Diagnostic/Oncology	22	20	22	26	28	27	33	32	30	26
Surgery	54	56	54	48	48	49	57	53	58	55
Urology	7	8	7	8	5	6	4	2	4	4

Supplementary Table 2: Number of NIH career development grants (K01, K08, K23) awarded from 2011-2020 by specialty

K01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	4	4	4	5	5	5	6	8	5	7
Dermatology	4	4	6	4	6	7	11	13	10	8
Emergency Medicine	0	1	1	1	2	0	0	1	1	2
Family Medicine	11	13	10	7	7	8	8	9	9	15
Internal Medicine/Medicine	130	125	126	144	159	143	135	154	170	176
Neurology	12	13	16	17	17	19	20	19	23	19
Neurosurgery	3	3	1	0	0	1	0	2	3	3
Obstetrics and Gynecology	2	1	2	4	5	5	7	6	8	8
Ophthalmology	0	0	0	1	0	0	1	2	2	1
Orthopedics	5	4	7	7	10	7	6	5	6	5
Otolaryngology	2	2	2	2	0	0	0	0	0	1
Pathology	13	14	15	14	13	12	13	16	17	21
Pediatrics	20	16	18	19	16	25	23	21	23	27
Physical Medicine & Rehab	3	4	4	6	7	8	13	13	10	12
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	81	84	76	75	72	67	70	65	72	81
Radiation-Diagnostic/Oncology	17	15	13	11	14	14	19	18	15	11
Surgery	8	7	11	7	10	12	13	9	8	7
Urology	1	1	1	1	3	4	6	5	5	6
K08	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	13	14	15	15	13	12	16	21	25	23
Dermatology	18	19	17	16	15	12	14	11	14	10
Emergency Medicine	2	4	7	4	5	7	7	8	7	7
Family Medicine	5	5	5	2	1	1	1	1	3	3
Internal Medicine/Medicine	277	270	243	0	228	241	230	251	281	274
Neurology	39	36	39	33	37	33	31	30	35	39
Neurosurgery	7	7	9	7	11	12	14	11	13	10
Obstetrics and Gynecology	8	8	7	5	2	3	2	5	6	9
Ophthalmology	24	24	29	29	30	28	27	27	25	25
Orthopedics	1	2	4	4	4	5	7	7	7	7
Otolaryngology	12	14	12	10	12	11	9	10	12	10
Pathology	38	33	36	33	32	24	25	28	27	30
Pediatrics	114	96	93	86	82	91	106	117	113	109
Physical Medicine & Rehab	1	1	1	0	0	0	0	1	1	1
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	34	31	21	28	22	23	25	23	19	24
Radiation-Diagnostic/Oncology	5	5	5	6	6	1	3	3	14	18
Surgery	59	57	50	46	38	38	39	44	45	48

Urology	8	8	11	7	4	5	5	5	5	5
K23	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	9	10	13	13	12	10	13	12	17	17
Dermatology	3	4	3	1	3	4	4	9	10	8
Emergency Medicine	18	15	15	14	15	19	21	19	20	15
Family Medicine	9	8	6	3	6	4	5	5	6	7
Internal Medicine/Medicine	306	315	306	297	276	262	247	247	249	286
Neurology	61	59	48	50	52	43	48	53	58	57
Neurosurgery	2	4	5	4	5	5	4	4	5	6
Obstetrics and Gynecology	12	14	11	14	10	5	7	8	10	12
Ophthalmology	15	11	13	11	13	20	21	21	21	20
Orthopedics	2	3	3	3	2	2	1	3	3	4
Otolaryngology	8	6	6	9	12	11	12	12	12	12
Pathology	4	3	2	3	2	1	1	1	1	3
Pediatrics	94	93	89	89	79	65	85	93	108	129
Physical Medicine & Rehab	7	6	10	12	9	10	6	2	3	3
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	119	117	104	99	100	93	102	103	110	113
Radiation-Diagnostic/Oncology	6	4	4	4	4	4	4	2	1	3
Surgery	13	12	11	11	10	10	9	8	9	13
Urology	2	1	2	3	2	3	2	1	3	3
Otolaryngology	142	149	159	157	164	157	152	178	196	188
Pathology	928	881	851	773	762	749	710	774	822	860
Pediatrics	769	803	777	764	715	715	679	720	734	791
Physical Medicine & Rehab	31	35	33	37	34	42	50	60	61	60
Plastic Surgery	3	0	1	1	0	0	1	0	1	0
Psychiatry	1010	990	904	896	822	846	864	899	903	932
Radiation-Diagnostic/Oncology	529	516	526	495	503	499	526	607	604	619
Surgery	413	390	369	359	360	350	384	412	449	489
Urology	78	77	83	76	63	60	61	60	61	67

Supplementary Table 3: Number of NIH advanced career grants (R01, R03, R21, P30, U01) awarded from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
R01										
Anesthesiology	199	214	214	227	212	211	217	250	250	264
Dermatology	115	124	126	116	111	106	106	121	124	110
Emergency Medicine	26	30	30	33	39	38	42	49	54	74
Family Medicine	77	85	76	68	77	71	70	75	89	99
Internal Medicine/Medicine	3250	3114	2917	2831	2804	2903	3026	3184	3317	3455
Neurology	520	551	538	522	528	540	563	639	664	704
Neurosurgery	138	141	140	131	161	166	175	190	204	223
Obstetrics and Gynecology	145	133	139	131	132	154	177	171	207	231
Ophthalmology	340	362	351	371	358	349	380	408	436	468
Orthopedics	111	119	134	124	121	131	138	141	152	178
Otolaryngology	142	149	159	157	164	157	152	178	196	188
Pathology	928	881	851	773	762	749	710	774	822	860
Pediatrics	769	803	777	764	715	715	679	720	734	791
Physical Medicine & Rehab	31	35	33	37	34	42	50	60	61	60
Plastic Surgery	3	0	1	1	0	0	1	0	1	0
Psychiatry	1010	990	904	896	822	846	864	899	903	932
Radiation-Diagnostic/Oncology	529	516	526	495	503	499	526	607	604	619
Surgery	413	390	369	359	360	350	384	412	449	489
Urology	78	77	83	76	63	60	61	60	61	67
R03										
Anesthesiology	6	9	6	6	4	4	6	9	8	5
Dermatology	5	6	2	4	8	9	7	4	4	5
Emergency Medicine	1	1	1	1	4	4	5	4	2	4
Family Medicine	8	9	9	7	6	5	2	2	5	3
Internal Medicine/Medicine	118	139	132	124	110	90	91	102	120	121
Neurology	10	9	11	12	13	16	15	15	15	13
Neurosurgery	3	8	8	5	7	4	2	2	2	6
Obstetrics and Gynecology	8	12	10	12	10	11	15	17	14	10
Ophthalmology	0	0	0	2	3	1	1	2	3	3
Orthopedics	10	10	12	14	10	7	3	3	7	7
Otolaryngology	13	18	19	15	14	12	12	10	2	3
Pathology	25	23	21	20	15	9	12	21	26	25
Pediatrics	38	29	35	34	34	43	35	41	38	35
Physical Medicine & Rehab	7	7	5	7	5	5	3	4	7	8
Plastic Surgery	0	0	0	0	0	1	1	0	0	0
Psychiatry	25	28	30	22	20	23	29	23	20	16
Radiation-Diagnostic/Oncology	8	7	10	17	21	9	11	18	22	22
Surgery	15	20	17	17	19	14	25	21	11	15
Urology	1	3	2	4	5	3	1	1	3	4
R21										
Anesthesiology	27	24	27	21	28	27	26	37	39	33
Dermatology	19	18	18	26	21	14	15	16	15	20
Emergency Medicine	6	5	3	5	6	5	7	10	6	5
Family Medicine	14	16	19	20	24	23	14	12	16	16
Internal Medicine/Medicine	375	407	393	368	379	394	375	376	377	385
Neurology	64	78	73	73	72	79	82	93	107	70
Neurosurgery	13	18	22	21	35	36	27	26	41	33
Obstetrics and Gynecology	33	28	27	25	24	24	21	28	33	43
Ophthalmology	21	19	30	29	36	34	24	31	51	52
Orthopedics	14	20	19	15	16	16	26	36	26	27
Otolaryngology	14	16	21	28	23	14	15	31	30	33
Pathology	124	104	112	140	160	166	138	117	113	108
Pediatrics	104	95	102	108	121	123	116	118	127	132
Physical Medicine & Rehab	4	7	11	9	4	9	13	10	13	9
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	122	166	191	179	156	151	153	149	155	158

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Radiation-Diagnostic/On	97	101	102	115	121	118	115	89	103	101
Surgery	58	54	46	48	62	68	50	49	51	54
Urology	8	9	5	4	10	13	9	7	8	10
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	0	0	0	1	0	0	0	0	0	0
Dermatology	11	8	8	11	8	12	11	5	4	4
Emergency Medicine	0	0	0	0	0	0	0	0	0	0
Family Medicine	0	4	4	4	4	4	1	1	4	4
Internal Medicine/Medicine	248	217	206	248	312	353	283	558	333	364
Neurology	15	19	16	14	14	16	16	18	21	32
Neurosurgery	3	3	3	2	2	1	1	1	2	0
Obstetrics and Gynecology	3	3	2	3	5	6	0	3	6	10
Ophthalmology	31	37	30	29	32	29	29	31	29	26
Orthopedics	4	4	4	5	5	5	5	5	6	6
Otolaryngology	15	8	7	8	6	5	1	61	1	6
Pathology	17	18	20	23	26	27	27	20	13	15
Pediatrics	17	21	23	18	18	20	18	12	14	25
Physical Medicine & Rehab	0	0	0	0	0	0	0	0	0	0
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	13	15	17	15	20	13	11	9	11	9
Radiation-Diagnostic/Oncology	5	6	5	7	8	7	10	10	12	11
Surgery	13	11	15	12	24	27	20	127	22	29
Urology	7	6	5	6	6	9	0	0	0	0
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	7	7	7	12	9	15	14	15	12	13
Dermatology	3	5	7	6	8	5	5	6	9	11
Emergency Medicine	10	13	17	14	8	5	4	8	3	7
Family Medicine	11	14	12	11	15	15	13	15	15	10
Internal Medicine/Medicine	386	399	432	381	417	414	439	491	564	589
Neurology	33	40	40	54	56	78	62	70	68	76
Neurosurgery	6	4	8	7	13	27	25	21	10	8
Obstetrics and Gynecology	15	17	8	13	23	13	16	12	9	11
Ophthalmology	4	7	5	5	5	5	6	10	12	8
Orthopedics	0	0	1	2	1	1	0	0	1	1
Otolaryngology	4	4	3	4	3	3	4	5	4	4
Pathology	54	54	46	33	29	32	32	35	38	37
Pediatrics	130	128	116	120	124	103	109	110	111	110
Physical Medicine & Rehab	4	3	7	7	8	5	5	6	3	3
Plastic Surgery	0	0	0	0	0	0	0	1	1	1
Psychiatry	53	87	79	85	104	83	75	88	92	79
Radiation-Diagnostic/Oncology	14	18	22	26	34	29	40	54	56	49
Surgery	51	53	57	47	51	47	52	63	57	58
Urology	14	15	17	20	17	16	19	15	15	14

Supplementary Table 4: Number of active physicians per awarded NIH training grant (F32, T32) from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
F32										
Anesthesiology	1004	6740	5095	5865	41351	41557	1393	8403	21134	7045
Dermatology	2705	2773	3788	5767	3902	3960	2410	3071	12516	4172
Emergency Medicine	33984	35613	37241	-	-	-	-	-	-	45202
Family Medicine	-	-	-	110106	111295	-	-	-	-	-
Internal Medicine/Medicine	865	983	957	1042	1047	965	875	1025	1113	1036
Neurology	861	1304	658	428	462	589	473	516	488	643
Neurosurgery	631	639	646	657	535	544	615	376	719	479
Obstetrics and Gynecology	10094	6767	10207	10288	8296	10392	13885	7031	8544	8544
Ophthalmology	4486	2590	2617	2051	1549	2338	1882	2724	2146	1931
Orthopedics	3964	3266	3875	3852	3191	3179	3167	2719	2724	2724
Otolaryngology	923	1325	1331	937	1569	1184	680	965	1222	1630
Pathology	681	844	623	614	578	523	535	749	790	973
Pediatrics	2220	2070	2344	2371	3197	3411	3896	4579	3190	5052
Physical Medicine & Rehab	8503	8705	-	9035	9164	9254	3114	2389	3256	4884
Plastic Surgery	-	-	-	-	-	-	-	-	7317	-
Psychiatry	982	1303	1332	1443	1398	1309	1317	1540	1338	1212
Radiation-Diagnostic/Oncology	2318	4387	7550	38191	19316	4360	4981	5796	10324	5900
Surgery	1548	1717	1937	1327	1203	1257	1473	1265	1704	1704
Urology	4913	4899	4886	1958	4904	3288	3307	10061	10201	10201
T32										
Anesthesiology	3086	2696	2911	2415	1969	2187	1670	2211	2113	2818
Dermatology	902	924	947	1049	1080	1096	1228	1788	1565	1565
Emergency Medicine	-	-	-	-	-	40964	21174	21888	22601	22601
Family Medicine	21310	26933	18153	22021	27824	28101	12613	23171	29550	23640
Internal Medicine/Medicine	285	283	311	319	337	337	256	322	346	329
Neurology	349	383	411	415	462	452	361	387	404	382
Neurosurgery	1682	1703	1724	1753	1069	1088	922	1410	958	719
Obstetrics and Gynecology	3365	3691	3402	3741	3457	4157	3204	6027	5340	3884
Ophthalmology	1196	1133	872	971	1094	1039	697	867	743	840
Orthopedics	2478	2178	2422	2751	2735	2725	2375	2719	2724	2384
Otolaryngology	769	773	847	669	627	631	328	568	611	611
Pathology	174	191	196	171	195	187	144	190	214	230
Pediatrics	514	565	625	654	639	690	664	815	819	842
Physical Medicine & Rehab	945	2176	2227	3012	3055	2313	1869	1911	2442	1953

Plastic Surgery	-	-	-	-	-	-	-	-	-	
Psychiatry	497	478	466	475	531	535	357	558	570	546
Radiation-Diagnostic/Oncology	1475	1755	1716	1469	1380	1453	1207	1268	1377	1588
Surgery	487	460	466	525	526	513	439	477	441	465
Urology	1404	1225	1396	1224	1962	1644	2480	5031	2550	2550

Supplementary Table 5: Number of active physicians per awarded NIH career development grant (K01, K08, K23) from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
K01										
Anesthesiology	10031	10110	10190	8211	8270	8311	6960	5252	8453	6038
Dermatology	2705	2773	1894	2884	1951	1697	1096	945	1252	1565
Emergency Medicine	-	35613	37241	38410	19790	-	-	43775	45202	22601
Family Medicine	9686	8287	10892	15729	15899	14051	14189	12873	13133	7880
Internal Medicine/Medicine	839	880	881	782	718	803	856	765	707	683
Neurology	1076	1003	822	781	788	713	686	733	615	745
Neurosurgery	1682	1703	5171	-	-	5439	-	2820	1916	1916
Obstetrics and Gynecology	20189	40602	20413	10288	8296	8314	5951	7031	5340	5340
Ophthalmology	-	-	-	18455	-	-	18817	9532	9656	19312
Orthopedics	3964	4900	2768	2751	1915	2725	3167	3807	3178	3814
Otolaryngology	4616	4638	4660	4683	-	-	-	-	-	9777
Pathology	1152	1024	914	964	1022	1089	988	796	744	602
Pediatrics	2775	3493	3126	2995	3596	2320	2541	2835	2636	2245
Physical Medicine & Rehab	2834	2176	2227	1506	1309	1157	719	735	977	814
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	473	450	491	500	524	567	546	592	539	479
Radiation-Diagnostic/Oncology	1909	2340	2904	3472	2759	2803	2097	2254	2753	3754
Surgery	3289	3679	2290	3603	2525	2096	1926	2811	3196	3652
Urology	9826	9799	9771	9790	3269	2466	1654	2012	2040	1700
K08										
Anesthesiology	3344	2889	2717	2737	3446	2770	2784	1827	1691	2113
Dermatology	637	504	758	769	732	914	927	945	1043	1252
Emergency Medicine	11328	8903	6207	9603	7916	5852	4705	5472	7534	7534
Family Medicine	21310	21547	21783	55053	111295	112405	113514	115856	39399	39399
Internal Medicine/Medicine	405	409	461	467	496	471	490	481	437	452
Neurology	340	352	337	415	352	411	416	464	393	393
Neurosurgery	721	730	646	657	486	418	395	513	479	575
Obstetrics and Gynecology	5768	4511	5832	8231	20741	13856	20828	7031	6103	6103
Ophthalmology	718	755	654	595	563	693	752	706	840	805
Orthopedics	19822	6533	4844	4815	4786	4768	2714	2379	2724	3178
Otolaryngology	769	714	717	851	724	861	1058	877	1086	978
Pathology	428	410	416	375	403	568	514	439	452	506
Pediatrics	509	565	592	677	710	630	513	518	532	606
Physical Medicine & Rehab	-	4352	-	-	-	-	-	9555	9767	9767
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	1160	1219	1963	1501	1509	1726	1661	1674	1940	1616
Radiation-Diagnostic/Oncology	6489	7020	7550	5456	12877	19620	13282	10143	2950	2429
Surgery	454	444	494	587	683	613	626	588	568	568
Urology	1092	1225	888	1632	2452	1973	1984	2515	1700	2040
K23										
Anesthesiology	4458	4044	3135	3158	3446	4156	3212	3501	2486	2486
Dermatology	3607	2773	3788	11535	3902	2970	3013	1365	1252	1565
Emergency Medicine	1888	2374	2483	2744	2639	2156	2017	2304	2260	3013
Family Medicine	11839	13467	18153	36702	18549	28101	22703	23171	19700	16885
Internal Medicine/Medicine	356	349	363	379	413	438	468	477	483	420
Neurology	212	221	274	265	258	315	286	263	244	248
Neurosurgery	2524	1277	1034	1315	1069	1088	1383	1410	1150	958
Obstetrics and Gynecology	3365	2900	3711	2940	4148	8314	5951	5274	4272	3560
Ophthalmology	1196	1648	1409	1678	1430	935	896	908	920	966
Orthopedics	9911	6533	6458	6420	9573	9537	19001	6345	6356	4767
Otolaryngology	1154	1546	1553	1041	784	861	794	804	815	815
Pathology	3744	4781	6855	4499	6643	13063	12839	12741	12643	4214
Pediatrics	591	601	632	639	728	892	687	640	561	470
Physical Medicine & Rehab	1215	1451	891	753	1018	925	1557	4778	3256	3256
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	322	323	359	379	377	408	375	374	353	343
Radiation-Diagnostic/Oncology	5408	8774	9438	9548	9658	9810	9962	20286	41297	13766
Surgery	2024	2146	2290	2293	2525	2515	2782	3163	2840	1966
Urology	4913	9799	4886	3263	4904	3288	4961	10061	3400	3400

Supplementary Table 6: Number of active physicians per awarded NIH advanced career grant (R01, R03, R21, P30, U01) from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
R01										
Anesthesiology	202	189	190	181	195	197	192	168	169	160
Dermatology	94	89	90	99	101	107	114	102	101	114
Emergency Medicine	1307	1187	1241	1164	1015	1078	1008	893	837	611
Family Medicine	1384	1267	1433	1619	1445	1583	1622	1545	1328	1194
Internal Medicine/Medicine	34	35	38	40	41	40	38	37	36	35
Neurology	25	24	24	25	25	25	24	23	21	20
Neurosurgery	37	36	37	40	33	33	32	30	28	26
Obstetrics and Gynecology	278	305	294	314	314	270	235	247	206	185
Ophthalmology	53	50	52	50	52	54	50	47	44	41
Orthopedics	179	165	145	155	158	146	138	135	125	107
Otolaryngology	65	62	59	60	57	60	63	54	50	52
Pathology	16	16	16	17	17	17	18	16	15	15

Pediatrics	72	70	72	74	80	81	86	83	83	77
Physical Medicine & Rehab	274	249	270	244	270	220	187	159	160	163
Plastic Surgery	2274	-	6942	6981	-	-	7142	-	7317	-
Psychiatry	38	38	41	42	46	45	44	43	43	42
Radiation-Diagnostic/Oncology	61	68	72	77	77	79	76	67	68	67
Surgery	64	66	68	70	70	72	65	61	57	52
Urology	126	127	118	129	156	164	163	168	167	152
R03	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	6687	4493	6793	6842	10338	10389	6960	4668	5283	8453
Dermatology	2164	1849	5682	2884	1463	1320	1722	3071	3129	2503
Emergency Medicine	33984	35613	37241	38410	9895	10241	8470	10944	22601	11301
Family Medicine	13319	11970	12102	15729	18549	22481	56757	57928	23640	39399
Internal Medicine/Medicine	924	792	841	908	1037	1276	1270	1156	1001	993
Neurology	1292	1448	1196	1106	1030	847	914	929	944	1088
Neurosurgery	1682	639	646	1052	764	1360	2766	2820	2874	958
Obstetrics and Gynecology	5047	3383	4083	3429	4148	3779	2777	2482	3051	4272
Ophthalmology	-	-	-	9228	6198	18705	18817	9532	6437	6437
Orthopedics	1982	1960	1615	1376	1915	2725	6334	6345	2724	2724
Otolaryngology	710	515	491	624	672	789	794	965	4889	3259
Pathology	599	624	653	675	886	1451	1070	607	486	506
Pediatrics	1461	1928	1607	1674	1692	1349	1670	1452	1595	1732
Physical Medicine & Rehab	1215	1244	1781	1291	1833	1851	3114	2389	1395	1221
Plastic Surgery	-	-	-	-	-	7081	7142	-	-	-
Psychiatry	1531	1350	1243	1705	1887	1651	1317	1674	1940	2425
Radiation-Diagnostic/Oncology	4056	5014	3775	2247	1840	4360	3622	2254	1877	1877
Surgery	1754	1288	1482	1484	1329	1796	1002	1205	2324	1704
Urology	9826	3266	4886	2447	1962	3288	9921	10061	3400	2550
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1486	1685	1510	1955	1477	1539	1606	1136	1084	1281
Dermatology	569	616	631	444	557	848	803	768	834	626
Emergency Medicine	5664	7123	12414	7682	6597	8193	6050	4378	7534	9040
Family Medicine	7611	6733	5732	5505	4637	4887	8108	9655	7387	7387
Internal Medicine/Medicine	291	270	283	306	301	291	308	313	319	312
Neurology	202	167	180	182	186	172	167	150	132	202
Neurosurgery	388	284	235	250	153	151	205	217	140	174
Obstetrics and Gynecology	1224	1450	1512	1646	1728	1732	1984	1507	1295	993
Ophthalmology	854	954	611	636	516	550	784	615	379	371
Orthopedics	1416	980	1020	1284	1197	1192	731	529	733	706
Otolaryngology	659	580	444	334	409	676	635	311	326	296
Pathology	121	138	122	96	83	79	93	109	112	117
Pediatrics	534	588	552	527	476	471	504	504	477	459
Physical Medicine & Rehab	2126	1244	810	1004	2291	1028	719	956	751	1085
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	314	228	195	210	242	251	250	258	250	246
Radiation-Diagnostic/Oncology	334	348	370	332	319	333	346	456	401	409
Surgery	454	477	548	525	407	370	501	516	501	473
Urology	1228	1089	1954	2447	981	759	1102	1437	1275	1020
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	-	-	-	41055	-	-	-	-	-	-
Dermatology	984	1386	1420	1049	1463	990	1096	2457	3129	3129
Emergency Medicine	-	-	-	-	-	-	-	-	-	-
Family Medicine	-	26933	27229	27527	27824	28101	11351	11585	29550	29550
Internal Medicine/Medicine	440	507	539	454	366	325	408	211	361	330
Neurology	861	686	822	948	957	847	857	774	674	442
Neurosurgery	1682	1703	1724	2629	2673	5439	5531	5640	2874	-
Obstetrics and Gynecology	1345	13534	2041	13718	8296	6928	-	14063	7120	4272
Ophthalmology	579	490	611	636	581	645	649	615	666	743
Orthopedics	4956	4900	4844	3852	3829	3815	3800	3807	3178	3178
Otolaryngology	615	1160	1331	1171	1569	1894	9526	158	9777	1630
Pathology	881	797	686	587	511	484	476	637	973	843
Pediatrics	3265	2661	2446	3161	3197	2899	3246	4961	4330	2425
Physical Medicine & Rehab	-	-	-	-	-	-	-	-	-	-
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	2945	2520	2194	2501	1887	2921	3473	4278	3527	4310
Radiation-Diagnostic/Oncology	6489	5850	7550	5456	4829	5606	3985	4057	3441	3754
Surgery	2024	2341	1679	2102	1052	931	1252	199	1162	882
Urology	1404	1633	1954	1632	1635	1096	-	-	-	-
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	5732	5777	5823	3421	4595	2770	2983	2801	3522	3251
Dermatology	3607	2218	1623	1922	1463	2376	2410	2047	1391	1138
Emergency Medicine	3398	2739	2191	2744	4947	8193	10587	5472	15067	6457
Family Medicine	9686	7695	9076	10010	7420	7494	8732	7724	7880	11820
Internal Medicine/Medicine	283	276	257	295	274	277	263	240	213	204
Neurology	391	326	329	246	239	174	221	199	208	186
Neurosurgery	841	1277	646	751	411	201	221	269	575	719
Obstetrics and Gynecology	2692	2388	5103	3166	1804	3198	2604	3516	4747	3884
Ophthalmology	4486	2590	3663	3691	3719	3741	3136	1906	1609	2414
Orthopedics	-	-	19374	9629	19145	19073	-	-	19069	19069
Otolaryngology	2308	2319	3107	2341	3137	3156	2382	1930	2444	2444
Pathology	277	266	298	409	458	408	401	364	333	342
Pediatrics	427	437	485	474	464	563	536	541	546	551

Physical Medicine & Rehab	2126	2902	1272	1291	1146	1851	1869	1593	3256	3256
Plastic Surgery	-	-	-	-	-	-	-	7230	7317	7317
Psychiatry	722	434	472	441	363	457	509	437	422	491
Radiation-Diagnostic/Oncology	2318	1950	1716	1469	1136	1353	996	751	737	843
Surgery	516	486	442	537	495	535	482	402	448	441
Urology	702	653	575	489	577	617	522	774	680	729

Supplementary Table 7: Total NIH training grant (F32, T32) funding in thousands of dollars from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
F32										
Anesthesiology	192	309	397	305	24	58	171	288	122	390
Dermatology	173	223	156	86	149	167	231	233	66	198
Emergency Medicine	59	54	62	0	0	0	0	0	0	65
Family Medicine	0	0	0	56	20	0	0	0	0	0
Internal Medicine/Medicine	6543	5803	5850	5543	5833	6417	6236	6436	6670	7700
Neurology	732	449	964	1539	1457	1296	1234	1520	1584	1393
Neurosurgery	421	365	338	413	503	538	529	802	443	726
Obstetrics and Gynecology	209	290	175	215	276	229	146	356	310	304
Ophthalmology	180	351	385	491	644	398	430	420	532	567
Orthopedics	247	288	252	231	321	288	331	429	446	471
Otolaryngology	527	384	355	508	297	463	595	542	500	434
Pathology	1141	865	955	1023	1207	1368	892	1052	980	726
Pediatrics	1339	1416	1246	1229	867	773	737	762	1158	667
Physical Medicine & Rehab	51	52	0	56	41	69	188	246	197	137
Plastic Surgery	0	0	0	0	0	0	0	0	71	0
Psychiatry	1921	1391	1318	1254	1424	1560	1178	1385	1700	2021
Radiation-Diagnostic/Oncology	708	400	185	55	112	478	383	429	269	456
Surgery	831	760	662	983	1149	1027	942	1285	1008	1091
Urology	116	106	111	223	121	156	118	74	66	80
T32										
Anesthesiology	2305	2641	2729	3258	4813	4967	5373	5038	5083	4496
Dermatology	2246	2446	2263	1840	2359	2357	2268	2180	1957	2035
Emergency Medicine	0	0	0	0	0	169	740	894	916	731
Family Medicine	1235	1172	1528	1487	1507	1328	2196	1739	1472	1750
Internal Medicine/Medicine	115016	115950	111668	111459	115327	119832	120062	132678	134551	139263
Neurology	9544	8462	8315	10030	9009	9960	10802	11276	9092	11524
Neurosurgery	592	531	582	600	1739	1820	1644	2273	3672	4010
Obstetrics and Gynecology	2392	2382	2526	2622	2685	2442	2154	1666	1762	2863
Ophthalmology	2879	3175	4438	4390	4005	3857	3762	4064	4869	4752
Orthopedics	1751	2082	1823	1617	1686	1676	1832	1568	1675	2073
Otolaryngology	2477	3339	2847	3672	3961	3768	4342	4372	4284	4832
Pathology	327477	291955	262466	26906	24478	24051	25070	24675	22805	20179
Pediatrics	24470	24006	22657	21653	24482	24548	21927	24246	25047	25786
Physical Medicine & Rehab	1431	1068	1092	844	939	1004	1063	1287	1263	1605
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	20056	20663	20323	19112	18134	20311	21132	21545	22702	26075
Radiation-Diagnostic/Oncology	5579	4095	4651	4886	5477	7208	6005	7795	7771	6639
Surgery	12609	12273	11253	10806	10501	12327	13198	16012	17863	16442
Urology	1084	1224	1151	1166	648	906	623	335	989	1156

Inflation-Adjusted Total NIH training grant (F32, T32) funding in thousands of dollars from 2011-2020 by specialty

	1.000	0.982	0.964	0.946	0.935	0.928	0.911	0.891	0.874	0.862
F32										
Anesthesiology	192	303	383	289	22	54	156	257	107	336
Dermatology	173	219	150	81	139	155	211	208	58	171
Emergency Medicine	59	53	60	0	0	0	0	0	0	56
Family Medicine	0	0	0	53	19	0	0	0	0	0
Internal Medicine/Medicine	6543	5699	5641	5244	5456	5953	5684	5732	5827	6638
Neurology	732	441	930	1456	1363	1202	1125	1354	1384	1201
Neurosurgery	421	358	326	391	470	499	482	714	387	626
Obstetrics and Gynecology	209	285	169	203	258	212	133	317	271	262
Ophthalmology	180	345	371	465	602	369	392	374	465	489
Orthopedics	247	283	243	219	300	267	302	382	390	406
Otolaryngology	527	377	342	481	278	430	542	483	437	374
Pathology	1141	849	921	968	1129	1269	813	937	856	626
Pediatrics	1339	1391	1202	1163	811	717	672	679	1012	575
Physical Medicine & Rehab	51	51	0	53	38	64	171	219	172	118
Plastic Surgery	0	0	0	0	0	0	0	0	62	0
Psychiatry	1921	1366	1271	1186	1332	1447	1074	1234	1485	1742
Radiation-Diagnostic/Oncology	708	393	178	52	105	443	349	382	235	393
Surgery	831	746	638	930	1075	953	859	1145	881	941
Urology	116	104	107	211	113	145	108	66	58	69
T32										
Anesthesiology	2305	2594	2632	3082	4502	4608	4897	4487	4440	3876
Dermatology	2246	2402	2182	1741	2206	2187	2067	1942	1710	1754
Emergency Medicine	0	0	0	0	0	157	674	796	800	630
Family Medicine	1235	1151	1474	1407	1410	1232	2002	1549	1286	1509
Internal Medicine/Medicine	115016	113866	107687	105445	107871	111165	109429	118174	117542	120064
Neurology	9544	8310	8019	9489	8427	9240	9845	10043	7943	9935
Neurosurgery	592	521	561	568	1627	1688	1498	2025	3208	3457
Obstetrics and Gynecology	2392	2339	2436	2481	2511	2265	1963	1484	1539	2468

Ophthalmology	2879	3118	4280	4153	3746	3578	3429	3620	4253	4097
Orthopedics	1751	2045	1758	1530	1577	1555	1670	1397	1463	1787
Otolaryngology	2477	3279	2745	3474	3705	3495	3957	3894	3742	4166
Pathology	327477	286708	253108	25454	22895	22311	22850	21978	19922	17397
Pediatrics	24470	23575	21849	20485	22899	22773	19985	21595	21881	22231
Physical Medicine & Rehab	1431	1049	1053	798	878	931	969	1146	1103	1384
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	20056	20292	19598	18081	16962	18842	19260	19190	19832	22480
Radiation-Diagnostic/Oncology	5579	4021	4485	4622	5123	6687	5473	6943	6789	5724
Surgery	12609	12052	10852	10223	9822	11435	12029	14262	15605	14175
Urology	1084	1202	1110	1103	606	840	568	298	864	997

Supplementary Table 8: Total NIH career development grant (K01, K08, K23) funding in thousands of dollars from 2011-2020 by specialty

K01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	480	485	463	613	884	888	1031	1209	655	990
Dermatology	375	467	596	445	647	779	1280	1341	1030	940
Emergency Medicine	0	136	134	132	276	0	0	41	123	247
Family Medicine	1241	1561	1182	896	930	1072	1086	1278	1167	2082
Internal Medicine/Medicine	16576	15393	15612	18721	20557	18980	19473	22017	24366	24771
Neurology	1619	1813	2313	2554	2501	2809	2734	2635	2983	2344
Neurosurgery	298	241	127	0	0	105	0	318	454	328
Obstetrics and Gynecology	279	171	313	640	779	742	953	771	1024	1114
Ophthalmology	0	0	0	131	0	0	145	253	260	145
Orthopedics	618	472	808	850	1105	885	750	615	700	588
Otolaryngology	274	274	274	260	0	0	0	0	0	130
Pathology	1538	1635	1698	1500	1507	2011	2106	2359	2072	2764
Pediatrics	2485	2140	2285	2465	2174	3086	3156	3056	3452	3592
Physical Medicine & Rehab	344	365	489	733	864	992	1686	1664	1336	1510
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	12041	12151	11042	11433	10732	10180	10475	10189	11101	12219
Radiation-Diagnostic/Oncology	2091	1961	1517	1575	1710	1929	2705	2437	1931	1512
Surgery	999	861	1240	886	1353	1716	2081	1590	1374	1012
Urology	106	106	106	137	440	594	846	700	699	869
K08	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1636	1831	2071	2275	2120	2058	2662	3792	4516	3980
Dermatology	2225	2309	1938	1733	1802	1934	1958	1802	2016	1629
Emergency Medicine	283	568	875	593	746	1091	1136	1284	1113	1121
Family Medicine	611	616	678	275	148	146	168	168	515	504
Internal Medicine/Medicine	37528	36346	33277	34241	32022	37178	37443	41602	46610	47123
Neurology	6333	5782	6588	5789	5803	5416	5683	5691	6525	7391
Neurosurgery	1160	1197	1446	1153	1658	1867	2222	2009	2370	1805
Obstetrics and Gynecology	1072	1077	952	598	244	374	334	907	1110	1675
Ophthalmology	4904	5063	5336	6174	6111	5435	5502	5280	5054	4877
Orthopedics	179	269	519	438	485	871	1201	1031	847	990
Otolaryngology	1995	2189	2122	1833	2265	2069	1684	1933	2167	1880
Pathology	4861	4286	4572	4859	4564	3929	3803	4681	4720	5225
Pediatrics	15014	13220	12960	12372	11670	13420	17141	19548	19397	18773
Physical Medicine & Rehab	125	125	125	0	0	0	0	171	171	172
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	5684	5023	3287	4502	3704	3895	4264	3698	3256	4261
Radiation-Diagnostic/Oncology	811	820	820	915	832	172	532	610	2888	3757
Surgery	7904	8045	6671	6572	5420	6127	6343	7333	7654	8321
Urology	1217	1197	1391	1060	662	824	843	830	1111	1098
K23	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1200	1558	1839	2035	1853	1538	2247	2154	3073	2977
Dermatology	368	491	252	123	257	669	694	1364	1557	1339
Emergency Medicine	2344	2111	2311	2158	2213	3113	3733	3333	3579	2590
Family Medicine	1388	1256	901	440	648	585	808	801	985	1100
Internal Medicine/Medicine	44386	46176	45669	44077	40587	43388	43248	44087	44953	50235
Neurology	8996	8961	7778	8382	8632	7030	8764	9346	10301	10534
Neurosurgery	372	712	922	695	840	727	734	735	927	1123
Obstetrics and Gynecology	1602	1806	1387	1695	1160	648	1143	1352	1734	2034
Ophthalmology	2853	2347	2644	2238	2693	4070	4562	4059	4513	4234
Orthopedics	337	391	320	318	195	347	173	369	494	548
Otolaryngology	1485	1252	1235	1902	2599	2144	2433	2431	2297	1823
Pathology	517	400	265	405	277	137	146	142	190	528
Pediatrics	12950	12743	12301	12112	10974	10253	14883	16378	18825	22283
Physical Medicine & Rehab	994	943	1511	1638	1305	1231	992	270	454	442
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	19068	18203	16841	16115	15647	15318	18084	17910	19349	19642
Radiation-Diagnostic/Oncology	952	659	632	650	647	694	723	359	196	578
Surgery	1704	1671	1479	1572	1469	1940	1610	1465	1556	2246
Urology	314	154	297	465	301	436	312	144	505	503

Inflation-Adjusted Total NIH career development grant (K01, K08, K23) funding in thousands of dollars from 2011-2020 by specialty

K01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	480	476	446	580	827	824	940	1077	573	854
Dermatology	375	459	575	421	605	723	1167	1194	900	810
Emergency Medicine	0	134	129	125	258	0	0	37	107	213
Family Medicine	1241	1533	1140	848	870	994	990	1138	1019	1795
Internal Medicine/Medicine	16576	15116	15055	17711	19228	17607	17748	19610	21286	21356
Neurology	1619	1780	2231	2416	2339	2606	2492	2347	2606	2021

Neurosurgery	298	237	122	0	0	97	0	283	397	283
Obstetrics and Gynecology	279	168	302	605	729	688	869	687	895	960
Ophthalmology	0	0	0	124	0	0	132	225	227	125
Orthopedics	618	464	779	804	1034	821	684	548	612	507
Otolaryngology	274	269	264	246	0	0	0	0	0	112
Pathology	1538	1606	1637	1419	1410	1866	1919	2101	1810	2383
Pediatrics	2485	2102	2204	2332	2033	2863	2876	2722	3016	3097
Physical Medicine & Rehab	344	358	472	693	808	920	1537	1482	1167	1302
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	12041	11933	10648	10816	10038	9444	9547	9075	9698	10535
Radiation-Diagnostic/Oncology	2091	1926	1463	1490	1599	1789	2465	2171	1687	1304
Surgery	999	846	1196	838	1266	1592	1897	1416	1200	872
Urology	106	104	102	130	412	551	771	623	611	749
K08	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1636	1798	1997	2152	1983	1909	2426	3377	3945	3431
Dermatology	2225	2268	1869	1639	1686	1794	1785	1605	1761	1404
Emergency Medicine	283	558	844	561	698	1012	1035	1144	972	966
Family Medicine	611	605	654	260	138	135	153	150	450	435
Internal Medicine/Medicine	37528	35693	32091	32393	29952	34489	34127	37054	40718	40627
Neurology	6333	5678	6353	5477	5428	5024	5180	5069	5700	6372
Neurosurgery	1160	1175	1394	1091	1551	1732	2025	1789	2070	1556
Obstetrics and Gynecology	1072	1058	918	566	228	347	304	808	970	1444
Ophthalmology	4904	4972	5146	5841	5716	5042	5015	4703	4415	4205
Orthopedics	179	264	500	414	454	808	1095	918	740	854
Otolaryngology	1995	2150	2046	1734	1919	1519	1535	1722	1893	1621
Pathology	4861	4209	4409	4597	4269	3645	3466	4169	4123	4505
Pediatrics	15014	12982	12498	11704	10916	12449	15623	17411	16945	16185
Physical Medicine & Rehab	125	123	121	0	0	0	0	152	149	148
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	5684	4933	3170	4259	3465	3613	3886	3294	2844	3674
Radiation-Diagnostic/Oncology	811	805	791	866	778	160	485	543	2523	3239
Surgery	7904	7900	6433	6217	5070	5684	5781	6531	6686	7174
Urology	1217	1175	1341	1003	619	764	768	739	971	947
K23	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1200	1530	1773	1925	1733	1427	2048	1919	2685	2567
Dermatology	368	482	243	116	240	621	633	1215	1360	1154
Emergency Medicine	2344	2073	2229	2042	2070	2888	3402	2969	3127	2233
Family Medicine	1388	1233	869	416	606	543	736	713	860	948
Internal Medicine/Medicine	44386	45346	44041	41699	37963	40250	39418	39267	39270	43310
Neurology	8996	8800	7501	7930	8074	6522	7988	8324	8999	9082
Neurosurgery	372	699	889	657	786	674	669	655	810	968
Obstetrics and Gynecology	1602	1774	1338	1604	1085	601	1042	1204	1515	1754
Ophthalmology	2853	2305	2550	2117	2519	3776	4158	3615	3942	3650
Orthopedics	337	384	309	301	182	322	158	329	432	472
Otolaryngology	1485	1229	1191	1799	2431	1989	2218	2165	2007	1572
Pathology	517	393	256	383	259	127	133	126	166	455
Pediatrics	12950	12514	11862	11458	10265	9511	13565	14588	16445	19211
Physical Medicine & Rehab	994	926	1457	1550	1221	1142	904	240	397	381
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	19068	17876	16241	15245	14635	14210	16482	15952	16903	16934
Radiation-Diagnostic/Oncology	952	647	609	615	605	644	659	320	171	498
Surgery	1704	1641	1426	1487	1374	1800	1467	1305	1359	1936
Urology	314	151	286	440	282	404	284	128	441	434

Supplementary Table 9: Total NIH advanced career grant (R01, R03, R21, P30, U01) funding in thousands of dollars from 2011-2020 by specialty

R01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	74515	84338	81634	88148	84338	85814	88443	105316	110591	120792
Dermatology	39821	43881	41550	39382	39803	42030	39871	48634	50513	49680
Emergency Medicine	12119	12903	13802	15519	16628	18528	21356	24195	31063	40629
Family Medicine	37541	41499	36942	33725	38982	38711	38849	45070	45999	52595
Internal Medicine/Medicine	1291238	1251856	1150256	1184510	1191770	1289757	1394581	1518667	1645808	1793562
Neurology	213323	221996	213488	217259	219583	245691	282468	336910	347790	416638
Neurosurgery	48188	50932	46894	47635	61235	65217	69463	77096	85492	97974
Obstetrics and Gynecology	50170	47030	47914	48015	52140	63774	75443	79065	97330	115259
Ophthalmology	143557	146741	143466	156156	147880	147840	157163	169590	186335	198853
Orthopedics	37635	40769	44058	44466	42092	47136	51958	55502	60828	70145
Otolaryngology	51992	55813	56307	58138	63423	63655	67549	78620	91749	91134
Pathology	324176	318396	294584	279372	287786	295775	297770	33357	360175	387211
Pediatrics	312475	336173	311585	323344	314062	312097	29934	325846	344660	393939
Physical Medicine & Rehab	11247	13076	13203	15088	13669	17536	23490	27050	28451	30755
Plastic Surgery	967	0	537	302	0	0	333	0	284	0
Psychiatry	470253	459342	406053	420040	400779	431651	45470	494086	510676	54599
Radiation-Diagnostic/Oncology	205633	208397	202747	201325	211587	231175	256833	293765	305237	311946
Surgery	146686	140198	127421	134551	142824	145184	162932	176766	202367	229416
Urology	24013	25102	25021	23243	21703	20603	23240	24148	25147	28303
R03	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	450081	721092	442962	532855	322574	308213	386668	763750	792285	627476
Dermatology	325896	415990	151115	318146	629917	704687	535792	310250	389937	515420
Emergency Medicine	63905	86342	68643	114000	41539	415491	451612	350895	194750	345317
Family Medicine	736834	719578	845671	507967	429418	40752	155583	179250	552565	412944
Internal Medicine/Medicine	9494800	11557791	10699669	10753491	9694220	7907586	7842786	8562404	11413933	1302676

Neurology	96465	656875	855875	1051369	1257543	1688365	1381103	1185473	1536028	1461973
Neurosurgery	39134	780722	767885	386897	593779	357615	16180	161079	160250	565458
Obstetrics and Gynecology	600862	864239	764424	803596	746483	1003704	1331211	139082	1124544	764667
Ophthalmology	0	0	0	195625	271238	81000	117750	19400	322473	329957
Orthopedics	816678	787365	876856	1189895	818017	500294	231895	359624	739085	632940
Otolaryngology	1718440	2272345	2379761	1968522	1885934	1684593	1797130	1311104	320436	474811
Pathology	1925448	1586299	1437747	1451656	1241119	736439	1033500	1799423	2429442	2721395
Pediatrics	2921374	2413639	2699566	2605049	302260	4009767	3103581	3812411	321513	370533
Physical Medicine & Rehab	672323	544268	461397	600245	412624	395279	172249	491150	839096	725944
Plastic Surgery	0	0	0	0	0	77000	77625	0	0	0
Psychiatry	2652569	2711582	2647613	2383628	2119936	2248675	2639599	211641	1885175	1799338
Radiation-Diagnostic/Oncology	783679	518000	742731	1377746	1544365	72650	928242	1578939	2227240	212738
Surgery	1364197	1739046	1377657	1564172	1504562	1191847	2115365	1802267	102415	1631792
Urology	78000	240620	153455	355604	471148	299855	81000	84750	285251	382561
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	5363	4959	5614	5048	6017	6011	5305	7608	9044	7261
Dermatology	3480	3878	3706	4881	3694	2887	3101	3214	3172	4305
Emergency Medicine	1418	1238	677	1135	1061	859	1056	1709	1601	1225
Family Medicine	2736	3339	3520	3912	4672	4043	2436	2462	2749	3270
Internal Medicine/Medicine	77517	82201	76486	74078	74281	79671	76564	76594	77444	84910
Neurology	12904	15721	14688	14878	15211	16928	17462	19479	25806	20145
Neurosurgery	2414	3721	4435	4831	7289	7888	5719	5571	11745	10119
Obstetrics and Gynecology	6800	5278	5734	4890	5247	4730	4449	5749	6279	9901
Ophthalmology	3884	3860	5863	5643	8032	6662	4941	6515	11474	11215
Orthopedics	2763	3619	3394	2686	2878	2916	5150	7074	4837	5113
Otolaryngology	2673	3242	4612	5060	4484	2935	2973	5233	5598	6832
Pathology	24267	21316	22457	28845	33013	33180	28281	24359	24053	25734
Pediatrics	19943	19426	19820	22098	24760	24980	23663	24697	27382	30329
Physical Medicine & Rehab	781	1430	2185	1664	700	1979	2772	2106	2839	2457
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	25223	34861	38259	36372	31818	31144	31685	31006	33529	39248
Radiation-Diagnostic/Oncology	20438	21778	20271	23694	25496	24020	22735	18066	21872	24859
Surgery	11149	10662	8942	10237	12823	13371	9947	9617	10320	12471
Urology	1626	1730	838	740	1802	2463	1761	1385	1519	2247
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	0	0	0	1000	0	0	0	0	0	0
Dermatology	5597	4335	6056	6889	6479	7431	6547	3292	3102	3109
Emergency Medicine	0	0	0	0	0	0	0	0	0	0
Family Medicine	0	480	473	475	475	475	1499	1632	2024	2317
Internal Medicine/Medicine	296235	320454	339482	395655	359149	370938	382260	390765	453863	491128
Neurology	13644	15063	13998	12964	13371	14593	14617	16643	21105	49014
Neurosurgery	1890	2651	2501	1789	1749	638	625	612	698	0
Obstetrics and Gynecology	5801	5801	5158	5379	5786	5762	0	2477	2907	5170
Ophthalmology	18749	21609	17624	17284	16661	15685	15703	17556	17588	17215
Orthopedics	2502	2510	2391	3072	3059	3517	3485	3459	4536	4510
Otolaryngology	4978	4832	4602	4455	2996	2292	615	5495	5130	7681
Pathology	24994	17233	36305	36242	33708	42777	35624	14090	12858	16375
Pediatrics	26289	23223	22244	17069	16976	14906	14370	10935	11681	17155
Physical Medicine & Rehab	0	0	0	0	0	0	0	0	0	0
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	17668	17159	19520	16179	18316	13464	11666	9558	8712	9759
Radiation-Diagnostic/Oncology	2851	3786	4292	5930	11823	6816	8877	8628	11308	12897
Surgery	25238	21484	24298	15973	25296	25363	37629	34242	29825	42739
Urology	4835	4726	3941	5304	5342	6332	0	0	0	0
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	3304	3157	3516	6975	5936	12086	9053	8374	11426	10257
Dermatology	810	2506	2458	2239	4082	2749	3182	3562	8176	5268
Emergency Medicine	18243	16875	8205	7022	4410	3305	6454	25263	1974	14284
Family Medicine	5269	8212	8912	9833	11830	9649	6264	8843	9972	8087
Internal Medicine/Medicine	394866	38472	42765	416081	369849	355612	392159	420565	616327	698031
Neurology	61745	68819	71516	79220	64682	87852	70398	111816	102885	139249
Neurosurgery	4610	4594	15655	15038	11441	25764	27265	13884	6841	5592
Obstetrics and Gynecology	25401	17051	5216	11010	47414	9749	8790	12287	8037	8465
Ophthalmology	2346	2450	1937	1356	2967	3727	3876	6158	6809	7941
Orthopedics	0	0	522	657	197	197	0	0	705	648
Otolaryngology	1413	830	1142	1049	2611	2399	2901	4027	2151	3110
Pathology	45262	29680	27222	19653	19641	24847	27061	32524	29907	32182
Pediatrics	98053	99346	91102	101082	94017	85032	84977	87933	82760	73893
Physical Medicine & Rehab	569	622	3799	3484	3891	3623	3575	1940	5081	7806
Plastic Surgery	0	0	0	0	0	0	0	430	430	430
Psychiatry	41548	58726	53470	60941	67383	59380	51370	58615	92704	78939
Radiation-Diagnostic/Oncology	6629	8597	13873	17159	19558	17338	35114	37462	39601	38376
Surgery	29433	39199	38813	34289	40167	35721	31847	39184	40171	32722
Urology	13453	11343	11810	7735	6550	7265	7641	6918	10617	5158

Inflation-Adjusted Total NIH advanced career grant (R01, R03, R21, P30, U01) funding in thousands of dollars from 2011-2020 by specialty

R01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	74515	82822	78723	83392	78886	79607	80610	93803	96611	104140
Dermatology	39821	43092	40669	37257	37230	38990	36340	43317	44127	42831
Emergency Medicine	12119	12671	13310	14682	15553	17188	19465	21550	27136	35028
Family Medicine	37541	40753	35625	31905	36462	35911	35408	40143	40184	45344

Internal Medicine/Medicine	1291238	1229358	1109245	1120596	1114722	1196474	1271073	1352645	1437753	1546304
Neurology	213323	218006	205876	205536	205387	227921	257452	300079	303824	359201
Neurosurgery	48188	50017	45222	45065	52726	60500	63311	68668	74685	84467
Obstetrics and Gynecology	50170	46185	46206	45424	48769	59162	68762	70422	85026	99370
Ophthalmology	143557	144104	138351	147730	138320	137147	143244	151050	162779	171439
Orthopedics	37635	40036	42487	42067	39371	43727	47356	49434	53138	60475
Otolaryngology	51992	54810	54299	55001	59323	59051	61567	70025	80151	78570
Pathology	324176	312674	284081	264298	269181	274383	271399	29710	314643	333831
Pediatrics	312475	330131	300476	305897	293758	289524	27283	290224	301090	339631
Physical Medicine & Rehab	11247	12841	12732	14274	12785	16268	21410	24093	24854	26515
Plastic Surgery	967	0	518	286	0	0	304	0	248	0
Psychiatry	470253	451087	391576	397375	374869	400432	414312	440072	446119	47072
Radiation-Diagnostic/Oncology	205633	204652	195518	190462	197908	214455	234087	261650	266650	268941
Surgery	146686	137678	122878	127291	133590	134683	148502	157442	176785	197789
Urology	24013	24651	24129	21989	20300	19113	21182	21508	21968	24401
R03	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	450081	708133	427169	504103	301720	285921	352424	680256	692128	540973
Dermatology	325896	408514	145727	300979	589193	653720	488341	276333	340643	444365
Emergency Medicine	63905	84790	66196	107849	38853	385440	411616	312535	170131	297712
Family Medicine	736834	706646	815519	480558	401656	37805	141804	159654	482712	356016
Internal Medicine/Medicine	9494800	11350077	10318182	10173250	9067487	7335664	7148206	7626355	9971038	1123091
Neurology	96465	645070	825360	994639	1176243	1566253	1258789	1055876	1341851	1260427
Neurosurgery	39134	766691	740507	366021	555391	331750	14747	143470	139992	487505
Obstetrics and Gynecology	600862	848707	737169	760235	698223	931110	1213315	123877	982384	659251
Ophthalmology	0	0	0	185069	253702	75142	107322	17279	281707	284470
Orthopedics	816678	773215	845592	1125690	765132	464110	211358	320310	645653	545684
Otolaryngology	1718440	2231507	2294913	1862304	1764008	1562754	1637971	1167773	279928	409354
Pathology	1925448	1557790	1386485	1373327	1160880	683176	941970	1602709	2122323	2346227
Pediatrics	2921374	2370262	2603315	2464485	282719	3719758	2828719	3395635	280869	319452
Physical Medicine & Rehab	672323	534487	444946	567857	385948	366690	156994	437457	733021	625866
Plastic Surgery	0	0	0	0	0	71431	70750	0	0	0
Psychiatry	2652569	2662850	2553215	2255011	1982882	2086038	2405828	188504	1646860	1551283
Radiation-Diagnostic/Oncology	783679	508691	716250	1303405	1444522	67396	846034	1406328	1945683	183410
Surgery	1364197	1707792	1328538	1479772	1407292	1105646	1928022	1605242	89468	1406835
Urology	78000	236296	147984	336416	440688	278168	73826	75485	249191	329822
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	5363	4870	5434	4776	5628	5576	4835	6776	7901	6260
Dermatology	3480	3808	3574	4618	3455	2678	2826	2863	2771	3712
Emergency Medicine	1418	1216	653	1074	992	797	962	1522	1399	1056
Family Medicine	2736	3279	3394	3701	4370	3751	2220	2193	2401	2819
Internal Medicine/Medicine	77517	80724	73759	70081	69479	73909	69783	68221	67654	73204
Neurology	12904	15438	14164	14075	14228	15704	15916	17350	22544	17368
Neurosurgery	2414	3654	4277	4570	6818	7317	5213	4962	10260	8724
Obstetrics and Gynecology	6800	5183	5530	4626	4908	4388	4055	5121	5485	8536
Ophthalmology	3884	3791	5654	5339	7513	6180	4503	5803	10024	9669
Orthopedics	2763	3554	3273	2541	2692	2705	4694	6301	4226	4408
Otolaryngology	2673	3184	4448	4787	4194	2723	2710	4661	4890	5890
Pathology	24267	20933	21656	27289	30879	30780	25776	21696	21012	22186
Pediatrics	19943	19077	19113	20906	23159	23173	21567	21997	23920	26148
Physical Medicine & Rehab	781	1404	2107	1574	655	1836	2527	1876	2480	2118
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	25223	34234	36895	34409	29761	28891	28879	27616	29290	33837
Radiation-Diagnostic/Oncology	20438	21387	19548	22416	23848	22283	20722	16091	19107	21432
Surgery	11149	10470	8623	9685	11994	12404	9066	8566	9015	10752
Urology	1626	1699	808	700	1686	2285	1605	1234	1327	1937
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	0	0	0	946	0	0	0	0	0	0
Dermatology	5597	4257	5840	6517	6060	6894	5967	2932	2710	2680
Emergency Medicine	0	0	0	0	0	0	0	0	0	0
Family Medicine	0	471	456	449	444	441	1366	1454	1768	1998
Internal Medicine/Medicine	296235	314695	327378	374306	335930	344110	348406	348046	396488	423422
Neurology	13644	14792	13499	12264	12507	13538	13322	14824	18437	42257
Neurosurgery	1890	2603	2412	1692	1636	592	570	545	610	0
Obstetrics and Gynecology	5801	5697	4974	5089	5412	5345	0	2206	2540	4457
Ophthalmology	18749	21221	16996	16351	15584	14551	14312	15637	15365	14842
Orthopedics	2502	2465	2306	2906	2861	3263	3176	3081	3963	3888
Otolaryngology	4978	4745	4438	4215	2802	2126	561	4894	4481	6622
Pathology	24994	16923	35011	34286	31529	39683	32469	12550	11233	14118
Pediatrics	26289	22806	21451	16148	15878	13828	13097	9740	10204	14790
Physical Medicine & Rehab	0	0	0	0	0	0	0	0	0	0
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	17668	16851	18824	15306	17132	12490	10633	8513	7611	8414
Radiation-Diagnostic/Oncology	2851	3718	4139	5610	11059	6323	8091	7685	9878	11119
Surgery	25238	21098	23432	15111	23661	23529	34296	30499	26055	36847
Urology	4835	4641	3800	5018	4997	5874	0	0	0	0
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	3304	3100	3391	6599	5552	11212	8251	7459	9982	8843
Dermatology	810	2461	2370	2118	3818	2550	2900	3173	7142	4542
Emergency Medicine	18243	16572	7912	6643	4125	3066	5882	22501	1724	12315
Family Medicine	5269	8064	8594	9302	11065	8951	5709	7876	8711	6972
Internal Medicine/Medicine	394866	37781	41240	393630	345938	329892	357428	374589	538414	601801

Neurology	61745	67582	68966	74945	60500	81498	64163	99592	89879	120052
Neurosurgery	4610	4511	15097	14227	10701	23901	24850	12366	5976	4821
Obstetrics and Gynecology	25401	16745	5030	10416	44349	9044	8012	10944	7021	7298
Ophthalmology	2346	2406	1868	1283	2775	3457	3533	5485	5948	6846
Orthopedics	0	0	503	622	184	183	0	0	616	559
Otolaryngology	1413	815	1101	992	2442	2225	2644	3587	1879	2681
Pathology	45262	29147	26251	18593	18371	23050	24664	28968	26126	27745
Pediatrics	98053	97561	87854	95628	87939	78882	77451	78320	72298	63706
Physical Medicine & Rehab	569	611	3664	3296	3639	3361	3258	1728	4439	6730
Plastic Surgery	0	0	0	0	0	0	0	383	376	371
Psychiatry	41548	57671	51564	57653	63027	55085	46821	52207	80985	68057
Radiation-Diagnostic/Oncology	6629	8442	13378	16233	18294	16084	32004	33367	34595	33086
Surgery	29433	38495	37429	32439	37570	33137	29027	34900	35093	28211
Urology	13453	11139	11389	7318	6127	6740	6964	6162	9275	4447

Supplementary Table 10: Dollar amount for each NIH training grant (F32, T32) spent per active physician from 2011-2020 by specialty

F32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	4.78	7.64	9.74	7.42	0.57	1.4	4.1	6.85	2.88	9.23
Dermatology	16.02	20.11	13.69	7.43	12.72	14.03	19.18	18.95	5.28	15.79
Emergency Medicine	1.74	1.52	1.67	0	0	0	0	0	0	1.44
Family Medicine	0	0	0	0.51	0.18	0	0	0	0	0
Internal Medicine/Medicine	60.00	52.73	52.68	49.24	51.13	55.89	53.96	54.6	55.5	64.07
Neurology	56.70	34.41	73.72	115.95	108.80	95.65	89.98	10.08	111.97	98.51
Neurosurgery	83.50	71.52	65.43	78.52	94.00	99.01	95.66	142.17	76.98	126.36
Obstetrics and Gynecology	5.19	7.15	4.29	5.23	6.65	5.51	3.51	8.43	7.26	7.12
Ophthalmology	10.05	19.35	21.02	26.6	34.64	21.27	22.87	22.01	27.56	29.37
Orthopedics	12.45	14.72	13.01	12.01	16.79	15.13	17.44	22.53	23.41	24.71
Otolaryngology	57.13	41.39	38.07	54.29	31.56	48.85	62.45	56.16	51.1	44.43
Pathology	76.21	60.31	69.66	75.78	90.87	104.76	69.50	82.55	77.49	57.4
Pediatrics	24.12	25.33	22.15	21.59	15.07	13.34	12.61	12.81	19.1	11.01
Physical Medicine & Rehab	6.04	5.95	0	6.2	4.45	7.45	20.15	25.75	20.18	14.01
Plastic Surgery	0	0	0	0	0	0	0	0	9.64	0
Psychiatry	50.17	36.82	35.34	33.44	37.73	41.09	30.83	35.99	43.81	52.11
Radiation-Diagnostic/Oncology	21.82	11.38	4.91	1.44	2.89	12.18	9.61	10.57	6.52	11.04
Surgery	31.58	29.51	26.28	38.96	45.51	40.85	37.60	50.79	39.44	42.67
Urology	11.85	10.83	11.39	22.73	12.31	15.78	11.92	7.36	6.43	7.88
T32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	57.45	65.31	66.96	79.36	116.40	119.52	128.66	119.92	120.27	106.38
Dermatology	207.61	220.53	199.12	159.48	201.52	198.46	188.16	177.45	156.36	162.62
Emergency Medicine	0	0	0	0	0	4.12	17.46	20.42	20.27	16.17
Family Medicine	11.59	10.88	14.03	13.50	13.54	11.82	19.34	15.01	12.46	14.80
Internal Medicine/Medicine	1054.73	1053.63	100.59	990.15	1010.85	1043.62	1038.99	1125.69	1119.66	1158.87
Neurology	738.92	649.11	632.01	755.62	672.69	734.84	787.50	809.40	642.70	814.60
Neurosurgery	117.21	104.03	112.52	114.08	325.3	334.6	297.2	403.1	638.7	697.7
Obstetrics and Gynecology	59.25	58.68	61.87	63.72	64.74	58.75	51.7	39.48	41.24	67.03
Ophthalmology	160.46	175.12	242.27	237.86	215.42	206.22	199.95	213.17	252.12	246.06
Orthopedics	88.32	106.23	94.12	83.97	88.05	87.9	96.42	82.36	87.83	108.73
Otolaryngology	268.30	359.98	305.44	392.08	420.92	397.90	455.84	453.01	438.15	494.20
Pathology	2186.81	2035.57	1914.38	1993.36	1842.40	1841.23	1952.68	1936.68	1803.78	1596.10
Pediatrics	440.82	429.56	402.71	380.54	425.45	423.31	375.23	407.32	413.19	425.38
Physical Medicine & Rehab	168.31	122.68	122.6	93.41	102.48	108.48	113.81	134.73	129.29	164.28
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	523.79	546.74	544.91	509.45	480.55	534.91	553.12	559.63	585.23	672.18
Radiation-Diagnostic/Oncology	171.95	116.67	123.22	127.95	141.77	183.69	150.70	192.13	188.18	160.75
Surgery	479.19	476.61	446.78	428.43	415.80	490.17	527.02	632.8	698.7	643.1
Urology	110.36	124.87	117.82	119.16	66.07	91.89	62.83	33.26	96.93	113.31

Inflation-Adjusted Dollar amount for each NIH training grant (F32, T32) spent per active physician from 2011-2020 by specialty

F32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	4.78	7.50	9.39	7.02	0.53	1.30	3.74	6.10	2.52	7.96
Dermatology	16.02	19.75	13.20	7.03	11.90	13.02	17.48	16.88	4.61	13.61
Emergency Medicine	1.74	1.49	1.61	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Family Medicine	0.00	0.00	0.00	0.48	0.17	0.00	0.00	0.00	0.00	0.00
Internal Medicine/Medicine	60.00	51.78	50.80	46.58	47.82	51.85	49.18	48.63	48.48	55.24
Neurology	56.70	33.79	71.09	109.69	101.77	88.73	82.01	8.98	97.82	84.93
Neurosurgery	83.50	70.23	63.10	74.28	87.92	91.85	87.19	126.63	67.25	108.94
Obstetrics and Gynecology	5.19	7.02	4.14	4.95	6.22	5.11	3.20	7.51	6.34	6.14
Ophthalmology	10.05	19.00	20.27	25.36	32.40	19.73	20.84	19.60	24.08	25.32
Orthopedics	12.45	14.46	12.55	11.36	15.70	14.04	15.90	20.07	20.45	21.30
Otolaryngology	57.13	40.65	36.71	51.36	29.52	45.32	56.92	50.02	44.64	38.30
Pathology	76.21	59.23	67.18	71.69	85.00	97.18	63.34	73.53	67.69	49.49
Pediatrics	24.12	24.87	21.36	20.43	14.10	12.38	11.49	11.41	16.69	9.49
Physical Medicine & Rehab	6.04	5.84	0.00	5.87	4.16	6.91	18.37	22.93	17.63	12.08
Plastic Surgery	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.42	0.00
Psychiatry	50.17	36.16	34.08	31.64	35.29	38.12	28.10	32.06	38.27	44.93
Radiation-Diagnostic/Oncology	21.82	11.18	4.73	1.36	2.70	11.30	8.76	9.41	5.70	9.52
Surgery	31.58	28.98	25.34	36.86	42.57	37.80	34.27	45.24	34.45	36.79
Urology	11.85	10.64	10.98	21.50	11.51	14.64	10.86	6.56	5.62	6.79
T32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	57.45	64.14	64.57	75.08	108.87	110.88	117.27	106.81	105.07	91.71
Dermatology	207.61	216.57	192.02	150.87	188.49	184.11	171.50	158.05	136.59	140.20
Emergency Medicine	0.00	0.00	0.00	0.00	0.00	3.82	15.91	18.19	17.71	13.94

Family Medicine	11.59	10.68	13.53	12.77	12.66	10.97	17.63	13.37	10.88	12.76
Internal Medicine/Medicine	1054.73	1034.69	97.00	936.72	945.50	968.14	946.97	1002.63	978.12	999.11
Neurology	738.92	637.44	609.48	714.85	629.20	681.69	717.76	720.92	561.45	702.30
Neurosurgery	117.21	102.16	108.51	107.92	304.27	310.40	270.88	359.03	557.96	601.52
Obstetrics and Gynecology	59.25	57.63	59.66	60.28	60.55	54.50	47.12	35.16	36.03	57.79
Ophthalmology	160.46	171.97	233.63	225.03	201.49	191.30	182.24	189.87	220.25	212.14
Orthopedics	88.32	104.32	90.76	79.44	82.36	81.54	87.88	73.36	76.73	93.74
Otolaryngology	268.30	353.51	294.55	370.92	393.71	369.12	415.47	403.49	382.76	426.07
Pathology	2186.81	1998.99	1846.12	1885.80	1723.29	1708.06	1779.74	1724.96	1575.75	1376.06
Pediatrics	440.82	421.84	388.35	360.01	397.94	392.69	342.00	362.79	360.96	366.74
Physical Medicine & Rehab	168.31	120.48	118.23	88.37	95.85	100.63	103.73	120.00	112.95	141.63
Plastic Surgery	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	523.79	536.91	525.48	481.96	449.48	496.22	504.13	498.45	511.25	579.51
Radiation-Diagnostic/Oncology	171.95	114.57	118.83	121.05	132.60	170.40	137.35	171.13	164.39	138.59
Surgery	479.19	468.04	430.85	405.36	388.92	454.72	480.35	563.62	610.37	554.44
Urology	110.36	122.63	113.62	112.73	61.80	85.24	57.27	29.62	84.68	97.69

Supplementary Table 11: Dollar amount for each NIH career development grant (K01, K08, K23) spent per active physician from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
K01										
Anesthesiology	11.97	11.98	11.36	14.94	21.38	21.37	24.69	28.77	15.50	23.43
Dermatology	34.67	42.10	52.45	38.57	55.29	65.58	106.25	109.18	82.28	75.10
Emergency Medicine	0	3.83	3.60	3.44	6.97	0	0	0.93	2.73	5.47
Family Medicine	11.65	14.49	10.85	8.14	8.35	9.53	9.57	11.03	9.88	17.62
Internal Medicine/Medicine	152.01	139.88	140.59	166.31	180.19	165.29	168.51	186.80	202.76	206.13
Neurology	125.34	139.07	175.80	192.43	186.72	207.22	199.33	189.16	210.88	165.72
Neurosurgery	59.06	47.18	24.49	0	19.26	0	0	56.31	78.98	57.08
Obstetrics and Gynecology	6.92	4.21	7.66	15.55	18.77	17.85	22.88	18.27	23.96	26.07
Ophthalmology	0	0	0	7.10	0	0	7.72	13.28	13.46	7.52
Orthopedics	31.17	24.07	41.73	44.16	57.72	46.4	39.47	32.31	36.72	30.81
Otolaryngology	29.72	29.58	29.44	27.75	0	0	0	0	0	13.27
Pathology	102.72	114.00	123.82	111.14	113.43	153.99	164.00	185.13	163.88	218.65
Pediatrics	44.76	38.30	40.61	43.32	37.79	53.22	54.02	51.33	56.95	59.26
Physical Medicine & Rehab	40.44	41.98	54.95	81.08	94.27	107.23	180.41	174.18	136.74	154.63
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	314.48	321.51	296.05	304.76	284.39	268.10	274.19	264.67	286.16	314.98
Radiation-Diagnostic/Oncology	64.43	55.86	40.20	41.23	44.27	49.16	67.88	60.06	46.75	36.61
Surgery	37.96	33.43	49.24	35.12	53.59	68.22	83.1	62.83	53.73	39.57
Urology	10.77	10.80	10.83	14.04	44.88	60.18	85.28	69.62	68.52	85.16
K08										
Anesthesiology	40.78	45.27	50.82	55.42	51.27	49.53	63.75	90.26	106.84	94.17
Dermatology	205.68	208.13	170.54	150.23	153.90	162.85	162.50	146.67	161.06	130.13
Emergency Medicine	8.33	15.95	23.50	15.43	18.84	26.64	26.82	29.34	24.63	24.8
Family Medicine	5.73	5.72	6.22	2.50	1.33	1.30	1.48	1.45	4.35	4.26
Internal Medicine/Medicine	344.14	330.28	299.67	304.18	280.67	323.79	324.02	352.97	387.86	392.13
Neurology	490.32	443.51	500.72	436.15	433.34	399.55	414.33	408.50	461.26	522.45
Neurosurgery	229.79	234.21	279.63	219.26	310.07	343.34	401.77	356.15	412.35	314.03
Obstetrics and Gynecology	26.56	26.52	23.33	14.54	5.88	8.99	8.01	21.51	25.98	39.2
Ophthalmology	273.33	279.28	291.34	334.57	328.66	290.54	292.39	276.97	261.70	252.56
Orthopedics	9.04	13.71	26.79	22.73	25.33	45.65	63.2	54.19	44.41	51.9
Otolaryngology	216.07	235.99	227.68	195.77	240.71	218.56	176.78	200.32	221.60	192.27
Pathology	324.60	298.86	333.48	359.99	343.54	300.77	296.19	367.42	373.30	413.28
Pediatrics	270.48	236.56	230.35	217.43	202.81	231.42	293.33	328.39	319.98	309.69
Physical Medicine & Rehab	14.69	14.35	14.03	0	0	0	0	17.91	17.51	17.58
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	148.44	132.90	88.13	119.99	98.17	102.58	111.62	96.05	83.94	109.84
Radiation-Diagnostic/Oncology	25.01	23.36	21.72	23.96	21.53	4.38	13.36	15.04	69.92	90.98
Surgery	300.38	312.41	264.84	260.59	214.63	243.63	253.30	289.80	299.40	325.49
Urology	123.84	122.20	142.34	108.32	67.48	83.58	85.01	82.5	108.92	107.64
K23										
Anesthesiology	29.91	38.53	45.12	49.58	44.81	37.01	53.81	51.26	72.70	70.44
Dermatology	33.98	44.24	22.18	10.66	21.97	56.29	57.57	111.06	124.41	107.01
Emergency Medicine	68.98	59.28	62.06	56.18	55.92	75.99	88.16	76.13	79.18	57.31
Family Medicine	13.02	11.66	8.27	3.99	5.82	5.20	7.11	6.91	8.33	9.31
Internal Medicine/Medicine	407.03	419.60	411.26	391.56	355.75	377.87	374.26	374.05	374.07	418.03
Neurology	696.50	687.37	591.24	631.47	644.54	518.67	638.91	670.83	728.21	744.63
Neurosurgery	73.70	139.35	178.37	132.14	157.06	133.72	132.76	130.34	161.29	195.31
Obstetrics and Gynecology	39.68	44.49	33.98	41.18	27.96	15.59	27.45	32.06	40.59	47.61
Ophthalmology	159.02	129.45	144.34	121.28	144.82	217.56	242.46	212.90	233.70	219.24
Orthopedics	17.02	19.94	16.53	16.51	10.16	18.17	9.12	19.40	25.89	28.72
Otolaryngology	160.86	134.92	132.49	203.04	276.16	226.42	255.43	251.86	234.92	186.50
Pathology	34.49	27.91	19.31	30.02	20.86	10.49	11.37	11.18	15.03	41.74
Pediatrics	233.29	228.02	218.64	212.86	190.71	176.80	254.69	275.13	310.56	367.60
Physical Medicine & Rehab	116.92	108.31	169.68	181.33	142.39	133.04	106.19	28.27	46.51	45.29
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	498.00	481.66	451.55	429.56	414.64	403.43	473.34	465.21	498.79	506.35
Radiation-Diagnostic/Oncology	29.33	18.78	16.73	17.03	16.74	17.70	18.13	8.86	4.74	13.99
Surgery	64.76	64.88	58.74	62.32	58.19	77.12	64.29	57.90	60.88	87.85
Urology	31.99	15.71	30.39	47.54	30.71	44.21	31.45	14.34	49.54	49.35

Inflation-Adjusted Dollar amount for each NIH career development grant (K01, K08, K23) spent per active physician from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
K01										
Anesthesiology	11.97	11.76	10.95	14.13	20.00	19.82	22.50	25.62	13.54	20.20
Dermatology	34.67	41.34	50.58	36.49	51.72	60.84	96.84	97.24	71.88	64.75
Emergency Medicine	0	3.76	3.47	3.25	6.52	0.00	0.00	0.83	2.38	4.72
Family Medicine	11.65	14.23	10.46	7.70	7.81	8.84	8.72	9.82	8.63	15.19
Internal Medicine/Medicine	152.01	137.37	135.58	157.34	168.54	153.34	153.59	166.38	177.13	177.71
Neurology	125.34	136.57	169.53	182.05	174.65	192.23	181.68	168.48	184.22	142.87
Neurosurgery	59.06	46.33	23.62	0.00	0.00	17.87	0.00	50.15	69.00	49.21
Obstetrics and Gynecology	6.92	4.13	7.39	14.71	17.56	16.56	20.85	16.27	20.93	22.48
Ophthalmology	0	0.00	0.00	6.72	0.00	0.00	7.04	11.83	11.76	6.48
Orthopedics	31.17	23.64	40.24	41.78	53.99	43.04	35.97	28.78	32.08	26.56
Otolaryngology	29.72	29.05	28.39	26.25	0.00	0.00	0.00	0.00	0.00	11.44
Pathology	102.72	111.95	119.41	105.14	106.10	142.85	149.48	164.89	143.16	188.51
Pediatrics	44.76	37.61	39.16	40.98	35.35	49.37	49.24	45.72	49.75	51.09
Physical Medicine & Rehab	40.44	41.23	52.99	76.71	88.18	99.47	164.43	155.14	119.45	133.31
Plastic Surgery	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	314.48	315.73	285.49	288.32	266.00	248.71	249.91	235.74	249.99	271.56
Radiation-Diagnostic/Oncology	64.43	54.86	38.77	39.01	41.41	45.60	61.87	53.49	40.84	31.56
Surgery	37.96	32.83	47.48	33.22	50.13	63.29	75.74	55.96	46.94	34.11
Urology	10.77	10.61	10.44	13.28	41.98	55.83	77.73	62.01	59.86	73.42
K08										
Anesthesiology	40.78	44.46	49.01	52.43	47.96	45.95	58.10	80.39	93.33	81.19
Dermatology	205.68	204.39	164.46	142.12	143.95	151.07	148.11	130.64	140.70	112.19
Emergency Medicine	8.33	15.66	22.66	14.60	17.62	24.71	24.44	26.13	21.52	21.38
Family Medicine	5.73	5.62	6.00	2.37	1.24	1.21	1.35	1.29	3.80	3.67
Internal Medicine/Medicine	344.14	324.34	288.99	287.77	262.52	300.37	295.32	314.38	338.83	338.07
Neurology	490.32	435.54	482.87	412.62	405.32	370.65	377.64	363.84	402.95	450.43
Neurosurgery	229.79	230.00	269.66	207.43	290.02	318.51	366.19	317.22	360.22	270.74
Obstetrics and Gynecology	26.56	26.04	22.50	13.76	5.50	8.34	7.30	19.16	22.70	33.80
Ophthalmology	273.33	274.26	280.95	316.52	307.41	269.53	266.50	246.69	228.62	217.74
Orthopedics	9.04	13.46	25.83	21.50	23.69	42.35	57.60	48.27	38.80	44.75
Otolaryngology	216.07	231.75	219.56	185.21	225.15	202.75	161.12	178.42	193.59	165.76
Pathology	324.6	293.49	321.59	340.57	321.33	279.02	269.96	327.25	326.11	356.31
Pediatrics	270.48	232.31	222.14	205.70	189.70	214.68	267.35	292.49	279.53	267.00
Physical Medicine & Rehab	14.69	14.09	13.53	0.00	0.00	0.00	0.00	15.95	15.30	15.16
Plastic Surgery	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	148.44	130.51	84.99	113.52	91.82	95.16	101.73	85.55	73.33	94.70
Radiation-Diagnostic/Oncology	25.01	22.94	20.95	22.67	20.14	4.06	12.18	13.40	61.08	78.44
Surgery	300.38	306.80	255.40	246.53	200.75	226.01	230.87	258.12	261.55	280.62
Urology	123.84	120.00	137.26	102.48	63.12	77.54	77.48	73.48	95.15	92.80
K23										
Anesthesiology	29.91	37.84	43.51	46.90	41.91	34.33	49.04	45.66	63.51	60.73
Dermatology	33.98	43.44	21.39	10.08	20.55	52.22	52.47	98.92	108.68	92.26
Emergency Medicine	68.98	58.21	59.85	53.15	52.30	70.49	80.35	67.81	69.17	49.41
Family Medicine	13.02	11.45	7.98	3.77	5.44	4.82	6.48	6.15	7.28	8.03
Internal Medicine/Medicine	407.03	412.06	396.60	370.43	332.75	350.54	341.11	333.16	326.78	360.40
Neurology	696.5	675.02	570.16	597.40	602.87	481.16	582.33	597.49	636.15	641.98
Neurosurgery	73.7	136.85	172.01	125.01	146.91	124.05	121.00	116.09	140.90	168.38
Obstetrics and Gynecology	39.68	43.69	32.77	38.96	26.15	14.46	25.02	28.56	35.46	41.05
Ophthalmology	159.02	127.12	139.19	114.74	135.46	201.82	220.99	189.63	204.16	189.02
Orthopedics	17.02	19.58	15.94	15.62	9.50	16.86	8.31	17.28	22.62	24.76
Otolaryngology	160.86	132.50	127.77	192.08	258.31	210.04	232.81	224.33	205.22	160.79
Pathology	34.49	27.41	18.62	28.40	19.51	9.73	10.36	9.96	13.13	35.99
Pediatrics	233.29	223.92	210.84	201.37	178.38	164.01	232.13	245.05	271.30	316.92
Physical Medicine & Rehab	116.92	106.36	163.63	171.55	133.18	123.42	96.79	25.18	40.63	39.05
Plastic Surgery	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	498	473.00	435.45	406.38	387.83	374.25	431.42	414.35	435.74	436.55
Radiation-Diagnostic/Oncology	29.33	18.44	16.13	16.11	15.66	16.42	16.52	7.89	4.14	12.06
Surgery	64.76	63.71	56.65	58.96	54.43	71.54	58.60	51.57	53.18	75.74
Urology	31.99	15.43	29.31	44.97	28.72	41.01	28.66	12.77	43.28	42.55

Supplementary Table 12: Dollar amount for each NIH advanced career grant (R01, R03, R21, P30, U01) spent per active physician from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
R01										
Anesthesiology	1857.17	2085.47	2002.89	2147.10	2039.57	2065.00	2117.78	2506.67	2616.49	2857.83
Dermatology	3680.31	3956.23	3656.59	3414.25	3400.26	3538.3	3308.52	3959.33	4035.89	3969.33
Emergency Medicine	356.59	362.32	370.61	404.05	420.12	452.30	504.30	552.70	687.19	898.84
Family Medicine	352.34	385.20	339.17	306.29	350.25	344.39	342.24	389.01	389.17	444.97
Internal Medicine/Medicine	11841.01	11375.60	10358.28	10522.61	10445.97	11232.57	12068.33	12884.91	13695.55	14925.08
Neurology	16516.17	17029.48	16227.40	16367.29	16396.56	18126.12	20592.56	24183.35	24585.73	29452.72
Neurosurgery	9547.89	9969.06	9068.75	9058.58	11454.43	11991.81	12558.93	13670.75	14873.42	17044.80
Obstetrics and Gynecology	1242.54	1158.34	1173.61	1166.74	1256.97	1534.18	1811.10	1874.12	2278.34	2698.02
Ophthalmology	8000.73	8093.83	7832.38	8461.44	7953.54	7903.77	8352.17	8895.57	9648.68	10296.89
Orthopedics	1898.66	2080.26	2274.09	2308.81	2198.59	2471.33	2734.49	2915.80	3189.91	3678.49
Otolaryngology	5631.72	6016.96	6041.57	6207.68	6739.23	6722.77	7091.05	8145.93	9384.18	9321.23
Pathology	21647.85	22199.46	21486.80	20697.31	21660.82	22643.09	23192.63	26175.89	28488.09	30626.48
Pediatrics	5629.26	6015.39	5538.10	5682.43	5457.86	5382.00	5122.00	5473.96	5685.77	6498.71
Physical Medicine & Rehab	1322.77	1502.20	1482.51	1669.98	1491.60	1895.05	2514.18	2830.94	2912.92	3148.88
Plastic Surgery	141.77	0	77.41	43.23	0	0	46.66	0	38.79	0
Psychiatry	12281.68	12154.31	10887.32	11196.29	10620.6	11368.05	11898.19	12833.89	13164.48	14072.72
Radiation-Diagnostic/Oncology	6337.90	5937.65	5370.79	5271.53	5476.99	5891.45	6445.64	7240.69	7391.27	7553.73
Surgery	5574.43	5444.49	5059.00	5335.00	5655.51	5773.19	6506.34	6985.99	7916.08	8974.18
Urology	2443.77	2561.83	2560.75	2374.32	2212.76	2088.62	2342.54	2400.10	2465.14	2774.51

R03	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	11.22	17.83	10.87	12.98	7.8	7.42	9.26	18.18	18.74	14.85
Dermatology	30.12	37.51	13.3	27.58	53.81	59.32	44.46	25.26	31.16	41.18
Emergency Medicine	1.88	2.42	1.84	2.97	10.49	10.14	10.66	8.02	4.31	7.64
Family Medicine	6.92	6.68	7.76	4.61	3.86	3.63	1.37	1.55	4.67	3.49
Internal Medicine/Medicine	87.07	105.03	96.35	95.53	84.97	68.87	67.87	72.65	94.98	108.40
Neurology	74.68	50.39	65.06	79.21	93.9	124.56	100.69	85.09	108.58	103.35
Neurosurgery	77.53	152.81	148.5	73.58	111.07	65.76	29.25	28.56	27.88	98.37
Obstetrics and Gynecology	14.88	21.29	18.72	19.53	18	24.15	31.96	32.95	26.32	17.9
Ophthalmology	0	0	0	10.6	14.59	4.33	6.26	10.18	16.7	17.09
Orthopedics	41.2	40.18	45.26	61.78	42.73	26.23	12.2	18.89	38.76	33.19
Otolaryngology	186.14	244.97	255.34	210.19	200.4	177.92	188.66	135.84	32.77	48.56
Pathology	128.58	110.6	104.87	107.55	93.42	56.38	80.5	141.23	192.16	215.25
Pediatrics	52.63	43.19	47.98	45.78	52.52	69.15	53.11	64.05	53.04	61.13
Physical Medicine & Rehab	79.07	62.53	51.81	66.44	45.03	42.72	18.44	51.4	85.91	74.33
Plastic Surgery	0	0	0	0	0	10.87	10.87	0	0	0
Psychiatry	69.28	71.75	70.99	63.54	56.18	59.22	69.09	54.96	48.6	46.38
Radiation-Diagnostic/Oncology	24.15	14.76	19.67	36.08	39.98	18.51	23.3	38.92	53.93	51.51
Surgery	51.84	67.53	54.7	62.02	59.58	47.39	84.47	71.23	40.06	63.83
Urology	7.94	24.56	15.71	36.33	48.04	30.4	8.16	8.42	27.96	37.5
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	133.66	122.64	137.74	122.96	145.51	144.65	127.03	181.07	213.97	171.79
Dermatology	321.61	349.67	326.15	423.16	315.57	243	257.3	261.64	253.41	343.96
Emergency Medicine	41.72	34.77	18.18	29.54	26.80	20.98	24.94	39.04	35.41	27.11
Family Medicine	25.67	30.99	32.31	35.53	41.98	35.97	21.46	21.25	23.26	27.66
Internal Medicine/Medicine	710.85	746.96	688.77	658.07	651.08	693.86	662.56	649.85	644.45	706.58
Neurology	999.05	1205.96	1116.44	1120.83	1135.85	1248.89	1273.00	1398.18	1824.26	1424.04
Neurosurgery	478.39	728.36	857.71	918.7	1363.36	1450.45	1033.97	987.89	2043.24	1760.36
Obstetrics and Gynecology	168.40	129.99	140.44	118.83	126.50	113.79	106.80	136.27	146.98	231.77
Ophthalmology	216.49	212.90	320.06	305.76	431.98	356.16	262.60	341.72	594.16	580.71
Orthopedics	139.37	184.67	175.17	139.49	150.32	152.86	271.04	371.61	253.68	268.12
Otolaryngology	289.56	349.50	494.81	540.28	476.43	309.99	312.12	542.15	572.56	698.81
Pathology	1620.52	1486.19	1638.03	2136.97	2484.83	2540.07	2202.75	1911.83	1902.49	2035.47
Pediatrics	359.27	347.60	352.27	388.35	430.29	430.77	404.95	414.89	451.71	500.34
Physical Medicine & Rehab	91.84	164.28	245.29	184.19	76.42	213.84	296.67	220.45	290.64	251.52
Plastic Surgery	0	0	0	0	0	0	0	0	0	0
Psychiatry	658.75	922.43	1025.81	969.51	843.17	820.23	829.34	805.39	864.34	1011.76
Radiation-Diagnostic/Oncology	629.93	620.50	536.98	620.40	659.97	612.15	570.57	445.28	529.63	601.95
Surgery	423.69	414.06	355.02	405.89	507.77	531.70	397.22	380.08	403.68	487.83
Urology	165.44	176.52	85.77	75.55	183.77	249.72	177.50	137.68	148.87	220.27
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	0	0	0	24.35	0	0	0	0	0	0
Dermatology	517.27	390.85	532.97	597.24	553.45	625.58	543.26	268.00	247.82	248.38
Emergency Medicine	0	0	0	0	0	0	0	0	0	0
Family Medicine	0	4.46	4.35	4.32	4.27	4.23	13.21	14.08	17.13	19.61
Internal Medicine/Medicine	2716.56	2911.97	3057.10	3514.81	3147.97	3230.52	3307.98	3315.39	3776.81	4086.91
Neurology	1056.37	1155.52	1063.93	976.67	998.45	1076.64	1065.6	1194.65	1491.94	3464.85
Neurosurgery	374.49	518.96	483.66	340.21	327.09	117.33	113.03	108.60	121.46	0
Obstetrics and Gynecology	143.68	142.88	126.34	130.71	139.49	138.61	0	58.71	68.05	121.03
Ophthalmology	1044.94	1191.91	962.15	936.54	896.10	838.56	834.51	920.85	910.75	891.43
Orthopedics	126.20	128.06	123.40	159.49	159.80	184.41	183.39	181.70	236.51	236.51
Otolaryngology	539.17	520.92	493.72	475.65	318.33	242.09	64.56	569.30	524.67	785.66
Pathology	1669.05	1201.52	2648.08	2685.00	2537.14	3274.77	2774.65	1105.85	1017.10	1295.16
Pediatrics	473.59	415.55	395.36	299.96	295.02	257.04	245.91	183.70	192.70	283.01
Physical Medicine & Rehab	0	0	0	0	0	0	0	0	0	0
Psychiatry	461.43	454.04	523.37	431.27	485.37	354.58	305.35	248.26	224.58	251.57
Radiation-Diagnostic/Oncology	87.87	107.87	113.69	155.26	306.04	173.72	222.79	212.66	273.83	312.30
Surgery	959.11	834.32	964.72	633.35	1001.65	1008.56	1502.64	1353.30	1166.66	1671.84
Urology	492.04	482.37	403.34	541.80	544.71	641.88	0	0	0	0
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	82.34	78.08	86.27	169.91	143.55	290.84	216.78	199.31	270.34	242.66
Dermatology	74.83	225.95	216.31	194.10	348.67	231.45	264.07	290.01	653.25	420.90
Emergency Medicine	536.81	473.85	220.31	182.80	111.41	80.69	152.40	577.1	43.66	316.01
Family Medicine	49.45	76.23	81.82	89.31	106.29	85.84	55.19	76.33	84.37	68.42
Internal Medicine/Medicine	3621.03	3495.78	3850.67	3696.26	3241.76	3097.05	3393.64	3568.23	5128.75	5808.65
Neurology	4780.51	5279.12	5436.02	5968.05	4829.93	6481.36	5132.2	8026.10	7273.08	9843.68
Neurosurgery	913.42	899.29	3027.48	2859.72	2140.20	4737.37	4929.55	2461.91	1190.18	972.87
Obstetrics and Gynecology	629.11	419.96	127.76	267.54	1143.03	234.52	211.01	291.24	188.14	198.16
Ophthalmology	130.77	135.16	105.76	73.45	159.59	199.27	205.96	323.00	352.57	411.20
Orthopedics	0	0	26.92	34.13	10.27	10.31	0	0	36.97	34
Otolaryngology	153.02	89.48	122.50	112.01	277.47	253.36	304.57	417.28	220.01	318.12
Pathology	3022.3	2069.4	1985.57	1456.02	1478.29	1902.17	2107.76	2552.67	2365.47	2545.45
Pediatrics	1766.44	1777.68	1619.25	1776.41	1633.86	1466.35	1454.22	1477.21	1365.27	1218.99
Physical Medicine & Rehab	66.88	71.50	426.53	385.64	424.59	391.49	382.60	203.00	520.23	799.24
Plastic Surgery	0	0	0	0	0	0	0	59.53	58.82	58.82
Psychiatry	1085.13	1553.90	1433.67	1624.39	1785.65	1563.86	1344.58	1522.54	2389.77	2034.94
Radiation-Diagnostic/Oncology	204.33	244.96	367.51	449.29	506.26	441.85	881.23	923.37	958.93	929.28
Surgery	1118.53	1522.26	1540.99	1359.58	1590.53	1420.41	1271.76	1548.58	157.381	1279.99
Urology	1369.09	1157.66	1208.71	790.08	667.87	736.47	770.23	687.61	1040.73	505.66

Inflation-Adjusted Dollar amount for each NIH advanced career grant (R01, R03, R21, P30, U01) spent per active physician from 2011-2020 by specialty

R01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	1857.17	2047.99	1931.48	2031.25	1907.71	1915.65	1930.22	2232.64	2285.73	2463.85
Dermatology	3680.31	3885.13	3526.22	3230.02	3180.43	3282.39	3015.51	3526.49	3525.69	3422.12
Emergency Medicine	356.59	355.81	357.40	382.25	392.96	419.59	459.64	492.28	600.32	774.93
Family Medicine	352.34	378.28	327.08	289.76	327.61	319.48	311.93	346.48	339.97	383.63
Internal Medicine/Medicine	11841.01	11171.16	9988.96	9954.83	9770.64	10420.17	10999.52	11476.32	11964.22	12867.53
Neurology	16516.17	16723.43	15648.83	15484.14	15336.52	16815.14	18768.82	21539.61	21477.72	25392.40
Neurosurgery	9547.89	9789.90	8745.41	8569.79	10713.90	11124.49	11446.67	12176.25	12993.19	14695.02
Obstetrics and Gynecology	1242.54	1137.52	1131.77	1103.78	1175.71	1423.22	1650.70	1669.24	1990.32	2326.07
Ophthalmology	8000.73	7948.37	7553.12	8004.87	7439.34	7332.12	7612.48	7923.10	8428.94	8877.37
Orthopedics	1898.66	2042.87	2193.01	2184.23	2056.45	2292.59	2492.32	2597.04	2786.66	3171.38
Otolaryngology	5631.72	5908.82	5826.16	5872.72	6303.54	6236.54	6463.05	7255.41	8197.88	8036.22
Pathology	21647.85	21800.50	20720.71	19580.52	20260.44	21005.41	21138.62	23314.32	24886.76	26404.35
Pediatrics	5629.26	5907.28	5340.64	5375.82	5105.01	4992.74	4668.38	4875.54	4967.00	5602.81
Physical Medicine & Rehab	1322.77	1475.20	1429.65	1579.87	1395.17	1757.99	2291.52	2521.46	2544.68	2714.78
Plastic Surgery	141.77	0.00	74.65	40.90	0.00	0.00	42.53	0.00	33.89	0.00
Psychiatry	12281.68	11935.88	10499.14	10592.16	9933.98	10545.85	10844.45	11430.88	11500.29	12132.67
Radiation-Diagnostic/Oncology	6337.9	5830.94	5179.30	4987.09	5122.90	5465.35	5874.80	6449.13	6456.90	6512.38
Surgery	5574.43	5346.64	4878.63	5047.13	5289.88	5355.64	5930.12	6222.28	6915.37	7737.01
Urology	2443.77	2515.79	2469.45	2246.21	2069.70	1937.56	2135.08	2137.80	2153.51	2392.02
R03	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	11.22	17.51	10.48	12.28	7.30	6.88	8.44	16.19	16.37	12.80
Dermatology	30.12	36.84	12.83	26.09	50.33	55.03	40.52	22.50	27.22	35.50
Emergency Medicine	1.88	2.38	1.77	2.81	9.81	9.41	9.72	7.14	3.77	6.59
Family Medicine	6.92	6.56	7.48	4.36	3.61	3.37	1.25	1.38	4.08	3.01
Internal Medicine/Medicine	87.07	103.14	92.91	90.38	79.48	63.89	61.86	64.71	82.97	93.46
Neurology	74.68	49.48	62.74	74.94	87.83	115.55	91.77	75.79	94.85	89.10
Neurosurgery	77.53	150.06	143.21	69.61	103.89	61.00	26.66	25.44	24.36	84.81
Obstetrics and Gynecology	14.88	20.91	18.05	18.48	16.84	22.40	29.13	29.35	22.99	15.43
Ophthalmology	0	0.00	0.00	10.03	13.65	4.02	5.71	9.07	14.59	14.73
Orthopedics	41.2	39.46	43.65	58.45	39.97	24.33	11.12	16.82	33.86	28.61
Otolaryngology	186.14	240.57	246.24	198.85	187.44	165.05	171.95	120.99	28.63	41.87
Pathology	128.58	108.61	101.13	101.75	87.38	52.30	73.37	125.79	167.87	185.58
Pediatrics	52.63	42.41	46.27	43.31	49.12	64.15	48.41	57.05	46.33	52.70
Physical Medicine & Rehab	79.07	61.41	49.96	62.86	42.12	39.63	16.81	45.78	75.05	64.08
Plastic Surgery	0	0.00	0.00	0.00	0.00	10.08	9.91	0.00	0.00	0.00
Psychiatry	69.28	70.46	68.46	60.11	52.55	54.94	62.97	48.95	42.46	39.99
Radiation-Diagnostic/Oncology	24.15	14.49	18.97	34.13	37.40	17.17	21.24	34.67	47.11	44.41
Surgery	51.84	66.32	52.75	58.67	55.73	43.96	76.99	63.44	35.00	55.03
Urology	7.94	24.12	15.15	34.37	44.93	28.20	7.44	7.50	24.43	32.33
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	133.66	120.44	132.83	116.33	136.10	134.19	115.78	161.28	186.92	148.11
Dermatology	321.61	343.39	314.52	400.33	295.17	225.42	234.51	233.04	221.38	296.54
Emergency Medicine	41.72	34.15	17.53	27.95	25.07	19.46	22.73	34.77	30.93	23.37
Family Medicine	25.67	30.43	31.16	33.61	39.27	33.37	19.56	18.93	20.32	23.85
Internal Medicine/Medicine	710.85	733.54	664.21	622.56	608.99	643.68	603.88	578.81	562.98	609.17
Neurology	999.05	1184.29	1076.63	1060.35	1062.42	1158.56	1160.26	1245.33	1593.65	1227.72
Neurosurgery	478.39	715.27	827.13	869.13	1275.22	1345.55	942.40	879.89	1784.94	1517.68
Obstetrics and Gynecology	168.4	127.65	135.43	112.42	118.32	105.56	97.34	121.37	128.40	199.82
Ophthalmology	216.49	209.07	308.65	289.26	404.05	330.40	239.34	304.36	519.05	500.65
Orthopedics	139.37	181.35	168.92	131.96	140.60	141.80	247.04	330.99	221.61	231.16
Otolaryngology	289.56	343.22	477.17	511.13	445.63	287.57	284.48	482.88	500.18	602.47
Pathology	1620.52	1459.48	1579.63	2021.66	2324.19	2356.36	2007.67	1702.83	1661.99	1754.86
Pediatrics	359.27	341.35	339.71	367.40	402.47	399.61	369.09	369.53	394.61	431.36
Physical Medicine & Rehab	91.84	161.33	236.54	174.25	71.48	198.37	270.40	196.35	253.90	216.85
Plastic Surgery	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	658.75	905.85	989.24	917.20	788.66	760.91	755.89	717.34	755.07	872.28
Radiation-Diagnostic/Oncology	629.93	609.35	517.83	586.92	617.30	567.88	520.04	396.60	462.68	518.97
Surgery	423.69	406.62	342.36	383.99	474.94	493.24	362.04	338.53	352.65	420.58
Urology	165.44	173.35	82.71	71.47	171.89	231.66	161.78	122.63	130.05	189.90
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	0	0.00	0.00	23.04	0.00	0.00	0.00	0.00	0.00	0.00
Dermatology	517.27	383.83	513.97	565.01	517.67	580.33	495.15	238.70	216.49	214.14
Emergency Medicine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Family Medicine	0	4.38	4.19	4.09	3.99	3.92	12.04	12.54	14.96	16.91
Internal Medicine/Medicine	2716.56	2859.64	2948.10	3325.16	2944.45	2996.87	3015.02	2952.95	3299.36	3523.49
Neurology	1056.37	1134.75	1026.00	923.97	933.90	998.77	971.23	1064.05	1303.34	2987.19
Neurosurgery	374.49	509.63	466.42	321.85	305.94	108.84	103.02	96.73	106.11	0.00
Obstetrics and Gynecology	143.68	140.31	121.84	123.66	130.47	128.58	0.00	52.29	59.45	104.34
Ophthalmology	1044.94	1170.49	927.85	886.01	838.17	777.91	760.60	820.18	795.62	768.54
Orthopedics	126.2	125.76	119.00	150.88	149.47	171.07	167.15	161.84	207.79	203.91
Otolaryngology	539.17	511.56	476.12	449.98	297.75	224.58	58.84	507.06	458.34	677.35
Pathology	1669.05	1179.93	2553.67	2540.12	2373.11	3037.92	2528.92	984.96	888.52	1116.61
Pediatrics	473.59	408.08	381.26	283.77	275.95	238.45	224.13	163.62	168.34	243.99
Physical Medicine & Rehab	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Psychiatry	461.43	445.88	504.71	408.00	453.99	328.93	278.31	221.12	196.19	216.89
Radiation-Diagnostic/Oncology	87.87	105.93	109.64	146.88	286.25	161.16	203.06	189.41	239.21	269.25
Surgery	959.11	819.33	930.32	599.18	936.89	935.62	1369.56	1205.36	1019.18	1441.36
Urology	492.04	473.70	388.96	512.57	509.49	595.46	0.00	0.00	0.00	0.00
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	82.34	76.68	83.19	160.74	134.27	269.80	197.58	177.52	236.16	209.21
Dermatology	74.83	221.89	208.60	183.63	326.13	214.71	240.68	258.31	570.67	362.88

Emergency Medicine	536.81	465.33	212.46	172.94	104.21	74.85	138.90	514.01	38.14	272.45
Family Medicine	49.45	74.86	78.90	84.49	99.42	79.63	50.30	67.99	73.70	58.99
Internal Medicine/Medicine	3621.03	3432.95	3713.38	3496.82	3032.18	2873.05	3093.09	3178.15	4480.40	5007.88
Neurology	4780.51	5184.24	5242.20	5646.02	4517.67	6012.59	4677.68	7148.68	6353.65	8486.64
Neurosurgery	913.42	883.13	2919.54	2705.41	2001.84	4394.74	4492.97	2192.77	1039.72	838.75
Obstetrics and Gynecology	629.11	412.41	123.20	253.10	1069.13	217.56	192.32	259.40	164.36	170.84
Ophthalmology	130.77	132.73	101.99	69.49	149.27	184.86	187.72	287.69	308.00	354.51
Orthopedics	0	0.00	25.96	32.29	9.61	9.56	0.00	0.00	32.30	29.31
Otolaryngology	153.02	87.87	118.13	105.97	259.53	235.04	277.60	371.66	192.20	274.26
Pathology	3022.5	2032.21	1914.78	1377.46	1382.72	1764.59	1921.09	2273.61	2066.44	2194.54
Pediatrics	1766.44	1745.73	1561.52	1680.56	1528.23	1360.30	1325.43	1315.72	1192.68	1050.94
Physical Medicine & Rehab	66.88	70.22	411.32	364.83	397.14	363.18	348.72	180.81	454.46	689.06
Plastic Surgery	0	0.00	0.00	0.00	0.00	0.00	0.00	53.02	51.38	50.71
Psychiatry	1085.13	1525.97	1382.55	1536.74	1670.21	1450.75	1225.50	1356.09	2087.67	1754.41
Radiation-Diagnostic/Oncology	204.33	240.56	354.41	425.05	473.53	409.89	803.19	822.43	837.71	801.17
Surgery	1118.53	1494.90	1486.05	1286.22	1487.70	1317.68	1159.13	1379.29	137.49	1103.53
Urology	1369.09	1136.85	1165.61	747.45	624.69	683.20	702.02	612.44	909.17	435.95

Supplementary Table 13: Mean NIH training grant (F32, T32) funding amount from 2011-2020 by specialty

F32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	47,914.25	51,490.00	49,633.25	43,534.29	23,741.00	58,002.00	57,066.00	57,560.40	60,918.00	64,990.00
Dermatology	43,343.50	55,754.00	51,857.67	42,836.00	49,628.00	55,554.00	46,238.00	58,179.75	66,110.00	65,894.00
Emergency Medicine	59,234.00	54,033.00	62,234.00	-	-	-	-	-	-	65,310.00
Family Medicine	-	-	-	56,030.00	20,307.00	-	-	-	-	-
Internal Medicine/Medicine	51,926.46	51,811.16	50,429.82	51,319.95	53,518.16	53,923.50	47,240.95	55,961.90	61,755.06	66,378.50
Neurology	48,824.33	44,860.50	48,197.95	49,647.19	50,244.97	56,367.65	42,558.86	56,279.00	54,616.14	63,340.64
Neurosurgery	52,676.12	45,676.25	42,293.62	51,613.00	50,253.00	53,844.20	58,787.33	53,451.73	55,313.00	60,524.92
Obstetrics and Gynecology	52,343.00	48,368.00	43,787.75	53,768.00	55,170.80	57,281.00	48,730.00	59,250.00	62,027.60	60,798.40
Ophthalmology	45,094.75	50,123.71	55,008.00	54,536.44	53,676.33	49,738.75	43,040.30	59,953.43	59,131.89	56,727.30
Orthopedics	49,338.00	48,075.67	50,392.60	46,269.20	53,574.33	48,082.83	55,240.00	61,271.14	63,762.00	67,321.00
Otolaryngology	52,747.00	54,843.71	50,681.71	50,843.50	49,508.33	57,822.62	42,489.86	54,204.30	62,456.62	72,395.00
Pathology	51,873.14	50,886.24	43,413.09	46,494.82	52,489.91	54,737.84	37,180.08	61,869.82	61,228.88	55,828.23
Pediatrics	53,559.40	52,427.22	51,929.29	51,190.00	48,164.61	45,491.18	49,132.40	58,639.23	60,939.11	55,600.83
Physical Medicine & Rehab	51,326.00	51,821.00	-	55,982.00	40,795.00	68,949.00	62,763.00	61,516.50	65,694.00	68,436.00
Plastic Surgery	-	-	-	-	-	-	-	-	70,552.00	-
Psychiatry	49,255.31	47,980.59	47,068.46	48,248.08	52,733.33	53,797.79	40,610.76	55,418.88	58,605.48	63,169.34
Radiation-Diagnostic/Oncology	50,566.64	49,940.50	37,040.60	55,094.00	55,880.00	53,115.56	47,848.12	61,253.57	67,271.25	65,120.57
Surgery	48,888.53	50,666.33	50,921.23	51,721.74	54,732.95	51,360.80	55,393.12	64,262.30	67,220.20	72,716.73
Urology	58,202.00	53,066.00	55,670.00	44,500.00	60,380.00	40,588.67	39,434.67	74,086.00	65,606.00	80,358.00
T32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	177,313.40	176,064.90	194,942.40	191,664.00	229,197.30	261,418.50	214,919.70	265,184.00	254,169.90	299,745.20
Dermatology	187,196.80	188,549.20	188,549.20	167,228.80	214,451.50	214,313.90	206,142.70	217,967.20	279,571.00	254,416.00
Emergency Medicine	-	-	-	-	-	168,966.00	369,797.00	446,984.50	458,056.00	365,562.00
Family Medicine	246,991.00	292,899.00	254,736.30	297,305.80	376,785.20	332,118.50	243,977.20	347,868.00	368,096.20	349,901.40
Internal Medicine/Medicine	301,089.20	298,071.10	312,795.30	315,749.30	340,196.50	351,412.10	265,624.40	362,508.90	387,754.70	381,541.10
Neurology	257,944.60	248,875.60	259,835.60	313,442.20	310,645.00	332,014.40	284,266.30	313,233.30	259,761.20	311,463.30
Neurosurgery	197,192.30	177,160.70	193,940.30	199,963.30	347,813.40	363,970.00	273,969.30	568,351.80	611,950.20	501,294.40
Obstetrics and Gynecology	199,358.80	216,580.20	210,501.20	238,399.90	223,788.80	244,205.40	165,655.80	237,966.30	220,205.90	260,306.00
Ophthalmology	191,942.20	198,428.80	211,319.40	231,037.90	235,602.10	214,293.00	139,347.60	184,728.10	187,265.60	206,601.10
Orthopedics	218,841.90	231,324.10	227,927.00	231,027.90	240,819.90	239,498.30	229,004.50	223,953.60	239,265.70	259,178.40
Otolaryngology	206,410.50	278,268.20	258,790.70	262,284.30	264,087.20	251,168.30	149,735.40	257,186.90	267,736.80	301,986.80
Pathology	380,784.30	389,268.50	374,945.80	340,587.00	359,971.80	343,585.70	281,690.50	368,287.30	386,528.50	366,898.70
Pediatrics	226,569.60	242,487.10	251,749.30	248,890.50	272,019.20	292,232.50	249,166.00	332,139.50	338,472.10	358,133.20
Physical Medicine & Rehab	159,013.20	266,958.20	272,975.00	281,319.30	313,034.30	250,943.80	212,667.80	257,476.20	315,693.50	320,902.00
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	260,461.80	261,552.40	254,036.70	241,928.30	255,408.40	286,070.20	197,495.20	312,247.00	333,855.00	367,256.80
Radiation-Diagnostic/Oncology	253,584.50	204,744.00	211,428.10	187,940.40	195,605.00	266,952.50	181,965.90	243,591.80	259,048.50	255,330.70
Surgery	233,508.00	219,160.50	208,387.80	225,132.50	218,762.10	251,569.50	231,538.90	302,109.40	307,981.10	298,942.30
Urology	154,911.30	152,947.90	164,463.90	145,810.40	129,597.00	151,069.50	155,845.80	167,294.00	247,190.80	288,956.20

Inflation-Adjusted Mean NIH training grant (F32, T32) funding amount from 2011-2020 by specialty

F32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	47,914.25	50,564.63	47,863.62	41,185.25	22,206.14	53,806.97	52,012.07	51,267.85	53,217.04	56,030.55
Dermatology	43,343.50	54,752.00	50,008.73	40,524.64	46,419.54	51,536.02	42,143.03	51,819.50	57,752.69	56,809.93
Emergency Medicine	59,234.00	53,061.93	60,015.10	-	-	-	-	-	-	56,306.44
Family Medicine	-	-	-	56,030.00	20,307.00	-	-	-	-	-
Internal Medicine/Medicine	51,926.46	50,880.02	48,631.79	48,550.81	50,058.20	50,023.45	43,057.15	49,844.10	53,948.28	57,227.64
Neurology	48,824.33	44,054.28	46,479.50	46,968.31	46,996.62	52,290.82	38,789.72	50,126.54	47,711.83	54,608.57
Neurosurgery	52,676.12	44,855.37	40,785.68	48,828.05	47,004.14	49,949.88	53,580.95	47,608.35	48,320.59	52,181.02
Obstetrics and Gynecology	52,343.00	47,498.74	42,226.54	50,866.76	51,604.00	53,138.11	44,414.33	52,772.74	54,186.37	52,416.80
Ophthalmology	45,094.75	49,222.90	53,046.74	51,593.74	50,206.15	46,141.36	39,228.53	53,399.28	51,656.72	48,906.94
Orthopedics	49,338.00	47,211.67	48,595.90	43,772.59	50,110.74	44,605.21	50,347.79	54,572.93	55,701.51	58,040.20
Otolaryngology	52,747.00	53,858.07	48,874.70	48,100.07	46,307.61	53,640.56	38,726.83	48,278.64	54,561.15	62,414.71
Pathology	51,873.14	49,971.73	41,865.24	43,986.03	49,096.43	50,778.89	33,887.30	55,106.16	53,488.62	48,131.81
Pediatrics	53,559.40	51,485.01	50,077.80	48,427.87	45,050.76	42,201.00	44,781.09	52,228.74	53,235.48	47,935.76
Physical Medicine & Rehab	51,326.00	50,889.69	-	52,961.30	38,157.60	63,962.22	57,204.53	54,791.47	57,389.28	59,001.49
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	49,255.31	47,118.30	45,390.28	45,644.69	49,324.11	49,906.83	37,014.15	49,360.45	51,196.85	54,460.89
Radiation-Diagnostic/Oncology	50,566.64	49,042.98	35,719.95	52,121.22	52,267.35	49,273.94	43,610.55	54,557.28	58,767.14	56,143.12
Surgery	48,888.53	49,755.77	49,105.68	48,930.92	51,194.46	47,646.10	50,487.34	57,237.10	58,722.54	62,692.09
Urology	58,202.00	52,112.31	53,685.14	42,098.85	56,476.42	48,126.51	35,942.22	65,986.86	57,312.40	69,279.94

T32	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	177,313.40	172,900.71	187,991.91	181,322.12	214,379.66	242,511.23	195,885.79	236,193.88	222,038.95	258,422.67
Dermatology	187,196.80	200,172.91	181,826.65	158,205.40	200,587.18	198,813.50	187,886.10	194,138.86	244,228.96	219,342.50
Emergency Medicine	-	-	-	-	-	-	-	-	-	-
Family Medicine	246,991.00	287,635.09	245,653.91	281,263.65	352,425.98	308,097.80	222,369.87	309,838.80	321,563.23	301,664.40
Internal Medicine/ Medicine	301,089.20	292,714.24	301,642.87	298,711.97	318,202.74	325,995.98	242,099.93	322,879.15	338,736.59	328,942.29
Neurology	257,944.60	244,402.87	250,571.40	296,529.36	290,561.75	308,001.23	259,090.85	278,990.40	226,923.42	268,525.33
Neurosurgery	197,192.30	173,976.81	187,025.53	189,173.60	325,327.21	337,645.62	249,705.78	506,219.15	534,590.36	432,186.53
Obstetrics and Gynecology	199,358.80	212,687.88	202,995.97	225,536.22	209,320.82	226,543.08	150,984.84	211,951.64	192,368.52	224,420.52
Ophthalmology	191,942.20	194,862.69	203,785.00	218,571.46	220,370.39	198,794.11	127,006.57	164,533.48	163,592.37	178,119.31
Orthopedics	218,841.90	227,166.80	219,800.47	218,562.00	225,250.86	222,176.42	208,723.20	199,470.82	209,018.87	223,448.37
Otolaryngology	206,410.50	273,267.23	249,563.75	248,131.86	247,013.92	233,002.38	136,474.40	229,071.03	233,890.79	260,355.25
Pathology	380,784.30	382,272.67	361,577.45	322,209.47	336,699.57	318,735.63	256,743.17	328,025.85	337,665.40	316,318.47
Pediatrics	226,569.60	238,129.18	242,773.41	235,460.77	254,433.12	271,096.59	227,099.14	295,829.76	295,684.06	308,761.37
Physical Medicine & Rehab	159,013.20	262,160.50	263,242.32	266,139.76	292,796.58	232,794.12	193,833.32	229,328.70	275,785.03	276,662.82
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	260,461.80	256,851.85	244,979.25	228,874.24	238,896.21	265,379.98	180,004.45	278,111.92	291,650.64	316,627.20
Radiation-Diagnostic/ Oncology	253,584.50	201,064.39	203,889.82	177,799.44	182,959.11	247,644.98	165,850.47	216,962.16	226,300.82	220,131.11
Surgery	233,508.00	215,221.80	200,957.92	212,984.71	204,619.10	233,374.57	211,033.14	269,082.57	269,047.59	257,730.46
Urology	154,911.30	150,199.16	158,600.09	137,942.70	121,218.53	140,143.30	142,043.64	149,005.29	215,942.11	249,121.03

Supplementary Table 14: Mean NIH career development grant (K01, K08, K223) funding amount from 2011-2020 by specialty

K01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	120,086.20	121,151.50	115,788.80	122,631.20	176,829.40	177,605.20	171,822.00	151,097.00	131,069.00	141,491.00
Dermatology	93,785.25	116,732.20	99,330.00	111,210.00	107,873.70	111,286.00	116,404.90	103,161.40	102,986.40	117,490.50
Emergency Medicine	-	136,304.00	134,016.00	132,182.00	137,936.00	-	-	40,556.00	123,254.00	123,660.00
Family Medicine	112,845.90	120,051.80	118,157.40	128,002.10	132,817.90	133,941.40	135,747.60	141,963.10	129,695.10	138,819.10
Internal Medicine/ Medicine	127,509.60	123,147.00	123,903.40	130,004.80	129,290.10	132,724.20	144,242.50	142,969.40	143,327.00	140,742.80
Neurology	134,905.80	139,454.80	144,548.50	150,252.70	147,094.90	147,826.80	136,708.40	138,698.20	129,702.90	123,381.30
Neurosurgery	99,353.33	80,347.00	126,644.00	-	-	104,760.00	-	158,780.50	151,324.70	109,357.30
Obstetrics and Gynecology	139,635.50	171,026.00	156,377.50	159,980.20	155,728.00	148,407.80	136,159.00	128,488.00	127,963.10	139,234.20
Ophthalmology	-	-	131,122.00	-	-	-	145,208.00	126,603.50	129,963.00	145,208.00
Orthopedics	123,579.60	117,938.50	115,494.70	121,495.10	110,510.50	126,430.90	124,989.00	123,020.40	116,702.50	117,502.00
Otolaryngology	137,182.00	137,182.00	137,188.00	129,952.00	-	-	-	-	-	129,771.00
Pathology	118,330.60	116,786.60	113,168.80	107,158.60	115,922.80	167,622.70	161,973.60	147,423.50	121,876.90	131,635.80
Pediatrics	124,242.00	133,766.00	126,937.50	129,747.30	135,899.90	123,447.50	137,237.00	145,505.60	150,086.00	133,047.70
Physical Medicine & Rehab	114,634.30	91,353.75	122,354.20	122,099.50	123,407.00	124,027.90	129,660.80	128,024.50	133,554.80	125,854.80
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	148,655.30	144,651.20	145,283.70	152,443.40	149,052.30	151,938.30	149,647.70	156,758.20	154,175.90	150,847.70
Radiation-Diagnostic/ Oncology	122,974.40	130,706.80	116,722.90	143,148.50	122,157.10	137,792.70	142,346.30	135,374.40	128,713.10	137,445.50
Surgery	124,855.50	122,972.90	112,757.30	126,519.10	135,341.40	142,970.80	160,080.20	176,646.70	171,699.50	144,524.30
Urology	105,823.00	105,823.00	105,823.00	137,484.00	146,730.30	148,409.80	141,016.20	140,084.40	139,784.40	144,782.30
K08	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	125,868.50	130,766.60	138,082.60	151,676.50	163,094.40	171,524.70	166,395.30	180,576.00	180,629.80	173,059.70
Dermatology	123,634.20	121,501.10	113,992.10	108,300.60	120,100.30	161,198.20	139,880.80	163,778.70	143,989.70	162,867.30
Emergency Medicine	141,586.00	142,015.50	125,040.90	148,179.80	149,105.00	155,894.10	162,261.10	160,546.60	159,030.30	160,115.70
Family Medicine	122,205.80	123,184.80	135,554.20	137,668.00	148,187.00	145,819.00	168,048.00	168,048.00	171,562.00	167,957.70
Internal Medicine/ Medicine	135,478.30	134,615.70	136,943.70	142,669.50	140,445.70	154,266.60	162,795.70	165,745.00	165,870.80	171,982.30
Neurology	162,383.80	160,599.20	168,910.60	175,436.80	156,846.60	164,111.20	183,334.50	189,698.70	186,428.20	189,501.70
Neurosurgery	165,681.90	170,939.90	160,663.30	164,708.70	150,693.80	155,605.60	158,727.40	182,594.00	182,323.80	180,507.00
Obstetrics and Gynecology	134,050.10	134,579.40	136,049.00	119,664.60	121,878.00	124,569.00	166,888.00	181,463.60	184,982.20	186,092.80
Ophthalmology	204,350.20	210,972.40	184,014.60	212,911.40	203,695.00	194,094.20	203,772.30	195,569.10	202,154.30	195,095.20
Orthopedics	179,280.00	134,364.00	129,774.80	109,454.50	121,247.50	174,153.00	171,547.70	147,346.10	120,988.70	141,396.10
Otolaryngology	166,228.00	156,362.90	176,830.70	183,344.60	188,773.70	188,130.90	187,116.00	193,339.30	180,546.90	187,986.70
Pathology	127,919.40	129,889.90	127,000.10	147,248.60	142,633.30	163,702.00	152,111.60	167,191.40	174,799.40	174,170.30
Pediatrics	131,701.80	137,711.50	139,356.10	143,865.50	142,323.10	147,470.40	161,704.00	167,077.30	171,653.00	172,228.00
Physical Medicine & Rehab	124,929.00	124,929.00	124,929.00	-	-	-	-	171,084.00	171,045.00	171,720.00
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	167,165.70	162,011.70	156,512.70	160,774.70	168,384.70	169,355.80	170,572.30	160,770.60	171,369.90	177,536.00
Radiation-Diagnostic/ Oncology	162,287.60	163,995.20	163,995.20	152,487.80	138,629.30	171,720.00	177,445.30	203,390.30	206,262.70	208,723.60
Surgery	133,971.00	141,133.80	133,410.60	142,876.00	142,639.40	161,231.70	162,646.80	166,654.40	170,087.20	173,347.90
Urology	152,109.50	149,671.80	126,433.20	151,479.60	165,470.20	164,894.80	168,676.40	166,015.60	222,228.60	219,611.00
K23	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	133,340.70	155,830.60	141,449.70	156,572.20	154,426.80	153,813.90	172,864.50	179,465.90	180,755.90	175,125.70
Dermatology	122,563.30	122,675.50	83,995.33	123,012.00	85,710.67	167,154.20	173,453.20	151,582.90	155,709.10	167,417.10
Emergency Medicine	130,236.80	140,747.70	154,086.90	154,124.70	147,563.30	163,834.90	177,780.20	175,407.00	178,953.30	172,696.90
Family Medicine	154,195.60	156,956.10	150,109.50	146,538.00	107,960.80	146,244.80	161,528.00	160,174.80	164,166.00	157,210.60
Internal Medicine/ Medicine	145,051.40	146,590.90	149,245.80	148,408.90	147,055.30	165,604.00	175,093.50	178,488.30	180,532.60	175,648.40
Neurology	147,474.40	151,874.90	162,050.10	167,642.70	165,994.60	163,494.20	182,582.00	176,333.10	177,608.00	184,799.30
Neurosurgery	185,974.00	177,987.20	184,467.40	173,711.80	167,926.40	145,447.80	183,568.00	183,766.00	185,417.40	187,105.50
Obstetrics and Gynecology	133,524.90	129,024.90	126,127.10	121,042.70	115,983.90	129,604.80	163,354.60	169,060.50	173,401.20	169,482.20
Ophthalmology	190,213.70	213,359.00	203,372.30	203,470.50	207,128.10	203,477.50	217,257.90	193,281.00	214,918.40	211,700.00
Orthopedics	168,729.00	130,244.00	106,738.00	106,001.00	97,252.50	173,299.00	173,232.00	123,099.70	164,534.30	136,915.80
Otolaryngology	185,635.10	208,391.80	205,798.00	211,281.60	216,575.50	194,894.20	202,767.70	202,568.80	191,398.80	151,949.50
Pathology	129,132.00	133,431.30	132,375.00	135,050.00	138,577.00	136,984.00	146,011.00	142,388.00	190,080.00	175,913.00
Pediatrics	137,762.10	137,020.20	138,214.20	136,091.10	138,911.50	157,733.50	175,092.30	176,104.60	174,308.50	172,738.90
Physical Medicine & Rehab	142,022.90	157,135.50	151,114.80	136,524.80	144,986.60	123,112.70	165,357.30	135,080.00	151,405.00	147,440.30
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	160,234.10	155,582.30	161,932.10	162,780.60	156,467.60	164,714.30	177,292.20	173,883.30	175,900.20	173,824.60
Radiation-Diagnostic/ Oncology	158,602.70	164,772.20	157,904.80	162,607.20	161,641.00	173,602.00	180,637.50	179,685.00	195,696.00	192,598.70
Surgery	131,087.50	139,226.80	134,489.40	142,886.30	146,946.70	193,953.80	178,872.20	183,133.10	172,933.60	172,745.80
Urology	157,160.00	153,943.00	148,464.50	155,136.30	150,595.50					

Inflation-Adjusted Mean NIH career development grant (K01, K08, K23) funding amount from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
K01										
Anesthesiology	120,086.20	118,974.20	111,660.46	116,014.22	165,397.35	164,759.78	156,604.95	134,578.96	114,499.88	121,985.21
Dermatology	93,785.25	114,634.32	95,788.48	105,209.29	100,899.65	103,237.16	106,095.74	91,883.72	89,967.35	101,293.40
Emergency Medicine	-	133,854.38	129,237.78	125,049.67	129,018.42	-	-	36,122.39	107,672.81	106,612.38
Family Medicine	112,845.90	117,894.26	113,944.60	121,095.31	124,231.20	124,254.00	123,725.40	126,443.59	113,299.66	119,681.66
Internal Medicine/ Medicine	127,509.60	120,933.83	119,485.74	122,989.95	120,931.47	123,124.83	131,467.97	127,339.88	125,208.28	121,340.16
Neurology	134,905.80	136,948.55	139,394.75	142,145.30	137,585.19	137,135.13	124,601.11	123,535.61	113,306.48	106,372.10
Neurosurgery	99,353.33	78,903.02	122,128.62	-	-	97,183.16	-	141,422.49	132,194.95	94,281.43
Obstetrics and Gynecology	139,635.50	167,952.36	150,802.00	151,347.92	145,660.16	137,674.11	124,100.36	114,441.59	111,786.61	120,039.53
Ophthalmology	-	-	-	124,046.87	-	-	132,347.96	112,763.11	113,533.69	125,189.79
Orthopedics	123,579.60	115,818.94	111,376.84	114,939.42	103,365.98	117,286.70	113,919.61	109,571.72	101,949.52	101,303.31
Otolaryngology	137,182.00	134,716.60	132,296.69	122,940.00	-	-	-	-	-	111,880.92
Pathology	118,330.60	114,687.74	109,133.87	101,376.49	108,428.37	155,499.27	147,628.75	131,307.05	106,469.80	-
Pediatrics	124,242.00	131,361.99	122,411.66	122,746.34	127,113.95	114,519.08	125,082.89	129,598.82	131,112.84	114,705.90
Physical Medicine & Rehab	114,634.30	89,711.96	117,991.77	115,511.21	115,428.72	115,057.50	138,177.66	114,028.76	116,671.44	108,504.60
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	148,655.30	142,051.57	140,103.74	144,217.80	139,416.05	140,949.26	136,394.47	139,621.27	134,685.71	130,052.01
Radiation-Diagnostic/ Oncology	122,974.40	128,357.77	112,561.25	135,424.44	114,259.62	127,826.75	129,739.70	120,575.17	112,441.80	118,497.42
Surgery	124,855.50	120,762.86	108,737.04	119,692.33	126,591.56	132,630.34	145,903.03	157,335.55	149,994.06	124,600.35
Urology	105,822.00	103,921.18	102,049.98	130,065.58	137,244.16	137,675.96	128,527.40	124,770.27	122,113.52	124,822.78
K08										
Anesthesiology	125,868.50	128,416.50	133,159.39	143,492.28	152,550.32	159,119.06	151,658.85	160,835.29	157,795.44	149,201.89
Dermatology	123,634.20	119,317.51	109,927.81	102,456.87	112,335.80	149,539.43	127,492.55	145,874.29	125,787.21	140,414.60
Emergency Medicine	141,586.00	139,463.23	120,582.68	140,184.25	139,465.34	144,618.95	147,890.79	142,995.52	138,926.44	138,042.33
Family Medicine	122,205.80	120,970.95	130,721.14	130,239.65	138,606.69	135,272.54	153,165.18	149,676.86	149,873.95	144,803.25
Internal Medicine/ Medicine	135,478.30	132,196.42	132,061.10	134,971.28	131,365.86	143,109.16	148,378.04	147,625.63	144,902.20	148,273.02
Neurology	162,383.80	157,712.95	162,888.25	165,970.51	146,706.44	152,241.75	167,097.87	168,960.69	162,860.83	163,377.21
Neurosurgery	165,681.90	167,867.81	154,935.00	155,821.28	140,951.42	144,351.32	144,670.04	162,632.68	159,275.29	155,622.51
Obstetrics and Gynecology	134,050.10	132,160.77	131,198.30	113,207.69	113,998.57	115,559.46	152,107.91	161,625.86	161,597.63	160,438.26
Ophthalmology	204,350.20	207,180.86	177,453.73	201,423.04	190,526.09	180,056.21	185,725.63	174,189.34	176,598.91	168,199.60
Orthopedics	179,280.00	131,949.24	125,147.80	103,548.51	113,408.83	161,557.27	156,354.94	131,238.11	105,693.88	121,903.40
Otolaryngology	166,228.00	153,552.79	170,525.96	173,451.62	176,569.45	174,524.21	170,544.46	172,203.30	157,723.02	162,071.07
Pathology	127,919.40	127,555.55	122,472.03	139,303.30	133,412.03	151,862.14	138,640.16	148,913.91	152,702.09	150,159.38
Pediatrics	131,701.80	135,236.58	134,387.48	136,102.75	133,121.89	136,804.50	147,383.02	148,812.28	149,953.44	148,484.85
Physical Medicine & Rehab	124,929.00	122,683.81	120,474.77	-	-	-	-	152,380.97	149,422.30	148,046.88
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	167,165.70	159,100.07	150,932.38	152,099.55	157,498.60	157,107.03	155,465.92	143,195.04	149,706.13	153,061.09
Radiation-Diagnostic/ Oncology	162,287.60	161,047.92	158,148.10	144,259.80	129,666.89	159,300.23	161,730.23	181,155.52	180,187.95	179,949.21
Surgery	133,971.00	138,597.38	128,653.97	135,166.64	133,417.74	-	148,242.33	148,435.61	148,585.58	149,450.36
Urology	152,105.50	146,981.94	121,925.34	143,306.00	154,772.53	152,968.67	153,737.93	147,866.65	194,135.52	189,335.68
K23										
Anesthesiology	133,340.70	153,030.05	136,406.44	148,123.81	144,443.08	142,689.21	157,555.12	159,846.55	157,905.60	150,983.07
Dermatology	122,563.30	120,470.81	81,000.55	116,374.47	80,169.46	155,064.66	158,091.68	135,011.74	136,025.10	144,337.17
Emergency Medicine	130,236.80	138,218.22	148,593.07	145,808.38	138,023.31	151,985.43	162,035.47	156,231.37	156,330.87	148,889.11
Family Medicine	154,195.60	154,135.32	144,757.48	138,631.04	100,981.12	135,667.55	147,222.61	142,664.37	143,412.91	135,537.73
Internal Medicine/ Medicine	145,051.40	143,956.41	143,924.58	140,400.99	137,548.15	153,626.58	159,586.71	158,975.82	157,710.53	151,433.71
Neurology	147,474.40	149,145.44	156,272.35	158,596.97	155,263.02	151,669.37	166,412.01	157,056.23	155,155.64	159,323.08
Neurosurgery	185,974.00	174,788.46	177,890.38	164,338.59	157,069.93	134,928.19	167,310.69	163,676.56	161,977.81	161,311.35
Obstetrics and Gynecology	133,524.90	126,706.10	121,630.15	114,511.43	108,485.52	120,231.04	148,887.44	150,578.68	151,480.64	146,117.58
Ophthalmology	190,213.70	209,524.57	196,121.24	192,491.56	193,737.24	188,760.85	198,016.91	172,151.37	187,749.44	182,515.28
Orthopedics	168,728.00	127,903.29	102,932.35	100,281.36	90,965.11	160,765.03	157,890.07	109,642.35	143,752.13	118,040.75
Otolaryngology	185,635.10	204,843.04	198,460.46	199,881.18	202,573.86	180,798.34	184,810.00	180,423.82	167,203.07	131,001.92
Pathology	129,132.00	131,033.31	127,655.29	127,762.92	129,617.97	127,076.54	133,079.84	126,822.03	166,050.99	151,661.84
Pediatrics	137,762.10	134,557.71	133,286.30	128,747.84	129,930.85	146,325.32	159,585.62	156,852.71	152,273.25	148,925.32
Physical Medicine & Rehab	142,022.90	154,311.50	145,726.94	129,158.14	135,613.19	114,208.49	150,712.78	120,312.95	132,265.10	127,114.35
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	160,234.10	152,786.21	156,158.56	153,997.22	146,351.94	152,801.23	161,590.69	154,874.24	153,663.73	149,861.34
Radiation-Diagnostic/ Oncology	158,602.70	161,810.96	152,274.85	153,833.18	151,190.88	161,046.12	164,639.72	160,041.70	170,957.04	166,047.27
Surgery	131,087.50	136,724.65	129,694.30	135,176.38	137,446.57	179,925.96	163,030.76	163,112.85	151,072.16	148,931.26
Urology	157,160.00	151,176.38	143,171.13	146,765.39	140,859.48	134,846.46	142,194.67	128,536.59	147,163.21	144,664.44

Supplementary Table 15: Mean NIH advanced career grant (R01, R03, R21,P30, U01) funding amount from 2011-2020 by specialty

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
R01										
Anesthesiology	374,447.70	394,100.80	381,465.50	388,318.40	397,822.70	406,701.40	407,569.50	421,265.70	442,363.80	457,545.10
Dermatology	346,269.00	353,875.30	329,760.60	339,497.10	343,133.50	378,646.10	376,141.70	401,937.20	407,364.50	451,637.40
Emergency Medicine	466,096.40	430,106.60	460,062.20	470,284.20	426,357.60	487,572.10	508,476.20	493,767.40	575,232.50	549,043.00
Family Medicine	487,546.90	488,225.60	486,072.70	495,950.50	506,253.30	545,224.90	554,983.50	600,927.30	516,841.30	531,260.10
Internal Medicine/ Medicine	397,304.00	402,009.00	394,328.30	418,406.80	425,024.90	444,284.30	460,866.00	476,968.20	496,173.70	519,120.80
Neurology	410,236.30	402,897.10	396,817.20	416,205.80	415,876.30	454,982.50	501,719.70	527,246.30	523,779.60	591,815.60
Neurosurgery	349,190.00	361,219.40	334,960.60	363,622.60	380,344.00	392,876.40	396,933.90	405,769.40	419,080.50	439,343.10
Obstetrics and Gynecology	346,000.80	353,612.00	344,703.60	366,529.30	395,003.60	414,115.00	426,231.40	462,369.60	470,195.60	498,958.80
Ophthalmology	422,226.60	405,362.00	408,734.00	420,905.30	413,073.10	423,610.60	413,586.50	415,660.80	427,374.40	424,900.50
Orthopedics	339,055.70	342,596.00	328,792.10	358,600.80	347,868.40	359,813.70	376,507.60	393,633.10	400,186.80	394,073.30
Otolaryngology	366,140.90	374,585.90	354,134.70	370,305.90	386,724.90	405,442.80	444,403.50	441,687.90	468,107.80	484,753.40
Pathology	349,328.10									

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	75,013.50	80,121.33	73,827.00	88,809.17	80,643.50	77,053.25	64,444.67	84,861.11	99,035.62	125,495.20
Dermatology	65,179.20	69,331.67	75,557.50	79,536.50	78,739.62	78,298.56	76,541.71	77,562.50	97,484.25	103,084.00
Emergency Medicine	63,900.00	86,342.00	68,643.00	114,000.00	103,827.20	103,827.20	90,322.40	87,723.75	97,375.00	86,329.25
Family Medicine	92,104.25	79,953.11	93,963.44	72,566.71	71,569.67	81,500.40	77,791.50	89,625.00	110,513.00	137,648.00
Internal Medicine/ Med	80,464.41	83,149.58	81,058.10	86,721.70	88,129.27	87,862.07	86,184.46	83,945.14	95,116.11	107,653.00
Neurology	96,460.50	72,986.11	77,806.82	87,614.08	96,734.08	105,522.80	92,073.53	79,031.53	102,401.90	112,459.50
Neurosurgery	130,434.70	97,590.25	95,985.62	77,379.40	84,825.57	89,403.75	80,900.00	80,539.50	80,125.00	94,243.00
Obstetrics and Gynecol	75,107.75	72,019.92	76,442.40	66,966.33	74,648.30	91,245.82	88,747.40	81,769.53	80,324.57	76,466.70
Ophthalmology	-	-	-	97,812.50	90,412.67	81,000.00	117,750.00	97,000.00	107,491.00	109,985.70
Orthopedics	81,667.80	78,736.50	73,071.33	84,992.50	81,801.70	71,470.57	77,298.33	119,874.70	105,583.60	90,420.00
Otolaryngology	132,187.70	126,241.40	125,250.60	131,234.80	134,709.60	140,382.80	149,760.80	131,110.40	160,218.00	158,270.30
Pathology	77,017.92	68,969.52	68,464.14	72,582.80	82,741.27	81,826.56	86,125.00	85,686.81	93,440.08	108,855.80
Pediatrics	76,878.26	83,228.93	77,130.46	76,619.09	88,884.12	93,250.40	88,673.74	92,985.63	84,607.97	105,865.80
Physical Medicine & Re	96,047.43	77,752.57	92,279.40	85,749.29	82,524.80	79,055.80	57,416.33	122,787.50	119,870.90	90,743.00
Plastic Surgery	-	-	-	-	-	77,000.00	77,625.00	-	-	-
Psychiatry	106,102.80	96,842.21	88,253.77	108,346.70	105,996.80	97,768.48	91,020.66	92,001.78	94,258.75	112,458.60
Radiation-Diagnostic/O	97,959.88	74,000.00	74,273.10	81,043.88	73,541.19	80,722.22	84,385.64	87,718.83	101,238.20	96,695.82
Surgery	90,946.47	86,952.30	81,038.65	92,010.12	79,187.47	85,131.93	84,614.60	85,822.24	93,100.45	108,786.10
Urology	78,000.00	80,206.67	76,727.50	88,901.00	94,229.60	99,951.67	81,000.00	84,750.00	95,083.67	95,640.25
R21	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	198,626.80	206,645.70	207,925.40	240,374.70	214,890.20	222,642.60	204,033.30	205,608.50	231,893.00	220,026.40
Dermatology	183,150.90	215,467.50	205,891.90	187,726.20	175,905.80	206,179.00	206,712.70	200,869.70	211,443.40	215,252.90
Emergency Medicine	236,297.20	247,628.80	225,641.70	226,948.40	176,774.30	171,878.60	150,868.10	170,914.20	266,771.70	245,092.00
Family Medicine	195,393.30	208,657.20	185,239.90	195,614.40	194,681.40	175,792.70	173,967.60	205,190.60	171,800.00	204,367.60
Internal Medicine/ Medi	206,711.70	201,968.50	194,621.30	201,298.10	195,991.70	202,211.70	204,170.20	203,708.00	205,422.00	220,545.90
Neurology	201,619.80	201,549.90	201,204.50	203,806.60	211,268.70	214,279.00	212,947.40	209,448.60	241,177.10	287,778.60
Neurosurgery	185,724.80	206,732.60	201,600.70	230,048.00	208,243.30	219,118.90	211,809.70	214,277.20	286,452.30	306,622.90
Obstetrics and Gynecol	206,047.70	188,485.70	212,358.60	195,606.80	218,635.10	197,080.80	211,848.40	205,317.70	190,272.70	230,260.90
Ophthalmology	184,974.60	203,152.80	195,418.10	194,578.50	223,106.90	195,940.80	205,887.20	210,155.00	224,989.80	215,666.20
Orthopedics	197,322.00	180,957.80	178,617.30	179,097.70	179,869.40	182,221.90	198,079.80	196,486.30	186,053.10	189,359.10
Otolaryngology	190,945.80	202,619.80	219,600.80	180,714.10	194,943.90	209,649.70	198,219.80	168,791.10	186,598.10	207,036.90
Pathology	195,703.40	204,958.00	200,512.00	206,034.70	206,334.40	199,877.40	204,935.70	208,193.80	212,859.80	238,281.30
Pediatrics	191,759.30	204,481.70	194,309.80	204,612.00	204,628.20	203,089.60	203,995.10	209,293.80	215,602.60	229,768.60
Physical Medicine & Re	195,226.20	204,276.70	198,593.80	184,909.80	175,084.50	219,859.90	213,217.90	210,636.60	218,363.20	272,956.00
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	206,745.70	210,005.50	200,307.60	203,195.30	203,961.00	206,254.10	207,092.30	208,095.90	216,318.70	248,406.50
Radiation-Diagnostic/O	210,700.90	215,624.70	198,734.30	206,031.30	210,710.10	203,560.50	197,694.80	202,985.80	212,349.50	246,125.20
Surgery	192,224.20	197,450.10	194,389.40	213,268.20	206,825.20	196,633.60	198,945.20	196,267.10	202,344.50	230,940.30
Urology	203,200.80	192,179.90	167,621.00	184,901.50	180,240.60	189,491.20	195,661.90	197,886.00	189,822.10	224,701.10
P30	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	-	-	-	999,665.00	-	-	-	-	-	-
Dermatology	508,803.50	541,894.10	757,022.80	626,258.90	809,839.80	619,243.90	595,169.40	658,403.00	775,427.80	777,173.80
Emergency Medicine	-	-	-	-	-	-	-	-	-	-
Family Medicine	-	119,990.50	118,347.00	118,786.20	118,793.20	118,769.50	1,499,404.00	1,631,702.00	506,108.00	579,330.50
Internal Medicine/ Medi	1,322,479.00	1,476,749.00	1,647,969.00	1,595,381.00	1,386,675.00	1,343,980.00	1,410,555.00	1,289,653.00	1,454,688.00	1,360,467.00
Neurology	909,600.70	792,808.50	874,868.00	926,021.70	955,091.90	972,888.10	913,550.00	924,625.30	1,004,999.00	1,531,679.00
Neurosurgery	945,027.00	883,790.30	833,661.70	894,494.50	874,301.50	638,089.00	625,169.00	612,461.00	349,065.00	-
Obstetrics and Gynecol	1,933,778.00	1,933,777.00	2,578,935.00	1,793,093.00	1,157,198.00	960,318.00	-	825,564.00	484,487.50	517,036.80
Ophthalmology	604,815.60	584,035.50	587,455.10	595,992.60	595,040.80	627,412.80	628,117.10	566,308.50	676,475.90	662,129.10
Orthopedics	625,387.50	627,439.20	597,681.80	614,321.00	611,879.20	703,440.00	696,916.40	691,739.60	755,061.70	751,669.50
Otolaryngology	622,200.80	604,010.00	657,359.40	556,833.40	499,296.20	458,450.40	614,973.00	1,831,543.00	5,129,654.00	1,280,229.00
Pathology	1,470,235.00	957,377.10	1,815,262.00	1,575,747.00	1,348,339.00	1,711,069.00	1,424,948.00	704,481.40	989,077.50	1,091,643.00
Pediatrics	1,546,389.00	1,105,870.00	967,114.30	948,261.30	943,137.20	828,083.70	898,125.40	911,258.60	834,352.40	686,218.80
Physical Medicine & Re	-	-	-	-	-	-	-	-	-	-
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	1,359,067.00	1,143,958.00	1,148,220.00	1,078,633.00	964,003.10	1,121,970.00	1,060,552.00	1,061,952.00	791,983.70	1,084,308.00
Radiation-Diagnostic/O	570,185.40	631,016.30	858,373.40	847,082.90	1,477,880.00	973,777.90	887,744.60	862,805.50	942,347.40	1,172,460.00
Surgery	1,941,337.00	1,953,115.00	1,619,891.00	1,331,107.00	1,580,976.00	1,334,913.00	1,881,459.00	1,268,240.00	1,355,662.00	1,473,755.00
Urology	690,688.70	787,747.80	788,214.80	883,989.70	890,415.50	703,540.90	-	-	-	-
U01	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Anesthesiology	471,964.90	451,071.30	502,329.90	581,282.50	659,561.00	805,747.30	646,645.70	558,255.40	952,199.00	788,965.70
Dermatology	269,879.00	501,225.00	351,136.30	373,138.20	510,195.50	549,849.80	636,470.60	593,721.30	908,451.60	478,907.70
Emergency Medicine	1,824,301.00	1,298,730.00	482,628.40	501,535.70	551,203.10	661,067.80	1,613,430.00	3,157,825.00	657,901.70	2,040,631.00
Family Medicine	478,966.10	586,568.00	742,643.20	893,927.70	788,654.90	643,250.80	481,880.50	589,515.60	664,795.80	808,722.80
Internal Medicine/ Medi	1,022,969.00	964,165.60	989,827.10	1,092,75.00	886,928.90	858,966.50	893,301.00	856,548.70	1,092,779.00	1,185,112.00
Neurology	1,871,063.00	1,720,465.00	1,787,908.00	1,467,034.00	1,155,044.00	1,126,302.00	1,158,458.00	1,597,367.00	1,513,014.00	1,832,220.00
Neurosurgery	768,340.80	1,148,616.00	1,956,889.00	2,148,264.00	880,115.20	544,229.30	1,090,613.00	661,140.50	684,117.00	699,007.20
Obstetrics and Gynecol	1,693,429.00	1,003,004.00	651,969.90	846,932.70	2,061,479.00	749,891.80	549,367.70	1,023,898.00	893,043.90	769,562.20
Ophthalmology	586,612.20	530,067.90	387,425.60	271,115.80	593,446.80	745,473.40	645,930.80	615,781.70	567,401.30	992,640.80
Orthopedics	-	-	521,639.00	328,701.30	196,680.00	196,680.00	-	-	705,076.00	648,412.00
Otolaryngology	353,177.20	207,493.50	380,567.70	262,256.00	870,422.00	799,632.30	725,323.20	805,466.80	537,763.50	777,554.20
Pathology	838,184.80	549,637.20	591,787.10	595,558.00	677,260.50	776,469.70	845,671.50	929,243.10	787,017.40	869,787.10
Pediatrics	754,255.50	776,144.10	785,361.80	842,353.10	758,205.00	825,554.30	779,608.50	799,393.60	745,582.70	671,752.30
Physical Medicine & Re	142,161.00	207,461.00	542,662.10	497,752.60	486,371.40	724,539.40	714,931.60	323,280.20	1,693,692.00	2,602,043.00
Plastic Surgery	-	-	-	-	-	-	-	430,375.00	430,374.00	430,375.00
Psychiatry	783,933.80	675,010.60	676,836.10	716,949.10	647,915.90	715,427.10	684,931.10	666,083.20	1,007,650.00	999,233.70
Radiation-Diagnostic/O	473,532.00	477,637.40	630,609.80	659,958.20	575,229.00	597,857.80	877,838.40	693,746.60	707,158.00	783,193.20
Surgery	577,115.30	739,604.80	680,929.60	729,561.00	787,591.30	760,011.10	612,448.50	621,961.60	704,749.40	564,166.70
Urology	960,907.90	756,219.90	694,723.70	386,726.50	385,323.20	454,059.60	402,182.40	532,157.50	707,767.40	368,446.40

Psychiatry	465,597.40	455,643.14	433,159.11	443,499.29	456,044.31	473,322.91	479,528.20	489,512.50	494,041.18	504,989.96
Radiation-Diagnostic/Or	388,720.60	396,611.26	371,707.90	384,771.39	393,455.28	429,769.25	445,032.31	431,055.71	441,474.26	434,477.76
Surgery	355,171.00	353,022.56	333,002.72	354,571.76	371,085.36	384,810.07	386,724.04	382,141.29	393,729.19	404,476.28
Urology	307,852.70	320,142.49	290,710.27	289,331.59	322,216.70	318,551.12	347,247.05	358,473.27	360,130.77	364,194.12
R03										
Anesthesiology	75,013.50	78,681.41	71,194.77	84,017.17	75,429.88	71,480.32	58,737.26	75,584.03	86,516.01	108,194.58
Dermatology	65,179.20	68,085.66	72,863.57	75,244.84	73,649.09	72,635.56	69,762.95	69,083.31	85,160.75	88,872.96
Emergency Medicine	63,905.00	84,790.28	66,195.60	107,848.74	97,114.76	96,360.13	82,323.19	78,133.72	85,065.31	74,428.00
Family Medicine	92,104.25	78,516.21	90,613.26	68,651.13	66,942.68	75,605.83	70,902.06	79,827.13	96,542.47	118,672.01
Internal Medicine/ Med	80,464.41	81,565.24	78,168.05	82,042.34	82,431.70	81,507.39	78,551.71	74,768.19	83,091.98	92,812.51
Neurology	96,460.50	71,674.42	75,032.69	82,886.56	90,480.21	97,890.79	83,919.23	70,391.74	89,456.74	96,955.96
Neurosurgery	130,434.70	95,836.38	92,563.34	73,204.13	79,341.58	82,937.56	73,735.26	71,734.86	69,995.98	81,250.77
Obstetrics and Gynecolo	75,107.75	70,725.60	73,716.92	63,352.93	69,822.28	84,646.40	80,887.67	72,830.42	70,170.32	65,925.09
Ophthalmology	-	-	-	92,534.69	84,567.48	75,141.62	107,321.72	86,395.89	93,902.50	94,823.20
Orthopedics	81,667.80	77,321.47	70,466.04	80,406.44	76,513.21	66,301.41	70,452.57	106,769.91	92,236.22	77,954.80
Otolaryngology	132,187.70	123,972.62	120,784.90	124,153.58	126,000.60	130,229.52	136,497.55	116,777.31	139,964.00	136,451.34
Pathology	77,017.92	67,730.02	66,023.11	68,666.35	77,392.03	75,908.40	78,497.52	76,319.46	81,627.83	93,849.07
Pediatrics	76,878.26	81,733.16	74,380.44	72,484.85	83,137.75	86,506.00	80,820.54	82,820.37	73,912.23	91,271.26
Physical Medicine & Reh	96,047.43	76,355.22	88,989.26	81,122.40	77,189.56	73,338.04	52,331.37	109,364.28	104,717.39	78,233.28
Plastic Surgery	-	-	-	-	-	71,430.92	70,750.30	-	-	-
Psychiatry	106,102.80	95,101.79	85,107.16	102,500.49	99,144.09	90,697.31	82,959.61	81,944.08	82,343.01	96,955.19
Radiation-Diagnostic/Or	97,959.88	72,670.09	71,624.96	76,670.88	68,786.74	74,883.93	76,912.20	78,129.34	88,440.15	83,365.45
Surgery	90,946.47	85,389.62	78,149.29	87,045.40	74,067.99	78,974.71	77,120.89	76,440.09	81,331.13	93,788.97
Urology	78,000.00	78,765.22	73,991.85	84,104.04	88,137.64	92,722.60	73,826.41	75,485.07	83,063.64	82,455.40
R21										
Anesthesiology	198,626.80	202,931.92	200,512.01	227,404.47	200,997.51	206,539.82	185,963.52	183,131.22	202,578.19	189,693.82
Dermatology	183,150.90	211,595.17	198,551.01	177,596.79	164,533.46	159,266.96	188,405.62	178,910.47	184,713.73	185,578.38
Emergency Medicine	236,297.20	243,178.48	217,596.65	214,702.63	165,345.81	159,447.36	137,506.78	152,229.73	233,047.69	-
Family Medicine	195,993.30	204,907.27	178,635.34	185,059.36	182,095.22	163,078.37	158,560.52	182,759.01	150,081.86	176,193.72
Internal Medicine/ Med	206,711.70	198,338.77	187,682.25	190,436.38	183,320.81	187,586.60	186,088.30	181,438.49	179,453.53	190,141.70
Neurology	201,619.80	197,927.70	194,030.74	192,809.52	197,610.15	198,781.13	194,088.16	186,551.52	210,688.64	248,105.78
Neurosurgery	185,724.80	203,017.25	194,412.81	217,634.98	194,780.34	203,270.98	193,051.22	190,852.25	250,240.36	264,352.22
Obstetrics and Gynecolo	206,047.70	185,098.28	204,787.15	185,052.17	204,500.31	182,826.80	193,086.49	182,872.21	166,219.33	198,517.40
Ophthalmology	184,974.60	199,501.79	188,450.64	184,079.36	208,683.00	181,769.25	187,653.23	187,180.69	196,547.66	185,934.71
Orthopedics	197,322.00	177,705.67	172,248.86	169,433.87	168,240.81	169,042.58	180,537.28	175,006.27	162,533.15	163,254.27
Otolaryngology	190,945.80	198,978.37	211,771.13	170,963.06	182,340.75	194,486.64	180,664.88	150,338.73	163,009.25	178,495.03
Pathology	195,703.40	201,274.55	193,362.93	194,917.40	192,994.85	185,421.13	186,786.00	185,433.89	185,951.08	205,432.12
Pediatrics	191,759.30	200,806.81	187,381.86	193,571.46	191,398.95	188,401.01	185,928.70	186,413.64	188,347.14	198,092.97
Physical Medicine & Reh	195,226.20	200,605.49	191,513.12	174,932.36	163,765.26	203,958.38	194,334.70	187,609.65	190,758.76	235,326.60
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	206,745.70	206,231.33	193,165.81	192,231.21	190,774.89	191,336.63	188,751.61	185,346.70	188,972.72	214,161.47
Radiation-Diagnostic/Or	210,700.90	211,749.55	191,648.61	194,914.18	197,087.66	188,837.85	180,186.28	180,795.24	185,505.28	212,194.66
Surgery	192,224.20	193,901.58	187,458.62	201,760.59	193,453.92	182,411.94	181,326.04	174,811.03	176,765.07	199,103.14
Urology	203,200.80	188,726.09	161,644.63	174,924.51	168,588.02	175,786.12	178,333.51	176,252.95	165,825.69	193,724.07
R30										
Anesthesiology	-	-	-	945,724.67	-	-	-	-	-	-
Dermatology	508,803.50	532,155.32	730,031.84	592,466.97	757,483.53	574,456.67	542,459.47	586,425.88	677,401.90	670,033.52
Emergency Medicine	-	-	-	-	-	-	-	-	-	-
Family Medicine	-	117,834.06	114,127.44	112,376.69	111,113.20	110,179.42	1,366,612.43	1,453,323.09	442,128.23	499,464.67
Internal Medicine/ Med	1,322,479.00	1,450,209.24	1,589,212.16	1,509,296.79	1,297,026.24	1,246,775.74	1,285,632.16	1,148,667.15	1,270,793.25	1,172,914.59
Neurology	909,600.70	778,560.35	843,675.37	876,065.05	893,345.06	902,523.31	832,643.36	823,544.55	877,951.80	1,320,523.51
Neurosurgery	945,027.00	867,907.05	803,938.25	846,229.01	817,777.77	591,938.78	569,802.22	545,506.29	304,937.86	-
Obstetrics and Gynecolo	1,933,778.00	1,899,023.65	2,486,985.41	1,696,340.57	1,082,384.97	890,862.35	-	735,312.71	423,240.89	445,758.70
Ophthalmology	604,815.60	573,539.36	566,509.92	563,833.79	556,571.32	582,034.74	572,489.23	504,399.22	590,959.03	570,848.75
Orthopedics	625,387.50	616,163.02	576,372.00	581,173.22	572,321.11	652,563.23	635,195.46	616,118.10	660,396.61	648,045.21
Otolaryngology	622,200.80	593,154.89	633,921.85	526,787.56	467,016.62	425,292.66	560,509.21	1,631,317.32	4,481,187.51	1,103,738.11
Pathology	1,470,235.00	940,171.36	1,750,540.48	1,490,722.21	1,261,168.67	1,587,314.77	1,298,750.47	627,466.95	864,043.02	941,150.36
Pediatrics	1,546,389.00	1,085,995.59	932,632.72	897,094.64	882,163.23	768,191.98	818,584.81	811,639.11	728,877.53	591,617.47
Physical Medicine & Reh	-	-	-	-	-	-	-	-	-	-
Plastic Surgery	-	-	-	-	-	-	-	-	-	-
Psychiatry	1,359,067.00	1,123,399.08	1,107,281.26	1,020,431.69	901,680.15	1,040,822.76	966,626.44	945,858.60	691,864.88	934,826.55
Radiation-Diagnostic/Or	570,185.40	619,675.84	827,768.87	801,375.66	1,382,334.82	903,348.75	809,123.36	768,482.94	823,220.32	1,010,826.02
Surgery	1,941,337.00	1,918,014.11	1,562,135.25	1,259,282.59	1,478,765.65	1,238,364.51	1,714,831.54	1,129,595.03	1,184,285.65	1,270,584.84
Urology	690,688.70	773,590.60	760,111.72	836,291.03	832,850.00	652,656.83	-	-	-	-
U01										
Anesthesiology	471,964.90	442,964.76	484,419.78	549,917.43	616,920.28	747,471.08	589,376.88	497,226.49	831,826.52	680,199.80
Dermatology	269,879.00	492,217.11	338,616.85	353,004.26	477,211.28	510,081.54	580,102.92	528,815.23	793,609.46	412,886.04
Emergency Medicine	1,824,301.00	1,275,389.55	465,420.72	474,473.64	515,567.73	613,255.62	1,470,539.96	2,812,609.16	574,732.89	1,759,311.97
Family Medicine	478,966.10	576,027.23	716,164.93	845,692.79	737,668.24	596,727.25	439,203.77	525,069.30	580,755.47	697,233.21
Internal Medicine/ Med	1,022,969.00	946,837.86	954,535.71	-	829,588.81	796,841.17	814,187.67	762,910.14	954,635.07	1,021,733.83
Neurology	1,871,063.00	1,689,545.24	1,724,161.76	1,387,875.19	1,080,370.22	1,044,841.44	1,034,898.55	1,422,741.62	1,321,745.96	1,579,632.27
Neurosurgery	768,340.80	1,127,973.37	1,887,117.89	2,032,347.11	823,215.61	885,214.02	994,025.15	588,864.11	597,634.18	602,642.88
Obstetrics and Gynecolo	1,693,429.00	984,978.27	628,724.50	801,233.56	1,928,204.06	695,655.37	500,714.10	911,964.69	780,149.53	663,471.25
Ophthalmology	586,612.20	343,776.57	373,612.29	256,486.82	555,080.37	691,556.53	588,725.30	548,463.97	495,673.12	855,796.49
Orthopedics	-	-	503,040.43	310,965.29	183,964.61	182,454.99	-	-	615,943.64	559,022.67
Otolaryngology	353,177.20	203,764.48	366,998.90	248,105.09	814,149.08	741,798.35	661,086.47	717,412.55	469,781.99	670,361.48
Pathology	838,184.80	539,759.26	570,687.47	563,422.64	633,475.50	720,311.00	770,776.38	827,657.53	687,526.40	749,879.26
Pediatrics	754,255.50	762,195.44	757,360.44	796,901.07	709,186.93	765,845.53	710,564.11	712,003.28	651,329.68	579,145.31
Physical Medicine & Reh	142,161.00	203,732.56	523,313.97	470,894.67	454,927.41	672,136.60	651,615.18	287,938.96	1,479,583.50	2,243,328.36
Plastic Surgery	-	-	-	-	-	-	-	383,326.08	375,968.16	371,044.00
Psychiatry	783,933.80	662,879.48	652,704.12	678,263.67	606,028.03	663,683.35	624,271.62	593,266.48	880,267.67	861,480.50
Radiation-Diagnostic/Or	473,532.00	469,053.42	608,125.98	624,347.91	538,040.35	554,617.33	800,094.49	617,905.69	617,7	