







# 2019 NEUROLOGY COMPENSATION AND PRODUCTIVITY REPORT









## INTRODUCTION



The AAN's 2019 Neurology Compensation and Productivity Report marks the sixth year this comprehensive benchmarking survey has been conducted, with an impressive response rate of 3,270, further validating that this report has become an essential resource for neurologists, advanced practice providers, and practice administrators in all settings and employment types. The leadership of the AAN greatly appreciates all the time and effort that respondents, staff, and volunteers devoted to this project; we sincerely thank you for the important role you have played in helping us develop this valuable tool for neurology.

We hope that you find these results helpful in navigating today's rapidly changing health care environment. You may wish to use them to benchmark your practice by comparing productivity, salary, and practice characteristics in a variety of ways that will help you identify practice efficiencies as well as areas of potential growth. The dashboard gives you the ability to stratify several data points allowing you to take a deeper dive to further understand the characteristics of the better performers. By analyzing ratios, such as compensation-to-work and revenue-to-work ratios, you will be able to use those benchmarks to analyze your own center's productivity and reimbursement metrics. You can then parse out numbers to develop actionable steps for improvements, whether they be through identification of inefficiencies in operations, payer agreement(s), or any other material anomalies which need to be addressed.

The Survey Work Group has applied tremendous efforts in developing this survey to be of utmost use to neurologists, neurology APP's, and their practice administrators. The survey itself has gone through several iterations. Most of the improvements have come from direct feedback provided by respondents and from AAN Section chairs. We continue to strive for an increase in the number of respondents at the subspecialty level. We urge you to continue to participate in the future so you can compare your year-to-year progress in achieving your goals. Please encourage your peers to complete the survey, as well, so it can remain the largest survey dedicated solely to neurology compensation and productivity. The more robust data we make available, the better neurologists, APPs, and administrators can position themselves for success.

Thank you for your interest in the 2019 *Neurology Compensation and Productivity Report*. We look forward to your continued participation in the survey.

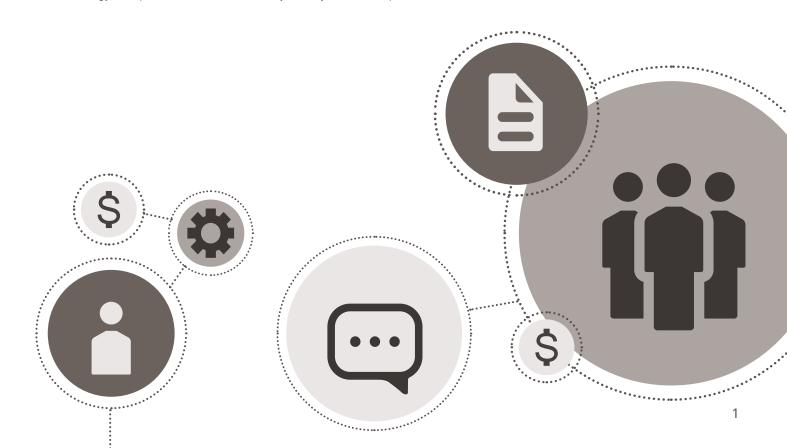
Sincerely,

#### James C. Stevens, MD, FAAN

President, American Academy of Neurology

#### David A. Evans, MBA

Chair, Neurology Compensation and Productivity Survey Work Group



## **LEGAL NOTICE**



You may not use this report, or any other AAN reports, activities, communications, or publications, to limit competition, restrain trade, or act in concert with others to reduce or stabilize salary or benefit levels. You must make independent economic decisions based on your own individual circumstances. The AAN generated this report for the sole purpose of presenting ranges of neurology practice compensation and other payment information to a general audience, including both AAN members and nonmembers.

The AAN survey data in this report is confidential and proprietary AAN information. You must use, at minimum, a reasonable degree of care to safeguard this confidential information. You may use it only for your personal or internal business purposes, which means that you may not copy it, or disclose it to any third party. You may not discuss the survey data with competitors. Only aggregate survey data is published to preserve the confidentiality of the data, and the individual or organization that submitted the data. The data provided by the survey participants is more than three months old. There are at least five employers or individual providers (as applicable) reporting data for each statistic. You should not be able to identify individual employers/providers. If you believe a single employer/provider may be identified with any of the survey information, please contact John Hutchins at *generalcounsel@aancom*, immediately.

The AAN does not represent or warrant the accuracy of the data in this report or any outcomes based on the use of the data. And, because the AAN does not provide any legal or financial advice, this report should not be construed to offer such advice.

Your Practice Data Is Important for Neurology's Future—and Yours! Data for the Neurology Compensation and Productivity Report relies on a large number of respondents in order to maintain a representative sample size. Your contribution to this data is vital. Take part in the survey and you will help the AAN continue its efforts of providing the most robust compensation data available to neurologists like you.

For more information, visit <u>AAN.com/Benchmark</u> or contact benchmark@aan.com.

© 2019 American Academy of Neurology. You may use this report for your personal, non-commercial purposes. But you may not reproduce, modify, prepare derivative works of, distribute copies of, store in a retrieval system, publicly display, or otherwise use this report unless you have received the AAN's written permission to do so. Please direct all permission requests to **benchmark@aan.com**.

# **COMPENSATION**



## Median Compensation by Subspecialty

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Behavioral Neurology & Neuropsychiatry	15	\$86,505	\$94,611	\$105,299
Child Neurology	32	\$89,458	\$102,316	\$115,658
Epilepsy	40	\$93,241	\$110,402	\$130,684
General Neurology	123	\$90,000	\$102,890	\$120,000
Headache Medicine	27	\$83,205	\$89,586	\$110,562
Movement Disorders	30	\$91,800	\$102,225	\$120,660
Neurocritical Care	31	\$98,698	\$107,797	\$118,965
Neurohospitalist	19	\$100,000	\$107,787	\$118,000
Neuroimmunology & Multiple Sclerosis	25	\$89,075	\$104,000	\$141,600
Neuromuscular Medicine	20	\$90,733	\$102,580	\$121,950
Vascular Neurology & Stroke	35	\$76,529	\$103,000	\$109,112
Neurologist				
Behavioral Neurology & Neuropsychiatry	94	\$166,464	\$215,749	\$274,247
Child Neurology	248	\$190,000	\$220,000	\$274,000
Clinical Neurophysiology	64	\$197,761	\$263,500	\$355,000
Endovascular & Interventional Neurology	33	\$450,000	\$540,000	\$675,000
Epilepsy	283	\$199,000	\$232,861	\$299,000
General Neurology	463	\$200,000	\$260,000	\$341,753
Geriatric Neurology	32	\$179,947	\$212,732	\$273,305
Headache Medicine	71	\$190,962	\$235,000	\$302,644
Movement Disorders	195	\$188,131	\$225,000	\$280,000
Neural Repair & Rehabilitation	17	\$194,478	\$209,667	\$240,000
Neuro-oncology	50	\$200,000	\$230,000	\$315,750
Neuro-ophthalmology	27	\$190,000	\$227,029	\$311,835
Neurocritical Care	130	\$217,500	\$264,599	\$333,263
Neurohospitalist	112	\$230,230	\$285,000	\$343,202
Neuroimmunology & Multiple Sclerosis	118	\$188,482	\$229,849	\$283,225
Neuromuscular Medicine	211	\$192,616	\$239,336	\$300,000
Other	45	\$109,054	\$187,204	\$271,063
Pain Medicine	15	\$225,000	\$297,000	\$520,000
Sleep Medicine	63	\$187,280	\$237,404	\$289,395
Vascular Neurology & Stroke	257	\$200,000	\$235,755	\$305,000

## **COMPENSATION** CONTINUED

### Median Compensation by Practice Setting

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Academic medical center-based group	260	\$92,577	\$105,337	\$121,756
Hospital-based group	24	\$96,084	\$108,000	\$117,140
Multispecialty group	39	\$92,111	\$105,000	\$120,508
Neurology group	110	\$83,475	\$98,431	\$115,316
Neurologist				
Academic medical center-based group	1,672	\$189,694	\$225,000	\$280,000
Government-based group	32	\$166,500	\$218,393	\$244,000
Hospital-based group	262	\$270,000	\$320,500	\$405,000
Multispecialty group	151	\$245,905	\$310,000	\$410,000
Neurology group	242	\$215,607	\$273,931	\$350,000
Other	17	\$212,000	\$250,000	\$300,000
Solo practice	68	\$169,500	\$255,009	\$400,000

## Median Compensation by Gender

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Female	392	\$90,280	\$103,665	\$119,235
Male	43	\$91,693	\$102,012	\$120,000
Neurologist				
Female	887	\$185,000	\$223,619	\$278,426
Male	1,507	\$200,241	\$255,377	\$332,889

## Median Compensation by Community Population

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Large Metropolitan	28	\$98,101	\$106,394	\$119,394
Medium Metropolitan	35	\$93,000	\$100,000	\$115,000
Small Metropolitan	23	\$95,000	\$116,280	\$123,000
Neurologist				
Large Metropolitan	418	\$202,000	\$257,000	\$330,000
Medium Metropolitan	342	\$210,000	\$264,372	\$350,000
Rural	64	\$250,000	\$310,000	\$400,000
Small Metropolitan	274	\$208,000	\$279,161	\$350,000
Do not know	18	\$200,000	\$262,500	\$300,000

## **COMPENSATION** CONTINUED

## Median Compensation by Region

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile			
Advanced Practice Provider (APP)							
Midwest	96	\$90,000	\$101,245	\$120,254			
Northeast	148	\$88,996	\$101,593	\$114,996			
South	147	\$95,522	\$106,385	\$127,000			
West	53	\$89,408	\$105,000	\$120,000			
Neurologist							
Midwest	446	\$206,550	\$260,489	\$330,443			
Northeast	927	\$189,123	\$231,456	\$297,949			
South	751	\$196,985	\$238,525	\$320,000			
West	466	\$197,120	\$237,934	\$300,000			

## Median Compensation by Years in Practice

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
1-2 Years	68	\$75,345	\$92,421	\$100,000
3-7 Years	122	\$92,916	\$103,665	\$120,000
8-12 Years	71	\$91,800	\$109,112	\$120,000
13-17 Years	35	\$102,000	\$115,000	\$127,545
18-22 Years	29	\$103,803	\$115,000	\$125,000
23+ Years	30	\$105,000	\$122,981	\$204,235
Neurologist				
1-2 Years	211	\$173,639	\$216,498	\$278,426
3-7 Years	610	\$184,696	\$225,000	\$292,443
8-12 Years	372	\$204,659	\$245,187	\$319,135
13-17 Years	236	\$208,870	\$253,093	\$330,000
18-22 Years	214	\$210,000	\$275,000	\$350,000
23+ Years	486	\$208,000	\$260,592	\$344,974

# **WORK RVUs**



### Median wRVUs by Subspecialty

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Behavioral Neurology & Neuropsychiatry	11	1,619	3,679	4,191
Child Neurology	29	897	1,481	3,449
Epilepsy	36	397	1,277	2,181
General Neurology	53	1,048	1,959	2,760
Headache Medicine	23	1,034	2,512	3,821
Movement Disorders	28	265	1,153	2,119
Neurocritical Care	25	455	1,105	1,414
Neuroimmunology & Multiple Sclerosis	19	137	831	1,743
Neuromuscular Medicine	16	512	1,206	3,042
Vascular Neurology & Stroke	25	214	998	1,361
Neurologist				
Behavioral Neurology & Neuropsychiatry	77	890	2,000	3,167
Child Neurology	176	1,253	2,635	4,313
Clinical Neurophysiology	42	1,340	2,982	5,623
Endovascular & Interventional Neurology	27	5,500	8,253	10,000
Epilepsy	252	1,682	3,491	5,565
General Neurology	298	2,007	3,699	5,440
Geriatric Neurology	26	1,283	2,158	3,310
Headache Medicine	61	1,611	3,117	4,576
Movement Disorders	167	1,485	2,555	4,200
Neural Repair & Rehabilitation	14	851	1,581	3,516
Neuro-oncology	39	1,393	2,551	3,804
Neuro-ophthalmology	24	854	3,075	5,022
Neurocritical Care	98	2,173	3,433	5,000
Neurohospitalist	78	2,118	3,285	5,200
Neuroimmunology & Multiple Sclerosis	94	1,398	2,596	3,894
Neuromuscular Medicine	180	1,573	2,997	4,183
Other	37	556	2,260	4,193
Sleep Medicine	51	2,423	3,780	4,662
Vascular Neurology & Stroke	205	1,488	2,720	4,166

#### Median wRVUs by Practice Setting

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Academic medical center-based group	216	419	1,066	1,912
Neurology group	81	1,966	3,382	4,380

## Work RVUs CONTINUED

#### Median wRVUs by Practice Setting

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Academic medical center-based group	216	419	1,066	1,912
Neurology group	81	1,966	3,382	4,380

Neurologist				
Academic medical center-based group	1,449	1,305	2,591	4,000
Hospital-based group	181	3,701	5,000	6,900
Multispecialty group	87	4,066	5,011	6,991
Neurology group	153	3,600	5,302	6,784
Solo practice	10	5,000	5,925	8,121

### Median wRVUs by Gender

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Female	279	700	1,479	2,619
Male	25	458	1,314	3,201
Neurologist				
Female	683	1,465	2,894	4,408
Male	1,154	1,693	3,247	5,000

## Median wRVUs by Community Population

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP) – resp	onse too lo	ow to show results	S	
Neurologist				
Large Metropolitan	242	2,566	4,000	5,551
Medium Metropolitan	195	3,200	4,500	7,000
Rural	35	3,142	4,400	6,000
Small Metropolitan	169	3,214	4,800	6,320
Do not know	10	4,700	5,325	7,000

## Work RVUs CONTINUED

## Median wRVUs by Region

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
Midwest	57	746	1,261	2,200
Northeast	135	287	1,105	3,531
South	88	1,188	1,853	2,612
West	32	682	1,296	2,026
Neurologist				
Midwest	342	1,973	3,416	5,500
Northeast	746	1,103	2,660	4,224
South	563	2,078	3,500	5,300
West	350	1,372	2,430	4,100

## Median wRVUs by Years in Practice

	Count	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile
Advanced Practice Provider (APP)				
1-2 Years	41	1,034	1,818	3,736
3-7 Years	81	700	1,619	3,283
8-12 Years	43	759	1,593	2,672
13-17 Years	20	243	1,835	3,094
18-22 Years	19	1,056	2,034	3,373
23+ Years	25	876	1,525	2,200
Neurologist				
1-2 Years	144	1,306	3,131	4,446
3-7 Years	442	2,058	3,504	5,100
8-12 Years	284	2,301	3,800	5,420
13-17 Years	176	2,000	3,361	5,354
18-22 Years	148	1,526	2,997	5,104
23+ Years	369	1,396	2,850	4,538

## **DATA DESCRIPTION**



© 2019 American Academy of Neurology. You may use this report for your personal, non-commercial purposes. But you may not reproduce, modify, prepare derivative works of, distribute copies of, store in a retrieval system, publicly display, or otherwise use this report unless you have received the AAN's written permission to do so. Please direct all permission requests to **benchmark@aan.com**.

#### **Overview**

The 2019 Neurology Compensation and Productivity Survey reports on physician and practice performance from 2018 data. The number of survey respondents was 3,270, making this the largest and most comprehensive compensation report for neurologists in the United States. Data was collected through an online survey, which included approximately 75 questions. The questions aimed to capture an extensive list of compensation, productivity, and performance measures for neurologists, advanced practice providers (APPs), and practice administrators. In order to participate in the survey, respondents had to be members of the AAN who currently practice in the United States or were practice administrators in the United States submitting on behalf of their neurologists or APPs. The survey offered two distinct response tracks: neurologist/APP or practice administrator. Of the 3,270 respondents, 2,723 identified as neurologists, 474 identified as APPs, and 71 identified as practice administrators. The two tracks types answered different questions: Neurologists and APPs answered questions regarding personal compensation and productivity information, while practice administrators reported on practice performance.

## **Survey Methods**

- Data Collection: Invitations were emailed on March 11, 2019, to eligible AAN members in the US. Participation in the survey was completely electronic through an online survey portal. Data collection closed on May 25, 2019.
- Instrument: Since the survey's inaugural year in 2013, the question set has been reviewed and modified annually by the Practice Management and Technology Subcommittee and its Neurology Compensation and Productivity Survey Work Group to ensure the survey remains relevant. The instrument has been redesigned to include skip logic sophistication to minimize response fatigue.
- **Response:** Invitations were emailed to 15,702 AAN members, including physicians, advanced practice providers (APPs), and practice managers. Overall, 3,742 surveys were started with 3,270 respondents completing and submitting their results. The data reflects the results from these respondents and may or may not be representative of the relevant population.
- **Data Analysis:** Any data point with fewer than 10 responses will be displayed in the dashboard with the message "No data found your filters may be too exclusive" or with an icon to protect anonymity.
- **Dashboard Widget Response Numbers:** The number of responses vary across widgets depending on who answered the respective question. Respondents could skip questions throughout the survey and were not posed questions irrelevant to their role.

## **Definitions**

- Annual Compensation: The amount of compensation reported in Box 5 of the W2 and/or Box 19 of the K1. If received both, the sum of the W2 and K1 (this includes 401K) was to be reported.
- Work RVUs: Physician work RVUs are reported based on the 2018 Medicare Fee Schedule for all medical services performed by the provider.
- Race and Ethnicity: The 2019 survey utilizes the Office of Management and Budget's rule on race and ethnicity classification for federal agencies. The survey included the minimum categories for data collection outlined in that document.

## **Formulas**

• Compensation per Neurologist Work RVU: Total Neurologist Compensation/Neurologist Work RVU.

## **Explanation of Terms Used**

- Mean: The value representing a central tendency among all responses computed as an arithmetic average
- Minimum: The value representing the smallest quantity in a range of values
- Maximum: The value representing the largest quantity in a range of values
- FTE: Full-time Equivalent
- wRVU: Physician Work Relative Value Unit
- Rural: Population less than 50,000



- Small Metropolitan: Population from 50,000 to 250,000
- Medium Metropolitan: Population from 250,001 to 1,000,000
- Large Metropolitan: Population of more than 1,000,000

## Regional Designations

The 2019 survey uses the United States Census Bureau's census regions and divisions of the United States to determine regional designations.

- Northeast: CT, MA, ME, NH, NJ, NY, PA, RI, VT.
- Midwest: IA, IL, IN, KS, MI, MN, MO, NE, ND, OH, SD, WI.
- South: AL, AR, DE, DC, FL, GA, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, WV.
- West: AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY.

We were able to reference compensation data to agree upon fair market salary for our region and practice setting as well as set reasonable RVU productivity parameters.

-Dr. Michael Markowski