Demographic	characteristics <sup>1</sup>	Respondents	Non-Respondents	Significance
		$(n = 1,673)^4$	$(n = 2,454)^4$	testing
		Percent	Percent	_
Sex <sup>2</sup>	Men	65.4*	69.1	$p = 0.012^5$
	Women	34.6*	30.9	
Age <sup>2</sup>	< 40	21.8	22.0	$p = 0.100^5$
	40-49	24.9	28.3	
	50-59	25.8	24.1	
	60-69	20.4	18.4	
	70+	7.1	7.2	
Region <sup>2</sup>	Northeast	23.4*	26.6	$p = 0.017^5$
-	Midwest	23.5*	19.9	
	South	30.6	32.1	
	West	21.8	20.9	
	Other	0.8	0.5	
Work	Solo Practice	15.0	13.9	$p < 0.004^5$
Setting <sup>3</sup>	Neurology Group	23.2	22.2	-
	Multispecialty Group	14.7	13.2	
	Academic-Based	31.0	29.9	
	Hospital-Based	8.6	9.8	
	Government-Based	3.7	4.1	
	Other	3.9*	6.9	
Primary	Behavioral Neurology and	2.6	2.6	$p = 0.003^5$
subspecialty <sup>2</sup>	Neuropsychiatry			1
	Child Neurology	9.3*	7.3	
	Clinical Neurophysiology	3.8	3.1	
	Epilepsy	9.4	10.1	
	General Neurology	33.5	32.1	
	Headache Medicine	3.0	2.5	
	Movement Disorders	7.1	5.8	
	Neurocritical Care	2.2	2.3	
	Neurohospitalist	2.3	1.6	
	Neuroimmunology and	2.3	2.2	
	Multiple Sclerosis			
	Neuromuscular Medicine	5.6	6.4	
	Sleep Medicine	4.8	4.5	
	Vascular Neurology and Stroke	5.4*	7.4	
	Other	8.5*	12.0	

Tables e-1 – e-7 and Figure e-1 and e-2 Legends

 Table e-1. Demographic characteristics of survey respondents and non-respondents

<sup>1</sup>Demographic data sourced from the AAN membership database rather than from the survey <sup>2</sup>No missing data

 $^{3}$ Respondent missing = 115 and non-respondents missing = 389

<sup>4</sup>Two additional respondents were classified as neurologists based on the demographics from the AAN membership database (1,673) rather than from the survey (1,671)

<sup>5</sup>Pearson Chi-Square

\*This paired comparison (z-test using Bonferroni correction) was significant at p < .05.

	Men	Women	P value
	(N=1,091)	(N=580)	comparison
			M to W <sup>a</sup>
Subspecialty % <sup>b</sup>			0.001
General Neurology	36.6	23.6°	
Other	8.5	12.1°	
Epilepsy	7.8	9.4	
Child Neurology	7.1	10.4 <sup>c</sup>	
Movement Disorders	6.3	9.4°	
Vascular Neurology and Stroke	7.2	5.6	
Neuromuscular Medicine	6.1	4.6	
Headache Medicine	3.4	4.8	
Neurohospitalist	2.9	4.4	
Sleep Medicine	3.1	4.0	
Behavioral Neurology and	3.1	2.9	
Neuropsychiatry	• •		
Clinical Neurophysiology	2.8	3.3	
Neuroimmunology and Multiple Sclerosis	2.9	3.1	
Neurocritical Care	2.2	2.3	
Missing, count	243	101	
Compensation method %			< 0.001
Straight salary	30.7	34.4	
Salary plus bonus	37.9	43.8°	
Production-based income	31.4	21.8°	
Missing, count	48	25	
Hours worked per week			< 0.001
Mean (SD)	56.4 (16.1)	54.2 (16.7)	
Median	55	52	
Missing, count	40	25	
% time devoted to clinical practice	10	23	0.145
Mean (SD)	76 4 (25 3)	75 5 (24 0)	0.145
Median	85	80	
Missing count	24	18	
% time devoted to research	54	10	0.655
Mean (SD)	7 2 (15 7)	76(171)	0.055
Median	0	0	
Missing, count	34	18	
% time devoted to teaching	51	10	0.171
Mean (SD)	57(89)	63(90)	
Median	2	5	
Missing. count	34	18	
% time devoted to administration	JT	10	0.878
Mean (SD)	8 8 (12 7)	88(124)	0.070
Modion	5.0 (12.7)	5.0 (12.4)	
	<u> </u>	3	
Iviissing, count	34	18	1

 Table e-2: Subspecialty, Method of Compensation, and Workload in Men and Women

 Neurologists

% time devoted to other			0.351
Mean (SD)	1.7 (8.8)	2.1 (10.7)	
Median	0	0	
Missing, count	34	18	
Nights on call/week			0.436
Mean (SD)	2.0 (2.3)	2.0 (2.3)	
Median	1	1	
Missing, count	44	39	
Outpatients in clinic per week			< 0.001
Mean (SD)	44.9 (32.4)	38.5 (28.4)	
Median	40	36	
Missing, count	45	24	
Inpatients on average hospital day			0.047
Mean (SD)	6.1 (8.3)	6.7 (8.1)	
Median	3	5	
Missing, count	45	27	
Weekends rounded in hospital			0.966
Mean (SD)	10.2 (11.1)	9.5 (9.6)	
Median	8	8	
Missing, count	42	24	
Hours volunteering per month			0.191
Mean (SD)	3.4 (6.7)	3.0 (5.5)	
Median	0	0	
Missing, count	48	25	

<sup>a</sup> Comparisons tested using Kruskal-Wallis for continuous variables and chi-square for categorical variables.

<sup>b</sup> Subspecialties with fewer than 30 cases (including Endovascular & Interventional Neurology) were added to the Other category.

<sup>c</sup> This paired comparison (z-test) was found to be significant at a p < 0.05 level.

	Men		Women			
	Ν	Mean	SD	N	Mean	SD
Hours per week by Age						
<40	156	59.9	15.8	168	52.7 <sup>a</sup>	13.0
40-49	219	57.8	16.2	189	55.2	17.6
50-59	289	58.6	14.1	124	54.6 <sup>a</sup>	17.4
60-69	269	55.2	16.3	64	53.6	21.3
70+	118	46.8	17.0	10	57.5	11.7
Total	1,051	56.4	16.1	555	54.2 <sup>b</sup>	16.7
Outpatients per week by Age						
<40	156	35.1	28.0	171	34.3	29.8
40-49	218	46.5	32.8	187	40.5 <sup>a</sup>	26.0
50-59	290	50.6	33.3	123	42.4 <sup>a</sup>	29.8
60-69	266	47.4	32.9	65	38.1ª	27.2
70+	116	35.1	29.0	10	29.7	28.0
Total	1,046	44.9	32.4	556	38.5 <sup>b</sup>	28.4
Inpatients per day by Age						
<40	156	7.9	7.3	169	8.2	9.6
40-49	217	7.6	9.6	186	6.5	6.8
50-59	292	6.3	9.5	123	6.4	7.8
60-69	264	4.7	6.7	65	4.8	7.4
70+	117	3.3	5.3	10	2.8	3.6
Total	1,046	6.1	8.3	553	6.7 <sup>b</sup>	8.1
Weekends per year by Age						
<40	154	12.5	10.6	170	9.6ª	7.4
40-49	217	11.7	10.5	187	10.2	10.3
50-59	292	10.2	10.9	124	8.2	8.6
60-69	270	9.5	12.0	65	9.4	12.4
70+	116	5.6	9.4	10	11.6	16.7
Total	1,049	10.2	11.1	556	9.5	9.6
Hours volunteering per month by Age						
<40	154	2.4	6.0	169	1.8	3.9
40-49	215	2.9	5.6	191	2.7	5.2
50-59	291	3.9	7.7	121	4.2	6.6
60-69	266	3.3	5.0	64	4.8 <sup>a</sup>	6.3
70+	117	4.5	9.2	10	3.0	6.1
Total	1,043	3.4	6.7	555	3.0	5.5

Table e-3: Workload in Men and Women within each Age Category

<sup>a</sup> Sex comparison (z-test) was found to be significant at a p < 0.05 level. <sup>b</sup> Sex comparison (Kruskal-Wallis) was found to be significant at a p < 0.05 level.

	Men	Women
Physician again by Age, % Yes		
<40	61.6	46.2ª
40-49	55.7	52.9
50-59	61.6	61.3
60-69	72.2	68.8
70+	77.1	70.0
Total	64.8	54.8 <sup>b</sup>
Total, Count	1,062	560
Neurologist again by Age, % Yes		
<40	66.7	62.2
40-49	55.4	64.2
50-59	67.5	65.3
60-69	74.0	78.8
70+	81.5	70.0
Total	68.0	65.7
Total, Count	1,066	565
Job satisfaction by Age, % Agree		
<40	71.3	64.5
40-49	65.9	59.4
50-59	65.2	63.7
60-69	66.9	69.2
70+	84.7	80.0
Total	68.9	63.4 <sup>b</sup>
Total, Count	1,057	563
Work-life balance by Age, % Satisfied	07.1	22.2
<40	37.1	33.3
40-49	30.3	16.8ª
50-59	32.0	27.4
60-69	53.8	25.4
/0+	57.6	50.0
Total Count	35./	23.8°
Autonomy by A ap 0/ A map	1,001	339
Autonomy by Age, % Agree	62.1	517
	60.5	58.2
50.50	61.1	57.3
60.60	56.5	54.5
70+	73.1	80.0
Total	61.5	56.9
Total Count	1 061	564
Meaningful work by Age % Agree	1,001	
< <u>~</u> (40)	84 1	89.0
<u> </u>	81.4	90.7
50-59	87.4	85.5
60-69	87.4	92.4
70+	95.8	100.0
Total	86.6	89.4
Total. Count	1.059	565
	-,/	

Table e-4: Career Satisfaction in Men and Women within each Age Category

Amount of DIRECT clerical tasks by		
Age, % Agree is reasonable		
<40	34.4	28.8
40-49	26.1	16.8ª
50-59	17.1	18.7
60-69	19.0	18.5
70+	32.8	30.0
Total	23.8	21.3
Total, Count	1,049	558
Amount of INDIRECT clerical tasks by		
Age, % Agree is reasonable		
<40	27.4	18.2 <sup>a</sup>
40-49	17.0	13.6
50-59	12.0	10.6
60-69	13.0	12.1
70+	21.4	30.0
Total	16.7	14.5
Total, Count	1,045	560
Amount of effective support staff by Age,		
% Too little		
<40	50.6	62.9 <sup>a</sup>
40-49	56.3	69.6 <sup>a</sup>
50-59	48.3	67.8 <sup>a</sup>
60-69	52.3	60.6
70+	46.2	70.0
Total	51.1	66.1 <sup>b</sup>
Total, Count	1,040	558

<sup>a</sup> Sex comparison (z-test) was found to be significant at a p < 0.05 level. <sup>b</sup> Sex comparison (chi-square) was found to be significant at a p < 0.05 level.

Table e-5: Percent of Men and women General Neurologists within each Age Catego							
	Count	% Men	% Women	P value			
				comparison			
				M to W <sup>a</sup>			
<40	57	49.1	50.9	0.895			
40-49	99	62.6	37.4	0.012			
50-59	112	72.3	27.7	< 0.001			
60-69	122	86.9	13.1	< 0.001			
70+	33	100.0	0.0	NA			
Total	423 <sup>b</sup>	73.3	26.7	< 0.001			

Table 6-5. Percent of Men and Women General Neurologists within each Age Category

<sup>a</sup> Comparisons tested using a chi-square for each row.
<sup>b</sup> Of the 1,327 who provided an answer for subspecialty (1,671 respondents - 344 missing subspecialty data), 423 chose general neurology as their primary focus.

	Males		Females	
Variable	p-value	Odds Ratio	p-value	<b>Odds Ratio</b>
Age	0.0083	1.16 (1.04,1.30)	0.3361	1.10
				(0.91,1.33)
Age Squared	0.0019	0.99 (0.99,0.99)	0.1954	0.99
				(0.99, 1.00)
Q9a (Autonomy in	< 0.0001	0.37 (0.27,0.52)	< 0.0001	0.21
Job)				(0.13,0.34)
Q9b (Meaningful	0.0001	0.30 (0.16,0.55)	0.0050	0.21
Work)				(0.07,0.63)
Q10a (Reasonable	< 0.0001	0.46 (0.32,0.66)	0.0202	0.54
About of Direct				(0.32,0.91)
Clerical Tasks				
Q11 (Effect Support	0.0011	0.60 (0.44,0.81)	0.3034	0.79
Staff)				(0.50,1.24)
Q12 (Hours Worked	0.0092	1.02 (1.00,1.03)	0.0302	1.02
Per Week)				(1.00, 1.03)
Q13_1 (Percent of	0.0212	1.01 (1.00,1.02)	0.0998	1.01
Time in Clinical				(0.99,1.02)
Practice)				
Q14 (Nights on Call	0.0259	1.09 (1.01,1.17)	0.3810	1.05
Per Week)				(0.95,1.16)
Q15 (Number of	0.0212	1.01 (1.00,1.01)	0.1208	1.01
Outpatients)				(0.99,1.02)
Q17 (Weekends With	0.2228	0.99 (0.98,1.01)	0.0542	1.03
Hospital Rounds)				(1.00, 1.05)

Table e-6: Final Multivariate Model Fit Separately to Males and Females

	Women	Men	Difference
Number of Commenters	250	426	
Workload & Clerical Work	62.4%	45.8%	16.6%
Work-Life Balance & Wellness	29.6%	14.8%	14.8%
Professionalism	44.8%	30.8%	14.0%
Leadership Issues	30.4%	16.9%	13.5%
Systemic	20.0%	17.1%	2.9%
Advocacy	17.6%	15.3%	2.3%
Individual	28.8%	26.8%	2.0%
Remuneration	25.2%	23.2%	2.0%
Recertification	9.6%	8.2%	1.4%
Insurance Mandates	20.4%	20.0%	0.4%
Unique to Neurology	7.6%	7.7%	-0.1%
Engagement	17.6%	17.8%	-0.2%
EMR	22.0%	22.3%	-0.3%
Government Mandates	17.2%	20.4%	-3.2%

Table e-7: Proportion of Commenters by Theme for Women and Men

## Figure e-1. Age distribution of male and female neurologists

Figure e-1 legend: Figure e-1 is a plot of age by sex showing that men have more physicians age>50 while women have more physicians age<50.

The graphic is a separate file named Figure\_e-1.jpg

## Figure e-2. Depersonalization, emotional exhaustion, and personal accomplishment by weekend responsibilities and sex

Figure e-2 legend: Figure e-2 plots burnout measures by number of weekends per year with hospital rounding responsibilities. Lowess curves, with 95% confidence intervals for the mean, were fit separately for males (blue) and females (red) to show trajectories. The black reference lines show the burnout cutoffs for each scale (>10 for depersonalization, >27 for emotional exhaustion, and <33 for personal accomplishment). Females tend to have higher emotional exhaustion levels than males when they have hospital rounding responsibilities on more than half of the weekends.

The graphic is a separate file named Figure\_e-2.jpg