

## Appendix

TABLE E-1 Diagnoses\*

	No. of Patients
Carpal tunnel syndrome	11 (10%)
Dupuytren contracture	5 (4%)
Trigger finger	5 (4%)
Distal radial fracture	4 (4%)
Phalanx fracture	4 (4%)
Ankle fracture	3 (3%)
Thumb arthritis	3 (3%)
De Quervain tenosynovitis	2 (2%)
Elbow fracture	2 (2%)
Hamate fracture	2 (2%)
Hand pain	2 (2%)
Lateral epicondylitis	2 (2%)
Metacarpal fracture	2 (2%)
Nonunion of phalanx fracture	2 (2%)
Shoulder pain	2 (2%)
Triangular fibrocartilage complex pain	2 (2%)
Tibial plateau fracture	2 (2%)
Wrist mass/lump	2 (2%)
Hand numbness	2 (2%)
4th and 5th carpometacarpal fracture	1 (1%)
4th compartment tendinitis	1 (1%)
Anterior cruciate ligament tear	1 (1%)
Avulsion fracture of thumb	1 (1%)
Ankle sprain	1 (1%)
Anterior tibial tendinitis	1 (1%)
Abductor pollicis longus and extensor pollicis longus tendon laceration	1 (1%)
Bilateral distal radial fracture	1 (1%)
Bilateral forearm fracture	1 (1%)
Bilateral hand contusion	1 (1%)
Bilateral hand numbness	1 (1%)
Bilateral knee arthritis	1 (1%)
Bilateral toe arthritis	1 (1%)
Bursitis	1 (1%)
Carpal tunnel syndrome, cubital tunnel syndrome	1 (1%)
Carpal tunnel syndrome, cubital tunnel syndrome, thumb arthritis	1 (1%)
Cellulitis	1 (1%)
Carpometacarpal arthritis	1 (1%)
Digital nerve injury	1 (1%)
Distal radial fracture, wrist arthritis	1 (1%)
Elbow bursitis	1 (1%)
Fasciitis plantaris	1 (1%)
Fibroma	1 (1%)
Finger mass	1 (1%)
Gouty tophi	1 (1%)
Hallux valgus	1 (1%)
Hallux longus tendinitis	1 (1%)
Hand bruise	1 (1%)
Hip and ankle fracture	1 (1%)
Knee arthritis	1 (1%)
Leg length discrepancy	1 (1%)
Medial elbow arthritis	1 (1%)
Medial meniscus tear	1 (1%)

Mucous cyst	1 (1%)
Olecranon fracture	1 (1%)
Patellar tendon repair	1 (1%)
Pes planus	1 (1%)
Plantar fasciitis partial tear	1 (1%)
Polyarthrititis	1 (1%)
Posterior tibial tendinitis	1 (1%)
Proximal ulnar fracture	1 (1%)
Rotator cuff tear	1 (1%)
Shoulder pain, arm numbness	1 (1%)
Shoulder pain, knee arthritis	1 (1%)
Suspected neuropathy of wrist and neck	1 (1%)
Triangular fibrocartilage complex injury	1 (1%)
Thumb metacarpophalangeal dislocation	1 (1%)
Trigger finger, lateral epicondylitis	1 (1%)
Triquetral avulsion fracture	1 (1%)
Ulnar and radial shaft fracture	1 (1%)
Unstable distal interphalangeal joint	1 (1%)
Vascular malformation of 2nd digit of foot	1 (1%)
Wrist fracture	1 (1%)
Wrist fracture nonunion	1 (1%)
Wrist pain	1 (1%)

\*Data are presented as the number of patients, with the percentage of the total patients in parentheses.

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TABLE E-2 Bivariate Mixed Linear Regression Analysis of Factors Associated with Perceived Empathy and Visit Time\*

Variables	JSPPE		Time Spent with Surgeon	
	Regression Coefficient (95% CI)	P Value	Regression Coefficient (95% CI)	P Value
Age	0.02 (-0.03 to 0.06)	0.51	0.05 (-0.00 to 0.09)	0.052
Sex				
Women	Reference value		Reference value	
Men	-2.2 (-3.7 to -0.69)	0.004†	0.26 (-1.4 to 1.9)	0.75
Race/ethnicity				
White	Reference value		Reference value	
Black/African American	3.0 (0.18 to 5.7)	0.04†	-1.8 (-4.7 to 1.1)	0.23
Latino/Hispanic	1.1 (-1.5 to 3.6)	0.42	-2.4 (-5.1 to 0.29)	0.08
Asian/other	-0.04 (-2.6 to 2.5)	0.98	0.12 (-2.6 to 2.9)	0.93
Marital status				
Married/unmarried couple	Reference value		Reference value	
Divorced/separated/widowed	0.49 (-1.7 to 2.7)	0.67	-0.04 (-2.5 to 2.4)	0.97
Single	-1.6 (-3.4 to 0.13)	0.07	-0.42 (-2.3 to 1.5)	0.67
Level of education				
High school or less	Reference value		Reference value	
2-year college	-0.74 (-3.2 to 1.7)	0.56	2.0 (-0.58 to 4.6)	0.13
4-year college	-1.1 (-3.1 to 0.94)	0.30	3.0 (0.92 to 5.1)	0.01†
Post-college graduate degree	-2.6 (-4.8 to -0.47)	0.02†	2.7 (0.44 to 5.1)	0.02†
Work status				
Employed	Reference value		Reference value	
Unemployed/retired	0.40 (-1.4 to 2.2)	0.67	0.03 (-1.9 to 1.9)	0.97
Other (student, homemaker, etc.)	-0.42 (-3.0 to 2.2)	0.75	2.1 (-0.62 to 4.8)	0.13
Insurance				
Medicare/Medicaid	Reference value		Reference value	
Private	0.39 (-1.4 to 2.2)	0.67	-1.2 (-3.1 to 0.61)	0.19
Other/uninsured	1.2 (-2.0 to 4.4)	0.46	-3.0 (-6.3 to 0.41)	0.09
Additional comorbidities				
Cardiovascular disease				
No	Reference value		Reference value	
Yes	1.2 (-0.63 to 3.1)	0.20	-0.92 (-2.9 to 1.0)	0.35
Musculoskeletal disease				
No	Reference value		Reference value	
Yes	0.23 (-1.7 to 2.1)	0.81	2.5 (0.55 to 4.4)	0.01†
Mental disease				
No	Reference value		Reference value	
Yes	1.3 (-1.1 to 3.8)	0.28	0.39 (-2.2 to 3.0)	0.77
Other				
No	Reference value		Reference value	
Yes	0.04 (-2.4 to 2.5)	0.98	-0.57 (-3.2 to 2.0)	0.67
None				
No	Reference value		Reference value	
Yes	-0.65 (-2.2 to 0.89)	0.41	-0.68 (-2.3 to 0.94)	0.41
Appointment type				
First visit/second opinion	Reference value		Reference value	
Follow-up	0.80 (-0.75 to 2.3)	0.31	-2.7 (-4.2 to -1.1)	0.001†
Traumatic diagnosis				
No	Reference value		Reference value	
Yes	-0.81 (-2.4 to 0.73)	0.30	-3.4 (-5.0 to -1.9)	<0.001†
On time for appointment				
No	Reference value		Reference value	
Yes	-0.73 (-2.6 to 1.1)	0.44	-0.53 (-2.5 to 1.4)	0.60
Office times				

Time from appointment	0.00 (-0.05 to 0.05)	0.90	0.01 (-0.04 to 0.07)	0.59
Wait time	0.01 (-0.030 to 0.06)	0.58	0.02 (-0.03 to 0.07)	0.35
Time spent with surgeon	0.06 (-0.09 to 0.21)	0.44	-	-
Surgeon characteristics				
Age	0.13 (-0.05 to 0.32)	0.15	-0.11 (-0.35 to 0.13)	0.36
Years in practice	0.12 (-0.06 to 0.31)	0.19	-0.12 (-0.36 to 0.12)	0.34
PSS-4	-0.82 (-1.7 to 0.11)	0.09	-2.7 (-3.7 to -1.7)	<0.001†

\*Omitted 5 outliers from analyses. CI = confidence interval, JSPPPE = Jefferson Scale of Patient's Perceptions of Physician Empathy, and PSS-4 = Perceived Stress Scale short form. †Indicates significance.

TABLE E-3 Multilevel Multivariable Linear Regression Analysis of Factors Associated with Perceived Empathy and Visit Time Including Outliers\*

Dependent Variables	Retained Variables	Regression Coefficient (95% CI)	Standard Error	P Value
JSPPE	Male	-1.3 (-3.5 to 0.86)	1.1	0.23
	Race/ethnicity			
	Black/African American	4.6 (2.0 to 7.1)	1.3	<0.001†
	Marital status			
	Single	-3.2 (-6.3 to -0.09)	1.6	0.04†
	Level of education			
	Post-college graduate degree	0.08 (-1.5 to 1.7)	0.81	0.92
	Wait time	0.05 (0.01 to 0.08)	0.02	0.008†
	Time spent with surgeon	-0.30 (-0.57 to -0.04)	0.14	0.03†
	PSS-4	-2.0 (-4.0 to 0.04)	1.0	0.06
Time spent with surgeon	Age	0.02 (-0.04 to 0.08)	0.03	0.59
	Race/ethnicity			
	Latino/Hispanic	-1.5 (-3.6 to 0.47)	1.0	0.13
	Level of education			
	4-year college	1.5 (-0.40 to 3.3)	0.96	0.12
	Post-college graduate degree	0.79 (-0.90 to 2.5)	0.86	0.36
	Insurance			
	Other/uninsured	-0.36 (-1.8 to 1.1)	0.73	0.63
	Additional comorbidities			
	Musculoskeletal disease	1.4 (0.16 to 2.7)	0.63	0.03†
	Appointment type			
	Follow-up	-1.9 (-2.6 to -1.3)	0.34	<0.001†
	Traumatic diagnosis	-2.2 (-3.0 to -1.5)	0.38	<0.001†
	PSS-4	-1.3 (-2.3 to -0.33)	0.50	0.01†

\*All data including 5 outliers. †Indicates significance.

TABLE E-4 Multilevel Generalized Linear Model Regression Analysis of Factors Associated with Perceived Empathy and Visit Time\*

Dependent Variables	Retained Variables	Regression Coefficient (95% CI)	Robust Standard Error	P Value
JSPPPE	Male	-0.05 (-0.09 to -0.00)	0.02	0.03†
	Race/ethnicity			
	Black/African American	0.09 (0.08 to 0.11)	0.01	<0.001†
	Marital status			
	Single	-0.05 (-0.17 to 0.07)	0.06	0.43
	Level of education			
	Post-college graduate degree	-0.04 (-0.07 to -0.00)	0.02	0.03†
	Wait time	-0.00 (-0.00 to 0.00)	0.00	0.84
	Time spent with surgeon	-0.00 (-0.01 to 0.00)	0.00	0.81
	PSS-4	-0.03 (-0.05 to -0.01)	0.01	0.01†
Time spent with surgeon	Age	0.00 (-0.01 to 0.01)	0.00	0.83
	Race/ethnicity			
	Latino/Hispanic	-0.29 (-0.33 to -0.24)	0.02	<0.001†
	Level of education			
	4-year college	0.20 (0.09 to 0.31)	0.06	<0.001†
	Post-college graduate degree	0.20 (0.02 to 0.39)	0.09	0.03†
	Insurance			
	Other/uninsured	0.01 (-0.27 to 0.29)	0.14	0.96
	Additional comorbidities			
	Musculoskeletal disease	0.11 (-0.06 to 0.29)	0.09	0.19
	Appointment type			
	Follow-up	-0.26 (-0.45 to -0.06)	0.10	0.01†
	Traumatic diagnosis	-0.24 (-0.39 to -0.10)	0.08	0.001†
	PSS-4	-0.21 (-0.24 to -0.19)	0.01	<0.001†

\*Omitted 5 outliers from analyses. †Indicates significance.