

Table 1. Results of ordinal logistic regression analysis on disrespectful attitudes (both genders combined)

Male athletes		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	1.27	[0.97,1.66]	0.077
Age		0.99	[0.98,0.99]	0.044
Region				
	Europe	Base		
	Africa	1.81	[0.88,3.70]	0.106
	Asia	0.60	[0.41,0.86]	0.005
	North America	1.51	[1.07,2.13]	0.020
	Oceania	1.26	[0.33,4.83]	0.741
	South America	1.18	[0.59,2.37]	0.636
	Multiple	0.38	[0.04,4.06]	0.422
Residency training				
	Family Medicine	Base		
	Orthopedics	0.73	[0.49,1.09]	0.123
	Internal Medicine	0.57	[0.32,1.02]	0.059
	PM&R	0.78	[0.51,1.19]	0.244
	Pediatrics	0.89	[0.48,1.67]	0.723
	Emergency Medicine	0.49	[0.25,0.97]	0.039
	Sports Medicine	1.21	[0.68,2.15]	0.524
	Other	0.87	[0.45,1.69]	0.680
Female athletes		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	0.81	[0.61,1.06]	0.127
Age		0.99	[0.98,1.00]	0.173
Region				
	Europe	Base		
	Africa	2.25	[1.09,4.65]	0.029
	Asia	0.60	[0.40,0.88]	0.009
	North America	1.40	[0.98,1.99]	0.061
	Oceania	1.09	[0.26,4.63]	0.907
	South America	0.89	[0.42,1.88]	0.767
	Multiple	0.53	[0.05,5.72]	0.601
Residency training				
	Family Medicine	Base		
	Orthopedics	0.60	[0.39,0.90]	0.014
	Internal Medicine	0.99	[0.56,1.74]	0.977
	PM&R	0.81	[0.53,1.25]	0.345
	Pediatrics	1.07	[0.57,1.99]	0.842
	Emergency Medicine	0.63	[0.32,1.23]	0.178
	Sports Medicine	1.03	[0.57,1.86]	0.934
	Other	0.64	[0.31,1.34]	0.237
Male coaches		Odds Ratio	95% CI	p value
Gender				
	Male	Base		

	Female	1.96	[1.49,2.57]	< 0.001
Age		0.99	[0.98,1.01]	0.349
Region				
	Europe	Base		
	Africa	2.97	[1.45,6.10]	0.003
	Asia	0.60	[0.42,0.86]	0.006
	North America	1.25	[0.88,1.77]	0.219
	Oceania	1.97	[0.51,7.57]	0.324
	South America	0.94	[0.47,1.89]	0.860
	Multiple	0.32	[0.03,3.42]	0.344
Residency training				
	Family Medicine	Base		
	Orthopedics	0.61	[0.41,0.91]	0.016
	Internal Medicine	0.63	[0.36,1.09]	0.100
	PM&R	0.54	[0.35,0.83]	0.005
	Pediatrics	0.76	[0.42,1.38]	0.370
	Emergency Medicine	0.26	[0.13,0.52]	< 0.001
	Sports Medicine	1.23	[0.68,2.22]	0.495
	Other	0.57	[0.28,1.16]	0.121
	Female coaches	Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	1.01	[0.76,1.35]	0.927
Age		1.00	[0.99,1.02]	0.471
Region				
	Europe	Base		
	Africa	4.53	[2.26,9.08]	< 0.001
	Asia	1.01	[0.67,1.52]	0.959
	North America	1.50	[1.03,2.18]	0.036
	Oceania	1.26	[0.30,5.29]	0.756
	South America	1.37	[0.64,2.93]	0.413
	Multiple	0.77	[0.07,8.26]	0.826
Residency training				
	Family Medicine	Base		
	Orthopedics	0.47	[0.31,0.73]	0.001
	Internal Medicine	0.75	[0.42,1.34]	0.326
	PM&R	0.75	[0.48,1.17]	0.208
	Pediatrics	0.70	[0.37,1.34]	0.283
	Emergency Medicine	0.39	[0.17,0.86]	0.019
	Sports Medicine	1.21	[0.65,2.24]	0.547
	Other	0.65	[0.32,1.34]	0.243
	Male physicians in practice longer	Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	2.42	[1.85,3.17]	< 0.001
Age		0.96	[0.95,0.97]	< 0.001
Region				
	Europe	Base		
	Africa	4.00	[2.03,7.90]	< 0.001
	Asia	0.92	[0.63,1.32]	0.637

	North America	1.98	[1.34,2.93]	0.001
	Oceania	0.06	[0.01,0.56]	0.014
	South America	1.80	[0.91,3.56]	0.093
	Multiple	0.43	[0.04,4.72]	0.488
Residency training				
	Family Medicine	Base		
	Orthopedics	1.62	[1.07,2.46]	0.024
	Internal Medicine	0.92	[0.51,1.66]	0.785
	PM&R	0.95	[0.61,1.46]	0.807
	Pediatrics	1.50	[0.81,2.78]	0.199
	Emergency Medicine	1.42	[0.75,2.70]	0.284
	Sports Medicine	1.89	[1.03,3.48]	0.041
	Other	1.95	[1.01,3.78]	0.046
Male physicians in practice the same or less		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	2.36	[1.80,3.11]	< 0.001
Age		1.00	[0.99,1.01]	0.504
Region				
	Europe	Base		
	Africa	2.15	[1.03,4.48]	0.042
	Asia	0.87	[0.60,1.26]	0.459
	North America	1.31	[0.91,1.89]	0.148
	Oceania	1.14	[0.27,4.73]	0.860
	South America	0.92	[0.44,1.93]	0.830
	Multiple	0.76	[0.07,8.03]	0.819
Residency training				
	Family Medicine	Base		
	Orthopedics	1.10	[0.73,1.67]	0.636
	Internal Medicine	0.62	[0.34,1.13]	0.116
	PM&R	0.69	[0.45,1.07]	0.100
	Pediatrics	1.19	[0.64,2.22]	0.581
	Emergency Medicine	1.51	[0.77,2.96]	0.230
	Sports Medicine	0.92	[0.50,1.70]	0.798
	Other	1.16	[0.60,2.26]	0.660
Female physicians in practice longer		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	1.00	[0.75,1.32]	0.996
Age		0.96	[0.95,0.97]	< 0.001
Region				
	Europe	Base		
	Africa	3.48	[1.69,7.17]	0.001
	Asia	0.70	[0.47,1.04]	0.076
	North America	1.20	[0.82,1.74]	0.348
	Oceania	0.46	[0.08,2.55]	0.371
	South America	0.52	[0.22,1.21]	0.128
	Multiple	0.72	[0.07,7.87]	0.789
Residency training				
	Family Medicine	Base		

Orthopedics	1.07	[0.69,1.66]	0.748
Internal Medicine	0.93	[0.51,1.69]	0.804
PM&R	1.02	[0.66,1.59]	0.921
Pediatrics	1.30	[0.68,2.51]	0.430
Emergency Medicine	0.93	[0.46,1.89]	0.839
Sports Medicine	1.14	[0.60,2.14]	0.689
Other	1.21	[0.58,2.53]	0.608
Female physicians in practice the same or less	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	0.76	[0.56,1.04]	0.083
Age	0.98	[0.97,1.00]	0.018
Region			
Europe	Base		
Africa	3.12	[1.46,6.64]	0.003
Asia	0.83	[0.55,1.26]	0.375
North America	1.22	[0.81,1.84]	0.337
Oceania	n.c.		
South America	1.10	[0.50,2.42]	0.821
Multiple	1.17	[0.11,12.21]	0.898
Residency training			
Family Medicine	Base		
Orthopedics	1.19	[0.75,1.89]	0.466
Internal Medicine	0.84	[0.42,1.66]	0.616
PM&R	1.27	[0.79,2.04]	0.326
Pediatrics	1.69	[0.86,3.35]	0.130
Emergency Medicine	1.90	[0.94,3.83]	0.073
Sports Medicine	1.11	[0.56,2.18]	0.771
Other	1.44	[0.67,3.10]	0.355
Male athletic trainers	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	1.70	[1.29,2.24]	< 0.001
Age	1.00	[0.98,1.01]	0.424
Region			
Europe	Base		
Africa	3.89	[1.94,7.83]	< 0.001
Asia	0.70	[0.48,1.02]	0.065
North America	1.12	[0.77,1.62]	0.551
Oceania	0.89	[0.22,3.63]	0.871
South America	1.14	[0.55,2.36]	0.729
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.81	[0.53,1.23]	0.315
Internal Medicine	0.64	[0.35,1.16]	0.144
PM&R	0.90	[0.58,1.40]	0.649
Pediatrics	0.72	[0.38,1.37]	0.314
Emergency Medicine	0.43	[0.21,0.90]	0.026
Sports Medicine	1.22	[0.67,2.23]	0.521

	Other	1.08	[0.53,2.19]	0.836
Female athletic trainers		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	1.16	[0.86,1.57]	0.328
Age				
		1.00	[0.99,1.01]	0.757
Region				
	Europe	Base		
	Africa	4.18	[1.99,8.79]	< 0.001
	Asia	0.77	[0.50,1.18]	0.230
	North America	1.34	[0.90,2.02]	0.152
	Oceania	0.34	[0.04,3.00]	0.330
	South America	2.04	[0.99,4.2]	0.055
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.79	[0.50,1.25]	0.305
	Internal Medicine	0.42	[0.20,0.85]	0.017
	PM&R	1.01	[0.63,1.61]	0.970
	Pediatrics	0.98	[0.50,1.93]	0.953
	Emergency Medicine	0.59	[0.27,1.30]	0.189
	Sports Medicine	1.10	[0.56,2.13]	0.789
	Other	0.96	[0.44,2.11]	0.921
Organizations/Administrations		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	1.48	[1.12,1.94]	0.005
Age				
		1.00	[0.98,1.01]	0.472
Region				
	Europe	Base		
	Africa	2.42	[1.18,4.97]	0.016
	Asia	0.79	[0.55,1.15]	0.220
	North America	1.03	[0.72,1.48]	0.865
	Oceania	1.04	[0.28,3.81]	0.954
	South America	2.21	[1.13,4.34]	0.021
	Multiple	0.83	[0.08,9.19]	0.880
Residency training				
	Family Medicine	Base		
	Orthopedics	0.75	[0.50,1.12]	0.160
	Internal Medicine	0.73	[0.42,1.29]	0.283
	PM&R	0.59	[0.38,0.92]	0.021
	Pediatrics	0.74	[0.40,1.36]	0.329
	Emergency Medicine	0.48	[0.23,0.99]	0.046
	Sports Medicine	1.70	[0.95,3.05]	0.073
	Other	1.06	[0.54,2.07]	0.866

PM&R; physical medicine and rehabilitation, 95 % CI; 95 % confidence interval, n.c; not calculated

Table 2 Results of ordinal logistic regression analysis on having felt disrespected or their judgment questioned (both genders separately)

Female sports medicine physicians			
Male athletes	Odds Ratio	95% CI	p value
Age	1.01	[0.99,1.04]	0.301
Region			
Europe	Base		
Africa	3.24	[1.14,9.19]	0.027
Asia	0.61	[0.28,1.35]	0.224
North America	2.36	[1.25,4.47]	0.008
Oceania	3.26	[0.42,25.44]	0.260
South America	0.23	[0.02,2.14]	0.196
Residency training			
Family Medicine	Base		
Orthopedics	0.80	[0.37,1.72]	0.571
Internal Medicine	0.64	[0.23,1.81]	0.400
PM&R	0.89	[0.47,1.66]	0.710
Pediatrics	0.73	[0.33,1.60]	0.426
Emergency Medicine	0.96	[0.38,2.46]	0.938
Sports Medicine	0.80	[0.28,2.31]	0.683
Other	2.40	[0.61,9.34]	0.208
Female athletes	Odds Ratio	95% CI	p value
Age	1.02	[0.99,1.04]	0.137
Region			
Europe	Base		
Africa	2.85	[0.95,8.54]	0.061
Asia	0.88	[0.38,2.02]	0.764
North America	1.64	[0.86,3.12]	0.135
Oceania	7.18	[0.85,60.46]	0.070
South America	0.36	[0.04,3.38]	0.368
Residency training			
Family Medicine	Base		
Orthopedics	0.84	[0.38,1.87]	0.665
Internal Medicine	1.15	[0.41,3.26]	0.791
PM&R	0.89	[0.47,1.70]	0.732
Pediatrics	1.21	[0.55,2.68]	0.633
Emergency Medicine	1.63	[0.64,4.17]	0.307
Sports Medicine	0.77	[0.26,2.25]	0.628
Other	1.06	[0.22,5.22]	0.939
Male coaches	Odds Ratio	95% CI	p value
Age	1.01	[0.99,1.03]	0.464
Region			
Europe	Base		
Africa	4.37	[1.53,12.51]	0.006
Asia	0.76	[0.35,1.64]	0.487
North America	1.25	[0.66,2.37]	0.486
Oceania	14.58	[2.09,101.54]	0.007
South America	0.17	[0.02,1.67]	0.128
Residency training			
Family Medicine	Base		

Orthopedics	0.46	[0.22,0.99]	0.046
Internal Medicine	0.38	[0.15,0.99]	0.048
PM&R	0.42	[0.21,0.80]	0.009
Pediatrics	0.55	[0.26,1.15]	0.112
Emergency Medicine	0.30	[0.11,0.81]	0.018
Sports Medicine	0.38	[0.13,1.09]	0.073
Other	0.31	[0.07,1.45]	0.138
Female coaches	Odds Ratio	95% CI	p value
Age	1.02	[0.99,1.04]	0.226
Region			
Europe	Base		
Africa	4.60	[1.59,13.28]	0.005
Asia	1.75	[0.77,3.98]	0.182
North America	1.45	[0.73,2.88]	0.286
Oceania	8.05	[0.99,65.53]	0.051
South America	0.54	[0.06,5.11]	0.589
Residency training			
Family Medicine	Base		
Orthopedics	0.46	[0.20,1.04]	0.061
Internal Medicine	0.57	[0.20,1.67]	0.305
PM&R	0.80	[0.41,1.54]	0.501
Pediatrics	0.68	[0.30,1.53]	0.347
Emergency Medicine	0.57	[0.18,1.75]	0.324
Sports Medicine	0.59	[0.18,1.89]	0.375
Other	1.37	[0.30,6.19]	0.684
Male physicians in practice longer	Odds Ratio	95% CI	p value
Age	0.98	[0.96,1.00]	0.126
Region			
Europe	Base		
Africa	5.63	[2.01,15.75]	0.001
Asia	0.97	[0.47,2.03]	0.943
North America	3.66	[1.84,7.29]	< 0.001
Oceania	n.c.		
South America	1.05	[0.13,8.85]	0.962
Residency training			
Family Medicine	Base		
Orthopedics	2.71	[1.30,5.64]	0.008
Internal Medicine	0.59	[0.21,1.69]	0.324
PM&R	0.79	[0.43,1.47]	0.464
Pediatrics	0.92	[0.43,1.96]	0.829
Emergency Medicine	2.15	[0.90,5.15]	0.085
Sports Medicine	1.86	[0.64,5.40]	0.255
Other	4.42	[1.21,16.17]	0.025
Male physicians in practice the same or less	Odds Ratio	95% CI	p value
Age	1.01	[0.99,1.03]	0.275
Region			
Europe	Base		
Africa	1.12	[0.38,3.28]	0.843
Asia	0.80	[0.38,1.69]	0.554
North America	1.44	[0.77,2.71]	0.254
Oceania	3.10	[0.44,21.77]	0.255

	South America	0.72	[0.11,4.79]	0.734
Residency training				
	Family Medicine	Base		
	Orthopedics	0.85	[0.40,1.81]	0.675
	Internal Medicine	0.41	[0.15,1.12]	0.082
	PM&R	0.44	[0.23,0.83]	0.012
	Pediatrics	0.99	[0.47,2.10]	0.987
	Emergency Medicine	1.45	[0.56,3.78]	0.447
	Sports Medicine	0.53	[0.19,1.48]	0.224
	Other	1.84	[0.52,6.42]	0.342
	Female physicians in practice longer	Odds Ratio	95% CI	p value
Age		0.98	[0.95,1.00]	0.062
Region				
	Europe	Base		
	Africa	4.95	[1.65,14.91]	0.004
	Asia	1.35	[0.62,2.93]	0.453
	North America	1.59	[0.84,3.03]	0.156
	Oceania	n.c.		
	South America	0.44	[0.05,4.11]	0.469
Residency training				
	Family Medicine	Base		
	Orthopedics	1.51	[0.70,3.27]	0.296
	Internal Medicine	0.92	[0.34,2.51]	0.878
	PM&R	1.13	[0.60,2.14]	0.701
	Pediatrics	1.15	[0.51,2.59]	0.744
	Emergency Medicine	1.23	[0.45,3.36]	0.685
	Sports Medicine	0.88	[0.29,2.63]	0.817
	Other	3.10	[0.77,12.58]	0.113
	Female physicians in practice the same or less	Odds Ratio	95% CI	p value
Age		0.99	[0.97,1.02]	0.710
Region				
	Europe	Base		
	Africa	4.49	[1.37,14.76]	0.013
	Asia	1.43	[0.59,3.50]	0.429
	North America	1.83	[0.84,4.02]	0.130
	Oceania	n.c.		
	South America	0.97	[0.10,9.32]	0.977
Residency training				
	Family Medicine	Base		
	Orthopedics	1.85	[0.78,4.37]	0.163
	Internal Medicine	0.38	[0.08,1.80]	0.224
	PM&R	1.02	[0.49,2.12]	0.952
	Pediatrics	1.19	[0.48,2.92]	0.712
	Emergency Medicine	1.62	[0.57,4.64]	0.368
	Sports Medicine	0.96	[0.25,3.61]	0.948
	Other	3.41	[0.65,17.75]	0.146
	Male athletic trainers	Odds Ratio	95% CI	p value
Age		1.01	[0.98,1.03]	0.595
Region				
	Europe	Base		
	Africa	7.99	[2.84,22.44]	< 0.001

Asia	0.93	[0.42,2.08]	0.865
North America	2.04	[1.05,3.98]	0.036
Oceania	3.99	[0.57,28.04]	0.165
South America	0.40	[0.04,3.70]	0.417
Residency training			
Family Medicine	Base		
Orthopedics	0.88	[0.40,1.91]	0.745
Internal Medicine	0.56	[0.20,1.57]	0.271
PM&R	0.88	[0.46,1.66]	0.684
Pediatrics	0.59	[0.27,1.31]	0.195
Emergency Medicine	0.68	[0.26,1.77]	0.434
Sports Medicine	0.79	[0.27,2.33]	0.672
Other	1.83	[0.40,8.41]	0.435
Female athletic trainers	Odds Ratio	95% CI	p value
Age	1.03	[1.00,1.05]	0.049
Region			
Europe	Base		
Africa	7.26	[2.33,22.66]	0.001
Asia	1.27	[0.51,3.12]	0.610
North America	2.28	[1.05,4.96]	0.037
Oceania	n.c.		
South America	0.69	[0.07,6.64]	0.748
Residency training			
Family Medicine	Base		
Orthopedics	1.00	[0.42,2.40]	0.995
Internal Medicine	0.24	[0.05,1.16]	0.076
PM&R	1.31	[0.66,2.59]	0.442
Pediatrics	1.01	[0.43,2.36]	0.981
Emergency Medicine	1.42	[0.52,3.88]	0.499
Sports Medicine	0.99	[0.28,3.50]	0.984
Other	5.23	[1.17,23.3]	0.030
Organizations/Administrations	Odds Ratio	95% CI	p value
Age	1.02	[0.99,1.04]	0.137
Region			
Europe	Base		
Africa	2.40	[0.83,6.97]	0.108
Asia	0.71	[0.32,1.57]	0.397
North America	1.73	[0.90,3.30]	0.099
Oceania	2.55	[0.37,17.80]	0.345
South America	3.62	[0.55,23.95]	0.182
Residency training			
Family Medicine	Base		
Orthopedics	1.03	[0.48,2.21]	0.948
Internal Medicine	0.32	[0.11,0.98]	0.046
PM&R	0.45	[0.23,0.88]	0.020
Pediatrics	0.65	[0.32,1.34]	0.245
Emergency Medicine	0.43	[0.15,1.23]	0.117
Sports Medicine	0.97	[0.35,2.71]	0.957
Other	1.10	[0.25,4.78]	0.900
Male sports medicine physicians			
Male athletes	Odds Ratio	95% CI	p value

Age	0.98	[0.97,0.99]	0.006
Region			
Europe	Base		
Africa	1.08	[0.38,3.12]	0.884
Asia	0.58	[0.38,0.89]	0.012
North America	1.22	[0.80,1.87]	0.357
Oceania	0.75	[0.12,4.62]	0.758
South America	1.38	[0.64,2.95]	0.412
Multiple	0.29	[0.03,3.28]	0.318
Residency training			
Family Medicine	Base		
Orthopedics	0.69	[0.43,1.12]	0.131
Internal Medicine	0.59	[0.29,1.20]	0.144
PM&R	0.73	[0.41,1.29]	0.277
Pediatrics	1.38	[0.47,4.07]	0.563
Emergency Medicine	0.27	[0.10,0.73]	0.010
Sports Medicine	1.66	[0.81,3.38]	0.164
Other	0.68	[0.31,1.51]	0.343
Female athletes	Odds Ratio	95% CI	p value
Age	0.99	[0.97,1.00]	0.030
Region			
Europe	Base		
Africa	1.95	[0.70,5.41]	0.200
Asia	0.56	[0.36,0.87]	0.010
North America	1.37	[0.89,2.12]	0.151
Oceania	0.24	[0.02,2.52]	0.237
South America	0.98	[0.43,2.20]	0.957
Multiple	0.45	[0.04,5.00]	0.519
Residency training			
Family Medicine	Base		
Orthopedics	0.55	[0.33,0.90]	0.016
Internal Medicine	0.94	[0.48,1.86]	0.870
PM&R	0.74	[0.41,1.33]	0.312
Pediatrics	1.06	[0.36,3.11]	0.912
Emergency Medicine	0.23	[0.08,0.68]	0.008
Sports Medicine	1.18	[0.57,2.47]	0.652
Other	0.59	[0.25,1.36]	0.214
Male coaches	Odds Ratio	95% CI	p value
Age	0.99	[0.98,1.00]	0.160
Region			
Europe	Base		
Africa	1.76	[0.63,4.96]	0.283
Asia	0.52	[0.34,0.80]	0.003
North America	1.18	[0.77,1.82]	0.448
Oceania	0.49	[0.08,2.97]	0.440
South America	0.93	[0.44,1.99]	0.854
Multiple	0.24	[0.02,2.68]	0.246
Residency training			
Family Medicine	Base		
Orthopedics	0.75	[0.46,1.21]	0.235
Internal Medicine	0.87	[0.44,1.72]	0.699

	PM&R	0.62	[0.35,1.11]	0.108
	Pediatrics	1.42	[0.48,4.17]	0.524
	Emergency Medicine	0.20	[0.07,0.59]	0.003
	Sports Medicine	2.39	[1.15,4.95]	0.019
	Other	0.76	[0.34,1.69]	0.502
	Female coaches	Odds Ratio	95% CI	p value
Age		1.00	[0.99,1.02]	0.747
Region				
	Europe	Base		
	Africa	4.55	[1.71,12.12]	0.002
	Asia	0.87	[0.54,1.40]	0.573
	North America	1.59	[1.00,2.51]	0.049
	Oceania	0.26	[0.03,2.68]	0.257
	South America	1.41	[0.61,3.24]	0.421
	Multiple	0.63	[0.06,6.88]	0.702
Residency training				
	Family Medicine	Base		
	Orthopedics	0.51	[0.30,0.85]	0.011
	Internal Medicine	0.85	[0.42,1.71]	0.641
	PM&R	0.66	[0.35,1.21]	0.178
	Pediatrics	0.88	[0.29,2.67]	0.824
	Emergency Medicine	0.25	[0.08,0.81]	0.021
	Sports Medicine	1.78	[0.83,3.79]	0.136
	Other	0.57	[0.25,1.33]	0.195
	Male physicians in practice longer	Odds Ratio	95% CI	p value
Age		0.95	[0.94,0.97]	< 0.001
Region				
	Europe	Base		
	Africa	3.26	[1.25,8.49]	0.016
	Asia	0.94	[0.60,1.46]	0.772
	North America	1.44	[0.88,2.35]	0.145
	Oceania	0.18	[0.02,1.95]	0.160
	South America	1.83	[0.87,3.88]	0.113
	Multiple	0.35	[0.03,4.14]	0.407
Residency training				
	Family Medicine	Base		
	Orthopedics	1.36	[0.81,2.29]	0.248
	Internal Medicine	1.16	[0.57,2.35]	0.690
	PM&R	1.21	[0.66,2.24]	0.534
	Pediatrics	3.90	[1.35,11.26]	0.012
	Emergency Medicine	0.91	[0.35,2.39]	0.854
	Sports Medicine	2.10	[0.98,4.50]	0.056
	Other	1.59	[0.72,3.52]	0.251
	Male physicians in practice the same or less	Odds Ratio	95% CI	p value
Age		0.99	[0.98,1.01]	0.289
Region				
	Europe	Base		
	Africa	4.13	[1.48,11.51]	0.007
	Asia	0.85	[0.55,1.31]	0.459
	North America	1.18	[0.74,1.87]	0.483
	Oceania	0.45	[0.04,4.70]	0.507

	South America	0.86	[0.38,1.94]	0.723
	Multiple	0.70	[0.07,7.54]	0.770
Residency training				
	Family Medicine	Base		
	Orthopedics	1.32	[0.79,2.20]	0.285
	Internal Medicine	0.84	[0.40,1.79]	0.652
	PM&R	1.11	[0.61,2.01]	0.740
	Pediatrics	1.57	[0.51,4.80]	0.430
	Emergency Medicine	1.45	[0.55,3.80]	0.452
	Sports Medicine	1.28	[0.59,2.78]	0.531
	Other	1.11	[0.49,2.50]	0.810
Female physicians in practice longer		Odds Ratio	95% CI	p value
Age		0.95	[0.94,0.97]	< 0.001
Region				
	Europe	Base		
	Africa	2.81	[1.03,7.63]	0.043
	Asia	0.60	[0.37,0.95]	0.031
	North America	1.11	[0.69,1.79]	0.666
	Oceania	0.92	[0.13,6.38]	0.929
	South America	0.49	[0.19,1.23]	0.128
	Multiple	0.59	[0.05,6.62]	0.665
Residency training				
	Family Medicine	Base		
	Orthopedics	1.02	[0.60,1.75]	0.932
	Internal Medicine	0.99	[0.46,2.12]	0.976
	PM&R	0.88	[0.48,1.63]	0.687
	Pediatrics	1.94	[0.63,5.96]	0.247
	Emergency Medicine	0.68	[0.24,1.91]	0.462
	Sports Medicine	1.38	[0.62,3.05]	0.427
	Other	0.94	[0.38,2.36]	0.902
Female physicians in practice the same or less		Odds Ratio	95% CI	p value
Age		0.98	[0.97,1.00]	0.017
Region				
	Europe	Base		
	Africa	2.52	[0.90,7.06]	0.078
	Asia	0.76	[0.47,1.23]	0.259
	North America	1.11	[0.67,1.82]	0.693
	Oceania	n.c.		
	South America	1.03	[0.44,2.44]	0.944
	Multiple	1.04	[0.10,11.06]	0.974
Residency training				
	Family Medicine	Base		
	Orthopedics	1.15	[0.66,2.01]	0.616
	Internal Medicine	1.15	[0.52,2.55]	0.732
	PM&R	1.51	[0.80,2.83]	0.202
	Pediatrics	2.99	[1.02,8.80]	0.046
	Emergency Medicine	2.21	[0.85,5.75]	0.103
	Sports Medicine	1.34	[0.59,3.05]	0.482
	Other	1.28	[0.53,3.13]	0.582
Male athletic trainers		Odds Ratio	95% CI	p value
Age		0.99	[0.98,1.01]	0.219

Region			
Europe	Base		
Africa	1.91	[0.69,5.34]	0.216
Asia	0.60	[0.39,0.93]	0.024
North America	0.78	[0.49,1.24]	0.995
Oceania	0.2	[0.02,2.03]	0.173
South America	1.09	[0.49,2.44]	0.827
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.80	[0.47,1.34]	0.390
Internal Medicine	0.77	[0.37,1.62]	0.497
PM&R	0.99	[0.54,1.81]	0.971
Pediatrics	0.97	[0.31,3.03]	0.955
Emergency Medicine	0.24	[0.07,0.85]	0.028
Sports Medicine	2.01	[0.94,4.30]	0.071
Other	1.02	[0.45,2.32]	0.964
Female athletic trainers	Odds Ratio	95% CI	p value
Age	0.99	[0.98,1.01]	0.504
Region			
Europe	Base		
Africa	3.28	[1.13,9.53]	0.029
Asia	0.69	[0.42,1.13]	0.142
North America	1.12	[0.68,1.85]	0.649
Oceania	0.49	[0.05,5.11]	0.551
South America	2.16	[0.98,4.77]	0.056
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.72	[0.41,1.25]	0.239
Internal Medicine	0.49	[0.21,1.15]	0.100
PM&R	0.81	[0.42,1.54]	0.513
Pediatrics	1.07	[0.34,3.34]	0.912
Emergency Medicine	0.18	[0.04,0.83]	0.028
Sports Medicine	1.28	[0.57,2.89]	0.550
Other	0.58	[0.21,1.57]	0.280
Organizations/Administrations	Odds Ratio	95% CI	p value
Age	0.99	[0.98,1.00]	0.122
Region			
Europe	Base		
Africa	2.65	[0.92,7.58]	0.070
Asia	0.76	[0.50,1.17]	0.211
North America	0.74	[0.47,1.16]	0.186
Oceania	0.66	[0.11,3.89]	0.649
South America	1.86	[0.88,3.92]	0.105
Multiple	0.72	[0.07,7.70]	0.784
Residency training			
Family Medicine	Base		
Orthopedics	0.74	[0.45,1.21]	0.233
Internal Medicine	1.10	[0.56,2.17]	0.786
PM&R	0.81	[0.44,1.48]	0.489

Pediatrics	0.66	[0.19,2.28]	0.509
Emergency Medicine	0.51	[0.18,1.45]	0.207
Sports Medicine	2.49	[1.20,5.18]	0.014
Other	1.18	[0.55,2.55]	0.674

PM&R; physical medicine and rehabilitation, 95 % CI; 95 % confidence interval, n.c; not calculated

Table 3 Results of ordinal logistic regression on having sexually harassed (both genders combined)

Male athletes		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	11.58	[5.75,23.30]	< 0.001
Age				
		0.96	[0.94,0.99]	0.021
Region				
	Europe	Base		
	Africa	7.43	[2.4,22.98]	< 0.001
	Asia	2.8	[1.03,7.62]	0.044
	North America	1.39	[0.58,3.34]	0.457
	Oceania	67.5	[4.66,978.04]	0.002
	South America	7.92	[1.34,46.89]	0.023
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.43	[0.16,1.17]	0.097
	Internal Medicine	0.34	[0.07,1.56]	0.165
	PM&R	0.65	[0.29,1.45]	0.292
	Pediatrics	0.23	[0.05,1.06]	0.059
	Emergency Medicine	0.42	[0.09,1.88]	0.254
	Sports Medicine	0.13	[0.01,1.20]	0.072
	Other	1.51	[0.35,6.62]	0.582
Female athletes				
		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	0.37	[0.16,0.89]	0.026
Age				
		0.97	[0.93,1.00]	0.050
Region				
	Europe	Base		
	Africa	4.57	[1.42,14.78]	0.011
	Asia	0.77	[0.28,2.07]	0.598
	North America	0.42	[0.14,1.23]	0.112
	Oceania	69.31	[5.45,880.55]	0.001
	South America	4.71	[1.26,17.67]	0.022
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.90	[0.27,2.99]	0.870
	Internal Medicine	0.87	[0.16,4.71]	0.867
	PM&R	2.69	[0.96,7.53]	0.060
	Pediatrics	n.c.		
	Emergency Medicine	0.80	[0.09,7.34]	0.847
	Sports Medicine	0.26	[0.03,2.48]	0.244
	Other	1.84	[0.32,10.44]	0.491
Male coaches				
		Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	9.41	[4.35,20.36]	< 0.001

Age	0.97	[0.94,1.01]	0.101
Region			
Europe	Base		
Africa	7.87	[2.36,26.27]	0.001
Asia	2.80	[0.86,9.14]	0.088
North America	1.17	[0.44,3.14]	0.751
Oceania	30.67	[3.30,285.07]	0.003
South America	6.34	[1.05,38.13]	0.044
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.30	[0.09,1.00]	0.049
Internal Medicine	0.43	[0.09,2.06]	0.294
PM&R	0.52	[0.2,1.34]	0.176
Pediatrics	0.73	[0.23,2.32]	0.589
Emergency Medicine	n.c.		
Sports Medicine	0.35	[0.06,1.95]	0.232
Other	1.05	[0.19,5.89]	0.952
Female coaches	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	0.32	[0.09,1.18]	0.086
Age	0.95	[0.90,0.99]	0.030
Region			
Europe	Base		
Africa	4.33	[0.78,24.09]	0.094
Asia	1.37	[0.37,5.07]	0.635
North America	0.74	[0.16,3.51]	0.707
Oceania	n.c.		
South America	2.77	[0.27,28.56]	0.392
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	2.13	[0.37,12.34]	0.399
Internal Medicine	n.c.		
PM&R	3.79	[0.81,17.66]	0.089
Pediatrics	n.c.		
Emergency Medicine	2.38	[0.22,25.71]	0.476
Sports Medicine	n.c.		
Other	6.01	[0.71,50.84]	0.099
Male physicians in practice longer	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	28.25	[14.61,54.62]	< 0.001
Age	0.99	[0.96,1.01]	0.272
Region			
Europe	Base		
Africa	2.21	[0.71,6.81]	0.169
Asia	1.37	[0.63,2.97]	0.427
North America	1.83	[0.90,3.73]	0.095
Oceania	n.c.		

South America	3.46	[0.81,14.78]	0.093
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	2.00	[0.92,4.35]	0.082
Internal Medicine	0.42	[0.12,1.51]	0.184
PM&R	0.63	[0.30,1.29]	0.205
Pediatrics	0.13	[0.03,0.58]	0.007
Emergency Medicine	0.46	[0.13,1.66]	0.236
Sports Medicine	0.73	[0.22,2.40]	0.609
Other	2.96	[0.83,10.54]	0.094
Male physicians in practice the same or less	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	13.84	[6.54,29.32]	< 0.001
Age	0.99	[0.96,1.02]	0.442
Region			
Europe	Base		
Africa	0.50	[0.06,4.24]	0.528
Asia	1.33	[0.53,3.31]	0.542
North America	1.51	[0.63,3.59]	0.354
Oceania	n.c.		
South America	5.26	[1.22,22.63]	0.026
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	1.61	[0.62,4.16]	0.328
Internal Medicine	0.65	[0.14,3.04]	0.586
PM&R	0.92	[0.38,2.24]	0.852
Pediatrics	0.36	[0.08,1.59]	0.177
Emergency Medicine	0.74	[0.16,3.43]	0.704
Sports Medicine	0.83	[0.19,3.63]	0.802
Other	2.77	[0.62,12.41]	0.183
Female physicians in practice longer	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	1.03	[0.35,2.99]	0.960
Age	0.99	[0.95,1.03]	0.621
Region			
Europe	Base		
Africa	5.42	[0.84,35.11]	0.076
Asia	1.18	[0.32,4.36]	0.806
North America	1.07	[0.22,5.22]	0.930
Oceania	n.c.		
South America	4.33	[0.70,26.62]	0.114
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	1.90	[0.38,9.47]	0.432
Internal Medicine	n.c.		

	PM&R	1.34	[0.27,6.58]	0.716
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	0.84	[0.07,9.81]	0.890
	Other	3.98	[0.53,29.9]	0.179
	Female physicians in practice the same or less	Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	0.61	[0.20,1.83]	0.375
Age		0.98	[0.94,1.02]	0.316
Region				
	Europe	Base		
	Africa	6.84	[1.28,36.62]	0.025
	Asia	1.71	[0.50,5.85]	0.390
	North America	0.64	[0.13,3.09]	0.577
	Oceania	n.c.		
	South America	4.33	[0.70,26.66]	0.114
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	1.73	[0.37,8.16]	0.489
	Internal Medicine	0.82	[0.08,8.45]	0.865
	PM&R	1.63	[0.35,7.61]	0.535
	Pediatrics	2.10	[0.22,20.43]	0.523
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	2.99	[0.40,22.31]	0.285
	Male athletic trainers	Odds Ratio	95% CI	p value
Gender				
	Male	Base		
	Female	5.37	[2.44,11.82]	< 0.001
Age		0.99	[0.96,1.03]	0.694
Region				
	Europe	Base		
	Africa	1.83	[0.43,7.72]	0.410
	Asia	1.71	[0.59,4.96]	0.322
	North America	0.49	[0.18,1.33]	0.161
	Oceania	n.c.		
	South America	3.44	[0.63,18.81]	0.153
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.45	[0.14,1.43]	0.174
	Internal Medicine	n.c.		
	PM&R	0.70	[0.24,2.08]	0.525
	Pediatrics	0.78	[0.16,3.74]	0.760
	Emergency Medicine	0.48	[0.06,3.88]	0.492
	Sports Medicine	0.38	[0.07,2.08]	0.267
	Other	0.90	[0.16,4.99]	0.909
	Female athletic trainers	Odds Ratio	95% CI	p value

Gender			
Male	Base		
Female	0.30	[0.08,1.12]	0.073
Age	0.95	[0.91,1.00]	0.053
Region			
Europe	Base		
Africa	3.49	[0.51,23.86]	0.202
Asia	3.10	[0.68,14.06]	0.143
North America	0.54	[0.11,2.73]	0.458
Oceania	n.c.		
South America	3.87	[0.34,43.67]	0.274
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.44	[0.08,2.48]	0.351
Internal Medicine	1.46	[0.21,9.97]	0.700
PM&R	1.01	[0.19,5.48]	0.993
Pediatrics	2.56	[0.26,25.17]	0.420
Emergency Medicine	1.67	[0.17,16.85]	0.662
Sports Medicine	n.c.		
Other	1.91	[0.24,15.34]	0.543
Organizations/Administrations	Odds Ratio	95% CI	p value
Gender			
Male	Base		
Female	6.80	[3.24,14.23]	< 0.001
Age	1.01	[0.98,1.04]	0.546
Region			
Europe	Base		
Africa	10.18	[2.95,35.19]	< 0.001
Asia	3.35	[0.99,11.37]	0.052
North America	1.48	[0.52,4.26]	0.465
Oceania	19.87	[2.71,145.48]	0.003
South America	5.51	[0.95,32.01]	0.058
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.26	[0.08,0.86]	0.028
Internal Medicine	n.c.		
PM&R	0.63	[0.24,1.65]	0.342
Pediatrics	0.84	[0.27,2.67]	0.769
Emergency Medicine	0.33	[0.04,2.56]	0.286
Sports Medicine	0.66	[0.15,2.95]	0.586
Other	0.83	[0.15,4.66]	0.828

PM&R; physical medicine and rehabilitation, 95 % CI; 95 % confidence interval, n.c; not calculated

Table 4 Results of ordinal logistic regression on having sexually harassed (both genders separately)

Female sports medicine physicians			
Male athletes	Odds Ratio	95% CI	p value
Age	0.98	[0.95,1.02]	0.258
Region			
Europe	Base		
Africa	7.79	[2.23,27.21]	0.001
Asia	1.17	[0.34,4.02]	0.799
North America	1.48	[0.57,3.82]	0.424
Oceania	96.64	[5.4,1730.32]	0.002
South America	4.68	[0.41,53.33]	0.214
Residency training			
Family Medicine	Base		
Orthopedics	0.68	[0.22,2.11]	0.504
Internal Medicine	0.47	[0.10,2.26]	0.343
PM&R	0.52	[0.21,1.3]	0.160
Pediatrics	0.24	[0.05,1.08]	0.063
Emergency Medicine	0.51	[0.11,2.35]	0.388
Sports Medicine	0.17	[0.02,1.57]	0.117
Other	1.98	[0.31,12.54]	0.469
Female athletes	Odds Ratio	95% CI	p value
Age	1.07	[0.96,1.19]	0.216
Region			
Europe	Base		
Africa	10.5	[0.51,215.79]	0.127
Asia	0.57	[0.05,7.11]	0.660
North America	0.86	[0.05,14.35]	0.914
Oceania	n.c.		
South America	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	n.c.		
Internal Medicine	n.c.		
PM&R	n.c.		
Pediatrics	n.c.		
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	n.c.		
Male coaches	Odds Ratio	95% CI	p value
Age	1.00	[0.96,1.04]	0.994
Region			
Europe	Base		
Africa	6.91	[1.84,25.94]	0.004
Asia	0.72	[0.13,4.03]	0.708
North America	1.17	[0.40,3.40]	0.769
Oceania	54.56	[4.24,702.61]	0.002
South America	3.23	[0.30,35.26]	0.337
Residency training			
Family Medicine	Base		

Orthopedics	0.37	[0.09,1.58]	0.178
Internal Medicine	0.63	[0.13,3.18]	0.577
PM&R	0.43	[0.14,1.31]	0.139
Pediatrics	0.73	[0.23,2.35]	0.604
Emergency Medicine	n.c.		
Sports Medicine	0.40	[0.07,2.36]	0.314
Other	1.10	[0.11,11.31]	0.938
Female coaches	Odds Ratio	95% CI	p value
Age	1.06	[0.94,1.20]	0.355
Region			
Europe	Base		
Africa	n.c.		
Asia	1.15	[0.06,22.31]	0.925
North America	2.10	[0.06,70.52]	0.678
Oceania	n.c.		
South America	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	n.c.		
Internal Medicine	n.c.		
PM&R	n.c.		
Pediatrics	n.c.		
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	n.c.		
Male physicians in practice longer	Odds Ratio	95% CI	p value
Age	1.00	[0.98,1.03]	0.868
Region			
Europe	Base		
Africa	1.65	[0.48,5.69]	0.425
Asia	0.66	[0.25,1.73]	0.395
North America	2.00	[0.92,4.38]	0.082
Oceania	n.c.		
South America	4.29	[0.50,36.7]	0.184
Residency training			
Family Medicine	Base		
Orthopedics	3.27	[1.35,7.93]	0.009
Internal Medicine	0.49	[0.13,1.83]	0.291
PM&R	0.47	[0.20,1.06]	0.069
Pediatrics	0.12	[0.03,0.55]	0.006
Emergency Medicine	0.49	[0.13,1.82]	0.288
Sports Medicine	0.76	[0.22,2.65]	0.668
Other	2.46	[0.49,12.38]	0.274
Male physicians in practice the same or less	Odds Ratio	95% CI	p value
Age	1.00	[0.97,1.04]	0.960
Region			
Europe	Base		
Africa	n.c.		
Asia	0.66	[0.20,2.16]	0.490
North America	1.94	[0.72,5.19]	0.187
Oceania	n.c.		

	South America	2.48	[0.21,28.86]	0.468
Residency training				
	Family Medicine	Base		
	Orthopedics	2.77	[0.93,8.24]	0.067
	Internal Medicine	0.93	[0.19,4.53]	0.930
	PM&R	0.91	[0.34,2.45]	0.847
	Pediatrics	0.18	[0.02,1.38]	0.098
	Emergency Medicine	0.86	[0.18,4.06]	0.846
	Sports Medicine	1.29	[0.27,6.27]	0.751
	Other	3.83	[0.58,25.28]	0.163
	Female physicians in practice longer	Odds Ratio	95% CI	p value
Age		1.12	[1.02,1.22]	0.017
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	3.04	[0.21,43.03]	0.411
	North America	1.26	[0.06,26.77]	0.883
	Oceania	n.c.		
	South America	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	1.50	[0.08,29.57]	0.792
	Internal Medicine	n.c.		
	PM&R	n.c.		
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	1.72	[0.04,74.98]	0.779
	Other	5.66	[0.13,244.09]	0.366
	Female physicians in practice the same or less	Odds Ratio	95% CI	p value
Age		1.10	[0.99,1.21]	0.064
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	3.01	[0.22,40.79]	0.408
	North America	1.29	[0.06,29.87]	0.873
	Oceania	n.c.		
	South America	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	1.68	[0.08,35.90]	0.739
	Internal Medicine	n.c.		
	PM&R	n.c.		
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	6.11	[0.14,275.62]	0.352
	Male athletic trainers	Odds Ratio	95% CI	p value
Age		1.04	[0.99,1.08]	0.099
Region				
	Europe	Base		
	Africa	1.38	[0.24,8.00]	0.716

Asia	0.77	[0.17,3.47]	0.737
North America	0.65	[0.19,2.16]	0.480
Oceania	n.c.		
South America	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.88	[0.22,3.47]	0.856
Internal Medicine	n.c.		
PM&R	0.36	[0.07,1.82]	0.217
Pediatrics	0.43	[0.05,3.47]	0.431
Emergency Medicine	0.59	[0.07,4.94]	0.625
Sports Medicine	0.54	[0.09,3.38]	0.508
Other	1.18	[0.11,12.91]	0.891
Female athletic trainers	Odds Ratio	95% CI	p value
Age	1.06	[0.93,1.20]	0.366
Region			
Europe	Base		
Africa	n.c.		
Asia	1.19	[0.06,23.07]	0.909
North America	2.15	[0.06,72.86]	0.670
Oceania	n.c.		
South America	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	n.c.		
Internal Medicine	n.c.		
PM&R	n.c.		
Pediatrics	n.c.		
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	n.c.		
Organizations/Administrations	Odds Ratio	95% CI	p value
Age	1.06	[1.02,1.10]	0.004
Region			
Europe	Base		
Africa	8.49	[1.73,41.69]	0.008
Asia	2.10	[0.38,11.70]	0.396
North America	2.49	[0.64,9.59]	0.186
Oceania	47.58	[4.69,483.01]	0.001
South America	5.78	[0.51,66.11]	0.158
Residency training			
Family Medicine	Base		
Orthopedics	0.34	[0.07,1.59]	0.170
Internal Medicine	n.c.		
PM&R	0.30	[0.08,1.22]	0.094
Pediatrics	0.60	[0.16,2.20]	0.439
Emergency Medicine	0.39	[0.05,3.13]	0.374
Sports Medicine	0.93	[0.16,5.33]	0.937
Other	1.42	[0.12,17.36]	0.784
Male sports medicine physicians			
Male athletes	Odds Ratio	95% CI	p value

Age		0.92	[0.85,0.99]	0.022
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	n.c.		
	North America	n.c.		
	Oceania	n.c.		
	South America	n.c.		
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.04	[0.00,0.40]	0.007
	Internal Medicine	n.c.		
	PM&R	0.41	[0.04,4.11]	0.451
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	0.23	[0.01,4.34]	0.328
	Female athletes	Odds Ratio	95% CI	p value
Age		0.97	[0.93,1.00]	0.063
Region				
	Europe	Base		
	Africa	6.12	[1.53,24.39]	0.010
	Asia	0.97	[0.32,2.97]	0.953
	North America	0.45	[0.14,1.45]	0.181
	Oceania	n.c.		
	South America	5.96	[1.45,24.45]	0.013
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.53	[0.14,1.94]	0.334
	Internal Medicine	0.66	[0.11,3.88]	0.643
	PM&R	2.30	[0.76,6.96]	0.140
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	0.21	[0.02,2.10]	0.185
	Other	0.68	[0.07,6.64]	0.744
	Male coaches	Odds Ratio	95% CI	p value
Age		0.88	[0.81,0.97]	0.007
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	n.c.		
	North America	n.c.		
	Oceania	n.c.		
	South America	n.c.		
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.04	[0.00,0.67]	0.025
	Internal Medicine	n.c.		

	PM&R	0.22	[0.01,3.76]	0.296
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	0.35	[0.01,9.46]	0.532
	Female coaches	Odds Ratio	95% CI	p value
Age		0.94	[0.89,0.99]	0.022
Region				
	Europe	Base		
	Africa	6.24	[0.93,41.75]	0.059
	Asia	1.63	[0.36,7.32]	0.526
	North America	0.74	[0.13,4.26]	0.733
	Oceania	n.c.		
	South America	3.45	[0.3,39.58]	0.319
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	1.45	[0.22,9.70]	0.702
	Internal Medicine	n.c.		
	PM&R	3.20	[0.64,16.03]	0.157
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	2.54	[0.18,36.01]	0.490
	Male physicians in practice longer	Odds Ratio	95% CI	p value
Age		0.93	[0.88,0.99]	0.025
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	n.c.		
	North America	n.c.		
	Oceania	n.c.		
	South America	n.c.		
	Multiple	n.c.		
Residency training				
	Family Medicine	Base		
	Orthopedics	0.28	[0.02,3.67]	0.330
	Internal Medicine	n.c.		
	PM&R	1.45	[0.14,15.56]	0.759
	Pediatrics	n.c.		
	Emergency Medicine	n.c.		
	Sports Medicine	n.c.		
	Other	1.56	[0.09,28.28]	0.762
	Male physicians in practice the same or less	Odds Ratio	95% CI	p value
Age		0.95	[0.89,1.02]	0.130
Region				
	Europe	Base		
	Africa	n.c.		
	Asia	n.c.		
	North America	n.c.		
	Oceania	n.c.		

South America	n.c.		
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.08	[0.01,0.89]	0.039
Internal Medicine	n.c.		
PM&R	0.26	[0.02,3.33]	0.301
Pediatrics	1.86	[0.08,43.1]	0.699
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	0.27	[0.01,5.27]	0.384
Female physicians in practice longer	Odds Ratio	95% CI	p value
Age	0.95	[0.90,1.01]	0.109
Region			
Europe	Base		
Africa	10.88	[1.07,110.11]	0.043
Asia	1.38	[0.25,7.62]	0.714
North America	1.33	[0.17,10.23]	0.785
Oceania	n.c.		
South America	7.45	[0.89,62.22]	0.064
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	1.98	[0.25,15.61]	0.517
Internal Medicine	n.c.		
PM&R	1.66	[0.25,10.91]	0.600
Pediatrics	n.c.		
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	3.20	[0.21,48.20]	0.401
Female physicians in practice the same or less	Odds Ratio	95% CI	p value
Age	0.96	[0.92,1.01]	0.124
Region			
Europe	Base		
Africa	10.57	[1.55,72.11]	0.016
Asia	1.69	[0.41,6.93]	0.465
North America	0.43	[0.06,3.22]	0.412
Oceania	n.c.		
South America	4.56	[0.66,31.56]	0.124
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	2.06	[0.29,14.45]	0.466
Internal Medicine	1.08	[0.08,14.73]	0.955
PM&R	2.46	[0.36,16.61]	0.356
Pediatrics	8.44	[0.64,112.05]	0.106
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	2.27	[0.15,33.73]	0.552
Male athletic trainers	Odds Ratio	95% CI	p value

Age	0.92	[0.86,0.99]	0.020
Region			
Europe	Base		
Africa	5.78	[0.3,110.83]	0.245
Asia	17.16	[1.29,227.36]	0.031
North America	0.32	[0.02,5.54]	0.435
Oceania	n.c.		
South America	54.29	[2.73,1077.57]	0.009
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.11	[0.01,1.14]	0.064
Internal Medicine	n.c.		
PM&R	0.75	[0.08,7.10]	0.799
Pediatrics	3.83	[0.20,74.39]	0.376
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	0.51	[0.03,9.89]	0.654
Female athletic trainers	Odds Ratio	95% CI	p value
Age	0.94	[0.89,0.99]	0.024
Region			
Europe	Base		
Africa	6.29	[0.72,55.07]	0.097
Asia	5.66	[0.86,37.37]	0.072
North America	0.52	[0.08,3.46]	0.502
Oceania	n.c.		
South America	6.30	[0.44,90.86]	0.177
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.20	[0.03,1.34]	0.098
Internal Medicine	0.96	[0.12,7.43]	0.965
PM&R	0.66	[0.11,4.08]	0.651
Pediatrics	3.67	[0.34,39.27]	0.283
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	0.58	[0.04,7.97]	0.683
Organizations/Administrations	Odds Ratio	95% CI	p value
Age	0.92	[0.86,0.99]	0.029
Region			
Europe	Base		
Africa	29.80	[2.54,349.89]	0.007
Asia	9.53	[0.88,103.12]	0.064
North America	0.33	[0.02,6.23]	0.461
Oceania	n.c.		
South America	15.40	[0.65,363.96]	0.090
Multiple	n.c.		
Residency training			
Family Medicine	Base		
Orthopedics	0.25	[0.02,2.57]	0.241
Internal Medicine	n.c.		

PM&R	1.96	[0.26,14.92]	0.517
Pediatrics	10.13	[0.54,189.77]	0.121
Emergency Medicine	n.c.		
Sports Medicine	n.c.		
Other	1.16	[0.06,21.31]	0.922

PM&R; physical medicine and rehabilitation, 95 % CI; 95 % confidence interval, n.c; not calculated