



NCCPA
Certification. Excellence.®

2022 Specialty Supplement Report on Secondary Specialty

National Commission on Certification of PAs

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Table 1a: Principal Specialty by Secondary Specialty

Principal Specialty Area Cardiology

Secondary Specialty Area	2022	2018
Cardiology	22.8%	23.2%
Cardiothoracic and vascular surgery	4.4%	2.3%
Critical care medicine	4.0%	1.9%
Dermatology	0.0%	0.0%
Emergency medicine	18.8%	18.9%
Family medicine/general practice	4.0%	7.7%
Gastroenterology	0.7%	1.2%
General surgery	0.4%	0.4%
Geriatrics	0.4%	0.4%
Hospital medicine	12.9%	18.1%
Internal medicine-general	3.7%	5.0%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	0.8%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.1%	1.2%
Oncology	0.4%	0.4%
Orthopaedic surgery	0.4%	0.8%
Otolaryngology	0.0%	0.0%
Pain medicine	0.4%	0.0%
Pediatrics- general	0.0%	0.4%
Physical medicine and rehabilitation	0.0%	0.4%
Plastic surgery	0.4%	0.0%
Psychiatry	1.5%	1.5%
Urology	0.0%	0.4%
All other specialties	23.7%	15.0%

Table 1b: Principal Specialty by Secondary Specialty

Principal Specialty Area Cardiothoracic and vascular surgery

Secondary Specialty Area	2022	2018
Cardiology	3.8%	3.2%
Cardiothoracic and vascular surgery	35.0%	32.5%
Critical care medicine	7.8%	8.8%
Dermatology	0.5%	0.5%
Emergency medicine	10.6%	13.5%
Family medicine/general practice	3.5%	4.2%
Gastroenterology	0.5%	0.0%
General surgery	6.3%	8.6%
Geriatrics	0.3%	0.2%
Hospital medicine	4.5%	3.4%
Internal medicine-general	1.5%	2.7%
Neurology	0.5%	0.2%
Neurosurgery	1.0%	1.5%
Obstetrics and gynecology	0.0%	0.2%
Occupational medicine	0.3%	0.0%
Oncology	0.3%	0.5%
Orthopaedic surgery	1.8%	2.2%
Otolaryngology	0.0%	0.0%
Pain medicine	0.3%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.5%	0.2%
Plastic surgery	1.5%	0.5%
Psychiatry	0.0%	0.0%
Urology	0.8%	0.5%
All other specialties	18.7%	16.6%

Table 1c: Principal Specialty by Secondary Specialty

Principal Specialty Area Critical care medicine

Secondary Specialty Area	2022	2018
Cardiology	3.6%	4.9%
Cardiothoracic and vascular surgery	2.9%	3.5%
Critical care medicine	30.1%	23.1%
Dermatology	0.2%	0.0%
Emergency medicine	19.6%	18.5%
Family medicine/general practice	4.0%	3.5%
Gastroenterology	0.2%	0.0%
General surgery	4.2%	5.5%
Geriatrics	0.7%	0.3%
Hospital medicine	10.5%	13.6%
Internal medicine-general	2.2%	2.3%
Neurology	0.4%	0.6%
Neurosurgery	4.0%	3.8%
Obstetrics and gynecology	0.2%	0.0%
Occupational medicine	1.1%	0.6%
Oncology	0.4%	0.3%
Orthopaedic surgery	0.9%	0.3%
Otolaryngology	0.0%	0.0%
Pain medicine	0.2%	0.3%
Pediatrics- general	0.2%	0.3%
Physical medicine and rehabilitation	0.2%	0.0%
Plastic surgery	0.4%	0.3%
Psychiatry	0.2%	0.6%
Urology	0.0%	0.0%
All other specialties	13.6%	17.7%

Table 1d: Principal Specialty by Secondary Specialty

Principal Specialty Area Dermatology

Secondary Specialty Area	2022	2018
Cardiology	0.0%	0.4%
Cardiothoracic and vascular surgery	1.2%	0.4%
Critical care medicine	0.8%	1.3%
Dermatology	29.5%	32.7%
Emergency medicine	14.5%	17.0%
Family medicine/general practice	6.6%	8.5%
Gastroenterology	0.4%	0.9%
General surgery	1.2%	0.9%
Geriatrics	0.4%	0.9%
Hospital medicine	1.7%	0.4%
Internal medicine-general	4.1%	1.8%
Neurology	0.4%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.8%	0.4%
Occupational medicine	0.8%	1.3%
Oncology	0.0%	0.4%
Orthopaedic surgery	1.7%	0.4%
Otolaryngology	0.0%	0.9%
Pain medicine	1.2%	0.4%
Pediatrics- general	0.4%	0.4%
Physical medicine and rehabilitation	0.4%	0.0%
Plastic Surgery	2.1%	0.4%
Psychiatry	1.7%	0.9%
Urology	0.0%	0.0%
All other specialties	30.1%	29.3%

Table 1e: Principal Specialty by Secondary Specialty

Principal Specialty Area Emergency medicine

Secondary Specialty Area	2022	2018
Cardiology	0.5%	0.4%
Cardiothoracic and vascular surgery	0.4%	0.3%
Critical care medicine	1.5%	0.8%
Dermatology	0.8%	0.7%
Emergency medicine	50.4%	52.8%
Family medicine/general practice	8.2%	10.6%
Gastroenterology	0.1%	0.1%
General surgery	0.7%	1.1%
Geriatrics	0.4%	0.4%
Hospital medicine	3.0%	2.5%
Internal medicine-general	1.8%	2.1%
Neurology	0.1%	0.3%
Neurosurgery	0.1%	0.2%
Obstetrics and gynecology	0.3%	0.2%
Occupational medicine	2.4%	2.4%
Oncology	0.1%	0.0%
Orthopaedic surgery	1.2%	1.9%
Otolaryngology	0.1%	0.2%
Pain medicine	0.5%	0.2%
Pediatrics- general	0.7%	1.0%
Physical medicine and rehabilitation	0.3%	0.3%
Plastic Surgery	0.4%	0.6%
Psychiatry	0.6%	0.5%
Urology	0.1%	0.1%
All other specialties	25.3%	20.3%

Table 1f: Principal Specialty by Secondary Specialty

Principal Specialty Area
Family medicine/general practice

Secondary Specialty Area	2022	2018
Cardiology	0.2%	0.6%
Cardiothoracic and vascular surgery	0.2%	0.1%
Critical care medicine	0.9%	0.7%
Dermatology	0.8%	0.7%
Emergency medicine	20.9%	26.1%
Family medicine/general practice	25.9%	25.1%
Gastroenterology	0.2%	0.3%
General surgery	0.4%	0.6%
Geriatrics	1.3%	0.8%
Hospital medicine	2.4%	2.2%
Internal medicine-general	2.0%	2.7%
Neurology	0.1%	0.2%
Neurosurgery	0.1%	0.1%
Obstetrics and gynecology	0.4%	0.4%
Occupational medicine	2.7%	3.0%
Oncology	0.1%	0.0%
Orthopaedic surgery	0.9%	1.0%
Otolaryngology	0.0%	0.2%
Pain medicine	0.6%	0.4%
Pediatrics- general	1.8%	1.9%
Physical medicine and rehabilitation	0.4%	0.3%
Plastic Surgery	0.1%	0.2%
Psychiatry	2.0%	1.6%
Urology	0.2%	0.3%
All other specialties	35.4%	30.5%

Table 1g: Principal Specialty by Secondary Specialty

Principal Specialty Area Gastroenterology

Secondary Specialty Area	2022	2018
Cardiology	2.0%	0.9%
Cardiothoracic and vascular surgery	1.0%	0.9%
Critical care medicine	2.0%	1.9%
Dermatology	1.0%	0.0%
Emergency medicine	9.2%	15.7%
Family medicine/general practice	14.3%	14.8%
Gastroenterology	13.3%	11.1%
General surgery	3.1%	0.0%
Geriatrics	0.0%	0.9%
Hospital medicine	12.2%	12.0%
Internal medicine-general	6.1%	5.6%
Neurology	1.0%	0.9%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	2.0%	0.9%
Oncology	0.0%	0.9%
Orthopaedic surgery	0.0%	1.9%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	0.9%
Physical medicine and rehabilitation	2.0%	1.9%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.0%	0.0%
Urology	1.0%	0.0%
All other specialties	28.8%	28.8%

Table 1h: Principal Specialty by Secondary Specialty

Principal Specialty Area General surgery

Secondary Specialty Area	2022	2018
Cardiology	0.2%	0.7%
Cardiothoracic and vascular surgery	1.5%	2.1%
Critical care medicine	3.1%	1.9%
Dermatology	0.9%	0.7%
Emergency medicine	14.0%	21.8%
Family medicine/general practice	6.2%	5.7%
Gastroenterology	0.9%	1.7%
General surgery	25.6%	26.3%
Geriatrics	0.2%	0.5%
Hospital medicine	4.4%	3.8%
Internal medicine-general	3.3%	2.4%
Neurology	0.0%	0.2%
Neurosurgery	0.9%	2.1%
Obstetrics and gynecology	0.7%	1.2%
Occupational medicine	1.6%	0.5%
Oncology	0.4%	0.5%
Orthopaedic surgery	2.9%	4.7%
Otolaryngology	0.2%	0.2%
Pain medicine	0.4%	0.5%
Pediatrics- general	0.0%	0.2%
Physical medicine and rehabilitation	0.4%	0.0%
Plastic Surgery	2.0%	1.2%
Psychiatry	0.4%	0.5%
Urology	0.9%	0.9%
All other specialties	28.9%	19.7%

Table 1i: Principal Specialty by Secondary Specialty

Principal Specialty Area Geriatrics

Secondary Specialty Area	2022	2018
Cardiology	0.0%	0.9%
Cardiothoracic and vascular surgery	0.0%	0.9%
Critical care medicine	0.0%	0.9%
Dermatology	0.0%	0.0%
Emergency medicine	13.6%	17.0%
Family medicine/general practice	17.3%	14.2%
Gastroenterology	0.0%	0.0%
General surgery	1.2%	0.9%
Geriatrics	7.4%	9.4%
Hospital medicine	7.4%	6.6%
Internal medicine-general	9.9%	16.0%
Neurology	1.2%	1.9%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	2.5%	2.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.2%	0.9%
Otolaryngology	1.2%	0.9%
Pain medicine	2.5%	0.9%
Pediatrics- general	0.0%	0.9%
Physical medicine and rehabilitation	4.9%	0.9%
Plastic Surgery	0.0%	0.0%
Psychiatry	2.5%	1.9%
Urology	0.0%	0.0%
All other specialties	27.2%	22.1%

Table 1j: Principal Specialty by Secondary Specialty

Principal Specialty Area Hospital medicine

Secondary Specialty Area	2022	2018
Cardiology	2.1%	3.2%
Cardiothoracic and vascular surgery	0.9%	1.0%
Critical care medicine	2.4%	2.1%
Dermatology	0.7%	0.4%
Emergency medicine	24.5%	26.6%
Family medicine/general practice	6.7%	8.7%
Gastroenterology	0.7%	0.4%
General surgery	1.2%	1.1%
Geriatrics	1.0%	1.6%
Hospital medicine	28.2%	22.7%
Internal medicine-general	6.0%	5.1%
Neurology	1.0%	0.5%
Neurosurgery	0.3%	0.4%
Obstetrics and gynecology	0.3%	0.9%
Occupational medicine	1.4%	1.8%
Oncology	0.7%	0.5%
Orthopaedic surgery	0.5%	1.1%
Otolaryngology	0.0%	0.0%
Pain medicine	0.5%	0.2%
Pediatrics- general	0.5%	0.4%
Physical medicine and rehabilitation	0.0%	1.1%
Plastic Surgery	0.0%	0.0%
Psychiatry	0.5%	0.9%
Urology	0.0%	0.2%
All other specialties	19.9%	19.1%

Table 1k: Principal Specialty by Secondary Specialty

Principal Specialty Area Internal medicine-general

Secondary Specialty Area	2022	2018
Cardiology	1.7%	1.8%
Cardiothoracic and vascular surgery	0.2%	0.2%
Critical care medicine	0.6%	0.8%
Dermatology	0.8%	0.7%
Emergency medicine	16.7%	17.9%
Family medicine/general practice	12.3%	14.9%
Gastroenterology	0.8%	0.5%
General surgery	1.0%	0.8%
Geriatrics	3.5%	3.0%
Hospital medicine	9.0%	6.9%
Internal medicine-general	18.4%	17.2%
Neurology	0.6%	1.2%
Neurosurgery	0.4%	0.0%
Obstetrics and gynecology	0.2%	0.3%
Occupational medicine	1.5%	2.0%
Oncology	0.2%	0.2%
Orthopaedic surgery	1.2%	0.5%
Otolaryngology	0.0%	0.2%
Pain medicine	1.0%	0.7%
Pediatrics- general	1.2%	1.3%
Physical medicine and rehabilitation	1.0%	0.7%
Plastic Surgery	0.0%	0.3%
Psychiatry	0.8%	1.5%
Urology	0.4%	0.3%
All other specialties	34.6%	26.1%

Table 11: Principal Specialty by Secondary Specialty

Principal Specialty Area Neurology

Secondary Specialty Area	2022	2018
Cardiology	1.2%	0.0%
Cardiothoracic and vascular surgery	0.0%	1.5%
Critical care medicine	2.4%	0.0%
Dermatology	1.2%	0.0%
Emergency medicine	14.3%	7.7%
Family medicine/general practice	10.7%	10.8%
Gastroenterology	0.0%	0.0%
General surgery	0.0%	0.0%
Geriatrics	0.0%	0.0%
Hospital medicine	10.7%	6.2%
Internal medicine-general	4.8%	7.7%
Neurology	21.4%	27.7%
Neurosurgery	4.8%	10.8%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.2%	1.5%
Oncology	2.4%	0.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	1.5%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	1.2%	1.5%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.2%	3.1%
Urology	0.0%	0.0%
All other specialties	22.5%	20.0%

Table 1m: Principal Specialty by Secondary Specialty

Principal Specialty Area Neurosurgery

Secondary Specialty Area	2022	2018
Cardiology	1.2%	0.4%
Cardiothoracic and vascular surgery	0.4%	1.2%
Critical care medicine	4.3%	4.8%
Dermatology	0.4%	0.0%
Emergency medicine	11.3%	18.0%
Family medicine/general practice	5.5%	6.8%
Gastroenterology	0.8%	0.0%
General surgery	2.3%	5.6%
Geriatrics	0.4%	0.0%
Hospital medicine	3.1%	3.6%
Internal medicine-general	2.3%	2.8%
Neurology	5.1%	0.0%
Neurosurgery	32.8%	31.2%
Obstetrics and gynecology	0.4%	0.8%
Occupational medicine	0.4%	0.4%
Oncology	0.4%	0.0%
Orthopaedic surgery	4.7%	3.2%
Otolaryngology	0.0%	0.0%
Pain medicine	1.6%	0.4%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.8%	1.2%
Plastic Surgery	0.8%	1.2%
Psychiatry	0.4%	0.8%
Urology	0.0%	0.0%
All other specialties	20.6%	17.6%

Table 1n: Principal Specialty by Secondary Specialty

Principal Specialty Area Obstetrics and gynecology

Secondary Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.7%	0.0%
Critical care medicine	0.0%	0.7%
Dermatology	0.7%	0.7%
Emergency medicine	13.5%	11.7%
Family medicine/general practice	8.5%	10.2%
Gastroenterology	0.0%	0.0%
General surgery	2.1%	1.5%
Geriatrics	0.7%	0.0%
Hospital medicine	3.5%	0.7%
Internal medicine-general	2.8%	3.6%
Neurology	0.7%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	36.2%	35.0%
Occupational medicine	1.4%	0.7%
Oncology	0.7%	0.7%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	0.7%
Pain medicine	0.0%	0.7%
Pediatrics- general	2.1%	1.5%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	1.5%
Psychiatry	2.8%	1.5%
Urology	0.7%	0.7%
All other specialties	22.9%	27.9%

Table 1o: Principal Specialty by Secondary Specialty

Principal Specialty Area Occupational medicine

Secondary Specialty Area	2022	2018
Cardiology	0.5%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.4%
Dermatology	0.9%	0.9%
Emergency medicine	19.6%	24.3%
Family medicine/general practice	14.2%	17.3%
Gastroenterology	0.0%	0.0%
General surgery	0.0%	0.9%
Geriatrics	0.5%	0.4%
Hospital medicine	1.8%	0.4%
Internal medicine-general	2.7%	4.0%
Neurology	0.9%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.9%	0.0%
Occupational medicine	20.1%	15.5%
Oncology	0.5%	0.4%
Orthopaedic surgery	2.7%	1.8%
Otolaryngology	0.0%	0.9%
Pain medicine	0.5%	0.0%
Pediatrics- general	0.5%	0.0%
Physical medicine and rehabilitation	0.0%	0.4%
Plastic Surgery	0.0%	0.4%
Psychiatry	0.9%	0.4%
Urology	0.0%	0.0%
All other specialties	32.8%	31.6%

Table 1p: Principal Specialty by Secondary Specialty

Principal Specialty Area Oncology

Secondary Specialty Area	2022	2018
Cardiology	1.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	1.0%
Dermatology	1.0%	2.0%
Emergency medicine	15.2%	17.3%
Family medicine/general practice	8.6%	12.7%
Gastroenterology	0.0%	0.0%
General surgery	1.9%	1.0%
Geriatrics	1.0%	0.0%
Hospital medicine	10.5%	9.8%
Internal medicine-general	4.8%	4.9%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	1.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	2.0%
Oncology	17.1%	17.6%
Orthopaedic surgery	1.0%	0.0%
Otolaryngology	0.0%	0.0%
Pain medicine	1.0%	0.0%
Pediatrics- general	0.0%	1.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.9%	1.0%
Urology	1.0%	0.0%
All other specialties	34.0%	28.7%

Table 1q: Principal Specialty by Secondary Specialty

Principal Specialty Area Orthopaedic surgery

Secondary Specialty Area	2022	2018
Cardiology	0.2%	0.2%
Cardiothoracic and vascular surgery	0.3%	0.5%
Critical care medicine	0.9%	1.2%
Dermatology	0.3%	0.4%
Emergency medicine	20.6%	24.8%
Family medicine/general practice	9.2%	9.9%
Gastroenterology	0.0%	0.2%
General surgery	4.2%	3.7%
Geriatrics	0.3%	0.2%
Hospital medicine	2.2%	2.8%
Internal medicine-general	1.7%	1.9%
Neurology	0.1%	0.1%
Neurosurgery	0.8%	1.2%
Obstetrics and gynecology	0.4%	0.1%
Occupational medicine	1.0%	1.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	29.9%	28.5%
Otolaryngology	0.2%	0.1%
Pain medicine	1.5%	0.8%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.6%	0.9%
Plastic Surgery	1.4%	0.5%
Psychiatry	0.7%	0.5%
Urology	0.1%	0.1%
All other specialties	23.4%	19.6%

Table 1r: Principal Specialty by Secondary Specialty

Principal Specialty Area Otolaryngology

Secondary Specialty Area	2028	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	1.3%
Dermatology	0.0%	0.0%
Emergency medicine	21.0%	20.0%
Family medicine/general practice	11.3%	10.0%
Gastroenterology	1.6%	0.0%
General surgery	3.2%	1.3%
Geriatrics	0.0%	0.0%
Hospital medicine	3.2%	2.5%
Internal medicine-general	0.0%	1.3%
Neurology	1.6%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	3.2%	5.0%
Oncology	0.0%	1.3%
Orthopaedic surgery	6.5%	5.0%
Otolaryngology	8.1%	8.8%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	2.5%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	1.6%	1.3%
Psychiatry	0.0%	1.3%
Urology	0.0%	0.0%
All other specialties	38.7%	38.4%

Table 1s: Principal Specialty by Secondary Specialty

Principal Specialty Area Pain medicine

Secondary Specialty Area	2022	2018
Cardiology	0.0%	0.8%
Cardiothoracic and vascular surgery	0.0%	0.8%
Critical care medicine	0.7%	0.0%
Dermatology	0.7%	0.0%
Emergency medicine	13.6%	21.1%
Family medicine/general practice	16.6%	19.5%
Gastroenterology	0.0%	0.8%
General surgery	1.4%	0.0%
Geriatrics	0.0%	0.8%
Hospital medicine	3.4%	0.8%
Internal medicine-general	2.7%	1.6%
Neurology	0.7%	0.0%
Neurosurgery	0.7%	0.8%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.4%	0.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.4%	4.1%
Otolaryngology	0.0%	0.8%
Pain medicine	10.2%	13.0%
Pediatrics- general	0.7%	0.0%
Physical medicine and rehabilitation	3.4%	4.1%
Plastic Surgery	1.4%	0.0%
Psychiatry	2.7%	1.6%
Urology	0.7%	0.0%
All other specialties	37.6%	28.6%

Table 1t: Principal Specialty by Secondary Specialty

Principal Specialty Area Pediatrics- general

Secondary Specialty Area	2022	2018
Cardiology	0.7%	0.0%
Cardiothoracic and vascular surgery	0.7%	0.0%
Critical care medicine	0.7%	1.2%
Dermatology	0.7%	0.6%
Emergency medicine	17.9%	20.2%
Family medicine/general practice	11.9%	11.7%
Gastroenterology	0.0%	0.0%
General surgery	0.7%	0.0%
Geriatrics	0.0%	0.6%
Hospital medicine	0.7%	1.8%
Internal medicine-general	2.6%	1.2%
Neurology	0.7%	0.6%
Neurosurgery	0.0%	0.6%
Obstetrics and gynecology	1.3%	2.5%
Occupational medicine	2.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.7%	0.6%
Pain medicine	0.0%	0.6%
Pediatrics- general	23.2%	29.4%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.3%	1.2%
Urology	0.0%	0.0%
All other specialties	34.2%	27.2%

Table 1u: Principal Specialty by Secondary Specialty

Principal Specialty Area Physical medicine and rehabilitation

Secondary Specialty Area	2022	2018
Cardiology	1.8%	1.4%
Cardiothoracic and vascular surgery	0.0%	1.4%
Critical care medicine	1.8%	0.0%
Dermatology	1.8%	0.0%
Emergency medicine	12.3%	12.3%
Family medicine/general practice	14.0%	8.2%
Gastroenterology	0.0%	0.0%
General surgery	1.8%	0.0%
Geriatrics	0.0%	0.0%
Hospital medicine	1.8%	5.5%
Internal medicine-general	3.5%	4.1%
Neurology	1.8%	2.7%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	1.8%	1.4%
Occupational medicine	1.8%	2.7%
Oncology	0.0%	0.0%
Orthopaedic surgery	12.3%	5.5%
Otolaryngology	1.8%	0.0%
Pain medicine	5.3%	4.1%
Pediatrics- general	0.0%	1.4%
Physical medicine and rehabilitation	10.5%	16.4%
Plastic Surgery	0.0%	1.4%
Psychiatry	0.0%	1.4%
Urology	0.0%	0.0%
All other specialties	25.9%	30.1%

Table 1v: Principal Specialty by Secondary Specialty

Principal Specialty Area Plastic surgery

Secondary Specialty Area	2022	2018
Cardiology	1.9%	0.9%
Cardiothoracic and vascular surgery	0.0%	3.8%
Critical care medicine	0.9%	0.9%
Dermatology	1.9%	3.7%
Emergency medicine	16.0%	21.5%
Family medicine/general practice	8.5%	7.5%
Gastroenterology	0.0%	0.0%
General surgery	8.5%	7.5%
Geriatrics	0.0%	0.0%
Hospital medicine	1.9%	1.9%
Internal medicine-general	0.0%	1.9%
Neurology	1.0%	0.9%
Neurosurgery	1.9%	0.0%
Obstetrics and gynecology	0.9%	0.0%
Occupational medicine	1.9%	2.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	0.9%	1.9%
Otolaryngology	0.0%	0.9%
Pain medicine	0.9%	0.0%
Pediatrics- general	0.9%	0.0%
Physical medicine and rehabilitation	0.0%	1.9%
Plastic Surgery	18.9%	16.8%
Psychiatry	0.9%	1.9%
Urology	0.0%	0.0%
All other specialties	32.2%	23.3%

Table 1w: Principal Specialty by Secondary Specialty

Principal Specialty Area Psychiatry

Secondary Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.9%	0.4%
Dermatology	0.3%	0.9%
Emergency medicine	7.4%	5.2%
Family medicine/general practice	8.6%	15.0%
Gastroenterology	0.0%	0.0%
General surgery	0.3%	0.0%
Geriatrics	0.6%	0.9%
Hospital medicine	1.8%	3.0%
Internal medicine-general	1.2%	3.4%
Neurology	0.6%	0.4%
Neurosurgery	0.3%	0.0%
Obstetrics and gynecology	0.3%	0.0%
Occupational medicine	0.9%	1.3%
Oncology	0.6%	0.0%
Orthopaedic surgery	0.3%	0.0%
Otolaryngology	0.0%	0.4%
Pain medicine	0.0%	0.4%
Pediatrics- general	0.9%	1.7%
Physical medicine and rehabilitation	0.3%	0.4%
Plastic Surgery	0.0%	0.0%
Psychiatry	44.2%	47.2%
Urology	0.6%	0.0%
All other specialties	29.9%	19.4%

Table 1x: Principal Specialty by Secondary Specialty

Principal Specialty Area Urology

Secondary Specialty Area	2022	2018
Cardiology	1.1%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	1.1%	0.9%
Dermatology	0.0%	0.9%
Emergency medicine	13.0%	15.9%
Family medicine/general practice	14.1%	16.8%
Gastroenterology	0.0%	0.0%
General surgery	3.3%	4.7%
Geriatrics	1.1%	0.9%
Hospital medicine	4.3%	3.7%
Internal medicine-general	3.3%	0.9%
Neurology	0.0%	0.9%
Neurosurgery	1.1%	1.9%
Obstetrics and gynecology	0.0%	0.9%
Occupational medicine	2.2%	2.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.1%	0.9%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.9%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.9%
Psychiatry	0.0%	0.9%
Urology	8.7%	10.3%
All other specialties	45.6%	34.9%

Table 1y: Principal Specialty by Secondary Specialty

Principal Specialty Area
All other specialties

Secondary Specialty Area	2022	2018
Cardiology	0.8%	0.7%
Cardiothoracic and vascular surgery	0.6%	1.(%
Critical care medicine	1.8%	1.. %
Dermatology	0.8%	%# %
Emergency medicine	19.7%	2%# /
Family medicine/general practice	9.6%	10.' %
Gastroenterology	0.3%	0.* %
General surgery	2.3%	3.' %
Geriatrics	0.6%	0.+%
Hospital medicine	4.3%) #6%
Internal medicine-general	2.7%	2.4%
Neurology	0.2%	0.2%
Neurosurgery	0.8%	0.6%
Obstetrics and gynecology	0.6%	0.7%
Occupational medicine	2.9%	3.0%
Oncology	0.5%	0.6%
Orthopaedic surgery	2.1%	1.6%
Otolaryngology	0.2%	0.3%
Pain medicine	0.6%	0.8%
Pediatrics- general	1.5%	2.1%
Physical medicine and rehabilitation	0.4%	0.4%
Plastic Surgery	0.5%	0.2%
Psychiatry	1.5%	1.6%
Urology	0.3%	0.6%
All other specialties	44.4%	40.7%

Table 2a: Secondary Specialty by Principal Specialty

Secondary Specialty Area Cardiology

Principal Specialty Area	2022	2018
Cardiology	36.9%	35.3%
Cardiothoracic and vascular surgery	9.0%	7.7%
Critical care medicine	9.5%	10.0%
Dermatology	0.0%	0.6%
Emergency medicine	8.9%	7.6%
Family medicine/general practice	2.4%	7.6%
Gastroenterology	1.2%	0.6%
General surgery	0.6%	1.8%
Geriatrics	0.0%	0.6%
Hospital medicine	7.1%	10.6%
Internal medicine-general	5.4%	6.5%
Neurology	0.6%	0.0%
Neurosurgery	1.8%	0.6%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.6%	0.0%
Oncology	0.6%	0.0%
Orthopaedic surgery	1.2%	1.2%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.6%
Pediatrics- general	0.6%	0.0%
Physical medicine and rehabilitation	0.6%	0.6%
Plastic surgery	1.2%	0.6%
Psychiatry	0.0%	0.0%
Urology	0.6%	0.6%
All other specialties	11.2%	6.9%

Table 2b: Secondary Specialty by Principal Specialty

Secondary Specialty Area Cardiothoracic and vascular surgery

Principal Specialty Area	2022	2018
Cardiology	5.6%	2.7%
Cardiothoracic and vascular surgery	64.6%	60.0%
Critical care medicine	6.0%	5.5%
Dermatology	1.4%	0.5%
Emergency medicine	4.7%	4.1%
Family medicine/general practice	1.4%	1.4%
Gastroenterology	0.5%	0.5%
General surgery	3.3%	4.1%
Geriatrics	0.0%	0.5%
Hospital medicine	2.3%	2.7%
Internal medicine-general	0.5%	0.5%
Neurology	0.0%	0.5%
Neurosurgery	0.5%	1.4%
Obstetrics and gynecology	0.5%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.4%	2.3%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.5%
Pediatrics- general	0.5%	0.0%
Physical medicine and rehabilitation	0.0%	0.5%
Plastic surgery	0.0%	1.8%
Psychiatry	0.0%	0.0%
Urology	0.0%	0.0%
All other specialties	6.8%	10.5%

Table 2c: Secondary Specialty by Principal Specialty

Secondary Specialty Area Critical care medicine

Principal Specialty Area	2022	2018
Cardiology	3.2%	1.9%
Cardiothoracic and vascular surgery	12.9%	13.9%
Critical care medicine	38.9%	30.9%
Dermatology	0.6%	1.2%
Emergency medicine	13.0%	8.9%
Family medicine/general practice	4.9%	5.8%
Gastroenterology	0.6%	0.8%
General surgery	4.0%	3.1%
Geriatrics	0.0%	0.4%
Hospital medicine	4.0%	4.6%
Internal medicine-general	0.9%	1.9%
Neurology	0.6%	0.0%
Neurosurgery	3.2%	4.6%
Obstetrics and gynecology	0.0%	0.4%
Occupational medicine	0.0%	0.4%
Oncology	0.0%	0.4%
Orthopaedic surgery	2.6%	4.2%
Otolaryngology	0.0%	0.4%
Pain medicine	0.3%	0.0%
Pediatrics- general	0.3%	0.8%
Physical medicine and rehabilitation	0.3%	0.0%
Plastic surgery	0.3%	0.4%
Psychiatry	0.9%	0.4%
Urology	0.3%	0.4%
All other specialties	8.2%	14.2%

Table 2d: Secondary Specialty by Principal Specialty

Secondary Specialty Area Dermatology

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	1.2%	1.3%
Critical care medicine	0.6%	0.0%
Dermatology	44.4%	47.1%
Emergency medicine	15.6%	13.5%
Family medicine/general practice	9.4%	10.3%
Gastroenterology	0.6%	0.0%
General surgery	2.5%	1.9%
Geriatrics	0.0%	0.0%
Hospital medicine	2.5%	1.3%
Internal medicine-general	2.5%	2.6%
Neurology	0.6%	0.0%
Neurosurgery	0.6%	0.0%
Obstetrics and gynecology	0.6%	0.6%
Occupational medicine	1.3%	1.3%
Oncology	0.6%	1.3%
Orthopaedic surgery	1.9%	2.6%
Otolaryngology	0.0%	0.0%
Pain medicine	0.6%	0.0%
Pediatrics- general	0.6%	0.6%
Physical medicine and rehabilitation	0.6%	0.0%
Plastic Surgery	1.3%	2.6%
Psychiatry	0.6%	1.3%
Urology	0.0%	0.6%
All other specialties	11.4%	11.1%

Table 2e: Secondary Specialty by Principal Specialty

Secondary Specialty Area Emergency medicine

Principal Specialty Area	2022	2018
Cardiology	1.5%	1.3%
Cardiothoracic and vascular surgery	1.3%	1.5%
Critical care medicine	2.6%	1.7%
Dermatology	1.0%	1.0%
Emergency medicine	45.3%	43.1%
Family medicine/general practice	11.9%	15.9%
Gastroenterology	0.3%	0.5%
General surgery	1.9%	2.5%
Geriatrics	0.3%	0.5%
Hospital medicine	4.3%	4.1%
Internal medicine-general	2.6%	2.9%
Neurology	0.4%	0.1%
Neurosurgery	0.9%	1.2%
Obstetrics and gynecology	0.6%	0.4%
Occupational medicine	1.3%	1.5%
Oncology	0.5%	0.5%
Orthopaedic surgery	6.0%	6.4%
Otolaryngology	0.4%	0.4%
Pain medicine	0.6%	0.7%
Pediatrics- general	0.8%	0.9%
Physical medicine and rehabilitation	0.2%	0.2%
Plastic Surgery	0.5%	0.6%
Psychiatry	0.7%	0.3%
Urology	0.4%	0.5%
All other specialties	13.7%	11.3%

Table 2f: Secondary Specialty by Principal Specialty

Secondary Specialty Area
Family medicine/general practice

Principal Specialty Area	2022	2018
Cardiology	0.8%	1.2%
Cardiothoracic and vascular surgery	1.0%	1.1%
Critical care medicine	1.2%	0.7%
Dermatology	1.1%	1.2%
Emergency medicine	17.0%	19.4%
Family medicine/general practice	34.0%	34.2%
Gastroenterology	1.0%	1.0%
General surgery	1.9%	1.5%
Geriatrics	1.0%	0.9%
Hospital medicine	2.7%	3.0%
Internal medicine-general	4.4%	5.5%
Neurology	0.6%	0.4%
Neurosurgery	1.0%	1.0%
Obstetrics and gynecology	0.8%	0.9%
Occupational medicine	2.1%	2.4%
Oncology	0.6%	0.8%
Orthopaedic surgery	6.1%	5.7%
Otolaryngology	0.5%	0.5%
Pain medicine	1.4%	1.5%
Pediatrics- general	1.2%	1.2%
Physical medicine and rehabilitation	0.6%	0.4%
Plastic Surgery	0.6%	0.5%
Psychiatry	2.0%	2.1%
Urology	0.9%	1.1%
All other specialties	15.5%	11.8%

Table 2g: Secondary Specialty by Principal Specialty

Secondary Specialty Area Gastroenterology

Principal Specialty Area	2022	2018
Cardiology	4.1%	6.0%
Cardiothoracic and vascular surgery	4.0%	0.0%
Critical care medicine	2.0%	0.0%
Dermatology	2.0%	4.0%
Emergency medicine	6.1%	6.0%
Family medicine/general practice	6.1%	12.0%
Gastroenterology	26.5%	24.0%
General surgery	8.2%	14.0%
Geriatrics	0.0%	0.0%
Hospital medicine	8.2%	4.0%
Internal medicine-general	8.2%	6.0%
Neurology	0.0%	0.0%
Neurosurgery	4.1%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	6.1%	4.0%
Otolaryngology	2.0%	0.0%
Pain medicine	0.0%	2.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	0.0%	0.0%
Urology	0.0%	0.0%
All other specialties	12.4%	18.0%

Table 2h: Secondary Specialty by Principal Specialty

Secondary Specialty Area

General surgery

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.3%
Cardiothoracic and vascular surgery	7.5%	9.8%
Critical care medicine	5.7%	5.3%
Dermatology	0.9%	0.6%
Emergency medicine	6.6%	9.0%
Family medicine/general practice	2.1%	3.9%
Gastroenterology	0.9%	0.0%
General surgery	34.6%	31.2%
Geriatrics	0.3%	0.3%
Hospital medicine	2.1%	1.7%
Internal medicine-general	1.5%	1.4%
Neurology	0.0%	0.0%
Neurosurgery	1.8%	3.9%
Obstetrics and gynecology	0.9%	0.6%
Occupational medicine	0.0%	0.0%
Oncology	0.6%	0.3%
Orthopaedic surgery	12.3%	9.8%
Otolaryngology	0.6%	0.3%
Pain medicine	0.6%	0.0%
Pediatrics- general	0.3%	0.0%
Physical medicine and rehabilitation	0.3%	0.0%
Plastic Surgery	2.7%	2.2%
Psychiatry	0.3%	0.0%
Urology	0.9%	1.4%
All other specialties	16.5%	18.0%

Table 2i: Secondary Specialty by Principal Specialty

Secondary Specialty Area Geriatrics

Principal Specialty Area	2022	2018
Cardiology	1.0%	1.1%
Cardiothoracic and vascular surgery	1.0%	1.1%
Critical care medicine	3.1%	1.1%
Dermatology	1.0%	2.2%
Emergency medicine	11.3%	11.8%
Family medicine/general practice	24.7%	19.4%
Gastroenterology	0.0%	1.1%
General surgery	1.0%	2.2%
Geriatrics	6.2%	10.8%
Hospital medicine	6.2%	9.7%
Internal medicine-general	18.6%	19.4%
Neurology	0.0%	0.0%
Neurosurgery	1.0%	0.0%
Obstetrics and gynecology	1.0%	0.0%
Occupational medicine	1.0%	1.1%
Oncology	1.0%	0.0%
Orthopaedic surgery	3.1%	2.2%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	1.1%
Pediatrics- general	0.0%	1.1%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	2.1%	2.2%
Urology	1.0%	1.1%
All other specialties	15.7%	11.3%

Table 2j: Secondary Specialty by Principal Specialty

Secondary Specialty Area Hospital medicine

Principal Specialty Area	2022	2018
Cardiology	5.3%	7.9%
Cardiothoracic and vascular surgery	2.7%	2.4%
Critical care medicine	7.1%	7.9%
Dermatology	0.6%	0.2%
Emergency medicine	13.4%	12.8%
Family medicine/general practice	6.8%	8.4%
Gastroenterology	1.8%	2.2%
General surgery	3.0%	2.7%
Geriatrics	0.9%	1.2%
Hospital medicine	24.5%	21.6%
Internal medicine-general	7.1%	7.1%
Neurology	1.4%	0.7%
Neurosurgery	1.2%	1.5%
Obstetrics and gynecology	0.8%	0.2%
Occupational medicine	0.6%	0.2%
Oncology	1.7%	1.7%
Orthopaedic surgery	3.2%	4.6%
Otolaryngology	0.3%	0.3%
Pain medicine	0.8%	0.2%
Pediatrics- general	0.2%	0.5%
Physical medicine and rehabilitation	0.2%	0.7%
Plastic Surgery	0.3%	0.3%
Psychiatry	0.9%	1.2%
Urology	0.6%	0.7%
All other specialties	14.6%	12.8%

Table 2k: Secondary Specialty by Principal Specialty

Secondary Specialty Area Internal medicine-general

Principal Specialty Area	2022	2018
Cardiology	2.5%	2.9%
Cardiothoracic and vascular surgery	1.4%	2.5%
Critical care medicine	2.5%	1.8%
Dermatology	2.5%	0.9%
Emergency medicine	13.0%	14.3%
Family medicine/general practice	9.6%	13.8%
Gastroenterology	1.5%	1.4%
General surgery	3.7%	2.3%
Geriatrics	2.0%	3.9%
Hospital medicine	8.6%	6.6%
Internal medicine-general	23.5%	23.6%
Neurology	1.0%	1.1%
Neurosurgery	1.5%	1.6%
Obstetrics and gynecology	1.0%	1.1%
Occupational medicine	1.5%	2.0%
Oncology	1.2%	1.1%
Orthopaedic surgery	3.9%	4.1%
Otolaryngology	0.0%	0.2%
Pain medicine	1.0%	0.5%
Pediatrics- general	1.0%	0.5%
Physical medicine and rehabilitation	0.5%	0.7%
Plastic Surgery	0.0%	0.5%
Psychiatry	1.0%	1.8%
Urology	0.7%	0.2%
All other specialties	14.9%	10.6%

Table 2I: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Neurology

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	3.0%	1.7%
Critical care medicine	3.0%	3.4%
Dermatology	1.5%	0.0%
Emergency medicine	6.0%	15.3%
Family medicine/general practice	3.0%	8.5%
Gastroenterology	1.5%	1.7%
General surgery	0.0%	1.7%
Geriatrics	1.5%	3.4%
Hospital medicine	9.0%	5.1%
Internal medicine-general	4.5%	11.9%
Neurology	26.9%	30.5%
Neurosurgery	19.4%	0.0%
Obstetrics and gynecology	1.5%	0.0%
Occupational medicine	3.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.5%	1.7%
Otolaryngology	1.5%	0.0%
Pain medicine	1.5%	0.0%
Pediatrics- general	1.5%	1.7%
Physical medicine and rehabilitation	1.5%	3.4%
Plastic Surgery	0.0%	1.7%
Psychiatry	3.0%	1.7%
Urology	0.0%	1.7%
All other specialties	5.7%	4.9%

Table 2m: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Neurosurgery

Principal Specialty Area	2022	2018
Cardiology	0.0%	1.3%
Cardiothoracic and vascular surgery	2.6%	3.9%
Critical care medicine	11.7%	8.5%
Dermatology	0.0%	0.0%
Emergency medicine	2.6%	3.9%
Family medicine/general practice	0.6%	2.0%
Gastroenterology	0.0%	0.0%
General surgery	2.6%	5.9%
Geriatrics	0.0%	0.0%
Hospital medicine	1.3%	1.3%
Internal medicine-general	1.3%	0.0%
Neurology	2.6%	4.6%
Neurosurgery	54.5%	51.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.7%
Orthopaedic surgery	5.2%	7.2%
Otolaryngology	0.0%	0.0%
Pain medicine	0.6%	0.7%
Pediatrics- general	0.0%	0.7%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	1.3%	0.0%
Psychiatry	0.6%	0.0%
Urology	0.6%	1.3%
All other specialties	11.9%	7.0%

Table 2n: Secondary Specialty by Principal Specialty

Secondary Specialty Area Obstetrics and gynecology

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	1.0%
Critical care medicine	1.0%	0.0%
Dermatology	2.0%	1.0%
Emergency medicine	9.8%	7.0%
Family medicine/general practice	6.9%	8.0%
Gastroenterology	0.0%	0.0%
General surgery	2.9%	5.0%
Geriatrics	0.0%	0.0%
Hospital medicine	2.0%	5.0%
Internal medicine-general	1.0%	2.0%
Neurology	0.0%	0.0%
Neurosurgery	1.0%	2.0%
Obstetrics and gynecology	50.0%	48.0%
Occupational medicine	2.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	3.9%	1.0%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	2.0%	4.0%
Physical medicine and rehabilitation	1.0%	1.0%
Plastic Surgery	1.0%	0.0%
Psychiatry	1.0%	0.0%
Urology	0.0%	1.0%
All other specialties	12.5%	14.0%

Table 2o: Secondary Specialty by Principal Specialty

Secondary Specialty Area Occupational medicine

Principal Specialty Area	2022	2018
Cardiology	1.0%	1.0%
Cardiothoracic and vascular surgery	0.3%	0.0%
Critical care medicine	1.7%	0.7%
Dermatology	0.7%	1.0%
Emergency medicine	23.8%	23.4%
Family medicine/general practice	17.2%	21.7%
Gastroenterology	0.7%	0.3%
General surgery	2.3%	0.7%
Geriatrics	0.7%	1.0%
Hospital medicine	2.6%	3.3%
Internal medicine-general	2.6%	3.9%
Neurology	0.3%	0.3%
Neurosurgery	0.3%	0.3%
Obstetrics and gynecology	0.7%	0.3%
Occupational medicine	14.5%	11.5%
Oncology	0.0%	0.7%
Orthopaedic surgery	3.3%	5.6%
Otolaryngology	0.7%	1.3%
Pain medicine	0.7%	0.3%
Pediatrics- general	1.0%	0.0%
Physical medicine and rehabilitation	0.3%	0.7%
Plastic Surgery	0.7%	1.0%
Psychiatry	1.0%	1.0%
Urology	0.7%	1.0%
All other specialties	22.2%	19.0%

Table 2p: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Oncology

Principal Specialty Area	2022	2018
Cardiology	2.0%	2.2%
Cardiothoracic and vascular surgery	2.0%	4.4%
Critical care medicine	4.0%	2.2%
Dermatology	0.0%	2.2%
Emergency medicine	4.0%	0.0%
Family medicine/general practice	2.0%	0.0%
Gastroenterology	0.0%	2.2%
General surgery	4.0%	4.4%
Geriatrics	0.0%	0.0%
Hospital medicine	8.0%	6.7%
Internal medicine-general	2.0%	2.2%
Neurology	4.0%	0.0%
Neurosurgery	2.0%	0.0%
Obstetrics and gynecology	2.0%	2.2%
Occupational medicine	2.0%	2.2%
Oncology	36.0%	40.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	2.2%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	4.0%	0.0%
Urology	0.0%	0.0%
All other specialties	22.0%	26.9%

Table 2q: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Orthopaedic surgery

Principal Specialty Area	2022	2018
Cardiology	0.2%	0.4%
Cardiothoracic and vascular surgery	1.5%	1.9%
Critical care medicine	0.9%	0.2%
Dermatology	0.9%	0.2%
Emergency medicine	7.9%	12.5%
Family medicine/general practice	3.6%	5.0%
Gastroenterology	0.0%	0.4%
General surgery	2.8%	4.4%
Geriatrics	0.2%	0.2%
Hospital medicine	0.6%	1.3%
Internal medicine-general	1.3%	0.7%
Neurology	0.0%	0.0%
Neurosurgery	2.6%	1.8%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.3%	0.9%
Oncology	0.2%	0.0%
Orthopaedic surgery	61.9%	59.6%
Otolaryngology	0.9%	0.9%
Pain medicine	0.4%	1.1%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	1.5%	0.9%
Plastic Surgery	0.2%	0.4%
Psychiatry	0.2%	0.0%
Urology	0.2%	0.2%
All other specialties	10.7%	7.0%

Table 2r: Secondary Specialty by Principal Specialty

Secondary Specialty Area Otolaryngology

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.0%
Dermatology	0.0%	5.7%
Emergency medicine	17.4%	14.3%
Family medicine/general practice	17.4%	11.4%
Gastroenterology	0.0%	0.0%
General surgery	4.3%	2.9%
Geriatrics	4.3%	2.9%
Hospital medicine	0.0%	0.0%
Internal medicine-general	0.0%	2.9%
Neurology	0.0%	2.9%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	2.9%
Occupational medicine	0.0%	5.7%
Oncology	0.0%	0.0%
Orthopaedic surgery	8.7%	2.9%
Otolaryngology	21.7%	20.0%
Pain medicine	0.0%	2.9%
Pediatrics- general	4.3%	2.9%
Physical medicine and rehabilitation	4.3%	0.0%
Plastic Surgery	0.0%	2.9%
Psychiatry	0.0%	2.9%
Urology	0.0%	0.0%
All other specialties	17.6%	13.9%

Table 2s: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Pain medicine

Principal Specialty Area	2022	2018
Cardiology	1.0%	0.0%
Cardiothoracic and vascular surgery	1.0%	0.0%
Critical care medicine	1.0%	1.4%
Dermatology	3.1%	1.4%
Emergency medicine	14.3%	8.6%
Family medicine/general practice	11.2%	12.9%
Gastroenterology	0.0%	0.0%
General surgery	2.0%	2.9%
Geriatrics	2.0%	1.4%
Hospital medicine	3.1%	1.4%
Internal medicine-general	5.1%	5.7%
Neurology	0.0%	0.0%
Neurosurgery	4.1%	1.4%
Obstetrics and gynecology	0.0%	1.4%
Occupational medicine	1.0%	0.0%
Oncology	1.0%	0.0%
Orthopaedic surgery	15.3%	11.4%
Otolaryngology	0.0%	0.0%
Pain medicine	15.3%	22.9%
Pediatrics- general	0.0%	1.4%
Physical medicine and rehabilitation	3.1%	1.4%
Plastic Surgery	1.0%	0.0%
Psychiatry	0.0%	1.4%
Urology	0.0%	1.4%
All other specialties	15.4%	21.6%

Table 2t: Secondary Specialty by Principal Specialty

Secondary Specialty Area Pediatrics- general

Principal Specialty Area	2022	2018
Cardiology	0.0%	0.5%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.7%	0.5%
Dermatology	0.7%	0.5%
Emergency medicine	14.4%	16.6%
Family medicine/general practice	24.0%	22.5%
Gastroenterology	0.0%	0.5%
General surgery	0.0%	0.5%
Geriatrics	0.0%	0.5%
Hospital medicine	2.1%	1.1%
Internal medicine-general	4.1%	4.3%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	2.1%	1.1%
Occupational medicine	0.7%	0.0%
Oncology	0.0%	0.5%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	1.1%
Pain medicine	0.7%	0.0%
Pediatrics- general	24.0%	25.7%
Physical medicine and rehabilitation	0.0%	0.5%
Plastic Surgery	0.7%	0.0%
Psychiatry	2.1%	2.1%
Urology	0.0%	0.0%
All other specialties	23.7%	21.5%

Table 2u: Secondary Specialty by Principal Specialty

Secondary Specialty Area Physical medicine and rehabilitation

Principal Specialty Area	2022	2018
Cardiology	0.0%	1.4%
Cardiothoracic and vascular surgery	3.1%	1.4%
Critical care medicine	1.6%	0.0%
Dermatology	1.6%	0.0%
Emergency medicine	15.6%	13.7%
Family medicine/general practice	10.9%	9.6%
Gastroenterology	3.1%	2.7%
General surgery	3.1%	0.0%
Geriatrics	6.3%	1.4%
Hospital medicine	0.0%	8.2%
Internal medicine-general	7.8%	5.5%
Neurology	1.6%	1.4%
Neurosurgery	3.1%	4.1%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	1.4%
Oncology	0.0%	0.0%
Orthopaedic surgery	9.4%	12.3%
Otolaryngology	0.0%	0.0%
Pain medicine	7.8%	6.8%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	9.4%	16.4%
Plastic Surgery	0.0%	2.7%
Psychiatry	1.6%	1.4%
Urology	0.0%	0.0%
All other specialties	14.0%	9.6%

Table 2v: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Plastic surgery

Principal Specialty Area	2022	2018
Cardiology	1.1%	0.0%
Cardiothoracic and vascular surgery	6.9%	2.8%
Critical care medicine	2.3%	1.4%
Dermatology	5.7%	1.4%
Emergency medicine	12.6%	26.1%
Family medicine/general practice	2.3%	5.8%
Gastroenterology	0.0%	0.0%
General surgery	10.3%	7.2%
Geriatrics	0.0%	0.0%
Hospital medicine	0.0%	0.0%
Internal medicine-general	0.0%	2.9%
Neurology	0.0%	0.0%
Neurosurgery	2.3%	4.3%
Obstetrics and gynecology	0.0%	2.9%
Occupational medicine	0.0%	1.4%
Oncology	0.0%	0.0%
Orthopaedic surgery	16.1%	7.2%
Otolaryngology	10.3%	1.4%
Pain medicine	2.3%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	1.4%
Plastic Surgery	23.0%	26.1%
Psychiatry	0.0%	0.0%
Urology	0.0%	1.4%
All other specialties	4.8%	6.3%

Table 2w: Secondary Specialty by Principal Specialty

Secondary Specialty Area Psychiatry

Principal Specialty Area	2022	2018
Cardiology	1.4%	1.7%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.4%	0.8%
Dermatology	1.4%	0.8%
Emergency medicine	6.0%	6.7%
Family medicine/general practice	13.4%	14.6%
Gastroenterology	0.4%	0.0%
General surgery	0.7%	0.8%
Geriatrics	0.7%	0.8%
Hospital medicine	1.1%	2.1%
Internal medicine-general	1.4%	3.8%
Neurology	0.4%	0.8%
Neurosurgery	0.4%	0.8%
Obstetrics and gynecology	1.4%	0.8%
Occupational medicine	0.7%	0.4%
Oncology	0.7%	0.4%
Orthopaedic surgery	2.5%	2.1%
Otolaryngology	0.0%	0.4%
Pain medicine	1.4%	0.8%
Pediatrics- general	0.7%	0.8%
Physical medicine and rehabilitation	0.0%	0.4%
Plastic Surgery	0.4%	0.8%
Psychiatry	52.7%	46.0%
Urology	0.0%	0.4%
All other specialties	11.8%	13.0%

Table 2x: Secondary Specialty by Principal Specialty

Secondary Specialty Area

Urology

Principal Specialty Area	2022	2018
Cardiology	0.0%	2.3%
Cardiothoracic and vascular surgery	7.3%	4.5%
Critical care medicine	0.0%	0.0%
Dermatology	0.0%	0.0%
Emergency medicine	7.3%	6.8%
Family medicine/general practice	9.8%	15.9%
Gastroenterology	2.4%	0.0%
General surgery	9.8%	9.1%
Geriatrics	0.0%	0.0%
Hospital medicine	0.0%	2.3%
Internal medicine-general	4.9%	4.5%
Neurology	0.0%	0.0%
Neurosurgery	4.9%	0.0%
Obstetrics and gynecology	2.4%	2.3%
Occupational medicine	0.0%	0.0%
Oncology	2.4%	0.0%
Orthopaedic surgery	2.4%	2.3%
Otolaryngology	0.0%	0.0%
Pain medicine	2.4%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	4.9%	0.0%
Urology	19.5%	25.0%
All other specialties	19.6%	25.0%

Table 2y: Secondary Specialty by Principal Specialty

Secondary Specialty Area
All other specialties

Principal Specialty Area	2022	2018
Cardiology	3.0%	1.2%
Cardiothoracic and vascular surgery	3.2%	2.0%
Critical care medicine	1.8%	1.9%
Dermatology	4.4%	1.9%
Emergency medicine	10.1%	18.2%
Family medicine/general practice	17.5%	20.4%
Gastroenterology	1.8%	0.9%
General surgery	3.0%	2.5%
Geriatrics	0.8%	0.7%
Hospital medicine	3.6%	3.3%
Internal medicine-general	4.1%	4.8%
Neurology	1.1%	0.4%
Neurosurgery	2.1%	1.3%
Obstetrics and gynecology	1.2%	1.1%
Occupational medicine	1.3%	2.1%
Oncology	1.7%	0.9%
Orthopaedic surgery	10.9%	5.6%
Otolaryngology	1.1%	0.9%
Pain medicine	1.5%	1.0%
Pediatrics- general	1.8%	1.3%
Physical medicine and rehabilitation	0.6%	0.7%
Plastic Surgery	1.0%	0.7%
Psychiatry	2.2%	1.3%
Urology	1.1%	1.1%
All other specialties	19.1%	23.8%

Table 3: Across all principal specialties, hours spent in secondary specialty

Principal Specialty Area	Median Hours Spent in a Secondary Position- 2022	Median Hours Spent in a Secondary Position- 2018	Mean Hours Spent in a Secondary Position- 2022	Mean Hours Spent in a Secondary Position- 2018
Cardiology	8	10	10	10
Cardiothoracic and vascular surgery	10	10	11	11
Critical care medicine	12	10	13	12
Dermatology	8	8	10	10
Emergency medicine	10	10	12	12
Family medicine/general practice	8	8	11	10
Gastroenterology	10	8	9	10
General surgery	10	10	11	10
Geriatrics	10	9	10	11
Hospital medicine	10	10	12	12
Internal medicine-general	10	10	12	11
Neurology	8	10	10	12
Neurosurgery	10	10	12	12
Obstetrics and gynecology	10	8	11	10
Occupational medicine	8	8	10	10
Oncology	8	8	8	9
Orthopaedic surgery	8	8	10	10
Otolaryngology	8	8	11	9
Pain medicine	8	8	10	10
Pediatrics- general	9	8	11	10
Physical medicine and rehabilitation	10	8	11	9
Plastic surgery	8	8	9	9
Psychiatry	8	10	11	11
Urology	8	8	11	9
All other specialties	8	9	11	10

Table 4: Across all secondary specialties, hours spent in the secondary position

Secondary Specialty Area	Median Hours Spent in a Secondary Position- 2022	Median Hours Spent in a Secondary Position- 2018	Mean Hours Spent in a Secondary Position- 2022	Mean Hours Spent in a Secondary Position- 2018
Cardiology	10	10	10	11
Cardiothoracic and vascular surgery	10	10	11	11
Critical care medicine	12	12	13	12
Dermatology	9	8	11	11
Emergency medicine	10	10	11	11
Family medicine/general practice	8	8	11	11
Gastroenterology	10	9	13	11
General surgery	10	10	11	10
Geriatrics	10	10	11	12
Hospital medicine	10	10	12	12
Internal medicine-general	10	10	12	12
Neurology	12	10	13	12
Neurosurgery	10	10	12	13
Obstetrics and gynecology	10	10	12	11
Occupational medicine	8	8	11	10
Oncology	10	10	11	11
Orthopaedic surgery	8	8	10	10
Otolaryngology	10	9	12	11
Pain medicine	10	10	12	13
Pediatrics- general	9	8	11	9
Physical medicine and rehabilitation	8	8	10	11
Plastic surgery	8	8	11	11
Psychiatry	10	10	12	12
Urology	10	10	15	14
All other specialties	8	8	11	10

Table 5: Reasons PAs have a Secondary Clinical Position

Principal Specialty	Enjoy working in a variety of clinical settings	To gain experience in a different aspect of clinical care	To supplement the earnings from my principal clinical PA position	Was not offered full-time work in my principal position	Other*
Cardiology	25.7%	23.2%	43.4%	0.7%	7.0%
Cardiothoracic and vascular surgery	23.1%	20.3%	48.5%	0.5%	7.6%
Critical care medicine	22.8%	21.7%	50.4%	0.2%	4.9%
Dermatology	34.4%	19.9%	34.0%	4.1%	7.5%
Emergency medicine	27.2%	14.2%	48.7%	1.5%	8.4%
Family medicine/general practice	26.6%	16.3%	44.6%	1.9%	10.5%
Gastroenterology	21.4%	26.5%	40.8%	4.1%	7.1%
General surgery	23.7%	23.1%	46.3%	0.4%	6.4%
Geriatrics	27.2%	16.0%	48.1%	1.2%	7.4%
Hospital medicine	25.8%	19.6%	45.9%	1.4%	7.4%
Internal medicine-general	27.4%	20.7%	42.6%	2.3%	6.9%
Neurology	20.2%	26.2%	41.7%	3.6%	8.3%
Neurosurgery	18.4%	23.8%	52.0%	0.4%	5.5%
Obstetrics and gynecology	31.0%	21.8%	38.0%	5.6%	3.5%
Occupational medicine	28.6%	13.2%	40.5%	2.7%	15.0%
Oncology	29.2%	19.8%	46.2%	0.0%	4.7%
Orthopaedic surgery	20.0%	18.8%	50.3%	0.5%	10.4%
Otolaryngology	33.9%	25.8%	35.5%	1.6%	3.2%
Pain medicine	27.2%	19.7%	42.9%	5.4%	4.8%
Pediatrics- general	27.8%	20.5%	39.1%	4.6%	7.9%
Physical medicine and rehabilitation	24.6%	15.8%	42.1%	3.5%	14.0%
Plastic surgery	28.3%	20.8%	45.3%	1.9%	3.8%
Psychiatry	30.6%	18.7%	41.2%	2.4%	7.1%
Urology	21.7%	16.3%	51.1%	0.0%	10.9%
All other specialties	26.6%	18.3%	42.7%	2.9%	9.5%

*Most common other responses: national guard or reserve duty, wants to work in a free clinic, wants to work locum tenens, maintain privileges at more than one location, increase benefits (ie. Insurance), and flexibility.