



# 2021 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	2021	2017
<b>Cardiology</b>	<b>25.1%</b>	<b>22.0%</b>
Cardiothoracic and vascular surgery	3.6%	2.0%
Critical care medicine	2.4%	1.6%
Dermatology	0.0%	0.0%
Emergency medicine	19.0%	17.6%
Family medicine/general practice	4.9%	9.4%
Gastroenterology	0.8%	1.2%
General surgery	0.8%	0.4%
Geriatrics	0.8%	0.8%
Hospital medicine	11.7%	18.4%
Internal medicine-general	3.6%	5.3%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	0.8%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.2%	0.8%
Oncology	0.4%	0.4%
Orthopaedic surgery	0.8%	0.4%
Otolaryngology	0.0%	0.0%
Pain medicine	0.4%	0.0%
Pediatrics- general	0.4%	0.8%
Physical medicine and rehabilitation	0.4%	0.4%
Plastic surgery	0.4%	0.0%
Psychiatry	1.2%	0.8%
Urology	0.4%	0.4%
All other specialties	21.7%	16.5%

# Table 1b: Principal Specialty by Secondary Specialty

## Principal Specialty Area Cardiothoracic and vascular surgery

Secondary Specialty Area	2021	2017
Cardiology	3.8%	3.3%
<b>Cardiothoracic and vascular surgery</b>	<b>35.6%</b>	<b>29.8%</b>
Critical care medicine	7.9%	8.9%
Dermatology	0.5%	0.5%
Emergency medicine	11.5%	15.8%
Family medicine/general practice	4.1%	4.1%
Gastroenterology	0.5%	0.3%
General surgery	7.6%	7.6%
Geriatrics	0.0%	0.5%
Hospital medicine	4.1%	3.8%
Internal medicine-general	1.8%	3.1%
Neurology	0.5%	0.3%
Neurosurgery	0.8%	1.3%
Obstetrics and gynecology	0.0%	0.8%
Occupational medicine	0.5%	0.3%
Oncology	0.3%	0.3%
Orthopaedic surgery	1.5%	2.8%
Otolaryngology	0.0%	0.0%
Pain medicine	0.8%	0.0%
Pediatrics- general	0.0%	0.3%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic surgery	0.8%	0.5%
Psychiatry	0.0%	0.3%
Urology	0.8%	0.8%
All other specialties	16.6%	14.6%



# Table 1c: Principal Specialty by Secondary Specialty

## Principal Specialty Area Critical care medicine

Secondary Specialty Area	2021	2017
Cardiology	3.4%	5.8%
Cardiothoracic and vascular surgery	2.7%	3.4%
<b>Critical care medicine</b>	<b>28.1%</b>	<b>22.6%</b>
Dermatology	0.5%	0.3%
Emergency medicine	19.0%	19.3%
Family medicine/general practice	4.7%	4.0%
Gastroenterology	0.2%	0.0%
General surgery	4.7%	5.5%
Geriatrics	0.7%	0.3%
Hospital medicine	11.8%	14.1%
Internal medicine-general	2.5%	2.4%
Neurology	0.5%	0.9%
Neurosurgery	3.9%	2.4%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.5%	1.2%
Oncology	0.7%	0.3%
Orthopaedic surgery	0.5%	0.0%
Otolaryngology	0.0%	0.0%
Pain medicine	0.2%	0.6%
Pediatrics- general	0.2%	0.3%
Physical medicine and rehabilitation	0.2%	0.0%
Plastic surgery	0.5%	0.6%
Psychiatry	0.2%	0.3%
Urology	0.0%	0.0%
All other specialties	14.3%	15.7%

# Table 1d: Principal Specialty by Secondary Specialty

## Principal Specialty Area Dermatology

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.9%
Cardiothoracic and vascular surgery	1.3%	0.9%
Critical care medicine	0.4%	1.4%
<b>Dermatology</b>	<b>32.7%</b>	<b>32.3%</b>
Emergency medicine	15.0%	17.1%
Family medicine/general practice	7.5%	11.5%
Gastroenterology	1.3%	0.9%
General surgery	0.9%	0.5%
Geriatrics	0.4%	0.9%
Hospital medicine	0.9%	0.0%
Internal medicine-general	4.0%	2.3%
Neurology	0.4%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.4%	0.5%
Occupational medicine	1.8%	1.4%
Oncology	0.0%	0.5%
Orthopaedic surgery	0.9%	0.5%
Otolaryngology	0.9%	0.9%
Pain medicine	1.3%	0.5%
Pediatrics- general	0.4%	0.5%
Physical medicine and rehabilitation	0.4%	0.0%
Plastic Surgery	1.3%	0.5%
Psychiatry	0.9%	0.5%
Urology	0.0%	0.5%
All other specialties	26.9%	25.0%

# Table 1e: Principal Specialty by Secondary Specialty

## Principal Specialty Area Emergency medicine

Secondary Specialty Area	2021	2017
Cardiology	0.5%	0.4%
Cardiothoracic and vascular surgery	0.3%	0.2%
Critical care medicine	1.4%	0.7%
Dermatology	1.0%	0.6%
<b>Emergency medicine</b>	<b>50.5%</b>	<b>53.1%</b>
Family medicine/general practice	9.2%	10.9%
Gastroenterology	0.1%	0.1%
General surgery	0.8%	1.1%
Geriatrics	0.4%	0.3%
Hospital medicine	2.9%	2.7%
Internal medicine-general	1.7%	2.3%
Neurology	0.1%	0.2%
Neurosurgery	0.1%	0.3%
Obstetrics and gynecology	0.3%	0.1%
Occupational medicine	2.4%	2.6%
Oncology	0.1%	0.0%
Orthopaedic surgery	1.4%	1.7%
Otolaryngology	0.2%	0.1%
Pain medicine	0.4%	0.2%
Pediatrics- general	0.8%	1.0%
Physical medicine and rehabilitation	0.3%	0.3%
Plastic Surgery	0.5%	0.6%
Psychiatry	0.7%	0.6%
Urology	0.1%	0.1%
All other specialties	23.8%	19.8%

# Table 1f: Principal Specialty by Secondary Specialty

## Principal Specialty Area Family medicine/general practice

Secondary Specialty Area	2021	2017
Cardiology	0.3%	0.6%
Cardiothoracic and vascular surgery	0.2%	0.0%
Critical care medicine	0.9%	0.6%
Dermatology	0.9%	0.9%
Emergency medicine	22.7%	26.9%
<b>Family medicine/general practice</b>	<b>24.2%</b>	<b>26.3%</b>
Gastroenterology	0.1%	0.3%
General surgery	0.5%	0.5%
Geriatrics	1.2%	0.7%
Hospital medicine	2.5%	2.2%
Internal medicine-general	1.9%	2.2%
Neurology	0.2%	0.2%
Neurosurgery	0.1%	0.2%
Obstetrics and gynecology	0.5%	0.4%
Occupational medicine	3.3%	3.0%
Oncology	0.1%	0.0%
Orthopaedic surgery	0.8%	0.9%
Otolaryngology	0.3%	0.2%
Pain medicine	0.6%	0.4%
Pediatrics- general	1.7%	1.9%
Physical medicine and rehabilitation	0.3%	0.4%
Plastic Surgery	0.1%	0.1%
Psychiatry	1.7%	1.9%
Urology	0.2%	0.2%
All other specialties	34.7%	29.0%



# Table 1g: Principal Specialty by Secondary Specialty

## Principal Specialty Area Gastroenterology

Secondary Specialty Area	2021	2017
Cardiology	1.0%	1.0%
Cardiothoracic and vascular surgery	1.0%	2.0%
Critical care medicine	3.0%	1.0%
Dermatology	1.0%	0.0%
Emergency medicine	10.1%	16.8%
Family medicine/general practice	13.1%	12.9%
<b>Gastroenterology</b>	<b>12.1%</b>	<b>11.9%</b>
General surgery	3.0%	1.0%
Geriatrics	0.0%	0.0%
Hospital medicine	12.1%	10.9%
Internal medicine-general	5.1%	6.9%
Neurology	1.0%	1.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	2.0%	1.0%
Oncology	0.0%	1.0%
Orthopaedic surgery	0.0%	1.0%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	1.0%
Physical medicine and rehabilitation	2.0%	2.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.0%	0.0%
Urology	1.0%	0.0%
All other specialties	31.5%	28.6%

# Table 1h: Principal Specialty by Secondary Specialty

## Principal Specialty Area General surgery

Secondary Specialty Area	2021	2017
Cardiology	0.5%	0.7%
Cardiothoracic and vascular surgery	2.1%	2.5%
Critical care medicine	3.2%	2.5%
Dermatology	0.7%	0.7%
Emergency medicine	14.9%	19.2%
Family medicine/general practice	6.7%	6.6%
Gastroenterology	0.9%	2.0%
<b>General surgery</b>	<b>24.6%</b>	<b>26.8%</b>
Geriatrics	0.7%	0.2%
Hospital medicine	4.4%	3.9%
Internal medicine-general	2.8%	2.9%
Neurology	0.2%	0.2%
Neurosurgery	0.7%	2.5%
Obstetrics and gynecology	0.7%	0.5%
Occupational medicine	1.1%	0.5%
Oncology	0.5%	0.2%
Orthopaedic surgery	4.4%	5.2%
Otolaryngology	0.2%	0.2%
Pain medicine	0.7%	0.2%
Pediatrics- general	0.2%	0.2%
Physical medicine and rehabilitation	0.2%	0.0%
Plastic Surgery	1.4%	2.0%
Psychiatry	0.5%	0.5%
Urology	1.1%	0.7%
All other specialties	26.6%	19.1%

# Table 1i: Principal Specialty by Secondary Specialty

## Principal Specialty Area Geriatrics

Secondary Specialty Area	2021	2017
Cardiology	0.0%	1.0%
Cardiothoracic and vascular surgery	1.3%	1.0%
Critical care medicine	1.3%	1.0%
Dermatology	0.0%	0.0%
Emergency medicine	16.7%	17.0%
Family medicine/general practice	11.5%	13.0%
Gastroenterology	1.3%	0.0%
General surgery	2.6%	2.0%
<b>Geriatrics</b>	<b>10.3%</b>	<b>8.0%</b>
Hospital medicine	6.4%	11.0%
Internal medicine-general	10.3%	17.0%
Neurology	1.3%	2.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	3.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.3%	1.0%
Otolaryngology	1.3%	0.0%
Pain medicine	2.6%	0.0%
Pediatrics- general	0.0%	2.0%
Physical medicine and rehabilitation	2.6%	2.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	3.8%	2.0%
Urology	0.0%	0.0%
All other specialties	25.4%	17.0%

# Table 1j: Principal Specialty by Secondary Specialty

## Principal Specialty Area Hospital medicine

Secondary Specialty Area	2021	2017
Cardiology	2.9%	3.8%
Cardiothoracic and vascular surgery	0.4%	0.9%
Critical care medicine	2.9%	1.8%
Dermatology	0.9%	0.2%
Emergency medicine	23.3%	25.4%
Family medicine/general practice	6.6%	8.8%
Gastroenterology	0.5%	0.5%
General surgery	1.6%	0.7%
Geriatrics	1.3%	1.4%
<b>Hospital medicine</b>	<b>26.7%</b>	<b>24.2%</b>
Internal medicine-general	5.7%	6.1%
Neurology	1.1%	0.7%
Neurosurgery	0.4%	0.5%
Obstetrics and gynecology	0.4%	0.7%
Occupational medicine	1.8%	1.1%
Oncology	0.7%	0.5%
Orthopaedic surgery	1.1%	1.3%
Otolaryngology	0.0%	0.0%
Pain medicine	0.4%	0.2%
Pediatrics- general	0.4%	0.4%
Physical medicine and rehabilitation	0.2%	0.9%
Plastic Surgery	0.0%	0.4%
Psychiatry	1.1%	1.1%
Urology	0.0%	0.2%
All other specialties	19.6%	18.2%

# Table 1k: Principal Specialty by Secondary Specialty

## Principal Specialty Area Internal medicine-general

Secondary Specialty Area	2021	2017
Cardiology	1.5%	1.9%
Cardiothoracic and vascular surgery	0.2%	0.4%
Critical care medicine	0.4%	0.9%
Dermatology	0.7%	1.0%
Emergency medicine	16.0%	18.6%
Family medicine/general practice	12.8%	13.4%
Gastroenterology	0.7%	0.5%
General surgery	1.3%	0.7%
Geriatrics	4.5%	3.3%
Hospital medicine	8.9%	8.2%
<b>Internal medicine-general</b>	<b>15.6%</b>	<b>17.7%</b>
Neurology	0.6%	0.7%
Neurosurgery	0.2%	0.0%
Obstetrics and gynecology	0.0%	0.2%
Occupational medicine	0.9%	2.6%
Oncology	0.2%	0.2%
Orthopaedic surgery	1.1%	1.0%
Otolaryngology	0.0%	0.2%
Pain medicine	0.9%	0.5%
Pediatrics- general	0.9%	1.0%
Physical medicine and rehabilitation	0.9%	1.0%
Plastic Surgery	0.6%	0.2%
Psychiatry	1.5%	2.2%
Urology	0.4%	0.2%
All other specialties	29.2%	23.4%

# Table 11: Principal Specialty by Secondary Specialty

## Principal Specialty Area

### Neurology

Secondary Specialty Area	2021	2017
Cardiology	1.3%	0.0%
Cardiothoracic and vascular surgery	0.0%	1.6%
Critical care medicine	1.3%	0.0%
Dermatology	1.3%	0.0%
Emergency medicine	13.2%	7.8%
Family medicine/general practice	9.2%	15.6%
Gastroenterology	0.0%	1.6%
General surgery	0.0%	1.6%
Geriatrics	0.0%	1.6%
Hospital medicine	11.8%	6.3%
Internal medicine-general	5.3%	6.3%
<b>Neurology</b>	<b>21.1%</b>	<b>25.0%</b>
Neurosurgery	7.9%	9.4%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.3%	1.6%
Oncology	1.3%	0.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	0.0%
Pain medicine	1.3%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	1.6%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.3%	0.0%
Urology	0.0%	0.0%
All other specialties	22.4%	20.0%



# Table 1m: Principal Specialty by Secondary Specialty

## Principal Specialty Area Neurosurgery

Secondary Specialty Area	2021	2017
Cardiology	1.3%	0.9%
Cardiothoracic and vascular surgery	0.0%	1.3%
Critical care medicine	5.4%	2.6%
Dermatology	0.4%	0.4%
Emergency medicine	11.3%	17.6%
Family medicine/general practice	6.7%	6.4%
Gastroenterology	0.4%	0.0%
General surgery	4.2%	4.7%
Geriatrics	0.4%	0.0%
Hospital medicine	2.5%	4.3%
Internal medicine-general	3.3%	2.1%
Neurology	5.0%	0.4%
<b>Neurosurgery</b>	<b>29.7%</b>	<b>33.9%</b>
Obstetrics and gynecology	0.4%	0.9%
Occupational medicine	0.8%	0.0%
Oncology	0.4%	0.0%
Orthopaedic surgery	5.4%	4.7%
Otolaryngology	0.0%	0.0%
Pain medicine	1.3%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.8%	1.7%
Plastic Surgery	0.8%	0.9%
Psychiatry	0.8%	0.4%
Urology	0.4%	0.0%
All other specialties	18.3%	16.8%

# Table 1n: Principal Specialty by Secondary Specialty

## Principal Specialty Area Obstetrics and gynecology

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.8%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.8%
Dermatology	0.7%	0.0%
Emergency medicine	14.6%	11.3%
Family medicine/general practice	7.6%	14.3%
Gastroenterology	0.0%	0.8%
General surgery	2.1%	0.8%
Geriatrics	0.7%	0.0%
Hospital medicine	2.8%	0.8%
Internal medicine-general	3.5%	3.8%
Neurology	0.7%	0.0%
Neurosurgery	0.0%	0.0%
<b>Obstetrics and gynecology</b>	<b>36.1%</b>	<b>34.6%</b>
Occupational medicine	0.0%	1.5%
Oncology	0.7%	0.8%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	0.8%
Pain medicine	1.4%	0.8%
Pediatrics- general	2.8%	1.5%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.7%	1.5%
Psychiatry	2.8%	1.5%
Urology	0.0%	0.8%
All other specialties	22.8%	22.8%

# Table 1o: Principal Specialty by Secondary Specialty

## Principal Specialty Area Occupational medicine

Secondary Specialty Area	2021	2017
Cardiology	0.5%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.0%
Dermatology	0.5%	0.9%
Emergency medicine	19.7%	26.5%
Family medicine/general practice	15.4%	18.8%
Gastroenterology	0.0%	0.0%
General surgery	0.0%	0.9%
Geriatrics	0.0%	0.0%
Hospital medicine	1.4%	0.4%
Internal medicine-general	3.4%	4.9%
Neurology	0.5%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.4%
<b>Occupational medicine</b>	<b>20.7%</b>	<b>14.3%</b>
Oncology	0.5%	0.4%
Orthopaedic surgery	1.0%	2.2%
Otolaryngology	0.5%	0.4%
Pain medicine	1.0%	0.4%
Pediatrics- general	1.0%	0.0%
Physical medicine and rehabilitation	0.0%	1.3%
Plastic Surgery	0.0%	0.4%
Psychiatry	0.5%	0.0%
Urology	0.0%	0.0%
All other specialties	33.4%	27.8%

# Table 1p: Principal Specialty by Secondary Specialty

## Principal Specialty Area Oncology

Secondary Specialty Area	2021	2017
Cardiology	1.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.0%
Dermatology	1.0%	2.1%
Emergency medicine	13.9%	16.5%
Family medicine/general practice	9.9%	14.4%
Gastroenterology	0.0%	0.0%
General surgery	2.0%	2.1%
Geriatrics	0.0%	0.0%
Hospital medicine	10.9%	12.4%
Internal medicine-general	4.0%	5.2%
Neurology	0.0%	0.0%
Neurosurgery	2.0%	1.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.0%	2.1%
<b>Oncology</b>	<b>16.8%</b>	<b>13.4%</b>
Orthopaedic surgery	1.0%	0.0%
Otolaryngology	0.0%	0.0%
Pain medicine	1.0%	0.0%
Pediatrics- general	1.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	1.0%	1.0%
Urology	1.0%	0.0%
All other specialties	32.5%	29.8%

# Table 1q: Principal Specialty by Secondary Specialty

## Principal Specialty Area Orthopaedic surgery

Secondary Specialty Area	2021	2017
Cardiology	0.2%	0.3%
Cardiothoracic and vascular surgery	0.3%	0.7%
Critical care medicine	1.1%	0.4%
Dermatology	0.5%	0.5%
Emergency medicine	22.0%	25.5%
Family medicine/general practice	9.6%	9.8%
Gastroenterology	0.4%	0.2%
General surgery	3.6%	4.1%
Geriatrics	0.0%	0.2%
Hospital medicine	2.2%	2.7%
Internal medicine-general	1.9%	2.3%
Neurology	0.1%	0.1%
Neurosurgery	1.3%	1.5%
Obstetrics and gynecology	0.4%	0.2%
Occupational medicine	1.1%	2.0%
Oncology	0.0%	0.0%
<b>Orthopaedic surgery</b>	<b>29.1%</b>	<b>27.3%</b>
Otolaryngology	0.2%	0.1%
Pain medicine	1.1%	0.2%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.7%	1.0%
Plastic Surgery	1.0%	0.4%
Psychiatry	0.6%	0.8%
Urology	0.1%	0.2%
All other specialties	22.5%	19.5%

# Table 1r: Principal Specialty by Secondary Specialty

## Principal Specialty Area Otolaryngology

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	1.4%
Dermatology	0.0%	0.0%
Emergency medicine	23.1%	22.2%
Family medicine/general practice	13.8%	8.3%
Gastroenterology	1.5%	0.0%
General surgery	3.1%	0.0%
Geriatrics	0.0%	0.0%
Hospital medicine	1.5%	2.8%
Internal medicine-general	3.1%	1.4%
Neurology	1.5%	0.0%
Neurosurgery	1.5%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	1.5%	4.2%
Oncology	0.0%	1.4%
Orthopaedic surgery	6.2%	4.2%
<b>Otolaryngology</b>	<b>6.2%</b>	<b>9.7%</b>
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	1.4%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	3.1%	2.8%
Psychiatry	0.0%	2.8%
Urology	0.0%	0.0%
All other specialties	33.9%	37.4%



# Table 1s: Principal Specialty by Secondary Specialty

## Principal Specialty Area

### Pain medicine

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.9%
Cardiothoracic and vascular surgery	0.0%	0.9%
Critical care medicine	0.8%	0.0%
Dermatology	0.0%	0.0%
Emergency medicine	13.3%	21.4%
Family medicine/general practice	14.1%	18.8%
Gastroenterology	0.0%	0.9%
General surgery	2.3%	0.0%
Geriatrics	0.0%	1.8%
Hospital medicine	3.1%	0.9%
Internal medicine-general	3.9%	1.8%
Neurology	0.0%	0.0%
Neurosurgery	0.8%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	2.3%	1.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	3.9%	4.5%
Otolaryngology	0.0%	0.9%
<b>Pain medicine</b>	<b>9.4%</b>	<b>11.6%</b>
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	3.1%	2.7%
Plastic Surgery	1.6%	0.0%
Psychiatry	2.3%	0.9%
Urology	0.0%	0.9%
All other specialties	39.1%	29.3%

# Table 1t: Principal Specialty by Secondary Specialty

## Principal Specialty Area Pediatrics- general

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.7%	0.0%
Critical care medicine	0.0%	1.2%
Dermatology	1.4%	0.6%
Emergency medicine	19.0%	18.5%
Family medicine/general practice	12.0%	13.3%
Gastroenterology	0.0%	0.0%
General surgery	0.7%	0.0%
Geriatrics	0.0%	0.6%
Hospital medicine	1.4%	2.3%
Internal medicine-general	2.1%	2.3%
Neurology	0.0%	0.6%
Neurosurgery	0.7%	0.0%
Obstetrics and gynecology	1.4%	2.3%
Occupational medicine	0.7%	1.2%
Oncology	0.0%	0.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	1.4%	0.6%
Pain medicine	0.7%	0.6%
<b>Pediatrics- general</b>	<b>25.4%</b>	<b>26.6%</b>
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	2.1%	1.2%
Urology	0.0%	0.0%
All other specialties	30.3%	28.1%

# Table 1u: Principal Specialty by Secondary Specialty

## Principal Specialty Area Physical medicine and rehabilitation

Secondary Specialty Area	2021	2017
Cardiology	1.9%	1.3%
Cardiothoracic and vascular surgery	0.0%	1.3%
Critical care medicine	0.0%	0.0%
Dermatology	1.9%	0.0%
Emergency medicine	7.4%	19.5%
Family medicine/general practice	14.8%	15.6%
Gastroenterology	0.0%	0.0%
General surgery	0.0%	0.0%
Geriatrics	0.0%	1.3%
Hospital medicine	3.7%	3.9%
Internal medicine-general	1.9%	3.9%
Neurology	0.0%	2.6%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	1.9%	1.3%
Occupational medicine	1.9%	2.6%
Oncology	0.0%	0.0%
Orthopaedic surgery	11.1%	2.6%
Otolaryngology	1.9%	0.0%
Pain medicine	3.7%	3.9%
Pediatrics- general	0.0%	1.3%
<b>Physical medicine and rehabilitation</b>	<b>13.0%</b>	<b>15.6%</b>
Plastic Surgery	1.9%	0.0%
Psychiatry	0.0%	0.0%
Urology	0.0%	0.0%
All other specialties	33.0%	23.3%

# Table 1v: Principal Specialty by Secondary Specialty

## Principal Specialty Area Plastic surgery

Secondary Specialty Area	2021	2017
Cardiology	2.0%	1.0%
Cardiothoracic and vascular surgery	1.0%	3.1%
Critical care medicine	1.0%	1.0%
Dermatology	1.0%	5.2%
Emergency medicine	14.0%	22.9%
Family medicine/general practice	10.0%	5.2%
Gastroenterology	1.0%	0.0%
General surgery	11.0%	9.4%
Geriatrics	0.0%	0.0%
Hospital medicine	3.0%	1.0%
Internal medicine-general	0.0%	2.1%
Neurology	1.0%	0.0%
Neurosurgery	1.0%	1.0%
Obstetrics and gynecology	2.0%	0.0%
Occupational medicine	0.0%	2.1%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.0%	1.0%
Otolaryngology	0.0%	1.0%
Pain medicine	2.0%	0.0%
Pediatrics- general	1.0%	0.0%
Physical medicine and rehabilitation	0.0%	2.1%
<b>Plastic Surgery</b>	<b>19.0%</b>	<b>14.6%</b>
Psychiatry	1.0%	2.1%
Urology	0.0%	0.0%
All other specialties	28.0%	25.2%

# Table 1w: Principal Specialty by Secondary Specialty

## Principal Specialty Area Psychiatry

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	1.0%	0.5%
Dermatology	0.3%	0.9%
Emergency medicine	7.4%	4.1%
Family medicine/general practice	9.1%	15.6%
Gastroenterology	0.3%	0.0%
General surgery	0.0%	0.0%
Geriatrics	0.7%	1.4%
Hospital medicine	2.0%	2.8%
Internal medicine-general	2.0%	4.6%
Neurology	1.0%	0.5%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.7%	1.4%
Oncology	1.0%	0.0%
Orthopaedic surgery	0.3%	0.5%
Otolaryngology	0.0%	0.5%
Pain medicine	0.0%	0.5%
Pediatrics- general	1.0%	2.3%
Physical medicine and rehabilitation	0.3%	0.0%
Plastic Surgery	0.0%	0.0%
<b>Psychiatry</b>	<b>44.4%</b>	<b>47.7%</b>
Urology	0.3%	0.0%
All other specialties	28.2%	16.7%

# Table 1x: Principal Specialty by Secondary Specialty

## Principal Specialty Area Urology

Secondary Specialty Area	2021	2017
Cardiology	0.0%	0.9%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	1.1%	0.9%
Dermatology	0.0%	0.9%
Emergency medicine	16.1%	18.7%
Family medicine/general practice	17.2%	18.7%
Gastroenterology	0.0%	0.0%
General surgery	4.6%	2.8%
Geriatrics	1.1%	0.9%
Hospital medicine	3.4%	4.7%
Internal medicine-general	3.4%	1.9%
Neurology	0.0%	0.9%
Neurosurgery	1.1%	1.9%
Obstetrics and gynecology	0.0%	0.9%
Occupational medicine	1.1%	2.8%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.1%	0.9%
Otolaryngology	0.0%	0.9%
Pain medicine	0.0%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.9%
Psychiatry	1.1%	0.0%
<b>Urology</b>	<b>9.2%</b>	<b>12.1%</b>
All other specialties	39.5%	28.3%



# Table 1y: Principal Specialty by Secondary Specialty

**Principal Specialty Area**  
**All other specialties**

Secondary Specialty Area	2021	2017
Cardiology	0.9%	0.7%
Cardiothoracic and vascular surgery	0.8%	1.1%
Critical care medicine	1.6%	1.5%
Dermatology	0.8%	1.1%
Emergency medicine	20.4%	22.0%
Family medicine/general practice	9.9%	10.9%
Gastroenterology	0.4%	0.6%
General surgery	2.4%	3.1%
Geriatrics	0.5%	0.7%
Hospital medicine	4.2%	3.9%
Internal medicine-general	2.7%	3.2%
Neurology	0.2%	0.1%
Neurosurgery	0.6%	0.6%
Obstetrics and gynecology	0.5%	0.8%
Occupational medicine	2.7%	3.2%
Oncology	0.4%	0.7%
Orthopaedic surgery	1.9%	2.0%
Otolaryngology	0.1%	0.1%
Pain medicine	0.9%	0.5%
Pediatrics- general	1.6%	2.2%
Physical medicine and rehabilitation	0.4%	0.3%
Plastic Surgery	0.5%	0.3%
Psychiatry	1.2%	1.4%
Urology	0.3%	0.5%
<b>All other specialties</b>	<b>44.1%</b>	<b>38.5%</b>

## Table 2a: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Cardiology

Principal Specialty Area	2021	2017
<b>Cardiology</b>	<b>36.9%</b>	<b>31.4%</b>
Cardiothoracic and vascular surgery	6.0%	7.5%
Critical care medicine	9.0%	11.0%
Dermatology	0.0%	1.2%
Emergency medicine	8.3%	7.0%
Family medicine/general practice	3.6%	7.6%
Gastroenterology	0.6%	0.6%
General surgery	1.2%	1.7%
Geriatrics	0.0%	0.6%
Hospital medicine	9.5%	12.2%
Internal medicine-general	4.8%	6.4%
Neurology	0.6%	0.0%
Neurosurgery	1.8%	1.2%
Obstetrics and gynecology	0.0%	0.6%
Occupational medicine	0.6%	0.0%
Oncology	0.6%	0.0%
Orthopaedic surgery	1.2%	1.7%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.6%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.6%	0.6%
Plastic surgery	1.2%	0.6%
Psychiatry	0.0%	0.0%
Urology	0.0%	0.6%
All other specialties	13.5%	6.9%

## Table 2b: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Cardiothoracic and vascular surgery

Principal Specialty Area	2021	2017
Cardiology	4.2%	2.5%
<b>Cardiothoracic and vascular surgery</b>	<b>66.0%</b>	<b>59.4%</b>
Critical care medicine	5.2%	5.6%
Dermatology	1.4%	1.0%
Emergency medicine	3.8%	3.0%
Family medicine/general practice	1.4%	0.0%
Gastroenterology	0.5%	1.0%
General surgery	4.2%	5.1%
Geriatrics	0.5%	0.5%
Hospital medicine	0.9%	2.5%
Internal medicine-general	0.5%	1.0%
Neurology	0.0%	0.5%
Neurosurgery	0.0%	1.5%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.4%	3.6%
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	0.5%	1.5%
Psychiatry	0.0%	0.0%
Urology	0.0%	0.0%
All other specialties	9.0%	10.3%

## Table 2c: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

#### Critical care medicine

Principal Specialty Area	2021	2017
Cardiology	1.9%	1.8%
Cardiothoracic and vascular surgery	9.9%	15.9%
<b>Critical care medicine</b>	<b>36.4%</b>	<b>33.6%</b>
Dermatology	0.3%	1.4%
Emergency medicine	13.1%	9.1%
Family medicine/general practice	5.8%	5.9%
Gastroenterology	1.0%	0.5%
General surgery	4.5%	4.5%
Geriatrics	0.3%	0.5%
Hospital medicine	5.1%	4.5%
Internal medicine-general	0.6%	2.3%
Neurology	0.3%	0.0%
Neurosurgery	4.2%	2.7%
Obstetrics and gynecology	0.0%	0.5%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	3.2%	1.8%
Otolaryngology	0.0%	0.5%
Pain medicine	0.3%	0.0%
Pediatrics- general	0.0%	0.9%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic surgery	0.3%	0.5%
Psychiatry	1.0%	0.5%
Urology	0.3%	0.5%
All other specialties	11.5%	12.1%

## Table 2d: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Dermatology

Principal Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	1.2%	1.3%
Critical care medicine	1.2%	0.6%
<b>Dermatology</b>	<b>43.5%</b>	<b>44.0%</b>
Emergency medicine	17.6%	11.3%
Family medicine/general practice	10.0%	12.6%
Gastroenterology	0.6%	0.0%
General surgery	1.8%	1.9%
Geriatrics	0.0%	0.0%
Hospital medicine	2.9%	0.6%
Internal medicine-general	2.4%	3.8%
Neurology	0.6%	0.0%
Neurosurgery	0.6%	0.6%
Obstetrics and gynecology	0.6%	0.0%
Occupational medicine	0.6%	1.3%
Oncology	0.6%	1.3%
Orthopaedic surgery	2.9%	3.1%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	1.2%	0.6%
Physical medicine and rehabilitation	0.6%	0.0%
Plastic Surgery	0.6%	3.1%
Psychiatry	0.6%	1.3%
Urology	0.0%	0.6%
All other specialties	9.9%	12.0%

## Table 2e: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Emergency medicine

Principal Specialty Area	2021	2017
Cardiology	1.4%	1.2%
Cardiothoracic and vascular surgery	1.4%	1.7%
Critical care medicine	2.3%	1.7%
Dermatology	1.0%	1.0%
<b>Emergency medicine</b>	<b>45.1%</b>	<b>43.0%</b>
Family medicine/general practice	13.0%	16.6%
Gastroenterology	0.3%	0.5%
General surgery	2.0%	2.1%
Geriatrics	0.4%	0.5%
Hospital medicine	3.9%	3.9%
Internal medicine-general	2.6%	3.0%
Neurology	0.3%	0.1%
Neurosurgery	0.8%	1.1%
Obstetrics and gynecology	0.6%	0.4%
Occupational medicine	1.2%	1.6%
Oncology	0.4%	0.4%
Orthopaedic surgery	6.2%	6.6%
Otolaryngology	0.5%	0.4%
Pain medicine	0.5%	0.7%
Pediatrics- general	0.8%	0.9%
Physical medicine and rehabilitation	0.1%	0.4%
Plastic Surgery	0.4%	0.6%
Psychiatry	0.7%	0.2%
Urology	0.4%	0.6%
All other specialties	13.7%	10.8%



## Table 2f: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Family medicine/general practice

Principal Specialty Area	2021	2017
Cardiology	0.8%	1.4%
Cardiothoracic and vascular surgery	1.1%	0.9%
Critical care medicine	1.3%	0.8%
Dermatology	1.2%	1.5%
Emergency medicine	18.8%	19.2%
<b>Family medicine/general practice</b>	<b>32.0%</b>	<b>35.2%</b>
Gastroenterology	0.9%	0.8%
General surgery	2.0%	1.6%
Geriatrics	0.6%	0.8%
Hospital medicine	2.6%	2.9%
Internal medicine-general	4.8%	4.7%
Neurology	0.5%	0.6%
Neurosurgery	1.1%	0.9%
Obstetrics and gynecology	0.8%	1.1%
Occupational medicine	2.2%	2.5%
Oncology	0.7%	0.8%
Orthopaedic surgery	6.3%	5.4%
Otolaryngology	0.6%	0.4%
Pain medicine	1.3%	1.3%
Pediatrics- general	1.2%	1.4%
Physical medicine and rehabilitation	0.6%	0.7%
Plastic Surgery	0.7%	0.3%
Psychiatry	1.9%	2.0%
Urology	1.0%	1.2%
All other specialties	15.0%	11.6%

## Table 2g: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Gastroenterology

Principal Specialty Area	2021	2017
Cardiology	3.8%	5.2%
Cardiothoracic and vascular surgery	3.8%	1.7%
Critical care medicine	1.9%	0.0%
Dermatology	5.7%	3.4%
Emergency medicine	3.8%	6.9%
Family medicine/general practice	3.8%	12.1%
<b>Gastroenterology</b>	<b>22.6%</b>	<b>20.7%</b>
General surgery	7.5%	13.8%
Geriatrics	1.9%	0.0%
Hospital medicine	5.7%	5.2%
Internal medicine-general	7.5%	5.2%
Neurology	0.0%	1.7%
Neurosurgery	1.9%	0.0%
Obstetrics and gynecology	0.0%	1.7%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	7.5%	3.4%
Otolaryngology	1.9%	0.0%
Pain medicine	0.0%	1.7%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	1.9%	0.0%
Psychiatry	1.9%	0.0%
Urology	0.0%	0.0%
All other specialties	16.9%	17.3%

## Table 2h: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

#### General surgery

Principal Specialty Area	2021	2017
Cardiology	0.6%	0.3%
Cardiothoracic and vascular surgery	9.0%	9.0%
Critical care medicine	5.7%	5.4%
Dermatology	0.6%	0.3%
Emergency medicine	6.9%	9.3%
Family medicine/general practice	2.7%	3.6%
Gastroenterology	0.9%	0.3%
<b>General surgery</b>	<b>31.9%</b>	<b>32.6%</b>
Geriatrics	0.6%	0.6%
Hospital medicine	2.7%	1.2%
Internal medicine-general	2.1%	1.2%
Neurology	0.0%	0.3%
Neurosurgery	3.0%	3.3%
Obstetrics and gynecology	0.9%	0.3%
Occupational medicine	0.0%	0.6%
Oncology	0.6%	0.6%
Orthopaedic surgery	10.1%	11.4%
Otolaryngology	0.6%	0.0%
Pain medicine	0.9%	0.0%
Pediatrics- general	0.3%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	3.3%	2.7%
Psychiatry	0.0%	0.0%
Urology	1.2%	0.9%
All other specialties	15.4%	16.1%

## Table 2i: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Geriatrics

Principal Specialty Area	2021	2017
Cardiology	2.0%	2.2%
Cardiothoracic and vascular surgery	0.0%	2.2%
Critical care medicine	3.0%	1.1%
Dermatology	1.0%	2.2%
Emergency medicine	11.1%	9.9%
Family medicine/general practice	23.2%	16.5%
Gastroenterology	0.0%	0.0%
General surgery	3.0%	1.1%
<b>Geriatrics</b>	<b>8.1%</b>	<b>8.8%</b>
Hospital medicine	7.1%	8.8%
Internal medicine-general	24.2%	20.9%
Neurology	0.0%	1.1%
Neurosurgery	1.0%	0.0%
Obstetrics and gynecology	1.0%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	0.0%	2.2%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	2.2%
Pediatrics- general	0.0%	1.1%
Physical medicine and rehabilitation	0.0%	1.1%
Plastic Surgery	0.0%	0.0%
Psychiatry	2.0%	3.3%
Urology	1.0%	1.1%
All other specialties	12.3%	14.2%

## Table 2j: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Hospital medicine

Principal Specialty Area	2021	2017
Cardiology	4.6%	7.5%
Cardiothoracic and vascular surgery	2.6%	2.5%
Critical care medicine	7.7%	7.7%
Dermatology	0.3%	0.0%
Emergency medicine	13.4%	13.3%
Family medicine/general practice	7.5%	8.3%
Gastroenterology	1.9%	1.8%
General surgery	3.0%	2.7%
Geriatrics	0.8%	1.8%
<b>Hospital medicine</b>	<b>23.8%</b>	<b>22.5%</b>
Internal medicine-general	7.7%	8.0%
Neurology	1.4%	0.7%
Neurosurgery	1.0%	1.7%
Obstetrics and gynecology	0.6%	0.2%
Occupational medicine	0.5%	0.2%
Oncology	1.8%	2.0%
Orthopaedic surgery	3.4%	4.2%
Otolaryngology	0.2%	0.3%
Pain medicine	0.6%	0.2%
Pediatrics- general	0.3%	0.7%
Physical medicine and rehabilitation	0.3%	0.5%
Plastic Surgery	0.5%	0.2%
Psychiatry	1.0%	1.0%
Urology	0.5%	0.8%
All other specialties	14.6%	11.2%

## Table 2k: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Internal medicine-general

Principal Specialty Area	2021	2017
Cardiology	2.3%	2.8%
Cardiothoracic and vascular surgery	1.8%	2.6%
Critical care medicine	2.6%	1.7%
Dermatology	2.3%	1.1%
Emergency medicine	12.9%	14.9%
Family medicine/general practice	9.5%	10.8%
Gastroenterology	1.3%	1.5%
General surgery	3.1%	2.6%
Geriatrics	2.1%	3.7%
Hospital medicine	8.2%	7.4%
<b>Internal medicine-general</b>	<b>21.6%</b>	<b>22.3%</b>
Neurology	1.0%	0.9%
Neurosurgery	2.1%	1.1%
Obstetrics and gynecology	1.3%	1.1%
Occupational medicine	1.8%	2.4%
Oncology	1.0%	1.1%
Orthopaedic surgery	4.6%	4.5%
Otolaryngology	0.5%	0.2%
Pain medicine	1.3%	0.4%
Pediatrics- general	0.8%	0.9%
Physical medicine and rehabilitation	0.3%	0.6%
Plastic Surgery	0.0%	0.4%
Psychiatry	1.5%	2.2%
Urology	0.8%	0.4%
All other specialties	15.3%	12.4%

## Table 2I: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

### Neurology

Principal Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	3.0%	2.0%
Critical care medicine	3.1%	5.9%
Dermatology	1.5%	0.0%
Emergency medicine	6.2%	11.8%
Family medicine/general practice	4.6%	7.8%
Gastroenterology	1.5%	2.0%
General surgery	1.5%	2.0%
Geriatrics	1.5%	3.9%
Hospital medicine	9.2%	7.8%
Internal medicine-general	4.6%	7.8%
<b>Neurology</b>	<b>24.6%</b>	<b>31.4%</b>
Neurosurgery	18.5%	2.0%
Obstetrics and gynecology	1.5%	0.0%
Occupational medicine	1.5%	0.0%
Oncology	0.0%	0.0%
Orthopaedic surgery	1.5%	2.0%
Otolaryngology	1.5%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	1.5%	2.0%
Physical medicine and rehabilitation	0.0%	3.9%
Plastic Surgery	1.5%	0.0%
Psychiatry	4.6%	2.0%
Urology	0.0%	2.0%
All other specialties	6.6%	3.7%

# Table 2m: Secondary Specialty by Principal Specialty

## Secondary Specialty Area

### Neurosurgery

Principal Specialty Area	2021	2017
Cardiology	0.0%	1.3%
Cardiothoracic and vascular surgery	2.1%	3.2%
Critical care medicine	11.5%	5.2%
Dermatology	0.0%	0.0%
Emergency medicine	2.2%	5.2%
Family medicine/general practice	1.4%	3.2%
Gastroenterology	0.0%	0.0%
General surgery	2.2%	6.5%
Geriatrics	0.0%	0.0%
Hospital medicine	1.4%	1.9%
Internal medicine-general	0.7%	0.0%
Neurology	4.3%	3.9%
<b>Neurosurgery</b>	<b>51.1%</b>	<b>51.3%</b>
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	0.0%
Oncology	1.4%	0.6%
Orthopaedic surgery	8.6%	9.1%
Otolaryngology	0.7%	0.0%
Pain medicine	0.7%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.7%	0.6%
Psychiatry	0.0%	0.0%
Urology	0.7%	1.3%
All other specialties	10.3%	6.7%



## Table 2n: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Obstetrics and gynecology

Principal Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	3.2%
Critical care medicine	0.0%	0.0%
Dermatology	1.0%	1.1%
Emergency medicine	9.3%	4.3%
Family medicine/general practice	9.3%	8.5%
Gastroenterology	0.0%	0.0%
General surgery	3.1%	2.1%
Geriatrics	0.0%	0.0%
Hospital medicine	2.1%	4.3%
Internal medicine-general	0.0%	1.1%
Neurology	0.0%	0.0%
Neurosurgery	1.0%	2.1%
<b>Obstetrics and gynecology</b>	<b>53.6%</b>	<b>48.9%</b>
Occupational medicine	0.0%	1.1%
Oncology	0.0%	0.0%
Orthopaedic surgery	4.1%	2.1%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	0.0%
Pediatrics- general	2.1%	4.3%
Physical medicine and rehabilitation	1.0%	1.1%
Plastic Surgery	2.1%	0.0%
Psychiatry	0.0%	0.0%
Urology	0.0%	1.1%
All other specialties	11.3%	14.7%

## Table 2o: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Occupational medicine

Principal Specialty Area	2021	2017
Cardiology	1.0%	0.6%
Cardiothoracic and vascular surgery	0.7%	0.3%
Critical care medicine	0.7%	1.3%
Dermatology	1.4%	1.0%
Emergency medicine	24.1%	24.4%
Family medicine/general practice	21.7%	21.8%
Gastroenterology	0.7%	0.3%
General surgery	1.7%	0.6%
Geriatrics	0.0%	1.0%
Hospital medicine	3.4%	1.9%
Internal medicine-general	1.7%	4.9%
Neurology	0.3%	0.3%
Neurosurgery	0.7%	0.0%
Obstetrics and gynecology	0.0%	0.6%
<b>Occupational medicine</b>	<b>14.8%</b>	<b>10.4%</b>
Oncology	0.3%	0.6%
Orthopaedic surgery	3.4%	6.2%
Otolaryngology	0.3%	1.0%
Pain medicine	1.0%	0.6%
Pediatrics- general	0.3%	0.6%
Physical medicine and rehabilitation	0.3%	0.6%
Plastic Surgery	0.0%	0.6%
Psychiatry	0.7%	1.0%
Urology	0.3%	1.0%
All other specialties	20.5%	18.4%

## Table 2p: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

#### Oncology

Principal Specialty Area	2021	2017
Cardiology	2.1%	2.6%
Cardiothoracic and vascular surgery	2.1%	2.6%
Critical care medicine	6.3%	2.6%
Dermatology	0.0%	2.6%
Emergency medicine	4.2%	0.0%
Family medicine/general practice	2.1%	0.0%
Gastroenterology	0.0%	2.6%
General surgery	4.2%	2.6%
Geriatrics	0.0%	0.0%
Hospital medicine	8.3%	7.9%
Internal medicine-general	2.1%	2.6%
Neurology	2.1%	0.0%
Neurosurgery	2.1%	0.0%
Obstetrics and gynecology	2.1%	2.6%
Occupational medicine	2.1%	2.6%
<b>Oncology</b>	<b>35.4%</b>	<b>34.2%</b>
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	2.6%
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	6.3%	0.0%
Urology	0.0%	0.0%
All other specialties	18.5%	31.9%

## Table 2q: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Orthopaedic surgery

Principal Specialty Area	2021	2017
Cardiology	0.4%	0.2%
Cardiothoracic and vascular surgery	1.3%	2.5%
Critical care medicine	0.4%	0.0%
Dermatology	0.4%	0.2%
Emergency medicine	9.2%	11.6%
Family medicine/general practice	3.6%	4.8%
Gastroenterology	0.0%	0.2%
General surgery	4.2%	4.8%
Geriatrics	0.2%	0.2%
Hospital medicine	1.3%	1.6%
Internal medicine-general	1.3%	1.4%
Neurology	0.0%	0.0%
Neurosurgery	2.9%	2.5%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.4%	1.1%
Oncology	0.2%	0.0%
<b>Orthopaedic surgery</b>	<b>60.7%</b>	<b>58.0%</b>
Otolaryngology	0.9%	0.7%
Pain medicine	1.1%	1.1%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	1.3%	0.5%
Plastic Surgery	0.2%	0.2%
Psychiatry	0.2%	0.2%
Urology	0.2%	0.2%
All other specialties	9.6%	8.0%

## Table 2r: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Otolaryngology

Principal Specialty Area	2021	2017
Cardiology	0.0%	0.0%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	0.0%	0.0%
Dermatology	7.4%	6.7%
Emergency medicine	18.5%	13.3%
Family medicine/general practice	18.5%	16.7%
Gastroenterology	0.0%	0.0%
General surgery	3.7%	3.3%
Geriatrics	3.7%	0.0%
Hospital medicine	0.0%	0.0%
Internal medicine-general	0.0%	3.3%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	0.0%	3.3%
Occupational medicine	3.7%	3.3%
Oncology	0.0%	0.0%
Orthopaedic surgery	7.4%	3.3%
<b>Otolaryngology</b>	<b>14.8%</b>	<b>23.3%</b>
Pain medicine	0.0%	3.3%
Pediatrics- general	7.4%	3.3%
Physical medicine and rehabilitation	3.7%	0.0%
Plastic Surgery	0.0%	3.3%
Psychiatry	0.0%	3.3%
Urology	0.0%	3.3%
All other specialties	11.2%	7.0%

## Table 2s: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

#### Pain medicine

Principal Specialty Area	2021	2017
Cardiology	1.0%	0.0%
Cardiothoracic and vascular surgery	3.0%	0.0%
Critical care medicine	1.0%	3.8%
Dermatology	3.0%	1.9%
Emergency medicine	13.1%	9.4%
Family medicine/general practice	11.1%	18.9%
Gastroenterology	0.0%	0.0%
General surgery	3.0%	1.9%
Geriatrics	2.0%	0.0%
Hospital medicine	2.0%	1.9%
Internal medicine-general	5.1%	5.7%
Neurology	1.0%	0.0%
Neurosurgery	3.0%	0.0%
Obstetrics and gynecology	2.0%	1.9%
Occupational medicine	2.0%	1.9%
Oncology	1.0%	0.0%
Orthopaedic surgery	10.1%	3.8%
Otolaryngology	0.0%	0.0%
<b>Pain medicine</b>	<b>12.1%</b>	<b>24.5%</b>
Pediatrics- general	1.0%	1.9%
Physical medicine and rehabilitation	2.0%	5.7%
Plastic Surgery	2.0%	0.0%
Psychiatry	0.0%	1.9%
Urology	0.0%	0.0%
All other specialties	19.5%	14.9%

# Table 2t: Secondary Specialty by Principal Specialty

## Secondary Specialty Area Pediatrics- general

Principal Specialty Area	2021	2017
Cardiology	0.7%	1.1%
Cardiothoracic and vascular surgery	0.0%	0.6%
Critical care medicine	0.7%	0.6%
Dermatology	0.7%	0.6%
Emergency medicine	15.5%	16.0%
Family medicine/general practice	22.3%	23.2%
Gastroenterology	0.0%	0.6%
General surgery	0.7%	0.6%
Geriatrics	0.0%	1.1%
Hospital medicine	1.4%	1.1%
Internal medicine-general	3.4%	3.3%
Neurology	0.0%	0.0%
Neurosurgery	0.0%	0.0%
Obstetrics and gynecology	2.7%	1.1%
Occupational medicine	1.4%	0.0%
Oncology	0.7%	0.0%
Orthopaedic surgery	0.0%	0.0%
Otolaryngology	0.0%	0.6%
Pain medicine	0.0%	0.0%
<b>Pediatrics- general</b>	<b>24.3%</b>	<b>25.4%</b>
Physical medicine and rehabilitation	0.0%	0.6%
Plastic Surgery	0.7%	0.0%
Psychiatry	2.0%	2.8%
Urology	0.0%	0.0%
All other specialties	22.8%	20.7%

## Table 2u: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Physical medicine and rehabilitation

Principal Specialty Area	2021	2017
Cardiology	1.7%	1.3%
Cardiothoracic and vascular surgery	0.0%	0.0%
Critical care medicine	1.7%	0.0%
Dermatology	1.7%	0.0%
Emergency medicine	15.3%	13.2%
Family medicine/general practice	10.2%	13.2%
Gastroenterology	3.4%	2.6%
General surgery	1.7%	0.0%
Geriatrics	3.4%	2.6%
Hospital medicine	1.7%	6.6%
Internal medicine-general	8.5%	7.9%
Neurology	0.0%	1.3%
Neurosurgery	3.4%	5.3%
Obstetrics and gynecology	0.0%	0.0%
Occupational medicine	0.0%	3.9%
Oncology	0.0%	0.0%
Orthopaedic surgery	11.9%	11.8%
Otolaryngology	0.0%	0.0%
Pain medicine	6.8%	3.9%
Pediatrics- general	0.0%	0.0%
<b>Physical medicine and rehabilitation</b>	<b>11.9%</b>	<b>15.8%</b>
Plastic Surgery	0.0%	2.6%
Psychiatry	1.7%	0.0%
Urology	0.0%	0.0%
All other specialties	15.0%	8.0%



## Table 2v: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Plastic surgery

Principal Specialty Area	2021	2017
Cardiology	1.3%	0.0%
Cardiothoracic and vascular surgery	3.8%	2.9%
Critical care medicine	2.5%	2.9%
Dermatology	3.8%	1.5%
Emergency medicine	17.7%	26.5%
Family medicine/general practice	1.3%	4.4%
Gastroenterology	0.0%	0.0%
General surgery	7.6%	11.8%
Geriatrics	0.0%	0.0%
Hospital medicine	0.0%	2.9%
Internal medicine-general	3.8%	1.5%
Neurology	0.0%	0.0%
Neurosurgery	2.5%	2.9%
Obstetrics and gynecology	1.3%	2.9%
Occupational medicine	0.0%	1.5%
Oncology	0.0%	0.0%
Orthopaedic surgery	11.4%	5.9%
Otolaryngology	2.5%	2.9%
Pain medicine	2.5%	0.0%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	1.3%	0.0%
<b>Plastic Surgery</b>	<b>24.1%</b>	<b>20.6%</b>
Psychiatry	0.0%	0.0%
Urology	0.0%	1.5%
All other specialties	12.6%	7.4%

## Table 2w: Secondary Specialty by Principal Specialty

### Secondary Specialty Area Psychiatry

Principal Specialty Area	2021	2017
Cardiology	1.1%	0.9%
Cardiothoracic and vascular surgery	0.0%	0.4%
Critical care medicine	0.4%	0.4%
Dermatology	0.8%	0.4%
Emergency medicine	8.0%	7.2%
Family medicine/general practice	12.6%	18.3%
Gastroenterology	0.4%	0.0%
General surgery	0.8%	0.9%
Geriatrics	1.1%	0.9%
Hospital medicine	2.3%	2.6%
Internal medicine-general	3.1%	5.5%
Neurology	0.4%	0.0%
Neurosurgery	0.8%	0.4%
Obstetrics and gynecology	1.5%	0.9%
Occupational medicine	0.4%	0.0%
Oncology	0.4%	0.4%
Orthopaedic surgery	2.3%	3.0%
Otolaryngology	0.0%	0.9%
Pain medicine	1.1%	0.4%
Pediatrics- general	1.1%	0.9%
Physical medicine and rehabilitation	0.4%	0.0%
Plastic Surgery	0.0%	0.9%
<b>Psychiatry</b>	<b>50.6%</b>	<b>44.3%</b>
Urology	0.4%	0.0%
All other specialties	10.0%	10.4%

## Table 2x: Secondary Specialty by Principal Specialty

### Secondary Specialty Area

#### Urology

Principal Specialty Area	2021	2017
Cardiology	2.9%	2.3%
Cardiothoracic and vascular surgery	8.6%	7.0%
Critical care medicine	0.0%	0.0%
Dermatology	0.0%	2.3%
Emergency medicine	5.7%	9.3%
Family medicine/general practice	8.6%	9.3%
Gastroenterology	2.9%	0.0%
General surgery	14.3%	7.0%
Geriatrics	0.0%	0.0%
Hospital medicine	0.0%	2.3%
Internal medicine-general	5.7%	2.3%
Neurology	0.0%	0.0%
Neurosurgery	2.9%	0.0%
Obstetrics and gynecology	0.0%	2.3%
Occupational medicine	0.0%	0.0%
Oncology	2.9%	0.0%
Orthopaedic surgery	2.9%	4.7%
Otolaryngology	0.0%	0.0%
Pain medicine	0.0%	2.3%
Pediatrics- general	0.0%	0.0%
Physical medicine and rehabilitation	0.0%	0.0%
Plastic Surgery	0.0%	0.0%
Psychiatry	2.9%	0.0%
<b>Urology</b>	<b>22.9%</b>	<b>30.2%</b>
All other specialties	16.8%	18.7%

## Table 2y: Secondary Specialty by Principal Specialty

**Secondary Specialty Area**  
**All other specialties**

Principal Specialty Area	2021	2017
Cardiology	1.4%	1.3%
Cardiothoracic and vascular surgery	1.8%	1.9%
Critical care medicine	1.5%	1.7%
Dermatology	1.6%	1.8%
Emergency medicine	19.2%	19.0%
Family medicine/general practice	18.0%	21.1%
Gastroenterology	0.8%	1.0%
General surgery	3.1%	2.5%
Geriatrics	0.5%	0.6%
Hospital medicine	3.0%	3.4%
Internal medicine-general	4.3%	4.5%
Neurology	0.5%	0.4%
Neurosurgery	1.2%	1.3%
Obstetrics and gynecology	0.9%	1.0%
Occupational medicine	1.9%	2.0%
Oncology	0.9%	1.0%
Orthopaedic surgery	5.7%	6.0%
Otolaryngology	0.6%	0.9%
Pain medicine	1.4%	1.1%
Pediatrics- general	1.2%	1.6%
Physical medicine and rehabilitation	0.5%	0.6%
Plastic Surgery	0.8%	0.8%
Psychiatry	2.3%	1.2%
Urology	0.9%	1.0%
<b>All other specialties</b>	<b>26.0%</b>	<b>22.3%</b>

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

Principal Specialty Area	Median Hours Spent in a Secondary Position- 2021	Median Hours Spent in a Secondary Position- 2017	Mean Hours Spent in a Secondary Position- 2021	Mean Hours Spent in a Secondary Position- 2017
Cardiology	8	10	10	11
Cardiothoracic and vascular surgery	10	10	11	11
Critical care medicine	12	10	13	11
Dermatology	8	8	10	10
Emergency medicine	10	10	12	11
Family medicine/general practice	8	8	11	11
Gastroenterology	8	10	10	10
General surgery	10	10	10	10
Geriatrics	10	9	12	11
Hospital medicine	10	10	12	12
Internal medicine-general	10	10	12	11
Neurology	9	12	11	13
Neurosurgery	10	10	12	13
Obstetrics and gynecology	10	8	12	10
Occupational medicine	10	8	11	10
Oncology	8	8	8	9
Orthopaedic surgery	8	8	10	10
Otolaryngology	8	8	10	10
Pain medicine	9	10	10	11
Pediatrics- general	9	9	11	10
Physical medicine and rehabilitation	10	8	10	9
Plastic surgery	8	8	9	9
Psychiatry	10	9	12	11
Urology	8	8	10	11
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- 2021	Median Hours Spent in a Secondary Position- 2017	Mean Hours Spent in a Secondary Position- 2021	Mean Hours Spent in a Secondary Position- 2017
Cardiology	10	10	11	11
Cardiothoracic and vascular surgery	10	10	12	11
Critical care medicine	12	12	13	12
Dermatology	10	8	11	11
Emergency medicine	10	10	11	11
Family medicine/general practice	8	8	11	11
Gastroenterology	10	8	12	11
General surgery	10	10	10	11
Geriatrics	10	10	12	11
Hospital medicine	10	10	12	12
Internal medicine-general	10	10	12	12
Neurology	12	12	13	13
Neurosurgery	10	10	13	13
Obstetrics and gynecology	12	10	13	11
Occupational medicine	8	8	11	10
Oncology	8	10	11	11
Orthopaedic surgery	8	8	10	10
Otolaryngology	8	8	11	10
Pain medicine	10	8	12	12
Pediatrics- general	10	8	11	10
Physical medicine and rehabilitation	8	8	11	11
Plastic surgery	8	8	11	10
Psychiatry	10	10	12	12
Urology	8	10	13	12
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	25.4%	23.0%	43.1%	1.6%	6.9%
Cardiothoracic and vascular surgery	23.1%	20.3	48.5%	0.5%	7.6%
Critical care medicine	21.6%	19.9%	54.1%	0.2%	4.2%
Dermatology	34.8%	19.8%	31.7%	5.3%	8.4%
Emergency medicine	28.5%	13.7%	48.5%	1.5%	7.9%
Family medicine/general practice	26.8%	17.0%	42.9%	1.8%	11.4%
Gastroenterology	28.3%	24.2%	36.4%	3.0%	8.1%
General surgery	24.1%	22.8%	46.4%	0.0%	6.7%
Geriatrics	29.5%	15.4%	47.4%	1.3%	6.4%
Hospital medicine	24.9%	19.9%	47.0%	1.1%	7.2%
Internal medicine-general	27.3%	20.2%	42.5%	2.0%	8.0%
Neurology	18.4%	25.0%	47.4%	2.6%	6.6%
Neurosurgery	20.1%	25.5%	46.9%	0.4%	7.1%
Obstetrics and gynecology	30.3%	24.8%	38.6%	2.8%	3.4%
Occupational medicine	26.3%	15.3%	41.6%	4.3%	12.4%
Oncology	29.7%	20.8%	45.5%	1.0%	3.0%
Orthopaedic surgery	20.5%	20.0%	48.3%	0.7%	10.5%
Otolaryngology	26.2%	27.7%	40.0%	3.1%	3.1%
Pain medicine	25.0%	21.9%	38.3%	7.0%	7.8%
Pediatrics- general	23.9%	21.8%	40.8%	7.0%	6.3%
Physical medicine and rehabilitation	29.6%	13.0%	40.7%	5.6%	11.1%
Plastic surgery	29.0%	21.0%	44.0%	2.0%	4.0%
Psychiatry	33.3%	16.8%	41.4%	2.4%	6.1%
Urology	24.1%	14.9%	48.3%	0.0%	12.6%
All other specialties	26.6%	18.3%	42.7%	2.9%	9.5%

\*Most common other responses: national guard or reserve duty, COVID assistance, increase benefits (ie. Insurance), job involves working in multiple specialties, help out employer(s), pay off loans sooner.