



**TAAHP**  
50TH ANNUAL  
CONFERENCE

*February 7th-9th 2019*





TEXAS TECH UNIVERSITY  
HEALTH SCIENCES CENTER™

fifty  
YEARS



Preparing Future Healthcare  
Providers:  
Overcoming challenges in  
addressing health care  
disparities





A green rectangular sign with white text. The sign is mounted on a metal pole. Above the sign, there is a horizontal arm with two yellow traffic lights. To the right, another traffic light is visible, showing red arrows. The background shows a clear blue sky and a concrete bridge structure.

Fort Stockton

CITY LIMIT  
POP 8283



Pecos  
County  
Memorial  
Hospital

NO SMOKING  
NO FLAMMABLES  
NO FLAMES





# Overview

- ❑ Health care disparity-access to care
- ❑ Health care provider shortages
- ❑ Health care provider employment projects
- ❑ TTUHSC Programs
- ❑ Addressing disparities
- ❑ Challenges and positive impacts





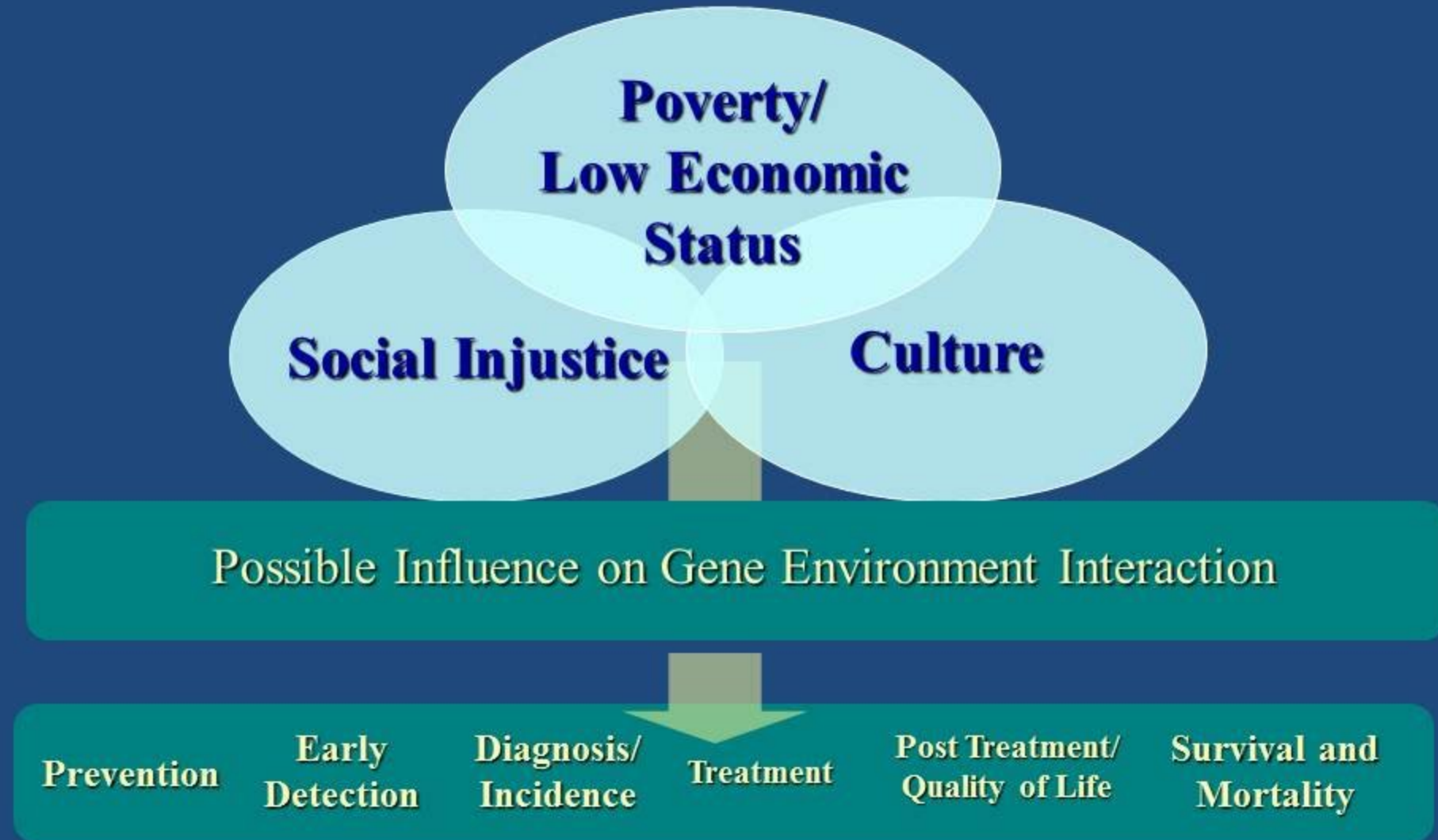
# Health Disparities



50



# Causes of Health Disparities





# Access to Care Facts

- ❑ 39.1 per 100,000 ratio of primary care providers (54.5 per 100,000 nationally)
- ❑ 1.8 per 100,000 mental health providers (3.4 per 100,000 nationally)
- ❑ 25.3% of rural population under 65 uninsured

“2017 Rural Health Report Card” Rural Health Quarterly (Fall 2017) <http://ruralhealthquarterly.com/home/>

## Changes in Texas since 2005



- Grew approximately 16%-estimated 1.3M additional people
- Employment rate stable-attracting people to move to Texas
- Increase in Growth Domestic Product (GDP) by 31%



# Things that have remained the same

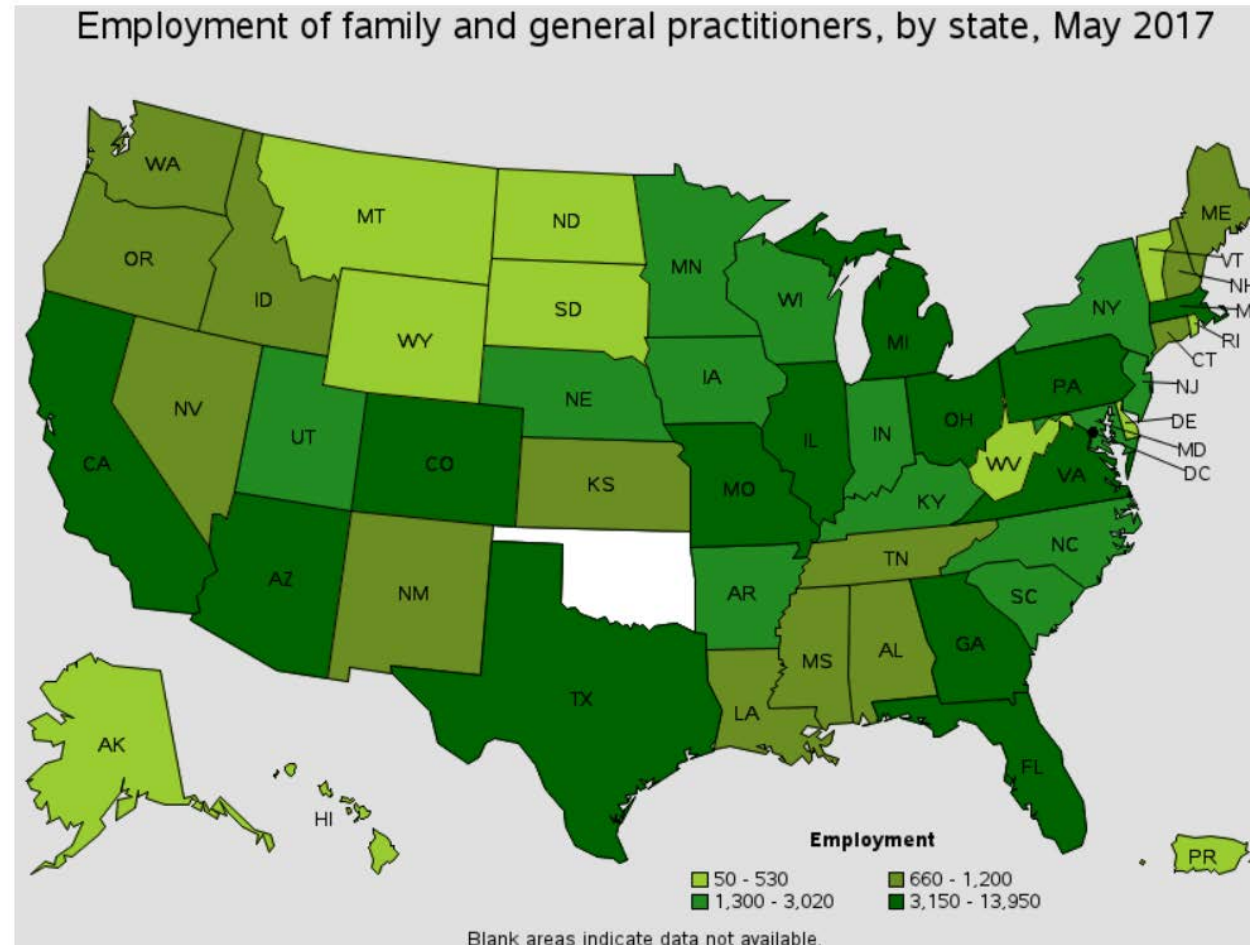
- Highest rate of uninsured at 24%
- 6 million uninsured and thus have limited access to primary and preventive care
- 20% report not seeing a doctor due to cost
- Approximately 17% of Texas Children (0-17) live in poverty
- High economic burden due to uncompensated care incurred by hospitals
- Significant shortage of health care professionals
- Lack of access to mental health and dental health services



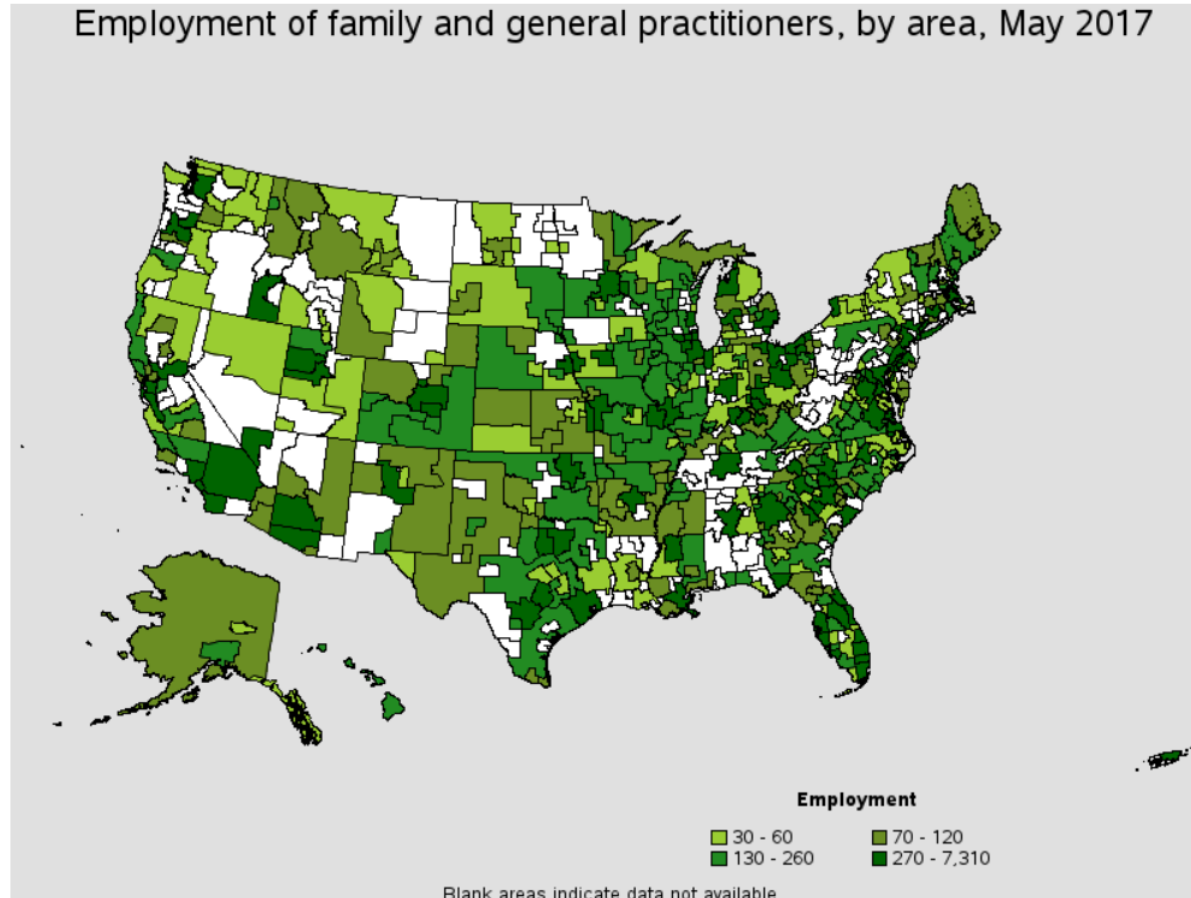
# Challenge of Rapid Population Growth in Texas

- Three contributing factors to rapid population growth:
  - Fertility
  - Mortality
  - Immigration
- Challenge to allocate scarce resources to the following:
  - Education
  - Labor Force Training
  - State programs
  - Medical Services
  - Natural Resources

# General Practitioner Employment by State



# Urban vs Rural for General Practitioners



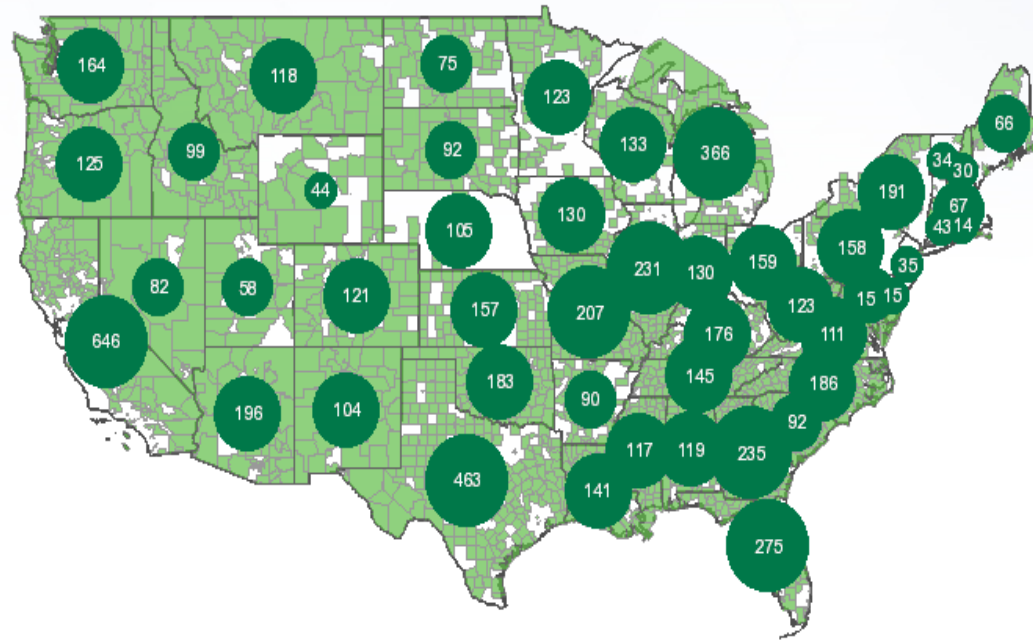


# Designated Health Professional Shortage Areas Statistics

Table 1. Health Professional Shortage Areas: Number, Population, and Additional Practitioners Needed for Geographic Areas, Population Groups, and Facilities as of December 31, 2018

	Number of Designations <sup>(1)</sup>	Population of Designated HPSAs <sup>(2)</sup>	Percent of Need Met <sup>(3)</sup>	Practitioners Needed to Remove Designations
<b>Primary Medical HPSA Totals</b>	<b>7,026</b>	<b>79,125,152</b>	<b>43.85 % <sup>(4)</sup></b>	<b>14,900 <sup>(7)</sup></b>
Geographic Area	1,319	31,521,741	58.02 %	4,111
Population Group	1,723	46,202,073	35.94 %	9,852
Facility	3,984	1,401,338	31.78 %	937
<b>Dental Health HPSA Totals</b>	<b>5,833</b>	<b>57,937,800</b>	<b>29.26 % <sup>(5)</sup></b>	<b>10,635 <sup>(8)</sup></b>
Geographic Area	599	11,386,974	50.16 %	1,294
Population Group	1,797	44,676,034	24.52 %	8,436
Facility	3,437	1,874,792	27.85 %	905
<b>Mental Health HPSA Totals</b>	<b>5,124</b>	<b>115,383,074</b>	<b>26.10 % <sup>(6)</sup></b>	<b>6,894 <sup>(9)</sup></b>
Geographic Area	1,049	79,728,867	30.04 %	3,671
Population Group	453	33,559,820	17.34 %	2,044
Facility	3,622	2,094,387	26.74 %	1,179

# HPSA Designation for primary care providers (2018 data)

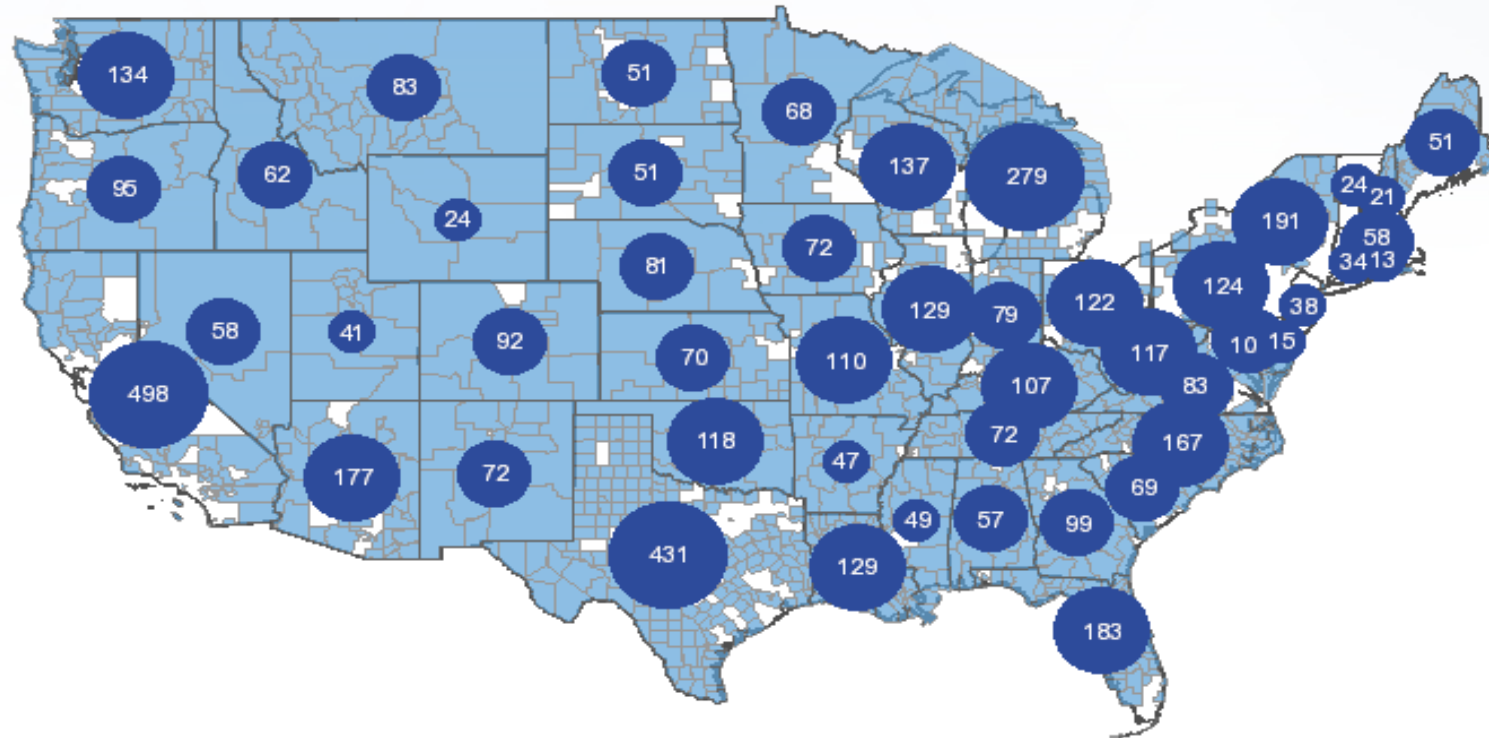


## Designated Health Professional Shortage Areas Statistics

Primary Care	Total Designations <sup>(1)</sup>	Geographic Area	Population Group	Facility	Population of Designated HPSAs	Percent of Need Met <sup>(3)</sup>	Practitioners Needed to Remove Designation <sup>(6)</sup>
Mississippi	117	53	26	38	1,746,844	41.16 %	341
North Carolina	186	23	63	100	1,965,809	46.70 %	334
South Carolina	92	14	29	49	1,928,557	68.76 %	206
Tennessee	145	23	64	58	2,486,052	69.25 %	258
<b>Region V</b>	<b>1,142</b>	<b>190</b>	<b>241</b>	<b>711</b>	<b>11,775,913</b>	<b>66.16 %</b>	<b>1,735</b>
Illinois	231	40	77	114	3,324,631	55.38 %	483
Indiana	130	30	35	65	2,123,212	76.76 %	165
Michigan	366	25	61	280	3,275,197	40.47 %	647
Minnesota	123	29	20	74	445,792	46.39 %	78
Ohio	159	41	20	98	1,458,554	55.76 %	209
Wisconsin	133	25	28	80	1,148,527	58.96 %	153
<b>Region VI</b>	<b>980</b>	<b>242</b>	<b>212</b>	<b>526</b>	<b>10,560,352</b>	<b>63.66 %</b>	<b>1,639</b>
Arkansas	90	14	41	35	512,060	51.00 %	88
Louisiana	141	41	28	72	2,269,620	65.44 %	255
New Mexico	104	29	10	65	1,048,498	23.00 %	261
Oklahoma	183	13	62	108	1,276,291	57.11 %	194
Texas	462	145	71	246	5,453,883	54.03 %	841
<b>Region VII</b>	<b>599</b>	<b>63</b>	<b>194</b>	<b>342</b>	<b>3,357,031</b>	<b>28.86 %</b>	<b>788</b>
Iowa	130	29	32	69	651,570	55.33 %	95
Kansas	157	18	64	75	994,366	44.67 %	180
Missouri	207	8	98	101	1,697,303	10.06 %	509
Nebraska	105	8	0	97	13,792	20.40 %	4
<b>Region VIII</b>	<b>508</b>	<b>162</b>	<b>102</b>	<b>244</b>	<b>2,878,066</b>	<b>42.63 %</b>	<b>555</b>
Colorado	121	24	37	60	1,108,338	34.41 %	264
Montana	118	25	31	62	412,474	35.28 %	85
North Dakota	75	44	2	29	185,865	32.93 %	37
South Dakota	92	35	14	43	238,804	41.54 %	45
Utah	58	15	13	30	744,682	59.87 %	100
Wyoming	44	19	5	20	187,903	53.81 %	24



# HPSA Designation for Mental Health Providers (2018)



## Designated Health Professional Shortage Areas Statistics

Mental Health Care	Total Designations <sup>(1)</sup>	Geographic Area	Population Group	Facility	Population of Designated HPSAs	Percent of Need Met <sup>(5)</sup>	Practitioners Needed to Remove Designation <sup>(8)</sup>
Mississippi	49	15	0	34	2,775,574	24.20 %	385
North Carolina	167	24	51	92	2,522,692	13.90 %	149
South Carolina	69	10	11	48	2,418,422	37.54 %	108
Tennessee	72	10	14	48	3,400,427	11.66 %	356
<b>Region V</b>	<b>814</b>	<b>181</b>	<b>30</b>	<b>603</b>	<b>19,537,642</b>	<b>27.13 %</b>	<b>1,054</b>
Illinois	129	32	4	93	4,850,399	23.30 %	224
Indiana	79	22	0	57	3,738,068	34.74 %	159
Minnesota	68	9	0	59	2,001,152	33.12 %	80
Michigan	279	48	13	218	4,132,859	23.94 %	212
Ohio	122	20	11	91	2,575,843	36.64 %	124
Wisconsin	137	50	2	85	2,239,321	19.42 %	255
<b>Region VI</b>	<b>796</b>	<b>282</b>	<b>43</b>	<b>471</b>	<b>19,631,483</b>	<b>30.32 %</b>	<b>992</b>
Arkansas	47	5	10	32	1,266,192	31.82 %	65
Louisiana	129	54	11	64	3,458,028	23.38 %	171
New Mexico	72	16	2	54	1,251,275	12.30 %	75
Oklahoma	118	4	9	105	1,563,013	23.23 %	96
<b>Texas</b>	<b>430</b>	<b>203</b>	<b>11</b>	<b>216</b>	<b>12,092,975</b>	<b>34.53 %</b>	<b>585</b>
<b>Region VII</b>	<b>333</b>	<b>42</b>	<b>22</b>	<b>269</b>	<b>5,985,438</b>	<b>24.64 %</b>	<b>305</b>
Iowa	72	15	0	57	1,610,233	39.24 %	53
Kansas	70	19	2	49	1,387,256	31.63 %	55
Missouri	110	3	20	87	1,948,955	7.20 %	171
Nebraska	81	5	0	76	1,038,994	50.82 %	26
<b>Region VIII</b>	<b>342</b>	<b>91</b>	<b>17</b>	<b>234</b>	<b>7,743,650</b>	<b>32.31 %</b>	<b>387</b>
Colorado	92	11	8	73	2,665,498	30.15 %	131
Montana	83	21	7	55	602,361	13.27 %	71
North Dakota	51	26	0	25	291,463	18.75 %	20
South Dakota	51	14	1	36	456,245	11.63 %	43
Utah	41	14	1	26	3,166,896	49.71 %	97
Wyoming	24	5	0	19	561,187	31.46 %	25

# Employment Projections for Practitioners

Physicians and Surgeons	
2016 (thousands)	372.4
2026 (thousands)	414.7
2016-2026 (change, thousands)	42.3
2016-2026 (change, percent)	11.4
2016-2026 (occupational openings)	14.3
Nurse Practitioners	
2016 (thousands)	155.5
2026 (thousands)	211.6
2016-2026 (change, thousands)	56.1
2016-2026 (change, percent)	36.1
2016-2026 (occupational openings)	14.4
Physician Assistants	
2016 (thousands)	106.2
2026 (thousands)	145.9
2016-2026 (change, thousands)	39.6
2016-2026 (change, percent)	37.3
2016-2026 (occupational openings)	10.6



# Community Size Preference

## In What Size Community Would You Prefer to Practice?

10,000 or less	1.2%
10,001 – 25,000	1.9%
25,001 – 50,000	4.4%
50,001 – 100,000	9.9%
100,001 – 250,000	15.6%
250,001 – 500,000	20.5%
500,001 – 1 million	22.8%
Over 1 million	23.7%



## TTUHSC Graduate School of Biomedical Sciences

- Brandt Schneider, Ph.D.
- Dean - TTUHSC Graduate School of Biomedical Sciences
- Schneider has served as the dean of the Graduate School of Biomedical Sciences since 2013 and has been a faculty member at TTUHSC since 1999.
- He is a tenured professor in the Departments of Medical Education and Cell Biology and Biochemistry and has served on over 30 graduate thesis committees. During this time, his research on the role of cell cycle control and cell growth on aging has been supported by 25 research grants.





# TTUHSC School of Health Professions

- Lori Rice-Spearman, Ph.D.
- Dean – TTUHSC School of Health Professions
- Lori Rice-Spearman has been the Dean of the Texas Tech Health Sciences Center School of Health Profession since January 2016.
- TTUHSC School of Health Professions is one of the largest health professions schools in the nation. In total, Rice-Spearman has contributed to the TTUHSC mission for over thirty years. Her professional experience also includes serving as an accreditation reviewer and site visitor for the National Accrediting Agency for Clinical Laboratory Sciences and the Commission on Accreditation for Physical Therapy Education.



## TTUHSC School of Nursing

- Michael L. Evans, PhD, RN, NEA-BC, FACHE, FAAN
- Dean – TTUHSC School of Nursing
- Evans is dean, professor and holds the University Medical Center Endowed Chair for Excellence in Nursing at the Texas Tech University Health Sciences Center School of Nursing since 2012.
- Prior to coming to Texas Tech, he was the president and CEO of Barnes-Jewish College and founding dean of the Goldfarb School of Nursing in St. Louis. He was in hospital administration for 25 years before his career bridged to academic administration. Evans has been honored as a distinguished alumnus by the University of Texas Health Science Center at Houston School of Nursing and by the University of Texas at Austin School of Nursing.



# TTUHSC School of Nursing

- Karla Chapman, Ph.D.
- Associate Academic Dean – TTUHSC School of Nursing
- Chapman is currently serving as an associate academic dean with the Texas Tech University Health Sciences Center School of Nursing.
- She not only provides direction and oversight for the Education Technology Department, Recruitment, Alumni Relations, Career Center, Advising, Admissions, Enrollment Management and Students Affairs. She also serves on a variety of institutional committees which benefits the institution as a whole. Prior to her career in academia, she has over 18 years in serving non-profit organizations as an executive director, VP of operations, VP of health care and policy, interim president/CEO, chief professional officer and/or board of directors.





## TTUHSC School of Pharmacy

- Charles Seifert, Pharm.D.
- Regional Dean – TTUHSC School of Pharmacy
- Seifert was one of the first board certified pharmacotherapy specialists in the nation and is a fellow of the American College of Clinical Pharmacy.
- Currently, he is professor of pharmacy practice, senior executive associate dean, and the founding regional dean for Lubbock programs with the School of Pharmacy at Texas Tech University Health Sciences Center. He has over 120 published journal articles, book chapters, abstracts, and newspaper and magazine articles. Seifert has received numerous awards for his teaching, practice, service and research.



TEXAS TECH UNIVERSITY  
HEALTH SCIENCES CENTER.

*School of Medicine*



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