



# Arizona Graduate Medical Education (GME)

Growing Arizona's Primary Care Physician Workforce

Arizona Bio Roadmap Steering Committee

Flinn Foundation

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# What is UME vs GME?

Undergraduate Medical Education (UME) = medical school (MD), osteopathic school (DO), 4 yrs to earn degree

Graduate Medical Education (GME) = residency training, 3 to 7 yrs  
*to be eligible for board certification exam*

Board Certification in specialties including primary care (e.g., family medicine); surgery (e.g., general surgery, neurosurgery); procedural subspecialty (e.g., cardiology, interventional radiology, dermatology)

# AZ Undergraduate Medical Education UME



AZ ranks #27 at 32.5 (US 37.9) UME MD/DO students per 100,000 pop

AZ needs 100 more first year UME slots to get to US average in 4-5 yrs.

UArizona Colleges of Medicine (Phoenix + Tucson), proposed 240 (120 each) more UME first year slots

Proposed new ASU, NAU medical schools would increase *UME* by ???

<https://www.aamc.org/data-reports/workforce/data/2021-state-profiles>

<https://azregents.edu/azhealthytomorrow>



# Current AZ Undergraduate Medical Education UME



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Health Sciences

Key Point: Enough UME slots for AZ pop

<u>School (DO/MD)</u>	<u>Year 1 Class Size</u>	<u>4 Yr Ttl</u>	<u>Plans to Add Yr1 Slots</u>
Midwestern (DO Private)	250	1,000	???
AT Still (DO Private)	160	640	???
UArizona COM-T (MD Public)	120	480	120
UArizona COM-P (MD Public)	120	480	120
Mayo (MD Private)	<u>50</u>	<u>200</u>	<u>???</u>
TOTAL	700	2,800	
ASU			???
NAU			???

Adapted from: (1) <https://www.aamc.org/data-reports/workforce/data/2021-state-profiles>

(2) <https://www.shemmassianconsulting.com/blog/medical-schools-in-arizona#list-of-medical-schools-in-arizona=>

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# Why is GME important? AZ Pop. Growth > Physician Supply

*Arizona*: Top 10 fastest growing state pop., now at 7.4M<sup>1</sup>

*Arizona*: Since 2000 pop. grew by 2M (41%); *US pop.* (18%)<sup>2</sup>

*Urban*: Phoenix #2 fastest growing major U.S. city, #5 pop<sup>3</sup>

*Aging*: AZ age >65 pop grew by 48% over 10 yrs (US 34%)<sup>4,5</sup>

1. <https://www.census.gov/quickfacts/fact/table/AZ/PST045222>

2. <https://usafacts.org/data/topics/people-society/population-and-demographics/our-changing-population/state/arizona/?endDate=2021-01-01&startDate=2000-01-01>

3. <https://www.azeconomy.org/2023/05/demographics-census/arizona-claims-two-of-the-fastest-growing-cities-in-america/>

4. <https://www.azeconomy.org/2020/07/economy/arizona-is-getting-older-and-so-is-the-u-s/>

5. [https://acl.gov/sites/default/files/Aging%20and%20Disability%20in%20America/2020ProfileOlderAmericans.Final\\_.pdf](https://acl.gov/sites/default/files/Aging%20and%20Disability%20in%20America/2020ProfileOlderAmericans.Final_.pdf)

# Arizona's Unmet Physician Health Needs

Meets just 39% of its primary care physician need<sup>1</sup>

Ranks 42<sup>nd</sup> in active PCP/100,000 pop 80 (US 94)<sup>2</sup>

Ranks 31<sup>st</sup> in total active physicians/100,000 at 252 (US 272)<sup>2</sup>

## Sources:

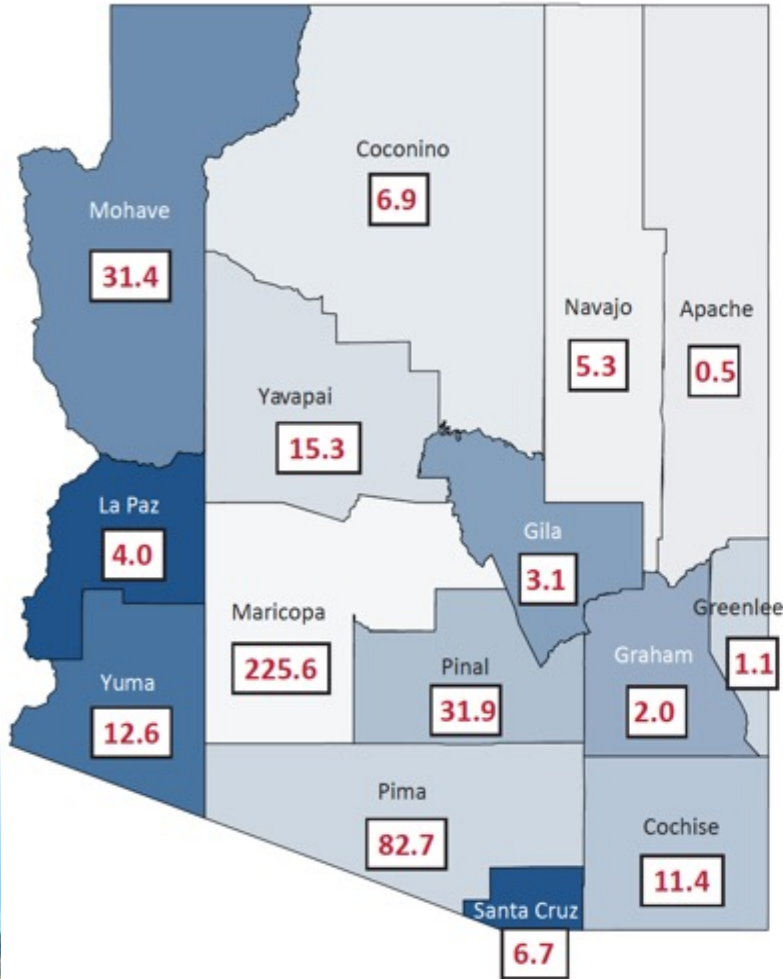
1. HRSA: <https://data.hrsa.gov/Default/GenerateHPSAQuarterlyReport>

2. AAMC: <https://store.aamc.org/2021-state-physician-workforce-data-report.html>

# Largest physician shortages in AZ are in primary care



Percent Living in Primary Care Shortage Areas (HPSAs) and Number of Providers Needed to Eliminate Shortage (2023)



667 total PCP FTE needed to eliminate current shortages

667 Total PCP FTE needed

Designated HPSA

Proposed for withdrawal HPSAs

497  
PCP FTE  
needed

170

1,941  
PCP FTE  
needed by  
2030

# Rate Limiting Factor for Arizona's MD/DO Workforce Growth: Too few Graduate Medical Education (GME) Residency Slots

AZ ranks #14 pop., yet #37 in GME FTEs (28.5 per 100,000 pop)

AZ needs to add 1,100 GME FTEs for its pop (2,000 FTEs by 2030)

**Barriers:** 1997 Medicare cap on GME subsidies

No *Medicaid* GME cap in AZ, but a 33.7% non-federal match required

No *Medicare* GME cap for new hospitals, programs >50% rural training

<https://www.aamc.org/data-reports/workforce/data/2021-state-profiles> and [https://crh.arizona.edu/sites/default/files/2023-06/230601\\_GME\\_Arizona\\_Brief.pdf](https://crh.arizona.edu/sites/default/files/2023-06/230601_GME_Arizona_Brief.pdf)



# FAMILY MEDICINE RESIDENCY PROGRAMS IN ARIZONA

14 Accredited Family Medicine Residency Programs (3 Years of Training)

11 are hospital/university-based FM programs

3 are community health center-based FM programs

264 total FM residents are enrolled across the three years of training

88 board eligible family physicians graduate every June in Arizona

***Opportunity and need to markedly increase the number of family medicine residency programs in Arizona.***



# Arizona's Family Medicine Residency Programs, Location and # of Residents

Abrazo Health Network Program  
Phoenix, Arizona (21 Total)

Creighton University School of Medicine Program  
Phoenix, Arizona (24 Total)

HonorHealth Program  
Scottsdale, Arizona (24 Total)

Midwestern Univ GME Consortium/Kingman Program  
Kingman, Arizona (15 Total)

Midwestern Univ GME Consortium/Mtn Vista Program  
Mesa, Arizona (15 Total)

Midwestern Univ GME Consortium/Canyon Vista Program  
Mesa, Arizona (15 Total)

North Country HealthCare Program \* CHC based  
Flagstaff, Arizona (12 Total)

UA College of Medicine-Tucson Alvernon Program  
Tucson, Arizona (24 Total)

UA College of Medicine-Tucson South Campus Program  
Tucson, Arizona (24 Total)

UA College of Medicine-Phoenix Program  
Phoenix, Arizona (24 Total)

El Rio Community Health Center Program \* CHC based  
Tucson, Arizona (12 Total)

Yuma Regional Medical Center Program  
Yuma, Arizona (24 Total)

Dignity Health Program  
Chandler, Arizona (18 Total)

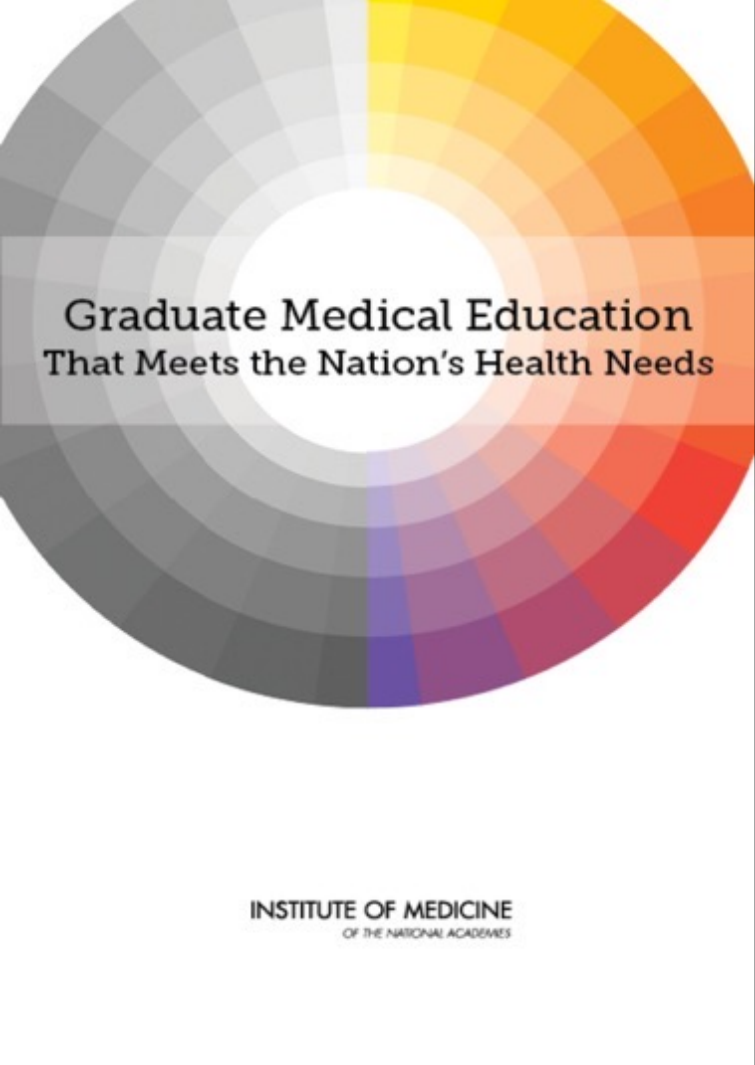
MHC Healthcare Program \* CHC based  
Marana, Arizona (12 Total)

# Potential New Primary Care GME Sites in Arizona

Family Medicine	Internal Medicine	Psychiatry
Casa Grande	Payson	Flagstaff
Chiricahua		Marana
Phoenix (NOAH)		Tucson
Nogales		
Payson		
San Luis		

Potential new GME programs are all FQHC/RHC/Critical Access Hospital-Based

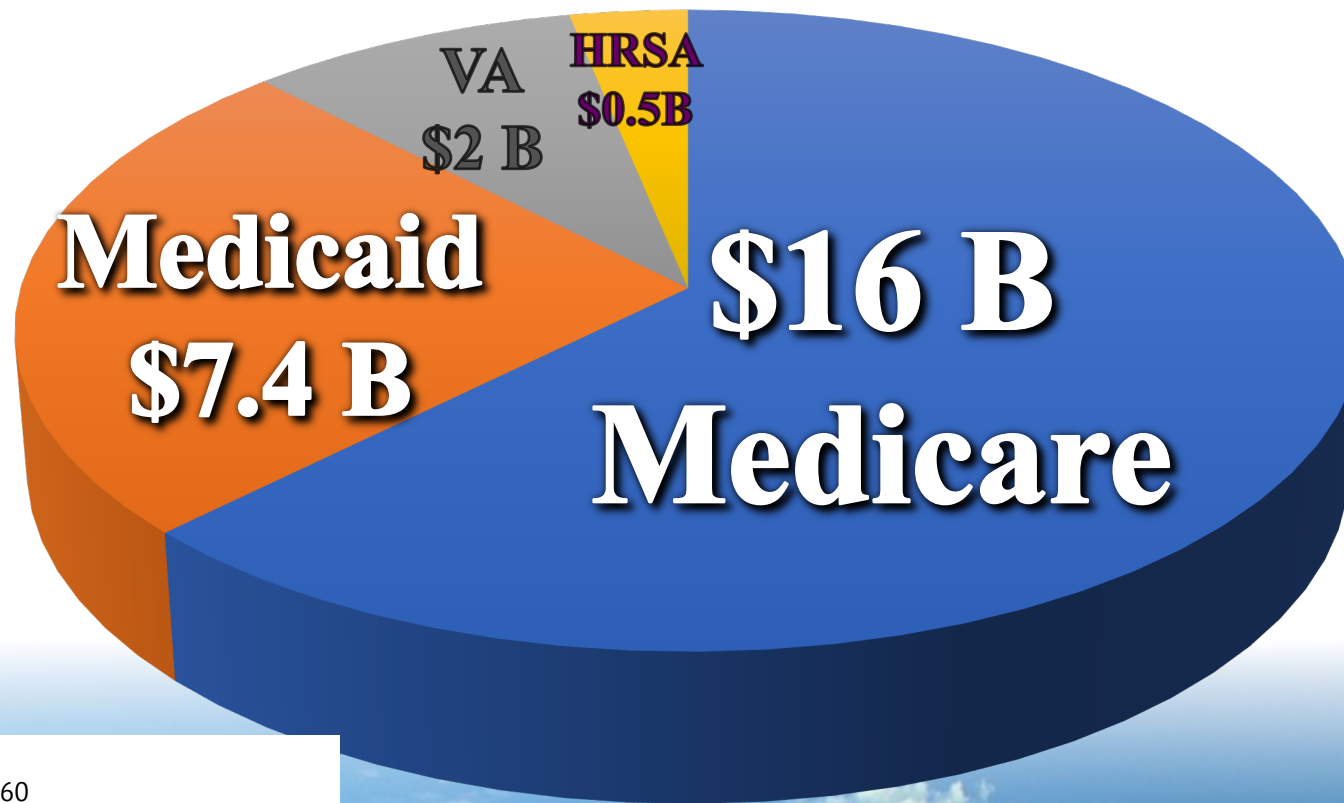




# GME Public Subsidies

## \$26 Billion

GAO: "...we found that less than 1% of residents trained at a rural hospital "



GAO 2021: <https://www.gao.gov/assets/gao-21-391.pdf>  
 Medicare GME 2020: <https://crsreports.congress.gov/product/pdf/IF/IF10960>  
 Medicaid GME 2022: Tim Henderson July 2023:  
<file:///Users/danderksen/Downloads/2023%20AAMC%20Medicaid%20GME%20Survey%20Report.pdf>



# Training, Recruitment, Retention Strategies



The University of Arizona  
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Teaching Health Centers: 75-80% GME graduates remain in primary care, >50% in HPSA/MUA/P (2022 HRSA \$155M)

Tax credit for health providers practicing in HPSAs + precepting requirement (ex: Colorado)

AZ: GME start up + AHCCCS (Medicaid GME) support for PCP residency programs in CAHs, RHCs, FQHCs, Tribal-run sites

Expand Medicare GME slots with Rural Referral Center designation



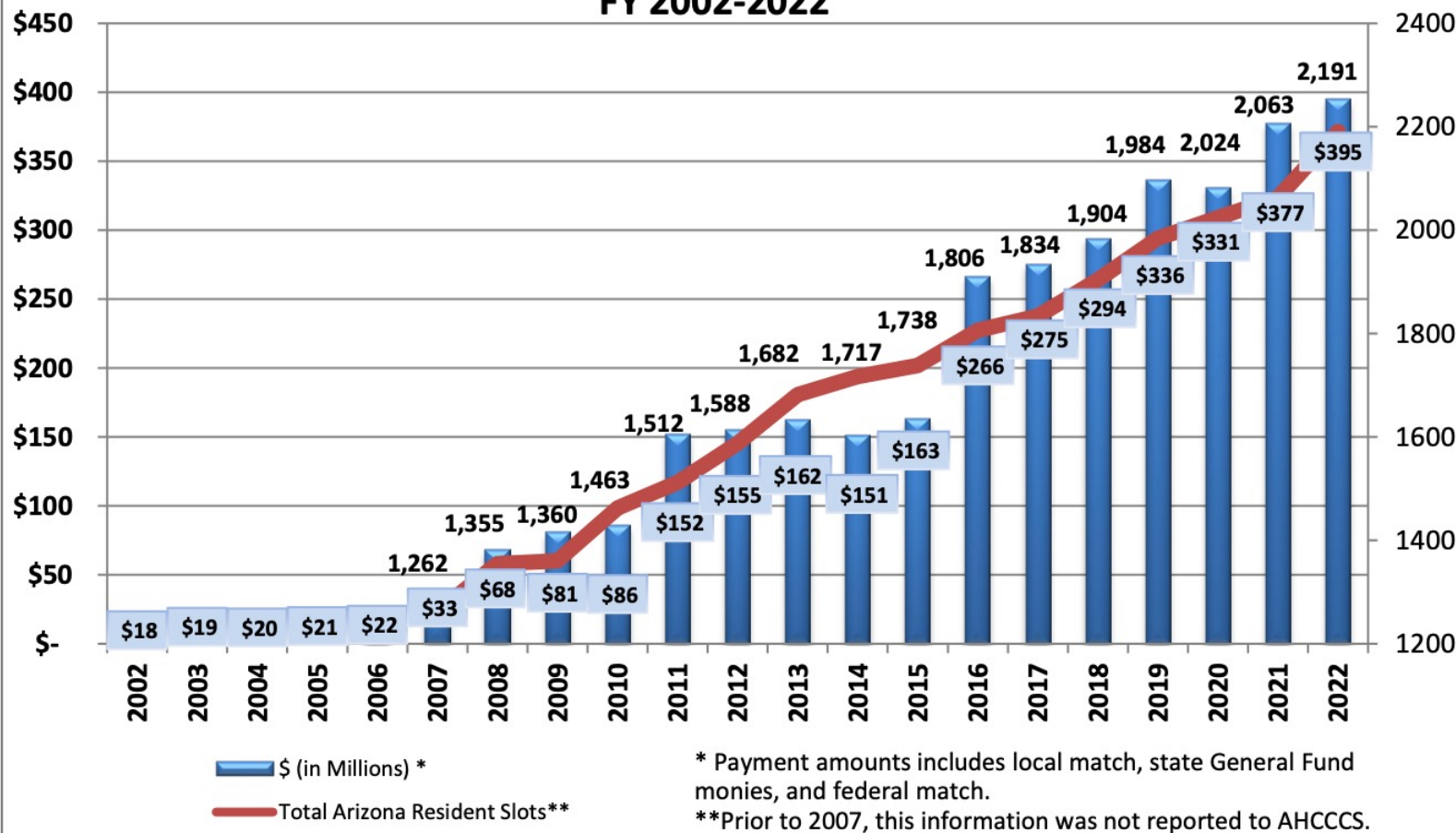
## Gov. Hobbs signed SB1727 May 11, 2023:

\$5M AzAHEC system to establish primary care residency programs with rural and critical access hospitals, community health centers, rural health clinics, tribal health facilities.

Support, expand primary care GME in rural areas and health professional shortage areas (HPSAs).



## AHCCCS GME Funding FY 2002-2022



**\$395M AZ Medicaid GME**  
**2,191 AZ GME FTEs 2022**  
**AZ Rank #5 Medicaid GME**

No Cap on Medicaid GME Slots -  
 Non-federal Match Required to Draw  
 Federal Medicaid GME dollars

Federal Medicaid Assistance Percentage  
 (FMAP) was 75.76% in FY 2023  
 For each state \$1, FMAP multiplier \$3.13

FY 2024 FMAP is 66.29%, \$1.97 multiplier

[https://www.azahcccs.gov/shared/Downloads/Reporting/2023/AHCCCS\\_GME\\_Report.pdf](https://www.azahcccs.gov/shared/Downloads/Reporting/2023/AHCCCS_GME_Report.pdf)





# AHCCCS Enrollment by Month

Month	3/1/23*	4/1/23**	5/11/23***	6/1/23	7/1/23	8/1/23	9/1/23	10/1/23	11/1/23	12/1/23
Total AHCCCS enrollment	2,527,141	2,492,034	2,472,270	2,357,454	2,306,212	2,279,212	2,264,547	2,220,416	2,210,484	2,204,232
Decrease from prior mo.		-35,107	-19,764	-114,816	-51,242	-26,502	-15,163	-44,131	-9,932	-6,252
Decrease from 3/1/2023		-35,107	-54,871	-169,687	-220,929	-247,431	-262,594	-306,725	-316,657	-322,009
% Decrease from prior mo.		-1.4%	-0.8%	-4.6%	-2.2%	-1.2%	-0.6%	-2.0%	-0.4%	-0.30%
% Decrease from 3/1/2023.		-1.4%	-2.2%	-6.7%	-8.7%	-9.8%	-10.40%	-12.1%	-12.5%	-12.80%

From 4/1 to 12/1/23 AHCCCS enrollment decreased

**-322,909 (12.8%)**

\*3/23 month prior to AZ redetermination; \*\*4/1/23 AZ began redetermination; \*\*\*5/1/23 National COVID PHE ended

Sources accessed 12/5/23: (1) <https://www.azahcccs.gov/Resources/Reports/population.html>

(2) <https://www.kff.org/report-section/medicaid-enrollment-and-unwinding-tracker-state-enrollment-and-unwinding-data/>



# National Medicaid Comparison



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MEL & ENID ZUCKERMAN COLLEGE OF PUBLIC HEALTH  
Center for Rural Health

>**11M** of the 94M (12%) U.S. Medicaid enrollees were disenrolled in the 50 states and DC as of 11/01/23

**71%** were disenrolled for procedural reasons: e.g., outdated contact info, incomplete renewal packets

Decreased Medicaid coverage = increased uncompensated care

Accessed 11/27/23 at: <https://www.kff.org/report-section/medicaid-enrollment-and-unwinding-tracker-overview/>

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# Less Medicaid coverage increases uninsured rate & uncompensated care

## AZ Rural Health Safety Net Includes:

17 Critical Access Hospitals (CAHs)

52 Rural Health Clinics (RHCs)

21 Health Centers in 172 FQHC Sites

15 Indian Health Service Hospitals and Clinics

18 Tribal-operated (P.L. 638)

Rural Hospitals, Private Practices

<https://crh.arizona.edu/>

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-  Critical Access Hospital (CAH) (12)
-  CAH & Tribal Operated (P.L. 638 Site) (3)
-  Critical Access & IHS Hospital (2)
-  Federally Qualified Health Center (72)
-  Independent Tribal (1)
-  Indian Health Service (15)
-  Rural Health Clinic (48)
-  Tribal Operated (P.L. 638 Site) (18)
-  Urban Indian Health Center (4)
-  SHEP participating hospitals (15)

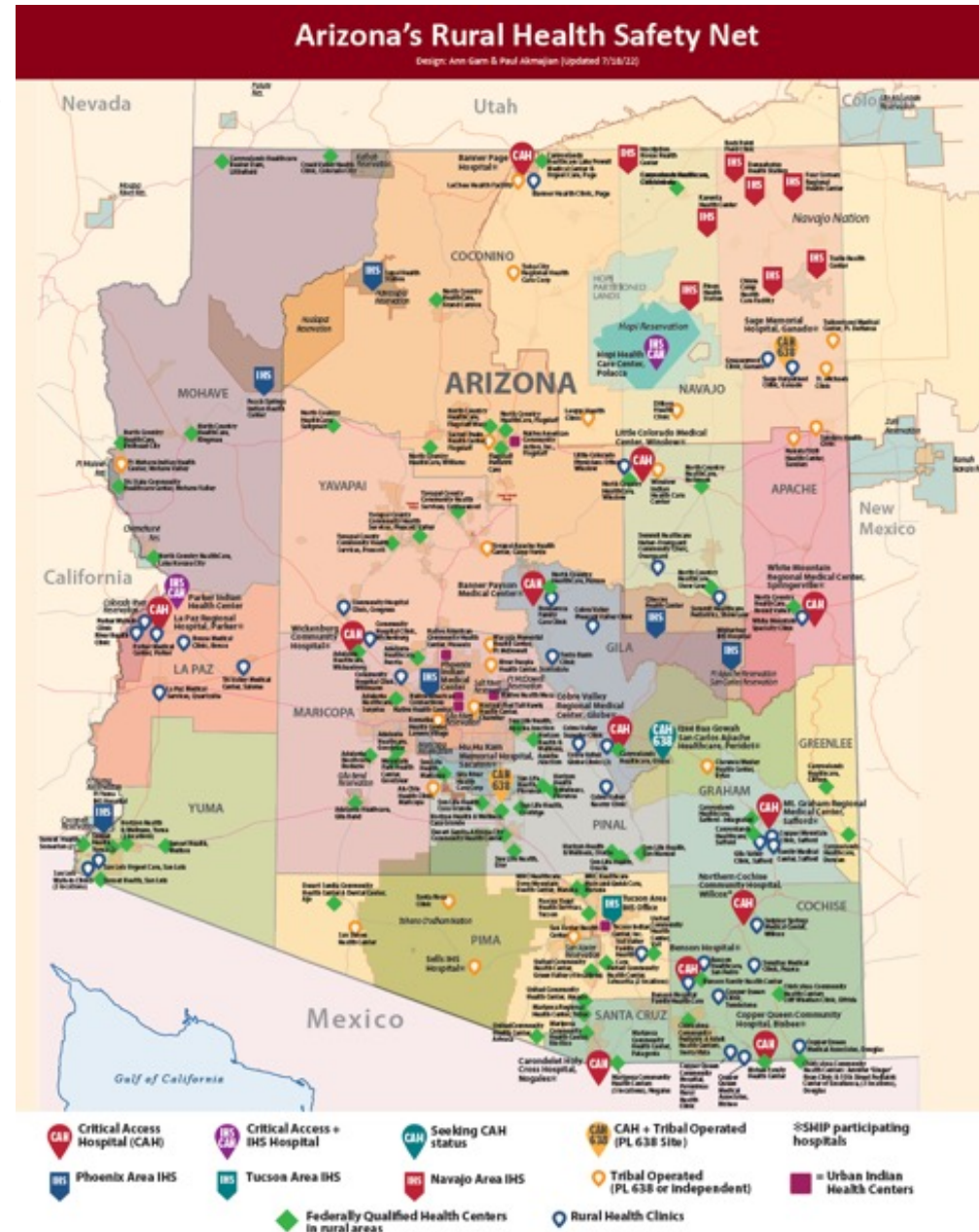


# Arizona Area Health Education Center (AzAHEC) Program Provided:

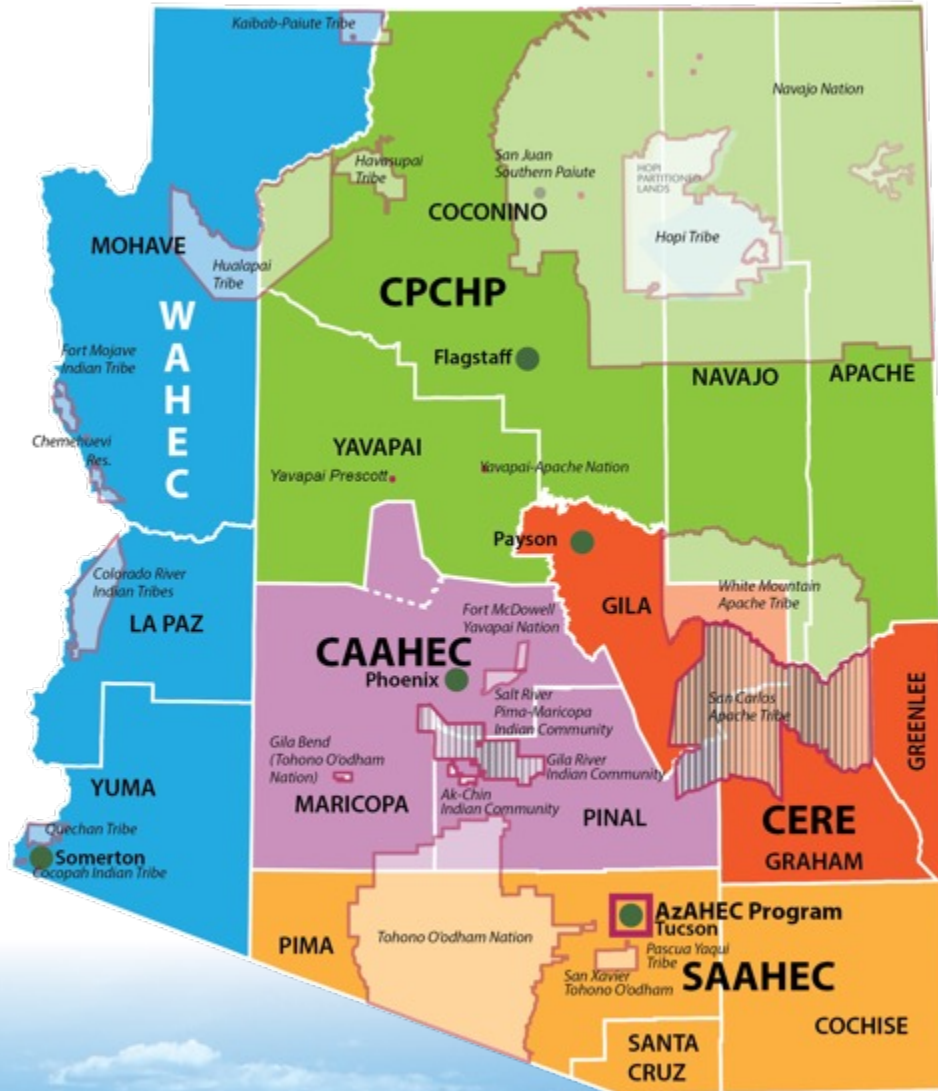
# 12%

of community-based, experiential health profession training rotations (CBET) of the nation's 56 AHEC Programs

1,600 AZ health profession trainees did 3,055 Community Based Experiential Training (CBET) Rotations – for nearly 490,000 contact hours



# Leveraging Existing AzAHEC Infrastructure



## Arizona AHEC Regions and Tribal Nations in Arizona

-  Tribal Nations
-  Arizona Area Health Education Center Program (AzAHEC) Tucson
-  American Indian Health Area Health Education Center (AIH-AHEC)
-  Southern Arizona Area Health Education Center (SAAHEC)
-  Central Arizona Area Health Education Center (CAAHEC)
-  Center for Excellence in Rural Education (CERE)
-  Colorado Plateau Center for Health Professions (CPCHP)
-  Western Arizona Area Health Education Center (WAAHEC)



THE UNIVERSITY OF ARIZONA  
**Arizona AHEC**  
 Area Health Education Centers

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**Daniel Derksen, MD**, is the University of Arizona Health Sciences Associate Vice President for Health Equity, Outreach & Interprofessional Activities. He is a Professor of Public Health in the Mel and Enid Zuckerman College of Public Health with joint appointments in the College of Medicine and the College of Nursing. His current service, education and research activities include informing legislative, regulatory and program policy to improve access to health care and health insurance coverage; narrowing health disparities; developing, implementing and evaluating community based experiential health professions training sites; and working to assure a well-trained and distributed health workforce to meet the health needs of all Arizonans.

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