Arizona Graduate Medical Education (GME)
Growing Arizona’s Primary Care Physician Workforce

Arizona Bio Roadmap Steering Committee
Flinn Foundation

Noon, December 6, 2023
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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

12/06/2023 Dan Derksen MD
# Current AZ Undergraduate Medical Education UME

**Key Point:** Enough UME slots for AZ pop

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

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

**Arizona:** Top 10 fastest growing state pop., now at 7.4M

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

**Urban:** Phoenix #2 fastest growing major U.S. city, #5 pop

**Aging:** AZ age >65 pop grew by 48% over 10 yrs (US 34%)

1. [https://www.census.gov/quickfacts/fact/table/AZ/PST045222](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](https://usafacts.org/data/topics/people-society/population-and-demographics/our-changing-population/state/arizona/?endDate=2021-01-01&startDate=2000-01-01)
Arizona’s Unmet Physician Health Needs
Meets just 39% of its primary care physician need
Ranks 42nd in active PCP/100,000 pop 80 (US 94)
Ranks 31st in total active physicians/100,000 at 252 (US 272)

Sources:
Largest physician shortages in AZ are in primary care

667 total PCP FTE needed to eliminate current shortages

https://crh.arizona.edu/sites/default/files/2023-06/230601_GME_Arizona_Brief.pdf
https://crh.arizona.edu/sites/default/files/2023-05/230531_PCHPSA_Brief.pdf
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](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.

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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)

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## Potential New Primary Care GME Sites in Arizona

<table>
<thead>
<tr>
<th>Family Medicine</th>
<th>Internal Medicine</th>
<th>Psychiatry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casa Grande</td>
<td>Payson</td>
<td>Flagstaff</td>
</tr>
<tr>
<td>Chiricahua</td>
<td></td>
<td>Marana</td>
</tr>
<tr>
<td>Phoenix (NOAH)</td>
<td></td>
<td>Tucson</td>
</tr>
<tr>
<td>Nogales</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payson</td>
<td></td>
<td></td>
</tr>
<tr>
<td>San Luis</td>
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Potential new GME programs are all FQHC/RHC/Critical Access Hospital-Based.
GAO: “...we found that less than 1% of residents trained at a rural hospital”

GME Public Subsidies

$26 Billion

Medicare
$16 B

Medicaid
$7.4 B

VA
$2 B

HRSA
$0.5 B


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Training, Recruitment, Retention Strategies

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).
$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

## AHCCCS Enrollment by Month

<table>
<thead>
<tr>
<th>Month</th>
<th>3/1/23*</th>
<th>4/1/23**</th>
<th>5/1/23***</th>
<th>6/1/23</th>
<th>7/1/23</th>
<th>8/1/23</th>
<th>9/1/23</th>
<th>10/1/23</th>
<th>11/1/23</th>
<th>12/1/23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total AHCCCS enrollment</td>
<td>2,527,141</td>
<td>2,492,034</td>
<td>2,472,270</td>
<td>2,357,454</td>
<td>2,306,212</td>
<td>2,279,212</td>
<td>2,264,547</td>
<td>2,220,416</td>
<td>2,210,484</td>
<td>2,204,232</td>
</tr>
<tr>
<td>Decrease from prior mo.</td>
<td>-35,107</td>
<td>-19,764</td>
<td>-114,816</td>
<td>-51,242</td>
<td>-26,502</td>
<td>-15,163</td>
<td>-44,131</td>
<td>-9,932</td>
<td>-6,252</td>
<td></td>
</tr>
<tr>
<td>% Decrease from prior mo.</td>
<td>-1.4%</td>
<td>-0.8%</td>
<td>-4.6%</td>
<td>-2.2%</td>
<td>-1.2%</td>
<td>-0.6%</td>
<td>-2.0%</td>
<td>-0.4%</td>
<td>-0.30%</td>
<td></td>
</tr>
<tr>
<td>% Decrease from 3/1/2023.</td>
<td>-1.4%</td>
<td>-2.2%</td>
<td>-6.7%</td>
<td>-8.7%</td>
<td>-9.8%</td>
<td>-10.40%</td>
<td>-12.1%</td>
<td>-12.5%</td>
<td>-12.80%</td>
<td></td>
</tr>
</tbody>
</table>

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](https://www.azahcccs.gov/Resources/Reports/population.html)  
>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

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/
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

12/06/2023 Dan Derksen MD
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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