

Drivers of Change Impacting Education and Training in Clinical Health Psychology

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Chief Education Officer

American Psychological Association

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Council of Clinical Health Psychology Training Programs Annual Meeting

Overview

Drivers of change to consider in:

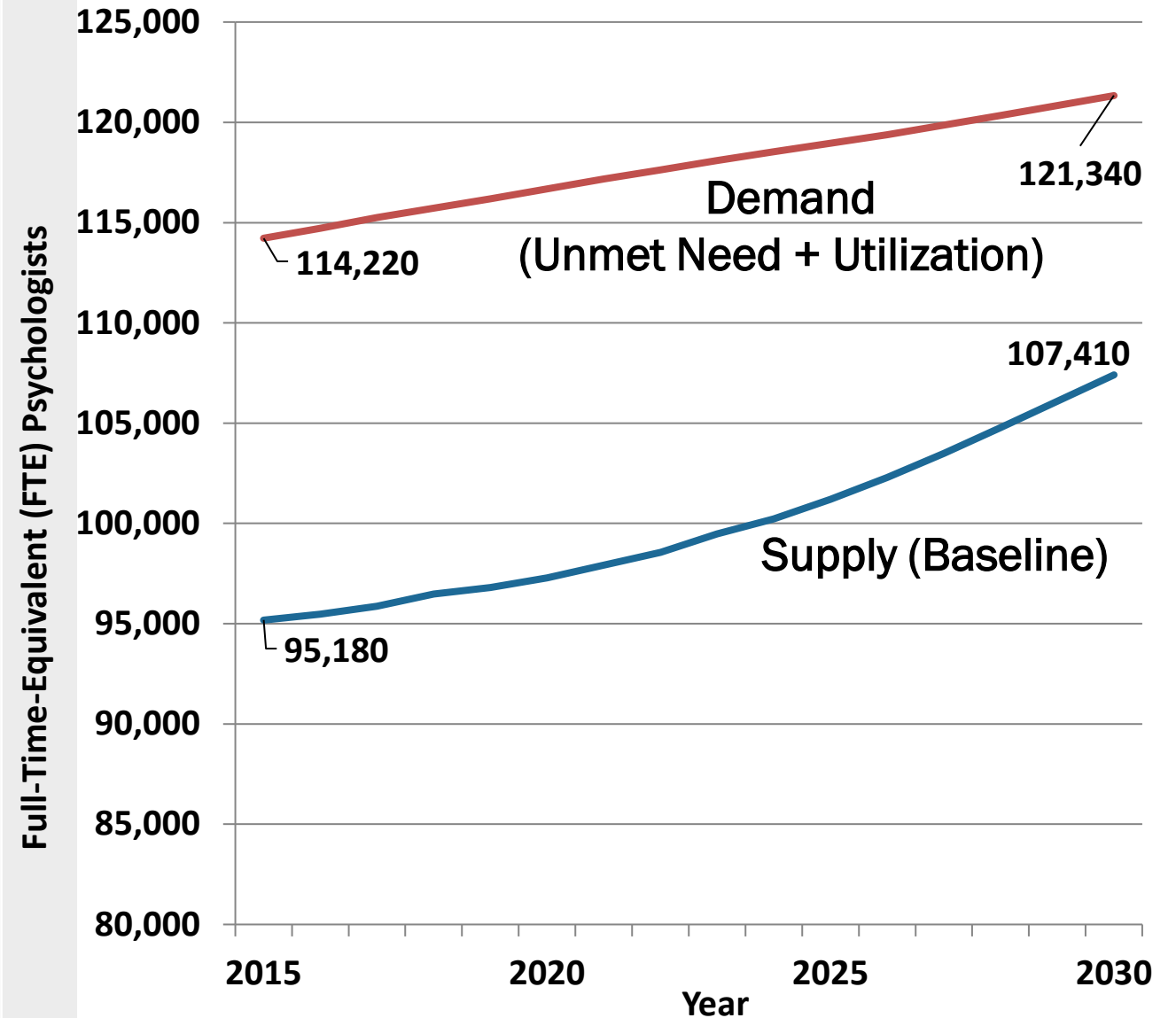
- the current psychology workforce
- the future psychology workforce
- education and training
- clinical practice

Driver 1: Current Psychology Workforce

Key Points:

Unmet need and a strained workforce

Gap in Supply and Unmet Need



Change in Demand by Age

- Older adults

- +54% or +5790 FTEs by 2030
- Driven by shifting population demographics
- Only 3% of psychologists specialize in geropsychology (APA, 2021 HSP Survey)
- Workforce shortages in geropsychologists (Moye et al., 2019)

- Children & adolescents

- +1% or +330 FTEs by 2030
- Represent 29% of total demand in 2030

- Adults

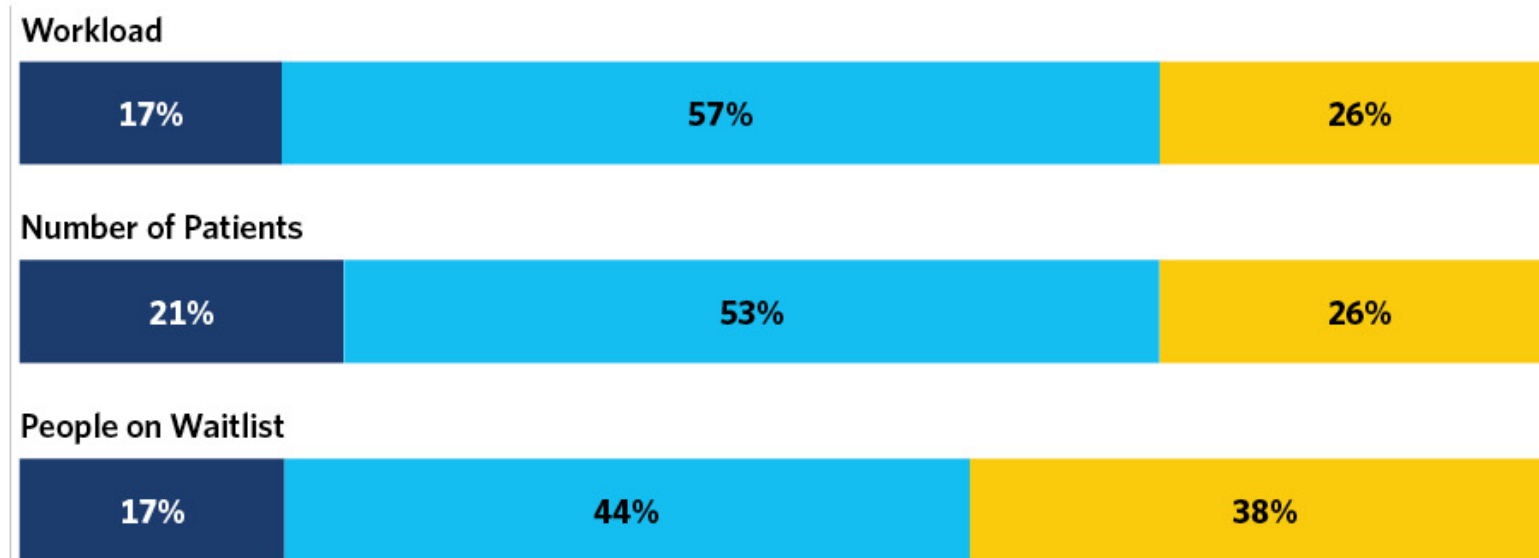
- Flat growth or -200 FTEs by 2030
- Represent 45% of total demand in 2030

Psychologist Workload Capacity

PROPORTION OF PSYCHOLOGISTS SEEING CHANGES IN THEIR WORKLOADS IN THE LAST 12 MONTHS, 2023



■ LESS THAN 12 MONTHS AGO ■ SAME AS 12 MONTHS AGO ■ MORE THAN 12 MONTHS AGO

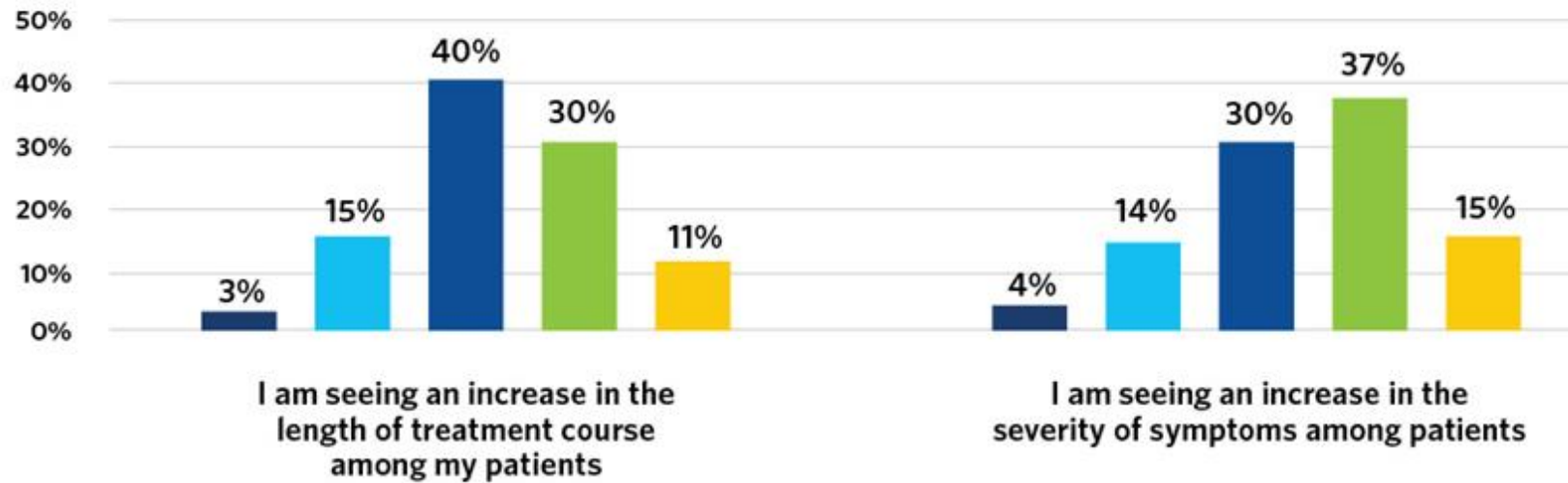


NOTE: TOTALS MAY NOT SUM TO 100 PERCENT DUE TO ROUNDING.

PERCENTAGE OF PSYCHOLOGISTS REPORTING CHANGES IN PATIENT TREATMENT IN THE LAST 12 MONTHS, 2023



■ STRONGLY DISAGREE ■ DISAGREE ■ NEITHER DISAGREE OR AGREE ■ AGREE ■ STRONGLY AGREE



PRACTITIONER PULSE SURVEY © 2023 American Psychological Association

PROPORTION OF PSYCHOLOGISTS AGREEING WITH STATEMENTS ABOUT SELF-CARE AND BURNOUT, 2020-2023

% AGREE/STRONGLY AGREE

■ 2020 ■ 2021 ■ 2022 ■ 2023



I have been able to practice self-care*



I am able to maintain a positive work-life balance



I have sought out peer consultation/support to manage burnout



I have not been able to meet the demand for treatment from my patients



I feel burned out



*In 2020-2022, the time frame of the question was "as the pandemic continues." In 2023, the time frame changed to "over the past 12 months."

Driver 2: The Future Psychology Workforce

Key Point: Psychology remains a popular career option but efforts will be needed to ensure a future workforce

+
•
◦

First, some good news

+
•
◦

Psychology in Higher Education - Now

Least-regretted college majors

Percentage of graduates who would choose the same major again

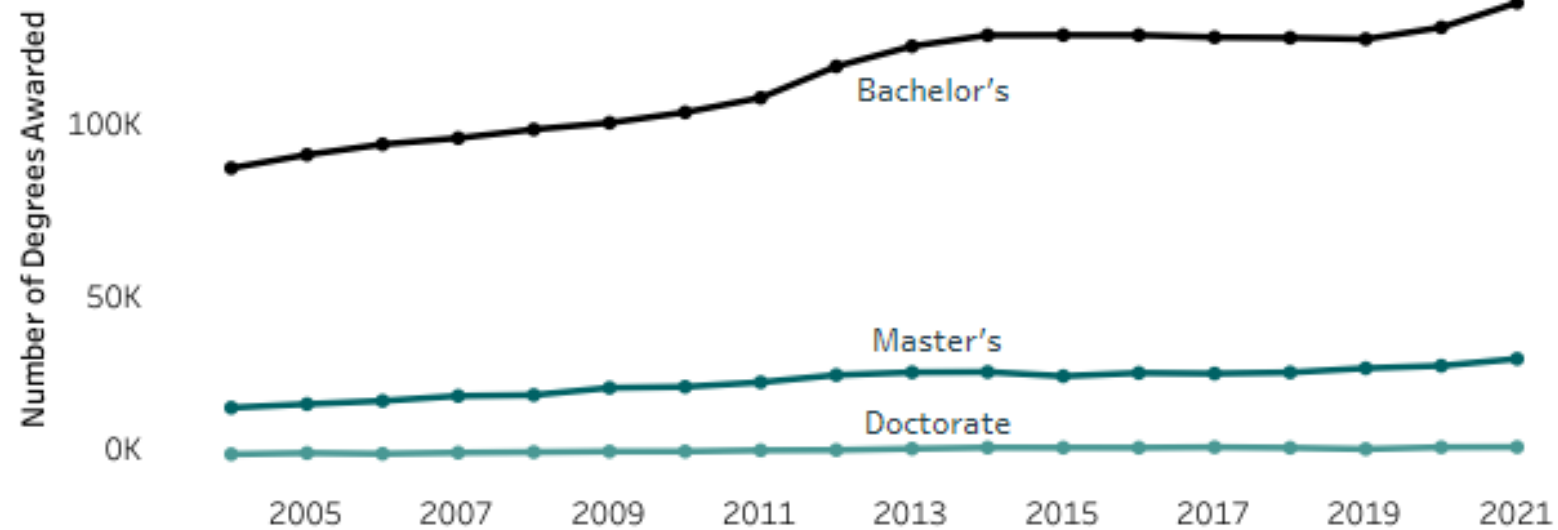


Table: Gabriel Cortes / CNBC

Source: ZipRecruiter's [monthly survey](#) of 1,500 job seekers published November 2022

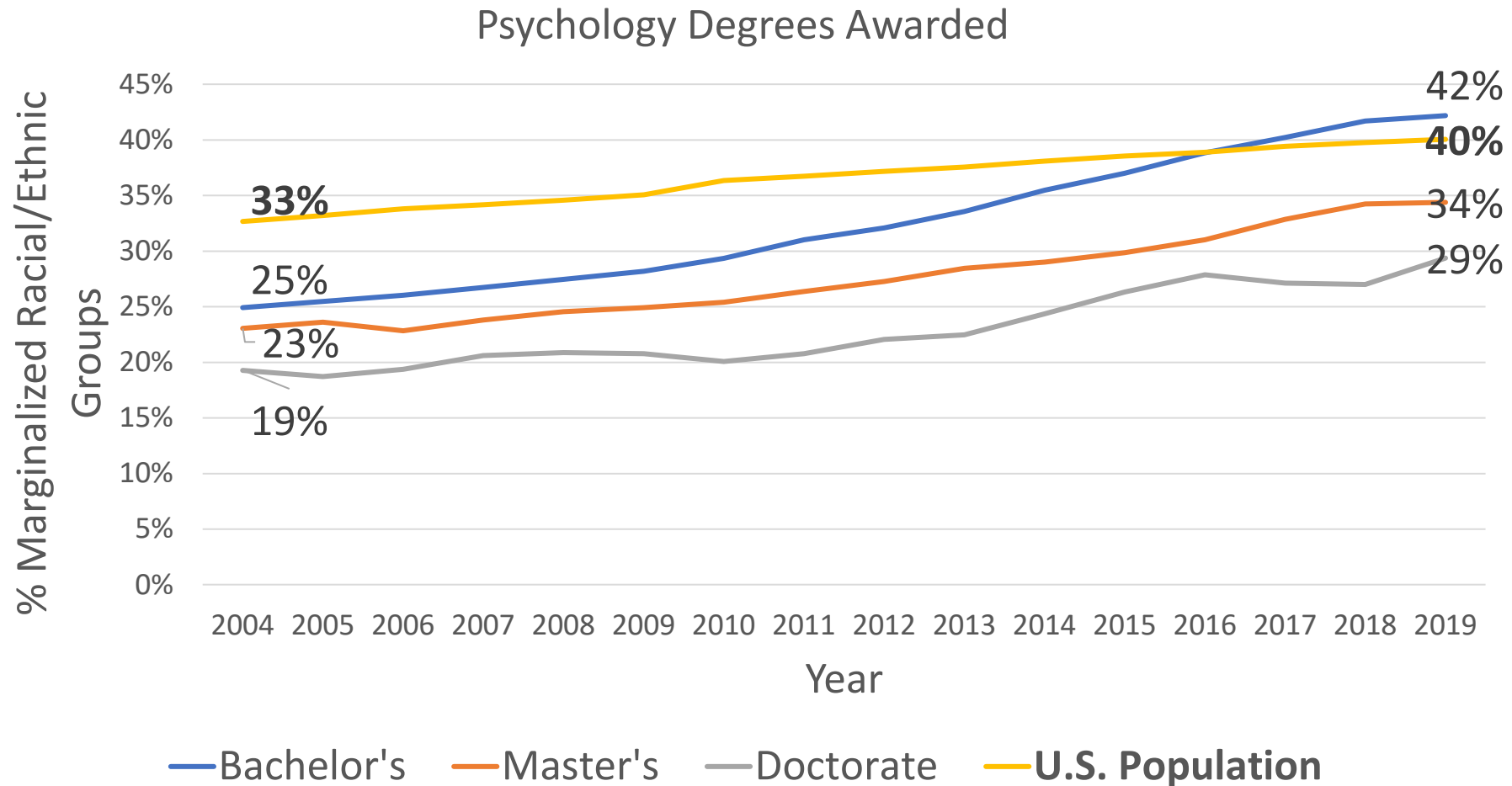


Trends in Psychology Degrees Awarded , 2004-2021



In 2021, 134,407 psychology bachelor's degrees were awarded; 32,270 psychology master's, and 6,969 psychology doctorate degrees were awarded.

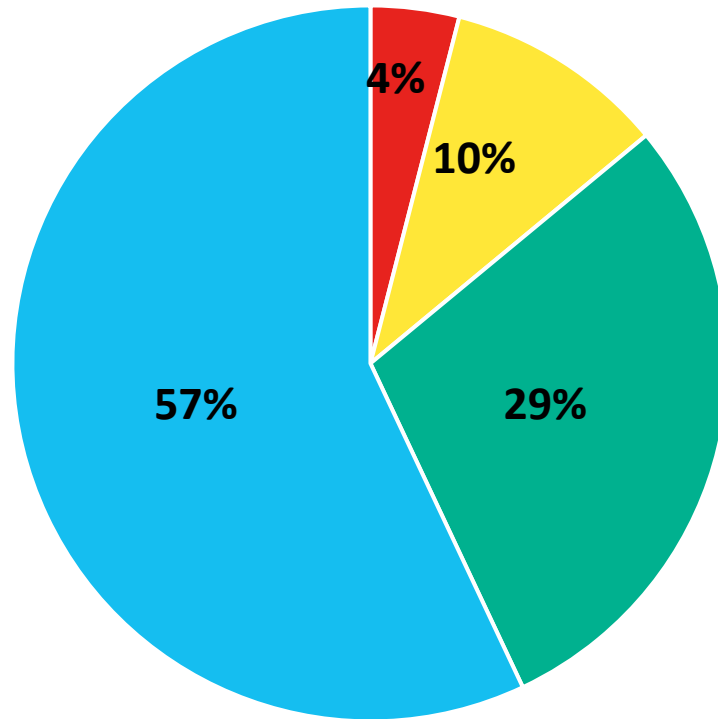
Trends in Psychology Degrees



Sources: IPEDS Completions surveys (multiple years), U.S. Census (multiple years)

Degree Pathways

3.7 Million Psych Majors



■ Psych doctorate

■ Psych masters

■ Higher degree in other field

Demographic/Enrollment Cliff(s)

- Declines in US birth rates since 2008 mean there are fewer individuals who will enter into higher education
- Without proactive efforts in a few years psychology could see dramatic drops in numbers of students studying psychology

Table 1. Annual Births by Mother's Race/Ethnicity (U.S., Thousands)

	Total	Hispanic	White	Asian/ Pacific Islander	Black	American Indian/ Alaska Native
1990	4,158	604	2,705	138	674	38
1995	3,900	680	2,435	157	593	35
2000	4,059	816	2,400	196	607	39
2005	4,138	986	2,303	221	587	41
2010	3,999	945	2,180	238	596	41
2015	3,978	924	2,152	271	594	37
2018	3,792	886	2,017	270	584	34
2019	3,746	n/a	n/a	n/a	n/a	n/a

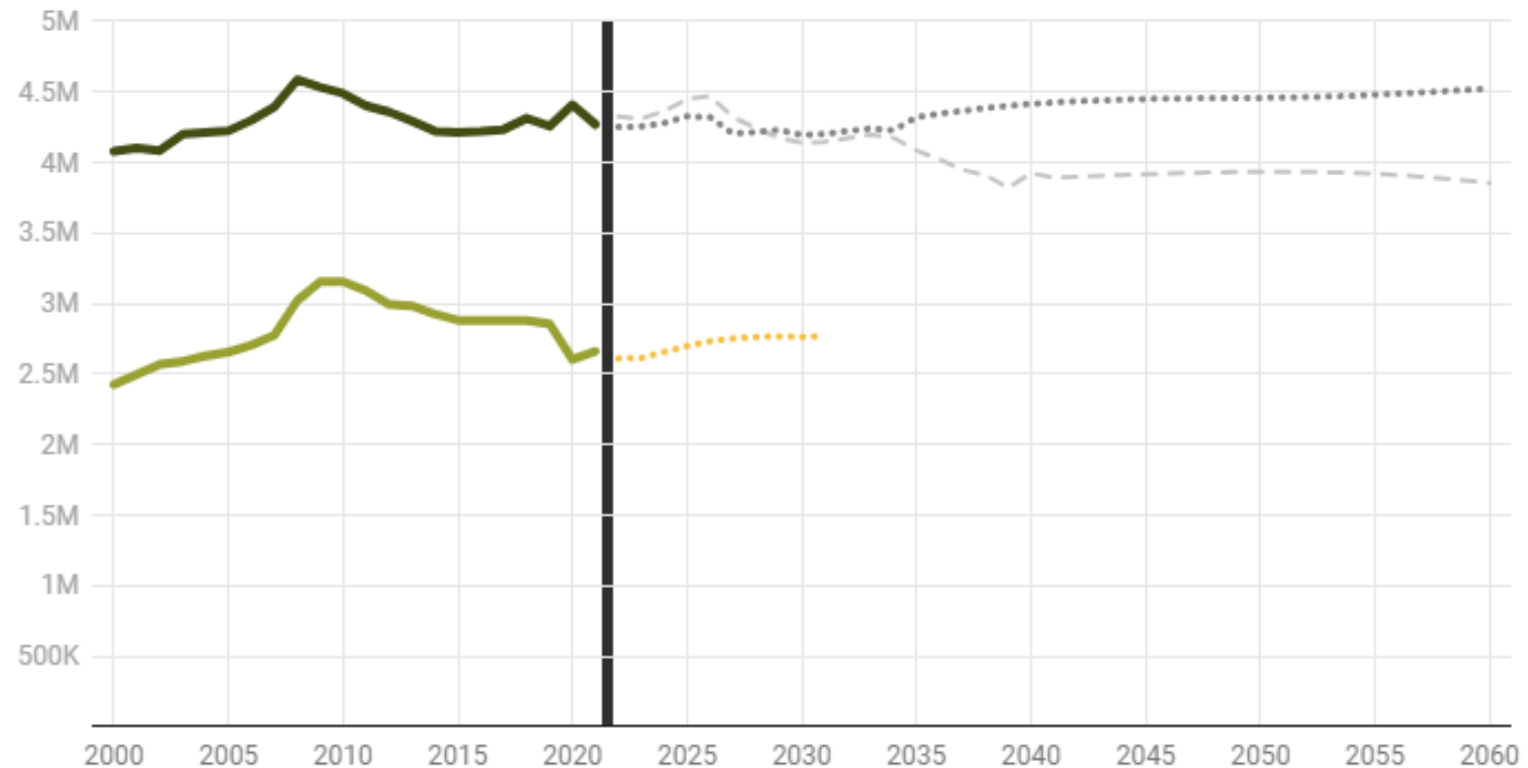
Source: WICHE analysis of natality data from U.S. Centers for Disease Control, National Center for Health Statistics. Showing selected years. The latest year available is 2018 for births by race and ethnicity, 2019 for totals.

Enrollment/Demographic Cliff(s)

Population of 18-Year-Olds Is Projected to Crater

The Census previously forecast, before the pandemic, that the number of 18-year-olds would rebound after 2035.

The **darker-shaded** lines (—) are derived from **data** sourced from the **U.S. Census Bureau**. The **lighter-shaded** lines (—), which depict estimates of freshman enrollment, are from **U.S. Department of Education data**. The — — — line represents Census estimates of America's future 18-year-old population, as modeled in 2023. The · · · and · · · lines are derived from projections preceding that 2023 modeling.



Fall 2023 Current Term Enrollment Estimates (National Student Clearinghouse Research Center)

Figure 6.1 National Undergraduate 4-year Enrollment in Top 20 Major Field Families



	2018		2019		2020		2021		2022		2023	
	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..
Business, Management, Mark..	1,610,442		1,583,841	-1.7%	1,569,487	-0.9%	1,542,523	-1.7%	1,562,103	1.3%	1,591,037	1.9%
Health Professions and Relate..	1,009,622		1,001,071	-0.8%	1,017,227	1.6%	1,004,745	-1.2%	960,284	-4.4%	951,994	-0.9%
Liberal Arts and Sciences, Ge..	916,510		875,194	-4.5%	817,847	-6.6%	796,692	-2.6%	759,394	-4.7%	760,492	0.1%
Computer and Information Sci..	444,299		468,602	5.5%	497,367	6.1%	519,039	4.4%	573,403	10.5%	627,866	9.5%
Engineering	641,137		630,309	-1.7%	614,556	-2.5%	596,149	-3.0%	589,479	-1.1%	604,860	2.6%
Biological and Biomedical Sci..	627,896		625,319	-0.4%	626,401	0.2%	608,991	-2.8%	595,608	-2.2%	600,666	0.8%
Psychology	446,643		465,283	4.2%	497,108	6.8%	516,342	3.9%	522,993	1.3%	523,249	0.0%
Education	454,296		445,136	-2.0%	455,302	2.3%	446,094	-2.0%	434,132	-2.7%	429,052	-1.2%
Visual and Performing Arts	402,956		409,357	1.6%	409,781	0.1%	415,297	1.3%	422,475	1.7%	427,917	1.3%
Social Sciences	451,504		445,651	-1.3%	437,287	-1.9%	423,289	-3.2%	404,598	-4.4%	395,121	-2.3%
Communication, Journalism, a..	322,709		318,438	-1.3%	308,734	-3.0%	283,989	-8.0%	275,874	-2.9%	272,753	-1.1%
Multi/Interdisciplinary Studies	257,040		256,500	-0.2%	257,911	0.5%	261,450	1.4%	262,523	0.4%	271,279	3.3%
Parks, Recreation, Leisure an..	235,350		232,271	-1.3%	235,155	1.2%	230,987	-1.8%	234,453	1.5%	234,684	0.1%
Security and Protective Servic..	271,742		269,458	-0.8%	271,601	0.8%	252,984	-6.9%	242,193	-4.3%	233,568	-3.6%
Physical Sciences	145,961		139,631	-4.3%	132,852	-4.9%	125,452	-5.6%	120,088	-4.3%	119,121	-0.8%
Public Administration and Soci..	132,468		129,618	-2.2%	129,714	0.1%	123,984	-4.4%	115,934	-6.5%	113,490	-2.1%
English Language and Literat..	137,284		130,784	-4.7%	122,061	-6.7%	114,826	-5.9%	113,271	-1.4%	109,482	-3.3%
Agriculture, Agriculture Operat..	98,682		97,173	-1.5%	96,710	-0.5%	96,220	-0.5%	97,735	1.6%	100,189	2.5%
Engineering Technologies/Tec..	89,559		88,470	-1.2%	86,275	-2.5%	86,519	0.3%	86,129	-0.5%	87,279	1.3%
Natural Resources and Conse..	80,333		82,294	2.4%	82,594	0.4%	84,297	2.1%	86,965	3.2%	86,343	-0.7%

Fall 2023 Current Term Enrollment Estimates (National Student Clearinghouse Research Center)

Figure 6.1 National Graduate Enrollment in Top 20 Major Field Families



	2018		2019		2020		2021		2022		2023	
	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..	Enrollment	% Change From Previous Y..
Health Professions and Relate..	672,460		684,702	1.8%	714,124	4.3%	722,844	1.2%	712,456	-1.4%	711,510	-0.1%
Business, Management, Mark..	467,359		462,616	-1.0%	483,836	4.6%	482,794	-0.2%	457,923	-5.2%	448,449	-2.1%
Education	454,245		447,696	-1.4%	463,667	3.6%	454,742	-1.9%	430,866	-5.3%	422,302	-2.0%
Computer and Information Sci..	123,570		136,956	10.8%	139,744	2.0%	162,628	16.4%	192,941	18.6%	218,617	13.3%
Engineering	165,331		164,041	-0.8%	158,291	-3.5%	167,746	6.0%	175,855	4.8%	175,795	0.0%
Psychology	122,500		128,521	4.9%	140,150	9.0%	147,927	5.5%	148,215	0.2%	147,537	-0.5%
Legal Professions and Studies	128,690		131,363	2.1%	131,376	0.0%	139,431	6.1%	136,492	-2.1%	137,349	0.6%
Public Administration and Soci..	127,244		126,946	-0.2%	129,979	2.4%	132,804	2.2%	126,672	-4.6%	122,355	-3.4%
Biological and Biomedical Sci..	88,231		91,670	3.9%	95,239	3.9%	100,090	5.1%	102,911	2.8%	105,993	3.0%
Multi/Interdisciplinary Studies	34,173		36,582	7.0%	38,321	4.8%	45,075	17.6%	59,060	31.0%	75,370	27.6%
Social Sciences	62,619		61,110	-2.4%	61,285	0.3%	62,050	1.2%	60,786	-2.0%	58,892	-3.1%
Physical Sciences	53,900		54,062	0.3%	53,554	-0.9%	54,721	2.2%	54,591	-0.2%	54,944	0.6%
Visual and Performing Arts	50,912		50,285	-1.2%	48,548	-3.5%	49,255	1.5%	48,169	-2.2%	46,580	-3.3%
Theology and Religious Voca..	46,723		45,881	-1.8%	45,817	-0.1%	44,350	-3.2%	44,155	-0.4%	45,926	4.0%
Mathematics and Statistics	34,976		36,024	3.0%	35,286	-2.0%	36,825	4.4%	36,820	0.0%	36,663	-0.4%
Agriculture, Agriculture Operat..	29,637		29,180	-1.5%	29,054	-0.4%	29,839	2.7%	28,715	-3.8%	29,448	2.5%
Communication, Journalism, a..	26,533		27,033	1.9%	28,995	7.3%	30,459	5.0%	28,962	-4.9%	27,586	-4.8%
Security and Protective Servic..	29,535		29,585	0.2%	31,874	7.7%	31,548	-1.0%	28,721	-9.0%	27,125	-5.6%
English Language and Literat..	30,324		29,333	-3.3%	29,187	-0.5%	29,559	1.3%	27,282	-7.7%	25,895	-5.1%
Engineering Technologies/Tec..	15,447		15,785	2.2%	16,672	5.6%	17,936	7.6%	20,549	14.6%	21,858	6.4%

Changing Educational Landscape: Growth in Alternative Educational Models

70 million Coursera learners; 70% one-year increase in profits¹

68% agree certificate from vocational school more valuable than university degree²

¹Business Wire, 2021; ²Pearson, 2019

Other Factors to Consider

- Affordability of higher education

Driver 3: Education and Training

Key Point: How and what we teach is evolving



**IPEC CORE COMPETENCIES
FOR INTERPROFESSIONAL
COLLABORATIVE PRACTICE:
VERSION 3**

Published November 20, 2023



- Competencies

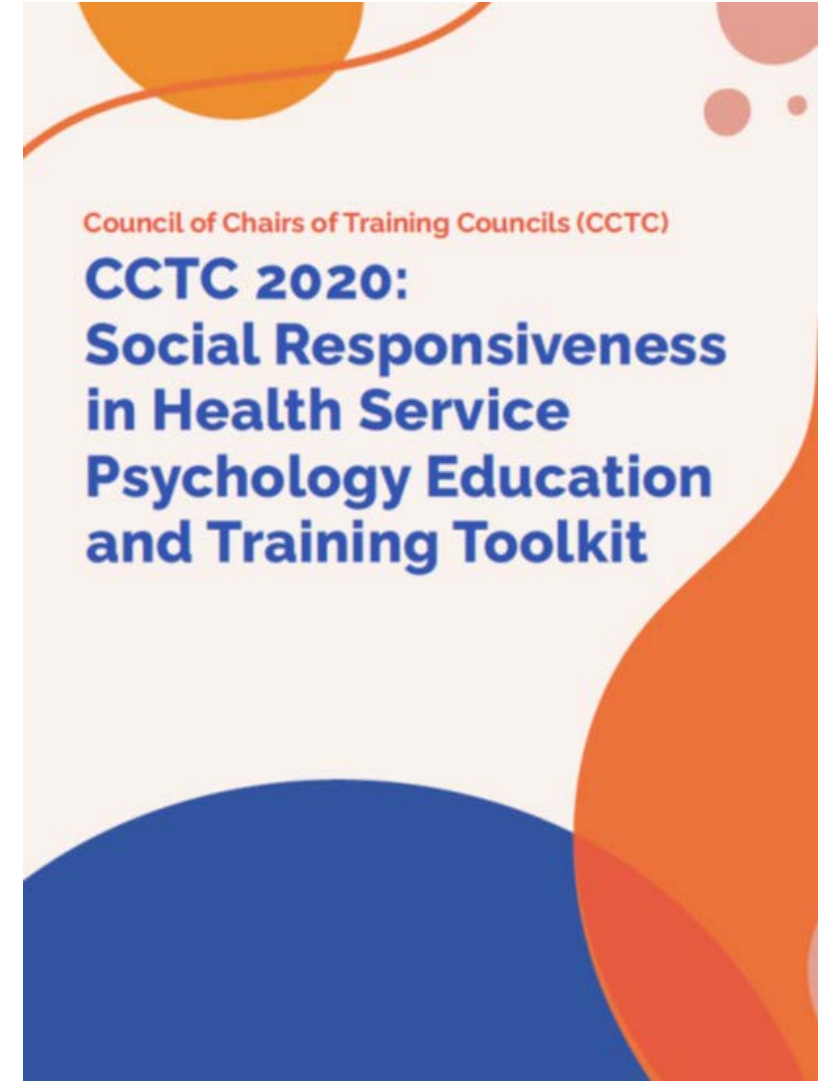
- Values and Ethics
- Roles and Responsibilities
- Communication
- Teams and Teamwork

- Subcompetencies

- Values and Ethics +1
- Roles and Responsibilities -5
- Communication -1
- Teams and Teamwork -1

CCTC Social Responsiveness Toolkit

- Social responsiveness toolkit
- 9 modules provide strategies and resources for educators
- Special issues of TEPP and PPRP provide further support for enhancing socially responsive education and training
- **Social Responsiveness Toolkit**



CCTC Social Responsiveness Toolkit Modules

- Module 1: Diversifying the HSP pipeline
- Module 2: Revisiting Our Program Structures With Increased Shared Governance
- Module 3: Liberating and Transforming Our Curriculum Toward Social Responsiveness Across All Levels of Training
- Module 4: Moving Toward Socially Responsive HSP Research Training
- Module 5: Socially Responsive Ethics and Professionalism
- Module 6: Social Justice and Advocacy
- Module 7: Community Engagement
- Module 8: Socially Responsive Evaluation of Students, Faculty and Supervisors
- Module 9: Lifelong Learning

APA Racial Equity Action Plan (2022)



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**PSYCHOLOGY'S ROLE IN
DISMANTLING SYSTEMIC RACISM**

Racial Equity Action Plan





Knowledge Production

Spearheading research that addresses social, institutional, and structural challenges, while promoting equitable and inclusive methodologies to advance racially conscious knowledge production and scholarship.



Health

Promoting, contributing to, and advancing health equity within communities of color and engaging in social innovation to strengthen and expand community-informed mental health services.



Workforce

Advancing equity, diversity, and inclusion to foster psychologically healthy workplaces.



Educational Equity

Opening pathways for students of color to succeed in psychology careers and promoting racial equity in education.

Supreme Court – Race and Admissions



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APA Policy Statement on Equitable and Inclusive Student Admissions in Higher Education

AUGUST 2023

On June 29, 2023, a majority of the U.S. Supreme Court struck down the use of race-conscious admissions programs in public and private colleges and universities. In so ruling, the Court majority overturned decades of legal precedent and ignored psychological science on which colleges and universities have relied in seeking to address the underrepresentation of students of color to achieve a diverse student body. The court majority decided that such admissions policies violate the Equal Protection Clause of the 14th Amendment of the U.S. Constitution. Justice Ketanji Brown Jackson wrote in her dissent, which relied heavily on the APA *amicus* brief and the psychological science the brief presented:

[D]eeming race irrelevant in law does not make it so in life. And having so detached itself from this country's actual past and present experiences, the Court has now been lured into interfering with the crucial work that UNC and other institutions of higher learning are doing to solve America's real-world problems. (*Students for Fair Admissions, Inc. v. President and Fellows of Harvard College*, 2023, p. [233])

The Supreme Court majority in *Students for Fair Admissions, Inc. v.*

The U.S. Supreme Court's Majority Decision Striking Down Race-Conscious Admissions Will Not Achieve Color-Blindness or Make Race Irrelevant on Most College Campuses

The court's decisions will worsen underrepresentation of certain racial and ethnic groups at higher education institutions that are not Historically Black Colleges and Universities (HBCUs) or tribal colleges and universities. One recent study, examining enrollment data from 53 public universities in states with and without bans, found that having a ban reduced representation of racial and ethnic minorities by a staggering 37% (Ly et al., 2022). In states without bans, representation *increased* by 0.7%. Other studies have observed similar impacts (Garces, 2013). The drop in admitted students of color at Primarily White Institutions (PWIs) is well documented. Black undergraduate enrollment at the University of Michigan at Ann Arbor dropped from 7% in 2006 to 4% in 2021 after Michigan banned affirmative action in 2006. The number of Black students at the University of California Los Angeles fell from 7% in 1996 to 3.13% in 1998.

Generative AI in the Classroom



Personal Tutor

Concept clarification
Article summary
Real word application



Brainstorming

Provide talking points for
discussion facilitation



Exam preparation

Generate practice
questions



Writing coach

Grammar and style
checks
Argument strengthening
Revision strategies



Stats tutor

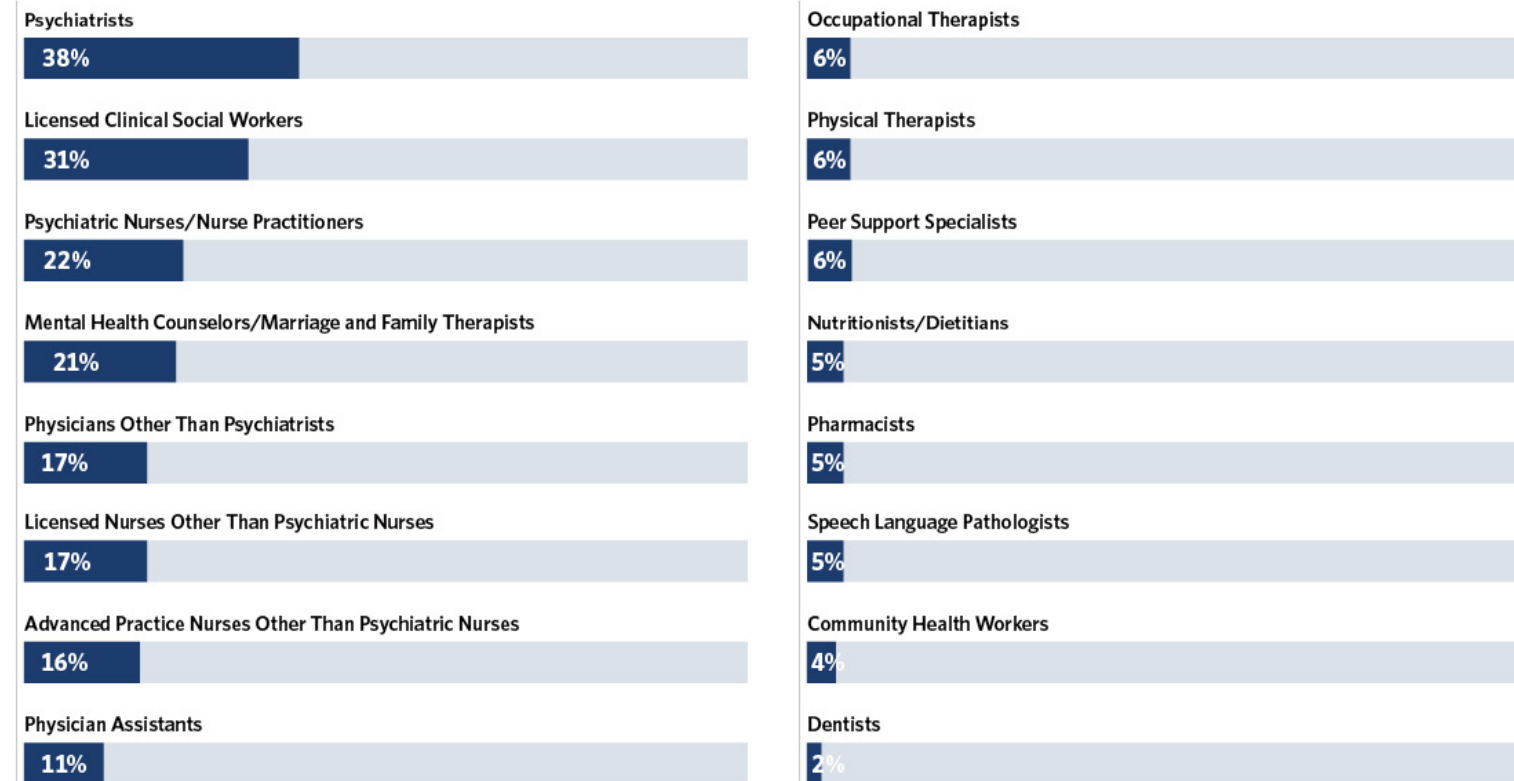
Software guidance
Statistical assumptions
Selecting the correct
analysis

Driver 4: Clinical Practice

**Key Point: How we provide care is
changing**

PROFESSIONALS THAT PSYCHOLOGISTS HAVE SERVED WITH ON CARE TEAMS IN THE LAST 12 MONTHS, 2023

% PSYCHOLOGISTS FREQUENTLY/VERY FREQUENTLY WORKING WITH EACH TYPE OF PROFESSIONAL



Health Service Psychologists across Areas of Specialty



Select an Area of Specialty: [i](#)

- ☐ Behavioral and Cognitive Psychology
- ☐ Clinical Psychology
- ☐ Clinical Child and Adolescent Psychology
- ☒ Clinical Health Psychology
- ☐ Clinical Neuropsychology
- ☐ Counseling Psychology
- ☐ Couple and Family Psychology
- ☐ Forensic Psychology
- ☐ Geropsychology
- ☐ Psychoanalysis
- ☐ School Psychology



14% of health service psychologists specialize in **Clinical Health Psychology**.
Select a section below to see their characteristics.

Demographic, Licensure,
and Board-Certification

Degrees, Training,
and Areas of Specialty

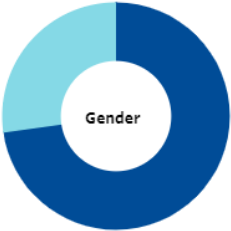
Work Hours, Work
Activities, and Telehealth

Work Settings and
Treatment Areas

Populations Served

Show Instructions

Show Documentation



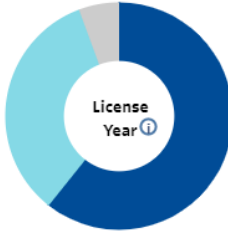
Female
Male



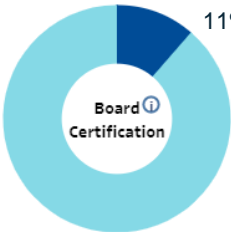
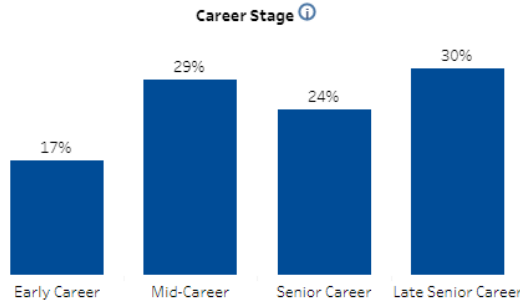
People of Color
White



Licensed in 1 state
Licensed in 2 or more states



Licensed within 1 year since doctorate
Licensed 2-4 years since doctorate
Licensed 5 or more years since doctorate



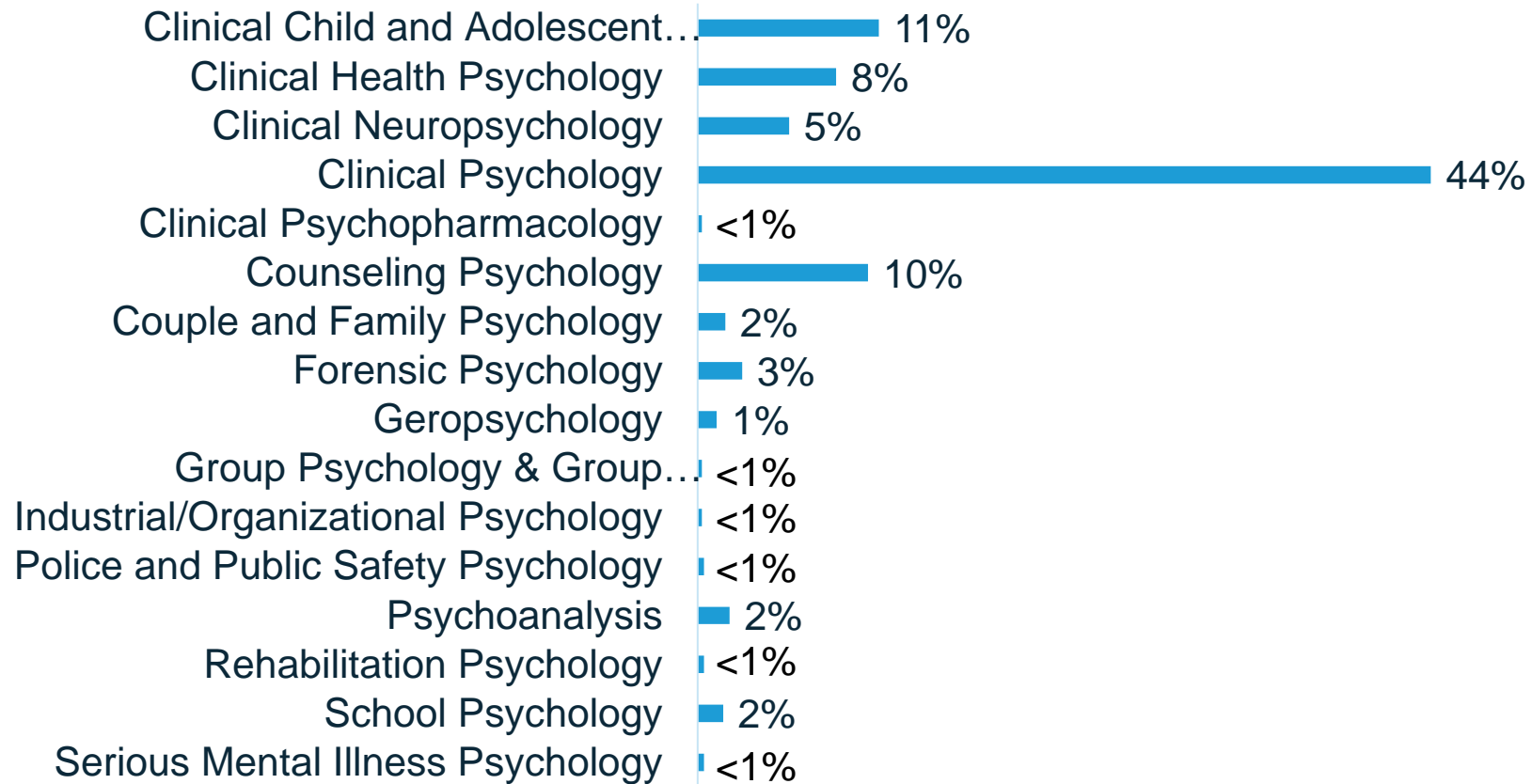
Board-certified
Not board-certified

11%

In total, approximately 4,000 (4%) of
licensed psychologists in the United
States were board-certified. [i](#)

6% of board-certified psychologists
were certified in the area of **Clinical
Health Psychology**.

Self-Reported Primary Specialties



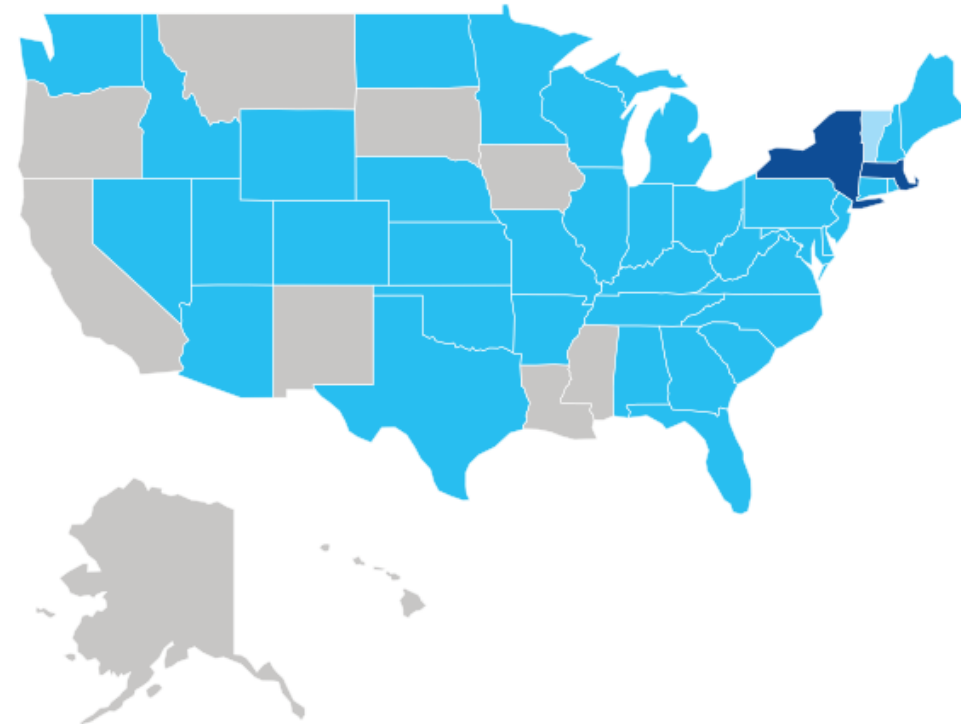
Technology

- Digital therapeutics
 - the use of software programs to deliver evidence-based and validated interventions to treat or manage mental and behavioral health disorders
- Digital mental health tools
 - Apps and computer software
 - Wellness
- AI
 - Diagnosis, treatment plans
 - Ethical considerations

Interjurisdictional Practice

PSYPACT Participating States

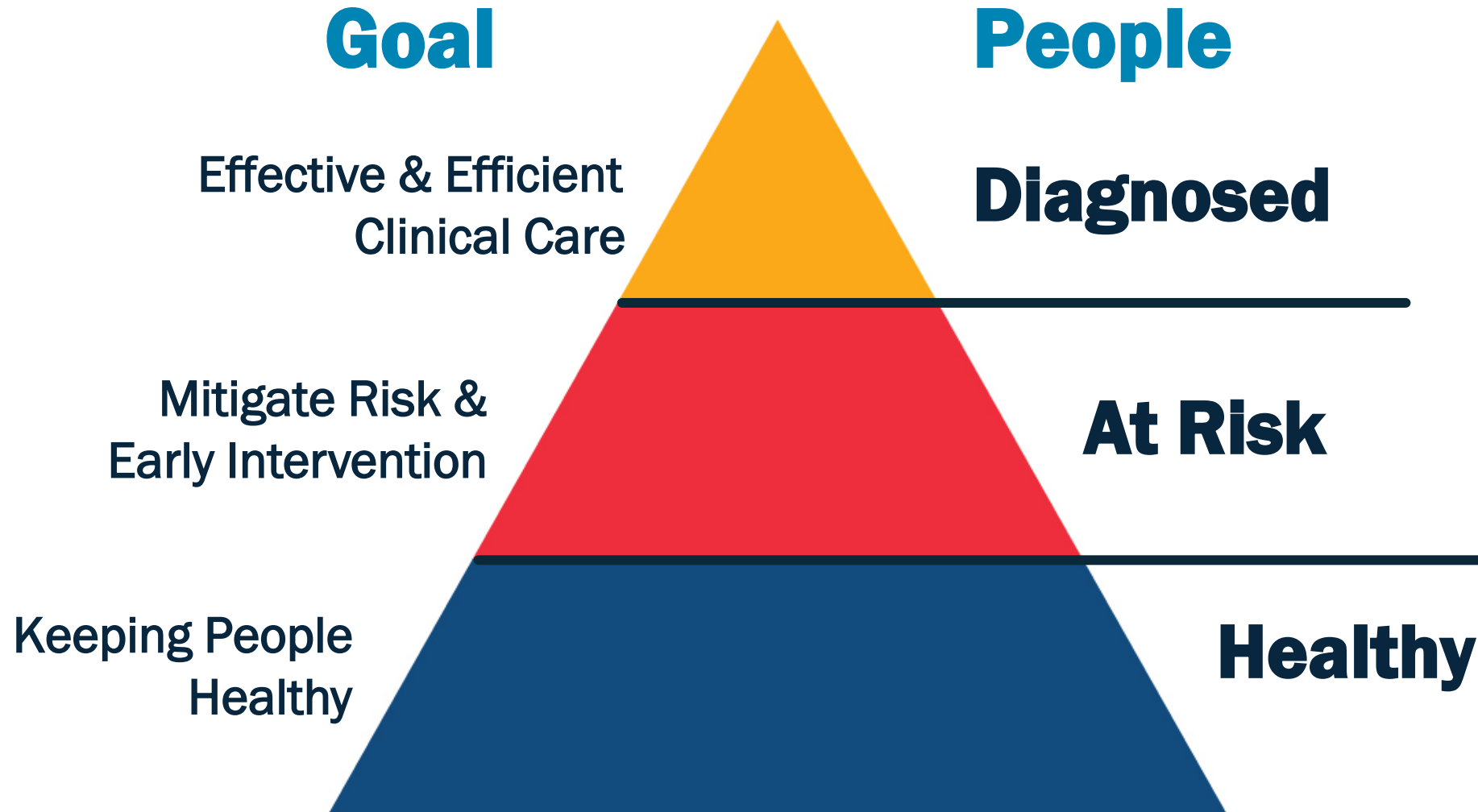
- PSYPACT participating state
- Enacted PSYPACT legislation
(*practice under PSYPACT not yet permitted*)
- PSYPACT legislation introduced



Population health

- “improving the health, health equity, safety, and wellbeing of entire populations, including individuals within those populations”

Population Health Approach





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Psychology's Role in Advancing Population Health

FEBRUARY 2022

Population health focuses on improving the health, health equity, safety, and wellbeing of entire populations, including individuals within those populations. This approach is supported by a multidisciplinary science base from psychology as well as sociology, cultural anthropology, medicine, economics, education, and other disciplines. Population health aims to address the cultural, economic, systemic, historical, environmental, relational, and occupational contexts that influence health status, wellbeing, and functioning across the lifespan. Its ultimate goal is to foster equitable human flourishing.

Consistent with a social-ecological framework (see Fig. 1 in the Appendix), APA affirms that an individual's health cannot be considered in isolation from the relationships, communities, and societies to which the individual belongs. There are major influencers and social determinants of health outside of the traditional healthcare system that include, but are not limited to, education, work and work

Many of today's key population health issues—including vaccination, climate change, addiction, violence, and trauma—involve important psychological components. The science and expertise that psychology brings to these challenges should continue to be recognized and promoted. Psychological scientists, educators, consultants, practitioners, and trainees are encouraged to engage in the design, implementation, operation, and evaluation of new and existing population health models. It is crucial for such models to be grounded in, and to promote, human rights and ethics. Because the pace of change in society is so rapid, it is important to continually evaluate the effectiveness, cost-effectiveness, efficiency, and impact of these models. APA calls on the discipline and profession of psychology to support a population health approach. APA encourages its members, committees, divisions, and boards to use the following principles as a “lens” through which activities for health promotion can be viewed:

Psychology as a Multi- tiered Profession

Assembly on the Value and Distinctiveness of the Doctoral Degree (2021)

The doctoral degree/license adds significant value within our multi-tiered profession.

- Evaluation, specialty practice, leadership, interprofessional teamwork
- Areas that include and go beyond direct service provision
- Multiple tiers within the profession may be important to advance population health, wherein doctoral psychologists' practice with a scope of greatest complexity in both breadth and depth.

Science characterizes and distinguishes psychology, and it undergirds all education and practice.

- Doctoral professionals are adept at understanding and utilizing science to make complex decisions to improve the health of the people and communities we serve.

Equity, diversity, and inclusion (EDI) is foundational to psychology and effective health care.

- The psychology workforce must diversify and reflect the U.S. population.
- Developing and maintaining competence in EDI is essential across the professional lifespan of the psychology practitioner.

Themes from the APA Summit on the Future of Education and Practice – Vision for Moving Forward (2021)

- Inclusive
 - Master's practitioners
 - Interprofessional collaborative practice
- Expansive
 - New roles, responsibilities, services
- Representative
 - Increased diversity in the workforce
 - What we teach, how we teach, our science
- Responsive
 - Continuous quality improvement efforts

Delphi Poll on the Future



Conducted in order to provide a glimpse into the field's probable future **10 years from now.**



Master's level providers with psychology degrees will increase their contribution to psychology more than other providers



Telehealth will increase more than other modalities



Specialization, supervision, leadership, and consultation differentiate master's and doctoral



Training will include more emphasis on technology and EDI



More psychologists will work in integrated care, fewer in independent private practice

Neimeyer, G. J., Macura, Z., Grus, C. L., Skillings, J. L., Bufka, L. F., & Rose, S. A. (2022). The future of education and practice in health service psychology: A Delphi study. *Professional Psychology: Research and Practice*, 53(2), 116–126. <https://doi.org/10.1037/pro0000445>

Closing Comments

Change is inevitable, the choice is incremental or transformative

- How many are needed?
- At what educational level?
- How to ensure a vibrant future?
- What should we be teaching?
- What will we be doing?

“The future depends on what you do today.”

— Mahatma Gandhi



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ASSOCIATION

Thank you!

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