

The Impact of Service-Obligated Providers on Health Care in New York State

Highlights

- Over 1,500 service-obligated providers are practicing in New York State.
- Physicians and nurse practitioners represent the largest number of professionals fulfilling service obligations in the state.
- More than one-third of service-obligated practitioners in New York State are in behavioral health occupations
 or subspecialties.
- The North County and the Mohawk Valley regions have the highest number of service-obligated primary care providers in New York State per capita.

Background

There have been longstanding concerns about the uneven access to health care services, particularly for vulnerable populations, including individuals who are either racial and ethnic minorities, elderly, and/or Medicaid beneficiaries. One of the factors that is believed to contribute to these disparities is a lack of providers available to meet the health care needs of vulnerable populations in underserved communities. While New York has a relatively abundant supply of health professionals, they are not well distributed, 1, 2 and this ultimately contributes to poor health outcomes, especially for vulnerable populations.

In response to concerns about workforce availability as a barrier to health care access, several state and federal service-obligated programs have been developed to encourage health professionals to practice in high-need communities in return for scholarships or loan repayment. The average educational debt for medical school graduates in 2019 was slightly over \$201,000.3 Average debt for dental school graduates was significantly higher at more than \$292,000.4 Professions eligible to participate in these service-obligated programs include physicians, dentists, nurse practitioners, physician assistants, registered nurses, and behavioral health professionals, among others.

All federally sponsored service-obligated providers must fulfill their commitments in designated Health Professional Shortage Areas (HPSAs) or in Medically Underserved Areas or Populations (MUAs/Ps).⁵ HPSAs are designated for shortages of primary care, dental, or behavioral health providers, and MUAs/Ps are only designated for primary care providers. According to the Health Resources and Services Administration (HRSA), as of June 30, 2020, New York State had 165 geographic, special population, and facility primary care HPSAs; 129 geographic, special population, and facility oral health HPSAs; and 174 geographic, special population, and facility behavioral health HPSAs.⁶ Additionally, New York State has 133 designated MUAs/Ps.⁷

For state-sponsored service-obligated programs, the commitment can be fulfilled in HPSAs, MUAs/Ps, state-defined shortage areas, state-operated facilities, or state-funded facilities.* In addition to service obligated programs that provide either loan repayment or scholarships, foreign-born physicians who train in the United States (US) on J-1 visas can waive their required 2-year return to their home country in return for practicing in the US in HPSAs or in MUAs/Ps. For a list and brief description of service-obligated programs available to those wishing to work in New York, see Appendix A.

This research brief describes the health professionals who are currently fulfilling their service obligations in New York State, including the regional distribution of their practice locations.

^{*} Includes prisons, Office of Mental Health and Office of People with Developmental Disabilities facilities, and Office of Addiction Services and Suports funded organizations.

Data used in this analysis were provided by the New York State Department of Health (NYSDOH), Division of Workforce Transformation and by the Health Resources and Services Administration (HRSA), National Health Service Corps (NHSC). The data included counts of providers by county of practice location and by profession for each of the service-obligated programs. Counts are displayed by Department of Labor (DOL) regions. Counties were considered rural or urban based on Ebert's Typology.† For a list of New York State counties by rural/urban status and by DOL region, see Appendix B. Data on the New York State Higher Education Service Corps (HESC) Loan Forgiveness for Licensed Social Workers is reported only statewide and is from the HESC 2018–2019 Annual Report.8

Limitations

This research brief provides a snapshot as of March 31, 2020 on the number of service-obligated health professionals practicing in underserved communities across the state. The actual number may vary somewhat since some providers may have completed their obligations while others are just beginning theirs. Additionally, impacts of the COVID-19 pandemic on individuals fulfilling their service obligations, including furloughs, layoffs, or redeployments, are not reflected in this analysis.

A small number of providers are fulfilling their service obligations at more than one site. These providers are counted only once in this analysis, though they may be working in more than one county or in more than one region. Counts of social workers fulfilling service obligations through HESC are not displayed by region in the tables or broken out by rural and urban status. The counts of physicians fulfilling service obligations through the US Department of Health and Human Services Exchange Visitor program were not available and not included in this analysis.

Provider types are not available for the NHSC Substance Use Disorder (SUD) loan repayment recipients. Finally, the number of service obligated providers working in behavioral health were undercounted. Nurse corps recipients could not be linked to specific sites.

Over 1,500 service-obligated providers are practicing in New York State.

Over 1,500 health care professionals were fulfilling service obligations in New York State as of March 31, 2020, (Table 1) including:

- More than 600 NHSC loan repayment recipients
- About 111 NHSC Nurse Corps recipients
- Nearly 330 physicians through New York State programs, including Doctors Across New York (DANY), DANY Office of Mental Health Psychatrists Loan Repayment Program, and the Regents Physican Loan Forgiveness Program
- Nearly 350 licensed social workers through HESC and NHSC

New York City had the largest number of service-obligated providers (588), followed by the Finger Lakes (152), and Western New York (136) regions. The Long Island (13) and the Capital District (24) regions had the fewest number of service-obligated providers.

Just over 42% of service-obligated providers from NYS-DOH-sponsored programs (DANYS and Primary Care Service Corps) worked in rural areas compared to 23% from federally sponsored programs. Additionally, 45% of J-1 visa waiver recipients practiced in rural areas.

A Perspective from a Current Behavioral Health Service-Obligated Provider



Dr. Danielle RossPsychiatric Nurse Practitioner,
Current NHSC Loan Repayment Recipient

Dr. Ross grew up in Jamestown and attended Jamestown Community College for her Associate Degree in Nursing. She

completed her baccalaureate in nursing at Daemen College and her DNP at University at Buffalo. Dr. Ross started at The Chautauqua Center in 2015 and stated:

This loan repayment program has allowed me to stay in Jamestown and opened up my heart to reaching individuals that I might not have been able to reach working somewhere else.

[†] New York State Public Health Law, Article 2, Title 2SC, Section 235.

TABLE 1. Number of Service-Obligated Providers in New York State, by Program, by Region of Practice, and by Rural-Urban Practice Location

| Region | J-1 Visa Waiver Programs | | State Sponsored Programs | | | | Federally Sponsored Programs | | | | Total | |
|------------------|-----------------------------|--------------|--------------------------|-------------|------|---------|------------------------------|-------------|---------|---------|----------------|-------|
| | ARC | Conrad 30 | DANY | DANY OMH | PCSC | Regents | HESC SW | NHSC LRP | NHSC SP | S2S LRP | Nurse Corps | |
| Capital District | 0 | 1 | 7 | 2 | 0 | 3 | N/A | 7 | 0 | 0 | 4 | 24 |
| Central New York | 3 | 8 | 14 | 1 | 1 | 2 | N/A | 43 | 2 | 4 | 13 | 91 |
| Finger Lakes | 0 | 5 | 18 | 1 | 1 | 12 | N/A | 95 | 7 | 2 | 11 | 152 |
| Hudson Valley | 0 | 1 | 8 | 4 | 0 | 2 | N/A | 30 | 2 | 3 | 1 | 51 |
| Long Island | 0 | 0 | 5 | 1 | 2 | 0 | N/A | 5 | 0 | 0 | 0 | 13 |
| Mohawk Valley | 10 | 4 | 13 | 2 | 4 | 1 | N/A | 32 | 0 | 1 | 3 | 70 |
| New York City | 0 | 53 | 71 | 5 | 7 | 81 | N/A | 282 | 14 | 12 | 63 | 588 |
| North Country | 0 | 10 | 26 | 0 | 7 | 0 | N/A | 40 | 1 | 0 | 6 | 90 |
| Souther Tier | 12 | 2 | 18 | 0 | 1 | 2 | N/A | 15 | 0 | 1 | 5 | 56 |
| Western New York | 16 | 8 | 16 | 3 | 6 | 8 | N/A | 70 | 2 | 2 | 5 | 136 |
| | | | | | | | | | | | | |
| Rural | 41 | 19 | 79 | 0 | 16 | 10 | N/A | 150 | 4 | 6 | 18 | 343 |
| Urban | 0 | 73 | 117 | 19 | 13 | 101 | N/A | 469 | 24 | 19 | 93 | 928 |
| Total | 41 | 92 | 196 | 19 | 29 | 111 | 267 | 619 | 28 | 25 | 111 | 1,538 |

Physicians and nurse practitioners represent the largest number of professionals fulfilling service obligations in the state.

There were more than 600 physicians fulfilling service obligations in New York State, with over half (316) practicing

in New York City (Table 2). In addition, 353 licensed social workers, 205 nurse practitioners (NPs), 86 licensed clinical social workers, and 80 physician assistants were fulfilling service obligations in the state as well. Twenty-seven percent of physicians and NPs practiced in rural areas. Less than one-quarter of dentists worked in rural areas.

TABLE 2. Number of Service-Obligated Providers, by Profession, by Region of Practice, and by Rural-Urban Practice Location

| Region | Nurse Midwives | Dentists | Dental Hygienists | Health Services Psychologists | Licensed Social Workers | Licensed Professional Counselors | Marriage and Family Therapists | Nurse Practitioners | Nursing Faculty | Physicians | Physician Assistants | Registered Nurses | Substance Abuse Disorder Workforce | Total |
|------------------|-------------------|----------|----------------------|-------------------------------------|-------------------------------|--|--------------------------------------|------------------------|--------------------|------------|-------------------------|----------------------|---|-------|
| Capital District | 0 | 2 | 0 | 1 | 3 | 0 | 0 | 2 | 1 | 13 | 1 | 1 | 0 | 24 |
| Central NY | 0 | 1 | 2 | 2 | 14 | 8 | 2 | 11 | 0 | 36 | 2 | 7 | 6 | 91 |
| Finger Lakes | 5 | 6 | 3 | 0 | 7 | 14 | 1 | 21 | 0 | 58 | 16 | 7 | 14 | 152 |
| Hudson Valley | 0 | 10 | 2 | 0 | 1 | 0 | 0 | 5 | 0 | 29 | 4 | 0 | 0 | 51 |
| Long Island | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 6 | 0 | 0 | 0 | 13 |
| Mohawk Valley | 1 | 3 | 0 | 0 | 5 | 2 | 0 | 14 | 0 | 35 | 9 | 0 | 1 | 70 |
| New York City | 16 | 31 | 1 | 11 | 29 | 5 | 0 | 102 | 2 | 316 | 30 | 25 | 20 | 588 |
| North Country | 2 | 5 | 2 | 0 | 14 | 7 | 1 | 15 | 2 | 37 | 4 | 0 | 1 | 90 |
| Souther Tier | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 9 | 0 | 37 | 2 | 2 | 0 | 56 |
| Western NY | 2 | 7 | 4 | 0 | 6 | 11 | 0 | 23 | 1 | 62 | 12 | 1 | 7 | 136 |
| | | | | | | | | | | | | | | |
| Rural | 5 | 15 | 8 | 2 | N/A | 15 | 1 | 56 | 3 | 171 | 25 | 4 | 8 | 313 |
| Urban | 21 | 52 | 6 | 12 | N/A | 33 | 3 | 149 | 3 | 458 | 55 | 39 | 41 | 872 |
| Total | 26 | 67 | 14 | 14 | 353 | 48 | 4 | 205 | 6 | 629 | 80 | 43 | 49 | 1,538 |

More than one-third of service-obligated practitioners in New York State are in behavioral health occupations or subspecialties.

In total, more than one-third of all service-obligated practitioners were in behavioral health occupations or subspecialties, including nurse practitioners, physicians, and physician assistants; psychologists; social workers; licensed professional counselors; and those providers fulfilling a SUD service obligation.

The North County and the Mohawk Valley regions have the highest number of service-obligated primary care providers in New York State per capita.

There were 640 primary care providers[‡] who fulfilled service obligations throughout New York State, or 3.3 per 100,000 total population. While the North Country and the Mohawk Valley regions were the most sparsely populated regions of the state, they had the highest number of primary care providers per capita fulfilling service obligations at 10.5 and 6.2 per 100,000, respectively (Figure 1).

While the New York City region had the largest number of primary care providers with 328, it represented only 3.9 primary care providers per 100,000.

A Perspective From a Provider Who Completed Her Service Obligation



Dr. Suzanne Bergin *Internal Medicine,*2012 DANYS Recipient

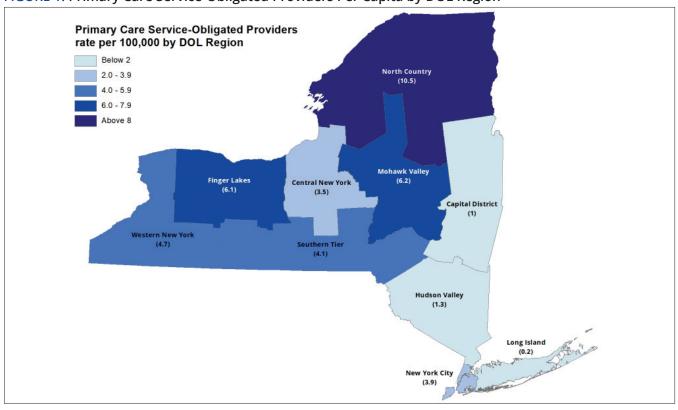
Dr. Bergin grew up in Saratoga Springs and went to Syracuse University for undergraduate studies and the New York

College of Osteopathic Medicine for her medical degree. After completing her residency training in Massachusetts, Dr. Bergin began practicing at Hudson Headwaters in 2012 where she has worked ever since and is now the Associate Chief Medical Officer. According to Dr. Bergin:

I wanted to provide service to an area that truly needed me and that I grew up in. Loan repayment through DANY helped me do that.

‡ Includes nurse midwives, nurse practitioners, physicians, and physician assistants working in primary care practices.

FIGURE 1. Primary Care Service-Obligated Providers Per Capita by DOL Region



Discussion

As of March 31, 2020, there were over 1,500 service-obligated providers providing primary care, behavioral health, and dental services in federal- and state-designated shortage areas throughout New York State. They make important contributions to workforce capacity and to expanded access to health care services, at least in the short term. Service-obligated programs in combination with other workforce strategies can assist in recruiting providers, especially in rural areas. Examples of additional strategies include recruiting providers who grew up in underserved areas or providing training opportunities for health professionals in shortage areas.9-11 It is also important to assure professional support is available to service obligated providers and to promote community amenities in efforts to recruit providers for practice in underserved communities. Proximity to family, professional advancement, professional support networks, and social and environmental factors such as the quality of local schools and recreational opportunities are also important factors in recruitment, especially for providers with families.^{9,12,13} Both Dr. Bergin and Dr. Ross are currently serving in areas where they were raised.

Conclusion

Most service-obligated programs provide needed educational debt relief for health professionals willing to provide care in federal- or state-designated shortage areas. Additionally, certain service-obligated programs allow foreign-trained physicians to remain in the United States upon completion of their residency training. Ultimately, service-obligated programs must be used in conjunction with other strategies to ensure long-term access to care, especially for vulnerable populations. Maintaining funding for federal and state service-obligated programs as well as for federal shortage area designations will ensure continued recruitment of providers to serve these vulnerable populations.

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| Program | Summary | Professionals Supported |
|--|---|---|
| Appalachian Regional Commission | The Appalachian Regional Commission works with health care organizations or individual physicians to request a waiver for the 2-year home residency requirement for foreign-trained physicians holding J-1 visas. Physicians are required to practice in primary care health professional shortage areas in rural Appalachian counties. | Foreign-trained physicians |
| Diversity in Medicine Scholarships | The Diversity in Medicine Scholarship Program is funded by the New York State Department of Health and administered through the Associated Medical Schools of New York. It is intended to support all or part of one year of medical school tuition for students who are from educationally and/or economically underserved backgrounds. In exchange for tuition support, recipients agree to work in an underserved area in NYS upon completion of their medical education. | Physicians |
| Doctors Across New York | The New York State Doctors Across New York is a series of initiatives to help recruit physicians to and encourage them to remain in medically underserved areas of New York State. The program provides for loan forgiveness and practice support. | Physicians |
| Doctors Across New York OMH Psychiatrists Loan Repayment Program | The New York State Doctors Across New York OMH Psychiatrists Loan Repayment Program is a service-obligated loan forgiveness program for psychiatrists working in OMH facilities. | Psychiatrists |
| Health and Human Services J-1 Visa Waiver Program for Clinical Services | The US Department of Health and Human Services works with physicians to request a waiver for the 2-year home residency requirement for foreign-trained physicians holding J-1 visas. Physicians are required to practice in mental health or in primary care health professional shortage areas. | Foreign-trained physicians in primary care or in general psychiatry |
| HRSA Faculty Loan Repayment Program | The Faculty Loan Repayment Program helps is a service-obligated loan forgiveness program to recruit and retain health professions faculty members by encouraging students to pursue faculty roles in their respective health care fields. | Physicians, oral health providers, behavioral health providers, registered nurses, allied health, and others. |
| Indian Health Service Loan Repayment | The Indian Health Service Loan Repayment Program is a service-obligated loan forgiveness program, which funds loan repayment options for eligible health profession education loans. Clinicians are required to practice in health facilities serving American Indian and Alaska Native communities. | Physicians, oral health providers, behavioral health providers, registered nurses, allied health, and others |
| National Health Services Corps Loan Repayment Program | The National Health Service Corps Loan Repayment Program is a service-obligated loan forgiveness program designed to recruit and retain medical, nursing, dental, and behavioral/mental health clinicians in eligible communities of need designated as health professional shortage areas. | Physicians, oral health providers, behavioral health providers, registered nurses, allied health, and others |
| National Health Service Corps Scholarship Program | The National Health Service Corps Scholarship Program provides scholarships to students pursuing primary care health professions training in return for a commitment to provide primary health services in a Health Professional Shortage Area. | Dentists, certified nurse- midwives, family nurse practitioners, physicians (primary care), and physician assistants (primary care) |
| National Health Service Corps Students to Service Loan Repayment Program | The National Health Service Corps Students to Service Loan Repayment Program is a service-obligated loan forgiveness program for students in their last year of medical or dental school. Students are required to practice in eligible communities of need designated as health professional shortage areas. | Medical or dental school students in their final year of school |
| Nurse Corps Scholarship | The Nurse Corps Scholarship Program provides scholarships to nursing students in exchange for a service commitment at an eligible health care facility with a critical shortage of nurses. | Registered nursing students |
| New York State Licensed Social Worker Loan Forgiveness Program | The New York State Licensed Social Worker Loan Forgiveness Program is a service-obligated loan repayment program for licensed social workers working in critical human service areas. | Social workers |

| Program | Summary | Professionals Supported |
|---|---|--|
| New York State Nursing Faculty Loan Forgiveness Incentive Program | The New York State Nursing Faculty Loan Forgiveness Incentive Program is a service-loan loan repayment program for nursing faculty members and adjunct clinical faculty teaching in the field of nursing. | Registered nurses who possess a master's degree or doctoral degree for nursing faculty or adjunct clinical faculty |
| Senator Patricia K. McGee Nursing Faculty Scholarship | The Senator Patricia K. McGee Nursing Faculty Scholarship Program provides scholarships to registered professional nurses enrolling in graduate programs that will qualify them as nursing faculty or adjunct clinical faculty. | Registered nurses enrolled in accredited NYS master's or doctoral level program in nursing or related program |
| New York State Conrad 30 | New York "State 30" program works with health care organizations of physicians to request a waiver for the 2-year home residency requirement for foreign-trained physicians holding J-1 visas. Physicians are required to practice in federally designated underserved areas. | Foreign trained physicians |
| New York State Primary Care Service Corps | The New York State Primary Care Service Corps Loan Repayment Program is a service-obligated loan repayment program that is designed to increase the supply of certain clinical practitioners in health professional shortage areas. | Oral health providers, behavioral health providers, advanced practice nurses, allied health, and others |
| Public Service Loan Forgiveness | The Public Service Loan Forgiveness Program forgives the remaining balance on your direct loans after you have made 120 qualifying monthly payments (ie, 10 years of payments) under a qualifying repayment plan while working full-time for a qualifying employer. | All health care providers working at qualifying organizations |
| Regents Loan Forgiveness Award Program | Regents Physician Loan Forgiveness Award Program is a service-obligated loan repayment program for primary care, internal medicine, emergency medicine, or psychiatric physicians who provide services in a Regents-designated shortage area or shortage facility. | Physicians in primary care, internal medicine, emergency medicine or psychiatry |

| Region | County | Rural/Urban Status |
|------------------|---------------------------------|--------------------|
| | Albany County | Urban |
| | Columbia County | Rural |
| | Greene County | Rural |
| 6 3 15 | Rensselaer County | Rural |
| Capital District | Saratoga County | Urban |
| | Schenectady County | Rural |
| | Warren County | Rural |
| | Washington County | Rural |
| | Cayuga County | Rural |
| | Cortland County | Rural |
| Central New York | Madison County | Rural |
| | Onondaga County | Urban |
| | Oswego County | Rural |
| | Genesee County | Rural |
| | Livingston County | Rural |
| | Monroe County | Urban |
| | Ontario County | Rural |
| Finger Lakes | Orleans County | Rural |
| | Seneca County | Rural |
| | Wayne County | Rural |
| | Wyoming County | Rural |
| | Yates County | Rural |
| | Dutchess County | Urban |
| | Orange County | Urban |
| | Putnam County | Rural |
| Hudson Valley | Rockland County | Urban |
| | Sullivan County | Rural |
| | Ulster County | Rural |
| | Westchester County | Urban |
| Long Island | Nassau County | Urban |
| Long Island | Suffolk County | Urban |
| | Fulton County | Rural |
| | Herkimer County | Rural |
| Mohawk Valley | Montgomery County | Rural |
| Worldwk Valley | Oneida County | Urban |
| | Otsego County | Rural |
| | Schoharie County | Rural |
| | Bronx County | Urban |
| | Kings County (Brooklyn) | Urban |
| New York City | New York County (Manhattan) | Urban |
| | Queens County | Urban |
| | Richmond County (Staten Island) | Urban |

| Region | County | Rural/Urban Status |
|------------------|---------------------|--------------------|
| | Clinton County | Rural |
| | Essex County | Rural |
| | Franklin County | Rural |
| North Country | Hamilton County | Rural |
| | Jefferson County | Rural |
| | Lewis County | Rural |
| | St. Lawrence County | Rural |
| | Broome County | Rural |
| | Chemung County | Rural |
| | Chenango County | Rural |
| Southern Tier | Delaware County | Rural |
| Southern her | Schuyler County | Rural |
| | Steuben County | Rural |
| | Tioga County | Rural |
| | Tompkins County | Rural |
| | Allegany County | Rural |
| | Cattaraugus County | Rural |
| Western New York | Chautauqua County | Rural |
| | Erie County | Urban |
| | Niagara County | Urban |

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Established in 1996, CHWS is an academic research center based at the School of Public Health, University at Albany, State University of New York (SUNY). The mission of CHWS is to provide timely, accurate data and conduct policy relevant research about the health workforce. The research conducted by CHWS supports and promotes health workforce planning and policymaking at local, regional, state, and national levels.

