

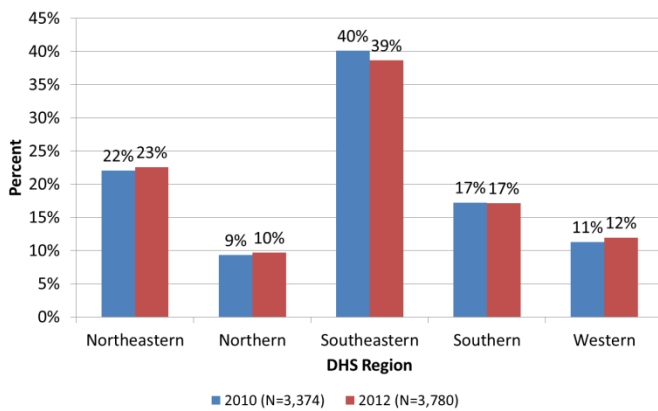


Department of Health Services, State of Wisconsin, September 2012
At a Glance: Wisconsin Clinical Laboratory Science Workforce Survey Report, 2012

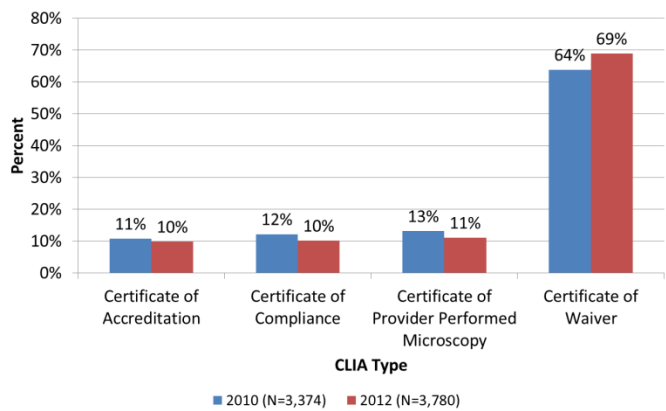
Clinical laboratory science professionals are integral to the public health workforce. In addition to performing routine clinical laboratory testing for assessment of health and treatment of disease, these professionals are at the forefront of identifying infectious/communicable diseases, anti-microbial resistance patterns, and implementing emerging technologies such as molecular biological methods which are rapidly changing the field of clinical laboratory science. CLIA certification ranges from Certificate of Waiver (can perform only relatively simple tests) to Certificate of Compliance or Accreditation (can perform high complexity testing, e.g., molecular biology methods). In July and August, 2012, the Wisconsin Department of Health Services (DHS) conducted this survey to assist educational institutions, hospitals, clinics, and others in workforce planning to assure a sufficient, competent, and diverse workforce. Results from 2012 are compared with results from the survey conducted in 2010.

CLIA-Certified Laboratories, Wisconsin

Percent of CLIA-Certified Laboratories by DHS Region, 2010 and 2012



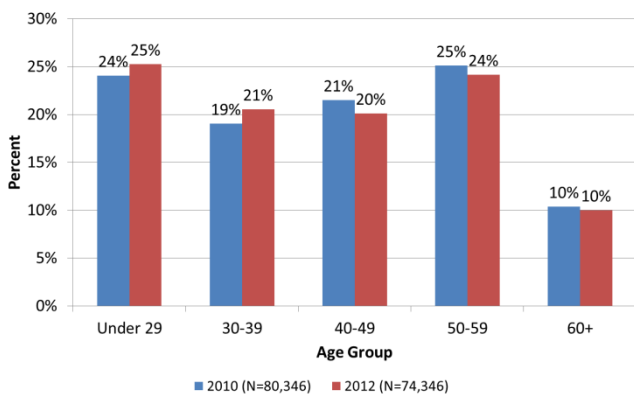
Percent of CLIA-Certified Laboratories by CLIA Type, 2010 and 2012



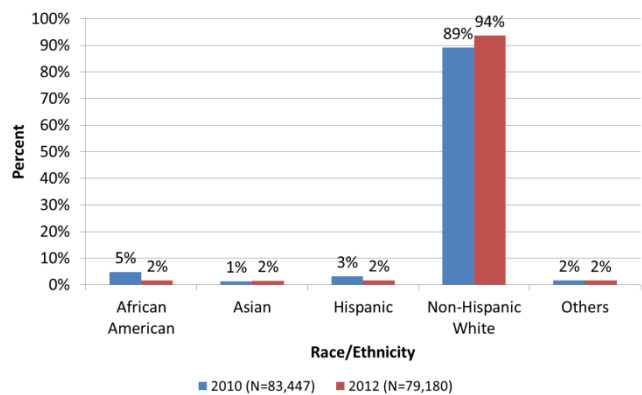
Source: Wisconsin Department of Health Services, Wisconsin Clinical Laboratory Science Workforce Survey.

Employees of Respondent Laboratories by Age and Race/Ethnicity, Wisconsin

Percent of Employees by Age Group, 2010 and 2012



Percent of Employees by Race/Ethnicity, 2010 and 2012



Source: Wisconsin Department of Health Services, Wisconsin Clinical Laboratory Science Workforce Survey.

Emergency Preparedness and Response

- 70% of 408 respondent clinical laboratories indicated they had an Emergency Preparedness and Response Plan, which was unchanged from 2010.
- Of the 396 laboratories responding to the emergency response training question, 139 (35%) indicated that 100% of their employees were trained in emergency response and preparedness, compared to 33 percent in 2010.

Estimated Statewide Full-Time Equivalent (FTE) Laboratory Employees by Job Title, Wisconsin

| Job Title/Discipline | Estimated FTEs Statewide | | Estimated FTE Vacancies, Statewide | |
|---|--------------------------|---------------|------------------------------------|-------------|
| | 2010 | 2012 | 2010 | 2012 |
| <i>Staff with clinical laboratory professional education and training</i> | | | | |
| Pathologists | 737 | 769 | 8 | 11 |
| MD's | * | 1,607 | * | 34 |
| Mid-level providers | * | 830 | * | 0 |
| Pathology Assistants | 76 | 163 | 0 | 0 |
| Managers/Administrators | 2,917 | 3,313 | 38 | 90 |
| Certified Medical Technologists - MT(ASCP), CLT(NCA), etc. | 7,826 | 6,731 | 130 | 202 |
| Medical Technologists (non-certified) | 3,066 | 727 | 0 | 56 |
| Certified Medical Laboratory Technicians - MLT(ASCP), CLT(NCA), etc. | 2,981 | 7,581 | 277 | 105 |
| Medical Laboratory Technicians (non-certified) | 694 | 836 | 9 | 34 |
| Phlebotomists | 5,210 | 5,002 | 258 | 162 |
| Histotechnologists (Bachelor of Science degree, B.S.) | 303 | 243 | 0 | 0 |
| Histotechnician | 570 | 508 | 36 | 11 |
| Cytologists | 428 | 409 | 0 | 36 |
| Cytogenetic Technologists | 246 | 314 | 0 | 45 |
| Molecular Biologists | 47 | 808 | 0 | 56 |
| <i>Other professionals who perform laboratory testing</i> | | | | |
| Registered Nurses | 4,571 | 5,983 | 108 | 192 |
| Licensed Practical Nurses | 2,986 | 2,132 | 100 | 28 |
| CMA/MA | 1,061 | 3,927 | 28 | 196 |
| CNA/NA | 8,198 | 4,957 | 280 | 503 |
| Other | 9,420 | 11,244 | 454 | 671 |
| Total | 51,337 | 58,084 | 1726 | 2432 |

Source: Wisconsin Department of Health Services, Wisconsin Clinical Laboratory Science Workforce Survey.

“*” indicates data were not collected.

Note: Estimated statewide numbers of FTE laboratory employees by job title were based on FTEs reported by the respondent laboratories, and calculated using a multiplier of 11.2. These estimates assume that all Wisconsin laboratories have a distribution of employees by discipline similar to that of the respondent laboratories that completed the survey. The formula used to calculate the multiplier was: $424/3,780 \times 100 = 11.2$.

Internships

- 4.8% of laboratories said they accepted Medical Technologist interns. Of those not accepting interns, the top three reasons were not having an internship program (23%), availability of teaching staff (18%), and lack of facility capacity (17%). Other reasons included finances (5%), lack of any candidates (4%), liability concerns (4%) and lack of any qualified candidates (3%). This data was not collected in 2010.

Survey Methods: The survey universe consisted of the 3,780 laboratories in Wisconsin that were CLIA-certified as of April 2, 2012. A sample of 1,196 laboratories stratified by CLIA type and DHS region was drawn from the universe list. In July 2012, laboratories in the sample were contacted by U.S. mail and asked to complete the survey on the Internet at the Wisconsin DHS, Division of Quality Assurance (DQA) Clinical Laboratory website. A follow-up postcard was mailed to laboratories that did not respond to the initial request. This yielded a response rate of 35%, with 424 of 1,196 laboratories completing the survey. The data were adjusted by post-stratification weighting so the results conformed to the characteristics (CLIA laboratory type and DHS region) of the survey universe. This survey is primarily non-governmental. The local health department workforce is described in the *Local Health Department Survey* at <http://dhs.wisconsin.gov/stats/index.htm>.

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