The following report is one of two reports in this edition of the journal that highlight what ASCO has achieved over the past 12 years in the areas of cultural competence and diversity. (Click here to read the other report, “The Path to Cultural Competence in Optometric Education and Practice: a Timeline to Multicultural Clinical Excellence.”)

The cornerstones of the Association’s efforts have been the Diversity and Cultural Competency Committee (DCCC) and its Cultural Competency Curriculum Guidelines Subcommittee (CCCGS).

The mission of the DCCC is:

- To enhance the possibility that students from under-represented minority groups will become interested in careers in optometry and apply to, be accepted by, and graduate from schools and colleges of optometry
- To encourage institutional diversity and cultural competency efforts across the nation’s schools and colleges of optometry
- To develop national partnerships to explore and identify ways to share expertise, best practices and resources regarding diversity, recruitment and cultural competence across the spectrum of education/research/practice

The DCCC was formed as a task force in 2005 and became a standing committee in 2011 with a vision of achieving diversity and cultural competence in optometric education and patient care. The committee has made great strides, including the development of cultural competency curriculum guidelines in 2008. The charge of the CCCGS was to facilitate and encourage implementation of the curriculum guidelines at the schools and colleges of optometry. The subcommittee met its charge and was discontinued in June 2015.

ASCO wishes to acknowledge the many contributors to the DCCC and the CCCGS, as well as those who helped to lay crucial groundwork in the Association’s cultural competency and diversity efforts, all of whom have moved the needle forward in these important endeavors. Special thanks go to Edwin C. Marshall, OD, MS, MPH, FAAO, FNAP (Indiana University), who chaired the ASCO Diversity Task Force and the ASCO Cultural Competence Guidelines Work Group, Larry Davis, OD (UMSL), who chaired the DCCC over the past three years, and Barbara Fink, OD, MS, PhD (OSU), who chaired the CCCGS to implement training workshops at 18 schools and colleges of optometry.

ASCO Diversity Task Force (2006-2008)
Chair, Edwin C. Marshall, OD, MS, MPH, FAAO, FNAP (Indiana University)
Robert E. Horn, MS (PCO)
Liduvina Martinez-Gonzalez, MS (SUNY)
Sam Quintero, OD (University of Houston)
Jeffrey J. Walline, OD, PhD (OSU)
Cynthia G. Heard, OD (AAO)
Teisha Johnson, MS (ICO)
Renee Mika, OD (AOA)
Gerald Simon, OD (UAB)
Hector C. Santiago, OD, PhD (ASCO Executive Committee)
Paige Pence, BA (ASCO staff)
Enid-Mai Jones, MA, MSEd (former ASCO staff)

As you read this report, it is important to keep in mind that achievement and maintenance of cultural competency and diversity are continuous journeys. As such, the report serves as a signpost as we continue on this road.
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the student body and faculty in our schools and colleges of optometry. Along with our colleagues all over the country, we recognize the importance of diversity. We realize it is a worthy goal to achieve, and that it begins with our student body.

The Merriam-Webster dictionary defines diversity as the condition of having or being composed of differing elements. Over the course of history, the demographic composition of the United States has become increasingly more racially and ethnically diverse. According to the 2010 Census, the U.S. population was 308,745,538, 36% of which was comprised of various minority groups (Black or African American, Hispanic or Latino, Native Hawaiian or other Pacific Islander, American Indian or Alaska Native, Asian, and Other) (Figure 1). In 2015, the minority population represented 40% of the total U.S. population. Our healthcare workforce and the optometric workforce currently do not reflect the changing racial and ethnic diversity of our country. According to the Bureau of Health Workforce of the Health Resources and Services Administration of the U.S. Department of Health and Human Services, the health professions workforce, on average, is predominantly White: 79.9% of all health professionals and 79.7% of the optometric workforce are White. There is clearly an imbalance in the racial and ethnic diversity represented within optometry as compared to the U.S. population. This type of mismatch contributes to differences in health status and access to care for many citizens. In 2003, the Institute of Medicine (IOM) warned of the “unequal treatment” minorities face when encountering the health system. Cultural differences and a lack of access to health care, combined with high rates of poverty and unemployment, contribute to substantial ethnic and racial disparities in health status and health outcomes. Access to eye care has not been spared from these trends. Children from impoverished and rural neighborhoods have very limited access to eye care after failing a vision screening, which disproportionately impacts children from poor households. Diabetic patients of color in underserved neighborhoods at federally qualified health centers (FQHCs) do not have adequate access to eye care because only 18% of FQHCs have on-site eye clinics.

Health services research has shown that minority health professionals are likely to serve minority and medically underserved populations. The IOM recommends increasing the number of minority health professionals as a key strategy for eliminating health disparities.

Many health professions, such as medicine, pharmacy, nursing and radiology, have created a call to action to increase diversity in their ranks. (See our recommended call to action for optometry below.) In order to diversify the optometry workforce, we must first examine and expand the racial and ethnic diversity of our student body and faculty.

Cultural and linguistic competence influences how optometrists deliver health care. The cultural challenges posed by a shifting patient demographic can be addressed by optometrists who are educated and trained in a culturally dynamic environment, which includes the student body as well as the patients served by each academic institution. Students from different backgrounds can learn from one another and, hence, have a positive impact on the care of the patient and in the perspectives of care delivery. Patients receiving care from providers of the same race/ethnic background have reported higher satisfaction.

This report aims to review the data ASCO has compiled from its member schools over the past 10 years, which includes information about gender, race and ethnicity. The report examines trends, reviews current initiatives and recommends a call to action.

Data and Analysis

Data on optometry students and the United States population from 2006 to 2016 were obtained and analyzed as described herein. ASCO Student Data Reports are publicly available on the Association’s website. The reports aggregate data on enrolled students by male or female gender and ethnic identification as reported by each of 21 schools and colleges of optometry (Table 1). Ethnic identification is self-reported by students and is listed in seven categories: Black or African American, Hispanic or Latino, American Indian or Alaska Native, Asian, Native Hawaiian or other Pacific Islander, White, or Other. The gender and ethnic identification data from these reports were collated into spreadsheets by school and analyzed for trends over time. Additionally, the data were summed with descriptive statistics for all schools by year to
analyze trends over time (Figures 2-4).

In 2006, 5,377 students were enrolled in optometry school. By 2016, 6,900 students were enrolled in optometry school, an increase of 28.3% during this time period. In 2006 and in 2016, the majority of students were female, 63.1% and 67.1%, respectively. The number of female students steadily rose in that time from 3,393 in 2006 to 4,633 in 2016 (a 28.7% increase), while the number of male students remained stable until 2010, when slight increases started to occur (from 1,984 in 2006 to 2,267 in 2016, a 14.3% increase).

In 2006, of the seven racial and ethnic categories to which students self-reported, 63.2% identified as White and 23.3% identified as Asian. Other racial and ethnic groups, which include Hispanic or Latino, Black or African American, American Indian or Alaska Native, Native Hawaiian or other Pacific Islander, and Other made up (individually) 5.1% or less of the total. As of 2016, the largest percentage of the student body (82.2%) remained White and Asian. While the numbers of students identifying as Hispanic or Latino, Black or African American, American Indian or Alaska Native, Native Hawaiian or other Pacific Islander, and Other have generally increased, the percentage of students in each category has largely remained stagnant. There has been a decrease in the percentage of White students, from 63.2% in 2006 to 54.2% in 2016. However, the total number of White students had increased from 3,399 in 2006 to 3,737 in 2016. The only racial and ethnic category that has registered increases in the total number and percentage of students is Asian, from 1,252 (23.3%) in 2006 to 1,931 (28.0%) in 2016, an increase of 54.2%.

In Academic Year 2016, ASCO added the category of Two or More Races to its Student Data Report, which changed the way students self-identified. For consistency, this new category was included in the category of Other for the purposes of this report. The category of Other has not exhibited a consistent trend throughout the years, which may be due to different interpretations by individual students.

Discussion

The analysis of optometry student data from the previous decade reveals both success and opportunity for increasing diversity. The percentage of female students is trending up in most schools and colleges and in recent years has exceeded the percentage of women in the U.S. population (50.8% in 2015 according to the Census). The number of optometry students from minority groups is significantly lower than the number of minorities in the U.S. population. Minority inclusion in the optometry student body mirrors that of other health professions and demonstrates a widening discrepancy between the future healthcare workforce and the U.S. population.

ASCO and its member institutions have embraced the concepts of diversity and multiculturalism in optometric education and in the profession. The Developing a Diverse Applicant Pool in Optometric Education Mini-Grant Program provided seed money for specific programs/projects that assisted schools and colleges of optometry with programs designed to implement educationally sound activities for recruiting and retaining under-represented minority (URM) students, financially disadvantaged students and first-generation college students. This 10-year project has opened doors for URM students but has made little impact on the overall diversity of the student body.
Optometry is not alone in recognizing the need for a diversified workforce. In addition to other health professions, business and the entertainment industry are demonstrating a growing appreciation for and commitment to diversity and inclusiveness. There are lessons to be learned from the success of these other industries. Fortune 500 companies have realized that diverse companies create more innovative products, happier customers and better financial returns. The Academy of Motion Picture Arts and Sciences (AMPAS) has felt the sting of not embracing diversity, not only from actors, directors, producers and the press, but more importantly from the consumers of movies. In January 2016, following two consecutive years of Oscar awards with no nominations of actors of color, the AMPAS Board of Governors unanimously made significant changes to increase diversity, which include recruitment of women and under-represented minorities to its membership and board. AMPAS initiatives were clearly a reaction to the outcry of the public, but the commitment to excellence through diversity was lauded.

It is clear that a single strategy will not create meaningful change. Optometry needs to approach the problem from multiple fronts. While most professions do not start recruiting potential students until high school, ASCO should consider developing programs that introduce young minority students to optometry as early as middle school and continue throughout high school. This is an ideal opportunity for ASCO to partner with state and local optometric organizations to develop outreach programs that could be deployed in communities with large minority populations. The diversity mini-grants have yielded success in a number of schools and colleges of optometry, and consideration for a national program should be on the agenda.

Nursing includes several examples of pipeline strategies that have increased the number of minority students recruited out of high school who successfully complete nursing programs. Recruiting strategies that target undergraduate college students are also valuable. Unfortunately, studies indicate that female and minority students are less likely to consider a career in the science, technology, engineering or math (STEM) fields and are more likely to change majors in undergraduate school. Minority students often start STEM majors facing additional barriers when compared to their White peers. Some colleges and universities are developing programs to address these barriers with the hope of creating a larger pool of minority applicants for graduate and health professions programs. The best students are being recruited by multiple programs. Individual schools of optometry might consider the feasibility of early admission for promising undergraduate students.

Conclusion

The benefits of a racially and ethnically diversified student population are numerous and have been outlined in this report as well as landmark white papers from the Macy Foundation and the Sullivan Commission. Diversification is not a quota that needs to be filled, but an area of excellence that requires a commitment from each school and college of optometry. Leadership is needed not only from our schools, their Boards of Trustees, senior administration, faculty and staff, but also from the profession as a whole. The applicant pool is stagnant, and each school and college is competing for the same group of students. Addressing the diversity gap not only moves the profession forward, but helps to enrich the applicant pool. Nonetheless, this commitment needs to be a part of the culture and fabric of our institutions. In order for the profession of optometry to be diverse, change is required immediately. A diverse student body is the beginning of a diverse optometric workforce, which will also lead to diverse optometric leadership for the profession.

ASCO has made a commitment through the development of a cultural competency curriculum. Fourteen of its 23 member schools have participated in cultural competency curriculum implementation workshops. Many schools have explored pipeline programs through the ASCO diversity mini-grant program. However, these activities have produced only local change. They have not translated to significant change holistically, as documented in this paper. A high commitment needs to be embraced. Optometry’s diversity can no longer afford to be different than the diversity of the U.S. population. Diversity is a strength and asset to the profession. We can learn from other health professions (medicine, nursing, etc.), AMPAS and Fortune 500 companies. Excellence in diversity will lead to happier patients, doctors and staff. This will take time, as do all investment portfolios. When we start, compounding will take place, and, in a matter of time, we will reap the benefits of our actions.

Call to Action

To increase diversity and the numbers of URM students who graduate from the schools and colleges of optometry, action is required. We recommend the following call to action for ASCO and its member institutions.

- Collect data in regard to all aspects of education (diversity of applicants, current students, residents and faculty); without a complete picture of our current status, it will be difficult to measure success
Track reasons why URM students drop out of optometry school (under-performance is a complex issue that needs to be carefully studied and addressed; mentoring, counseling and financial investment is needed for URM students who may not have the resources to help them succeed in a rigorous academic program; various cultural differences and needs exist, which will necessitate individualized support and resources to appropriately meet the needs of these students)

Pool ASCO and optometry school resources to develop pipeline programs for URM students (work with and learn from STEM programs and other health professions schools)

Market the profession beyond undergraduate programs to include middle schools and high schools

Understand the return on investment is not immediate (it may take a decade, but without investing with a clear and committed strategy, we will be in the same position 10 years from now)

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