
Cultural competence for the 21st century dermatologist practicing in the United States



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Significant health disparities exist among under-represented minorities in the United States, which can partially be accounted for by the quality of patient-physician interaction. A distinguishing factor of this interaction is the ability of the provider to demonstrate cultural competence, or address the social, cultural, and community influences on healthcare behaviors and incorporate these elements into patient care. However, this practice has yet to be universally implemented in our healthcare system. These factors become even more important as the racial, ethnic and cultural distribution of the United States population changes. Multiple studies have suggested that cultural competence of the health care provider and staff leads to improved patient adherence, satisfaction, and ultimately, health outcome. Cultural competence in the workplace also leads to efficient and cost-effective healthcare and better community integration into healthcare systems. The purpose of this review is to help dermatologists understand the benefits of culturally competent care for their patients and themselves and identify methods and resources to achieve this goal. (J Am Acad Dermatol 2017;77:1159-69.)

Key words: cross-cultural training; cultural competence; cultural efficacy; effective clinical encounters; health disparities; quality of care; sociocultural barriers to care.

Dermatologists practicing in the United States today must be aware of changing demographics of the population and associated health care disparities based on sex, race, ethnicity, socioeconomic status, disability, religion, and sexual orientation. This issue is not limited to the United States, because similar changes are occurring in other countries around

Abbreviations used:

UIM: underrepresented in medicine
URM: underrepresented minorities

the world. Dermatology as a specialty requires particular attention, because it has the dubious

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distinction of being second only to orthopedics as the medical specialty with the smallest percentage of underrepresented minorities (URMs) in the United States,* specifically those who are underrepresented in medicine (UIM),† in its workforce.¹⁻¹⁰ In 2015, African American and Hispanic dermatologists comprised only 4.1% and 4.7%, respectively, of the US dermatology workforce, which poorly reflected the racial and ethnic profile of the US population at that time (14.3% African American and 17.4% Hispanic).^{3-5,11-13} The situation does not appear to be improving, because only 1.6% of African American, 1.4% of Hispanic, and 0% of American Indian medical school graduates reported dermatology as their specialty of choice in 2011.¹⁴

With the increasingly diverse patient population in the United States, there is an ever-growing need for physicians and other health care providers to improve health care delivery beyond having exceptional clinical skills and successfully achieving system-wide quality measures; cultural competency should also be considered in this process. Culture is distinct from race and applies to all forms of diversity. For example, many multiracial Hispanic populations in the United States share the same culture. A patient's cultural view of health care may be

unrelated to race. Cultural competence requires the health care provider to be inquisitive, accepting, and flexible in order to integrate a patient's beliefs into their care. Culturally competent care is a patient-centered approach that includes establishing rapport and engaging in shared decision-making between the patient and physician in a manner that is respectful of a patient's values, goals, health needs, and cultural background. This improves patient satisfaction, and, ultimately, health outcome (Fig 1).¹⁵⁻¹⁸

CAPSULE SUMMARY

- Cultural competence is underused although it is important for providing quality health care to diverse populations.
- This review helps readers understand cultural competence, its significance, and how to adopt it in the workplace.
- Cultural competence provides diverse benefits for patients, communities, and health care systems, including improved outcomes and patient satisfaction.

WHAT IS CULTURAL COMPETENCE?

To more clearly define cultural competence, we will first highlight the definitions of associated terms, including race, ethnicity, and culture. Racial categorization divides individuals into groups based on physical characteristics, most commonly relating to shared ancestry. For example, individuals can be assigned to a racial group based on skin color and facial features. Ethnicity, however, is a term that groups individuals based on their sociocultural context, and therefore encompasses more than physical traits. Individuals of the same ethnicity usually have a common group history, such as shared language, genealogy, or religion.

*URMs were formerly defined by the Association of American Medical Colleges, Council on Graduate Medical Education, and Department of Health and Human Services as racial and ethnic groups who are represented in lower proportions in health professions than in the US population as a whole. These races/ethnicities include: African American, Mexican American, Native Americans (American Indians, Alaska Natives, and Native Hawaiians), and mainland Puerto Ricans. The National Institute of Health has expanded this definition to specifically include Pacific Islanders, which is reported by the US Census Bureau/Office of Management and Budget under the race "Native Hawaiian or Other Pacific Islander."

The 2010 US Census Bureau defined black or African American as a person having origins in any of the black racial groups of Africa. This includes respondents who reported entries such as African American, sub-Saharan African, and Afro-Caribbean. For consistency, the term African American is used in this article.

The 2010 US Census defined Hispanic or Latino origin as a person of Cuban, Mexican, Puerto Rican, South or Central American, or

other Spanish culture or origin regardless of race. Individuals answering the 2010 US Census were asked to answer both race and ethnicity, with ethnicity defined as "Hispanic, Latino, or Spanish origin" or "not of Hispanic, Latino, or Spanish origin." In the 2010 US Census report on the overview of race and Hispanic origin, the terms Hispanic or Latino are used interchangeably. For consistency, the term Hispanic is used in this article.

†In June 2003, the Association of American Medical Colleges Executive Council adopted the following definition of UIM: "[UIM] means those racial and ethnic populations that are underrepresented in the medical profession relative to their numbers in the general population." This article refers to medical providers who are underrepresented in the medical profession as UIM. The term was revised by the Association of American Medical Colleges from URM to UIM to include underrepresented groups based on changing demographics of society and the medical profession, rather than on race/ethnicity alone. Available at: <https://www.aamc.org/download/54278/data/urm.pdf>.

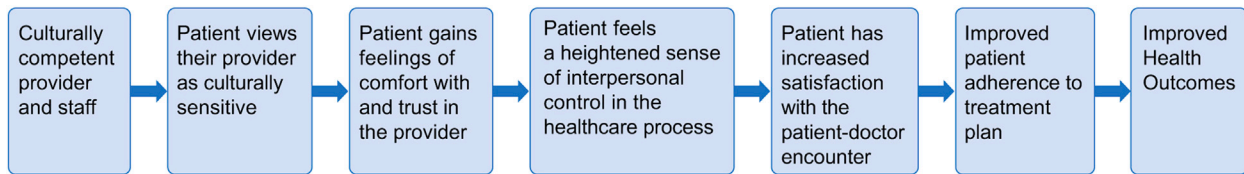


Fig 1. Cultural competence as part of a patient-centered approach to health care is more likely to improve health outcomes.

Culture, on the other hand, serves as a lens, or filter, through which an individual or group sees the world. Cecil Helman, South African physician, author, and medical anthropologist, provided a useful definition of culture:

“A set of guidelines (both explicit and implicit) which individuals inherit as members of a particular society, and which tells them how to view the world, how to experience it emotionally, and how to behave in it in relations to other people, to supernatural forces or gods, and to the natural environment. It also provides them with a way of transmitting these guidelines to the next generation—by the use of symbols, language, art and ritual.”¹⁹

There have been many proposed definitions of cultural competence, all of which describe competence as the acquisition of knowledge, interactional skills, and innovation in order to provide quality health care to diverse populations.²⁰⁻²² It is also a set of skills that allow individuals to increase their understanding of cultural differences and similarities among, between, and within groups.²¹⁻²³ It is clear from this definition that patients and physicians/providers may have vastly different views of the world and different concepts of health and disease. A better understanding and appreciation of the individual patient’s cultural values and health beliefs is an essential aspect of cultural competence.

Finally, the terms explicit and implicit bias describe negative attitudes toward a group of individuals that are formed consciously (explicit) or unconsciously (implicit). Implicit bias has been shown to influence clinical decision-making and patient–physician communication, which may lead to feelings of distrust by the patient, suboptimal treatment plans, poor compliance, and potentially worse health outcomes.²⁴⁻²⁸ Much of implicit bias is a reflection of one’s upbringing; the essential step is for the provider to recognize and then to manage this bias. There are many proposed methods to reduce implicit bias, including individually based concepts of self-awareness and skills training, as well as systems-based interventions (Table I).²⁴⁻⁴¹ Cultural competence training includes many of these elements. The reduction of implicit bias appears to be a promising approach toward

improving patient–provider interactions and ultimately reducing health disparities. However, there is little evidence whether implicit bias training has long-term effects on reducing bias or health outcomes. In addition, the concepts behind implicit bias reduction may be difficult to translate into practical, concrete skills that can be readily used in a variety of clinical scenarios and patients.

WHY IS CULTURE SO IMPORTANT TO HEALTH CARE?

The US population is an ever-growing and constantly changing body, with the 21st century bringing rapid change in the nation’s diversity. From 2000 to 2012, population growth in the United States was driven almost exclusively by racial and ethnic minorities, particularly Hispanics, accounting for 91.5% of the nation’s growth during this interval.⁴² This growth will continue in the same direction during the next half century. By 2060, the nonwhite minority is projected to become the majority of the population (Fig 2). This has been termed the “majority-minority flip,” and several states have already undergone this flip.⁴³ Recent reports have suggested an even earlier timeline, with the “flip” occurring nationwide as early as 2044.¹³

The ongoing transformation in demographics of the United States comes at a time of changing health care policy and funding models. The health care workforce, including the field of dermatology, has lagged in meeting the needs of the changing US demographics in both provider number and diversity. Moreover, URM populations have a significantly higher probability of being uninsured than the non-Hispanic white population, further limiting their access to care.⁴⁴⁻⁴⁶ Even when surmounting the barrier of lack of access, URM populations tend to receive poorer quality of care and face communication barriers when receiving health care.⁴⁴⁻⁴⁶ Compared to whites, Hispanics and African Americans experience more bias, stereotyping, prejudice, and clinical uncertainty on the part of health care providers.⁴⁴⁻⁴⁶ Unfortunately, this often leads to poorer health outcomes.⁴⁶ For example, morbidity and mortality in melanoma and nonmelanoma skin cancer are worse for ethnic minorities, with a 5-year

Table I. Strategies to reduce implicit bias**Individual approach—bias awareness and control**

Bias awareness strategies:

Strategy 1: Self-reflection activities to increase awareness of implicit bias

Participants complete an IAT and participate in an interactive feedback session.*

Bias control strategies:

Strategy 1: Reduce the activation of implicit associations

Examples: Seeking commonalities between provider and patient; stereotype replacement thinking; seeking individualizing information; perspective taking.

Strategy 2: Control how implicit associations influence judgment and behavior

Examples: Consider “gut” reactions as potential indicators of implicit bias; practice self-affirmation of egalitarian goals; consider the influence of emotion on bias.

Strategy 3: Engage in learning courses/skills workshops that improve patient–provider interaction, including cultural competence training

This can be merged with the RISK model of patient interviewing, as described in Table III.

Combined two-step strategy:

Step 1: Self-awareness strategy: Take the IAT and engage in an active, peer-based, feedback activity

Step 2: Bias control strategy: Acquire skills to reduce the activation and influence of implicit associations on clinical judgement and behavior

Pros and cons of the individual approach**Pros**

- May promote long-term reduction of bias (weeks to months)
- Works to control automatic responses to stigmatized patients
- Uses universal communication skills to improve patient–provider interaction
- The two-step approach proposes to be more effective than either step alone

Cons

- May induce defensiveness, feelings of blame, shame, and denial
- Requires active involvement, time, and engagement on behalf of the participant, which may be particularly difficult in a busy clinical or emergency setting
- Has yet to be rigorously tested in medical professionals, including its ability to induce long-term changes in implicit bias and health disparities

Institutional approach—modify external factors influencing implicit bias

Increase multidisciplinary and multigroup contact

Strategy 1: Provide health care training that offers opportunities for positive contact across group boundaries (eg, interracial, intersexual orientation between student–faculty, patient–provider)

Reduce external factors influencing implicit bias

Strategy 1: Use strategies to reduce cognitive stress on providers, such as alleviating overcrowding, time pressure, and staff shortages, which have been demonstrated to increase implicit bias

Strategy 2: Provide clear treatment guidelines

Example: Implicit bias is more likely to influence patient outcomes when provider decisions are made without the benefit of clear guidelines.

Pros and cons of the institutional approach**Pros**

- Encourages positive interaction across groups, disciplines, and levels of training
- Focuses on reducing external factors that may influence implicit bias, as opposed to relying solely on the mindfulness and individual training of the provider

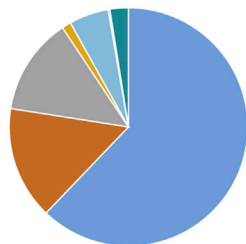
Cons

- Increasing positive interaction across groups is a nonspecific parameter and may not be easily implemented or measurable
- System-wide changes can be costly, impractical, and time-consuming

IAT, Implicit Association Test.

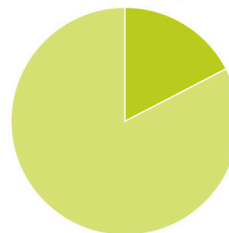
*A computer-based system to measure automatic associations between concepts. Tools for self-evaluation of implicit bias can be found at Project Implicit (<https://implicit.harvard.edu/implicit/takeatest.html>), which contains tests to assess a variety of biases, including race, sex, and sexual orientation.

2014 U.S. Population by Race



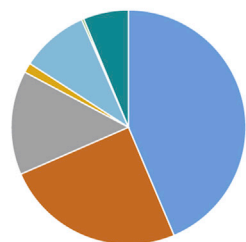
- Non-Hispanic White
- Black or African American
- Asian
- Two or More Races
- White (other)*
- American Indian and Alaska Native
- Native Hawaiian and Other Pacific Islander

2014 U.S. Population by Hispanic or Latino Origin



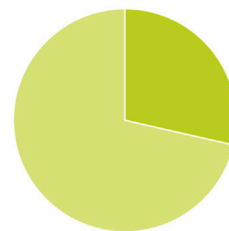
- Hispanic
- Not Hispanic

2060 U.S. Population by Race



- Non-Hispanic White
- Black or African American
- Asian
- Two or More Races
- White (other)*
- American Indian and Alaska Native
- Native Hawaiian and Other Pacific Islander

2060 U.S. Population by Hispanic or Latino Origin



- Hispanic
- Not Hispanic

Fig 2. Projected majority-minority “flip” is likely to occur by 2044. *White (other) may represent Hispanic or Latino origin, although Hispanic ethnicity itself is not considered a race. Data from Colby and Ortman.¹⁵

melanoma survival rate for African Americans of 69% compared to 93.6% for whites.^{47,48} Although non-melanoma skin cancer is less common in ethnic minorities, these patients tend to present at later stages of disease, leading to worse outcomes.^{47,49} This may be partially accounted for by poor access to health care, uninsured status, and patient mistrust of the health care system.

Aside from social factors and linguistic barriers, inadequate levels of cultural competence of providers and a lack of providers who are UIM are important factors for health care disparities.^{44-46,50} It has been well documented that physicians

managing culturally/ethnically unfamiliar patients are more likely to take a more conservative course of action with their patients, potentially compromising quality of care. For example, one study found that African American patients were less likely than white patients to receive noninvasive cerebrovascular testing, cerebral angiography, or endarterectomy for neurologic abnormalities, even when the clinical presentations of both groups were equal.⁵¹ Another study that surveyed emergency medicine and internal medicine residents demonstrated implicit bias, with lower likelihood of these physicians to treat African American

Table II. Cultural competence education resources

Program	Name/type	Access	Description
Online resources for obtaining and providing cultural competence training			
AAMC	TACCT	https://www.aamc.org/initiatives/tacct/	<ul style="list-style-type: none"> • PDF and Excel versions of TACCT • Resources for training
AETC-NMC, Howard University College of Medicine	Cultural competency in the management of HIV/AIDS	http://www.aetcnmc.org/index.html	<ul style="list-style-type: none"> • Case studies • Tutorials • Online training • Self-assessment
	Translation toolkit for healthcare professionals	http://www.aetcnmc.org/translate.php	<ul style="list-style-type: none"> • Translation services/resources • Plain language/health literacy • Medical dictionaries • Materials in other languages • Online modules
	AETC-NMC online curricula series	http://www.aetcnmc.org/curricula/index.html	<ul style="list-style-type: none"> • Focus on substance abuse, mental disorders
CDC	Health literacy training	http://www.cdc.gov/healthliteracy/GetTraining.html	<ul style="list-style-type: none"> • Online modules in health literacy, plain language, culturally based communication • Free printable materials
	Health literacy, cultural competency, and sustainability	http://www.cdc.gov/getsmart/community/improving-prescribing/program-development-eval/health-literacy.html	<ul style="list-style-type: none"> • Easily accessible resources in health literacy, cultural competency, and sustainability
	Program evaluation tip sheet: integrating cultural competence into evaluation	http://www.cdc.gov/dhdsp/docs/cultural_competence_tip_sheet.pdf	<ul style="list-style-type: none"> • Tips to ensure cultural competence in evaluation of public health programs
Office of Minority Health, Department of Health and Human Services	A physician's practical guide to culturally competent care	https://cccm.thinkculturalhealth.hhs.gov/	<ul style="list-style-type: none"> • Online free course • Small group learning materials
Health Resources and Services Administration, Department of Health and Human Services	Culture, language and health literacy	http://www.hrsa.gov/culturalcompetence/index.html http://www.hrsa.gov/culturalcompetence/race.html	<ul style="list-style-type: none"> • Resources specific to ethnicity, race, sex, immigration or refugee status, and LGBT, HIV/AIDS, and homeless communities
	Ethnomed	Integrating cultural information into clinical practice	https://ethnomed.org
National Center for Cultural Competence	Georgetown University Center for Child and Human Development	http://nccc.georgetown.edu/distance.html	<ul style="list-style-type: none"> • Online training curricula, self-assessment tools • Information for organizations, providers, faculty, and families

TARGET Center: Tools for the Ryan White Community (HIV/AIDS)	BE SAFE MODEL, National Minority AIDS Education and Training Center	https://www.careacttarget.org/library/besafe-cultural-competency-model	<ul style="list-style-type: none"> • BE SAFE MODEL for cultural competence individualized to race • BE SAFE: Barriers to care, ethics, sensitivity, assessment, facts, encounters • On-site training and assessments • Medical interpreter training • Licensing new cultural competence trainers
The Cross-Cultural Health Care Program	Nonprofit consulting organization	xculture.org	

Key reports and information on cultural competence, health disparities

American Hospital Association, Institute for Diversity in Health Management	Becoming a culturally competent health care organization	http://www.hpoe.org/resources/hpoehretaha-guides/1395 http://www.hpoe.org/Reports-HPOE/culturalcompetentorgslides7.2011.pdf	<ul style="list-style-type: none"> • Guide for enhancing cultural competence in health care • Self-assessment checklists • List of National Standards for Culturally and Linguistically Appropriate Services (CLAS) in health and health care
Department of Health and Human Services, Agency for Healthcare Research and Quality	2015 National Healthcare Quality and Disparities Report	http://www.ahrq.gov/research/findings/nhqrdr/nhqrdr15/index.html	<ul style="list-style-type: none"> • Report of national health care quality and disparities • Priorities of the National Quality Survey
The Commonwealth Foundation	2004 report: disparities in patient experiences, health care processes, and outcomes	http://www.cmwf.org/programs/minority/cooper_raceconcordance_753.pdf	<ul style="list-style-type: none"> • Review of selected studies on care of underserved populations • Discussion of race and language concordance between physicians and patients
AAMC	Cultural competence education guide	https://www.aamc.org/download/54338/data/culturalcomped.pdf	<ul style="list-style-type: none"> • Various example curricula with resources for cultural competence training
Kaiser Family Foundation	Disparities in health and healthcare: 5 key questions and answers, 2016	http://kff.org/disparities-policy/issue-brief/disparities-in-health-and-health-care-five-key-questions-and-answers/	<ul style="list-style-type: none"> • Questions answered: <ol style="list-style-type: none"> 1. What are health and health care disparities? 2. Why do health and health care disparities matter? 3. What is the status of disparities today? 4. What are key initiatives to address disparities? 5. How was the ACA affected health coverage disparities?
CDC	Practical strategies for culturally competent evaluation	http://www.cdc.gov/dhdsp/docs/cultural_competence_guide.pdf	<ul style="list-style-type: none"> • For public health program staff and evaluators • Six steps to evaluating public health programs and initiatives from a cultural competence perspective

AAMC, Association of American Medical Colleges; ACA, Affordable Care Act; AETC-NMC, AIDS Education and Training Center National Multicultural Center; CDC, Centers for Disease Control and Prevention; TACCT, Tools for Assessing Cultural Competence Training; LGBT, lesbian, gay, bisexual, and transgender.

patients with thrombolysis in acute coronary syndrome and unconsciously perceiving African Americans to be less cooperative than their white counterparts in simulated clinical vignettes.⁵² Further studies on implicit bias have shown that clinicians are more likely to have negative attitudes toward African Americans, Latinos, and Native Americans than whites, as well as towards patients that are overweight/obese, gay or lesbian, or of low social status.²⁶ Specific to dermatology, a study analyzing the use of isotretinoin in patients with acne found that white patients were 1.8 times more likely than African American patients to receive isotretinoin for acne.⁵³

To target these health disparities, inclusion of cultural competence training should be considered when planning medical educational programs. Coordinated efforts to increase representation of UIMs in dermatology will broaden the cultural landscape of our specialty. It is well recognized that physicians from URM groups are more likely to care for URM patients, accept Medicaid insurance, and practice in underserved areas.^{1,5}

Ultimately, cultural competence is important to quality patient care and improved health outcomes. Most importantly, cultural competence is central to the basic principles of professionalism, particularly the requirement for a physician to be sensitive to an individual patient's needs.

HOW DOES ONE IMPROVE CULTURAL COMPETENCE?

Improving cultural competence can be achieved in various ways, including attending didactic lectures, observing highly competent role models, immersion in culturally different clinics and communities, workshops, presentations, and conferences.^{54,55} Evaluation can be performed by observed structured clinical examinations, role playing, and survey-based assessment of knowledge, cultural sensitivity, and respect for those affected by health disparities. [Table II](#) lists several sources for dermatologists to receive cultural competence education.

Cultural competence can also be implemented on the systems level, including providing check-in procedures, materials, and translators that tailor to multiple cultural styles and languages. The Association of American Medical Colleges and Accreditation Council for Graduate Medical Education have acknowledged the importance of cultural competence as a means to reduce health disparities and the duty of physicians to engage in culturally responsive care. These organizations now

promote this type of training for medical students and residents.

The Association of American Medical Colleges has provided 4 recommendations for assessing cultural competence training programs: (1) the need for rigorous research to develop curricula and evaluate outcomes; (2) the selection of measurable curriculum goals; (3) alignment of curriculum development, evaluation, and assessment; and (4) applying methodologic rigor to assess curricular effectiveness.⁵⁴ Development and implementation of cultural competence educational programs and assessment tools should be considered by medical schools, training programs, and specialty societies.

While each patient must be approached as a unique individual, it is ultimately unrealistic to learn all cultures. Instead, the clinician can practice cultural competence by establishing basic principles and attitudes toward patient-centered care, with a special focus on the patient interview.⁵⁵⁻⁵⁷ Kagawa-Singer et al⁵⁸ identified an approach to improving cultural competence in the patient interview, known as the resources, individual identity, skills, knowledge (RISK) model ([Table III](#)).⁵⁸ This easy to remember mnemonic includes defining resources available to the patient, clarifying the self-proclaimed individual identity of the patient, identifying skills possessed by the patient in navigating the health care system, and acquiring knowledge of a specific ethnic group's cultural norms. For example, are the health-related behaviors and decision-making methods family- or individual-centered? Are beliefs about illness founded on the historical, social, or political issues unique to that ethnic group?

Separate from the physician-patient encounter, the dermatologist may improve his or her cultural competence by volunteering at ethnically/racially diverse hospitals or clinics, immersion in the local community by attending cultural performances and festivals, as well as reading books and watching movies about a culturally different population in his/her community and even learning common greetings in different languages. Although these experiences may give limited insight into a culture, they provide a common point of conversation that can help break down barriers between a dermatologist and his/her patient and establish rapport. They may also increase a provider's insight into cultural views on health, healing, and disability.⁵⁹ In addition to involving the patient and family in culturally competent care, when health care providers, hospitals, and health care organizations get to know the patient's community and its culture,

Table III. Cultural competence in the workplace: Using the RISK model to guide clinical practice*

Term	Provider action	What to ask about/learn	Example questions
Resources	Identify resources available to patients and families	Education Insurance Social Support Transportation Grocery shopping	Do you know others in your community who have faced similar difficulties?
Individual identity	Identify the personal identity and acculturation of the patient [†]	Individual circumstances Immigration status Languages spoken Degree of integration within ethnic community	In what language are you most comfortable talking? What are the most important concerns you have about your illness?
Skills	Identify skills available to the patient and their family to adapt to disease requirements	Ability to navigate the health care system Ability to cope with the disease physically, emotionally, socially, spiritually	Who is there to help you (with transportation, the physical demands of the disease, child care)? Where do you go for (spiritual) support or comfort?
Knowledge	Acquire knowledge about the patient's ethnic group, including health beliefs and practices	Attitudes toward illness Communication etiquette Decision-making practices: individual or family-based Gender roles Pertinent historical/political issues Religion	Who is the head of the household? Who would you like us to discuss your health with? Do you use any complementary or alternative medicine?

Adapted from Kagawa-Singer and Kassim-Lakha.⁵⁸

*The RISK model is an effective tool to deliver culturally sensitive care to the patient. It involves identifying key strengths of the patient and culturally specific barriers to receiving adequate health care and treatment.

[†]The process by which cultural groups adopt the customs and behaviors of a new culture; most commonly cultural change from the place of origin to the host society.

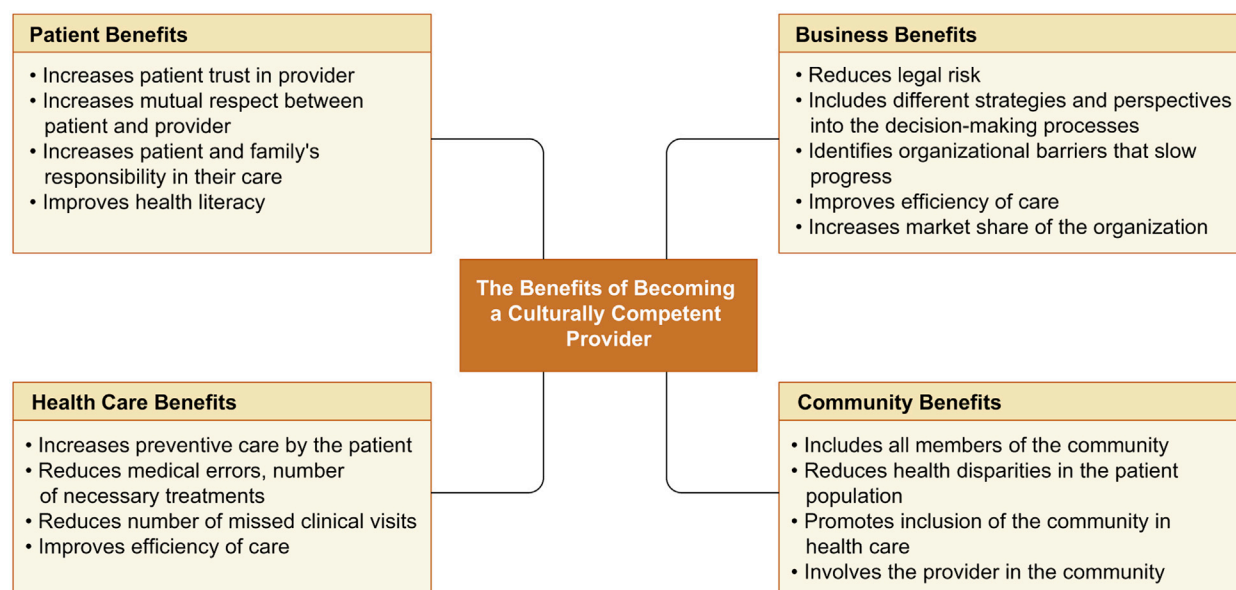


Fig 3. Benefits of cultural competence. Adapted from the Health Research & Educational Trust.⁶⁰

this reaps benefits for all stakeholders, as shown in Fig 3.⁶⁰

In conclusion, evidence is mounting that cultural competence, or the ability to integrate a patient's culturally based beliefs and behaviors with health care delivery, is critical to providing the best medical care and decreasing health care disparities. These concepts are even more important in the 21st century, during which time our population will become more diverse than ever. Paying attention to cultural differences and improving cross-cultural expertise can help a dermatologist improve patient compliance and satisfaction. Increasing diversity in the specialty of dermatology, while at the same time improving the cultural awareness of all dermatologists, is an ideal approach to addressing this important issue.⁵

REFERENCES

1. US Department of Health and Human Services website. Health Resources and Services Administration Bureau of Health Professions. The physician workforce: projections and research into current issues affecting supply and demand. Available at: <http://bhpr.hrsa.gov/healthworkforce/reports/physwissues.pdf>. Accessed September 20, 2016.
2. Okike K, Utuk ME, White AA. Racial and ethnic diversity in orthopedic surgery residency programs. *J Bone Joint Surg Am*. 2011;93:e1072011.
3. American Medical Association. *Physician Characteristics and Distribution in the US*. Chicago, IL: American Medical Association; 2008-2015.
4. Hinojosa JA, Pandya AG. Diversity in the dermatology workforce. *Semin Cutan Med Surg*. 2016;36:242-245.
5. Pandya AG, Alexis AF, Berger TG, Wintroub BU. Increasing racial and ethnic diversity in dermatology: a call to action. *J Am Acad Dermatol*. 2016;74:584-587.
6. Page KR, Castillo-Page L, Poll-Hunter N, Garrison G, Wright SM. Assessing the evolving definition of underrepresented minority and its application in academic medicine. *Acad Med*. 2013;88:67-72.
7. Association of American Medical Colleges website. Association of American Medical Colleges Executive committee. The status of the new AAMC definition of "underrepresented in medicine" following the Supreme Court's decision in Grutter. Association of American Medical Colleges. Available at: <https://www.aamc.org/download/54278/data/urm.pdf>. Accessed August 20, 2017.
8. *Minorities in medicine: an ethnic and cultural challenge or physician training: an update*. Council on Graduate Medical Education Seventeenth Report. Rockville, MD: Council on Graduate Medical Education. U.S. Department of Health and Human Services; 2005. Report No.: 17.
9. *National Center for Science and Engineering Statistics. Women, minorities, and persons with disabilities in science and engineering*. National Science Foundation website; 2017. Special Report NSF 17-310. Arlington, VA. Available at: www.nsf.gov/statistics/wmpd/. Accessed August 20, 2017.
10. Revisions to the standards for the classification of federal data on race and ethnicity. Available at: www.whitehouse.gov/omb/fedreg/1997standards.html. Accessed August 20, 2017.
11. Rastogi S, Johnson TD, Hoeffel EM, Drewery MP Jr, The Black Population: 2010. *2010 Census Brief*. U.S. Department of Commerce Economics and Statistics Administration. U.S. Census Bureau; 2011. Report No.: C2010BR-06.
12. Humes KR, Jones NA, Ramirez RR, Overview of race and Hispanic origin: 2010. *2010 Census Brief*. U.S. Department of Commerce Economics and Statistics Administration. U.S. Census Bureau; 2011. Report No.: C2010BR-02.
13. Colby SL, Ortman JM. *Projections of the size and composition of the U.S. population: 2014 to 2060*. Current Population Reports P25-1143. Washington, DC: U.S. Census Bureau, Washington; 2014.
14. Association of American Medical Colleges website. Diversity in medical education: facts and figures 2012. Available at: https://members.aamc.org/eweb/upload/Diversity%20in%20Medical%20Education_Facts%20and%20Figures%202012.pdf. Accessed September 27, 2016.
15. Betancourt JR. Cultural competency: providing quality care to diverse populations. *Consult Pharm*. 2006;21:988-995.
16. Saha S, Beach MC, Cooper LA. Patient centeredness, cultural competence and healthcare quality. *J Natl Med Assoc*. 2008;100:1275-1285.
17. Paez KA, Allen JK, Beach MC, Carson KA, Cooper LA. Physician cultural competence and patient ratings of the patient-physician relationship. *J Gen Intern Med*. 2009;24:495-498.
18. Tucker CM, Marsiske M, Rice KG, Nielson JJ, Herman K. Patient-centered culturally sensitive health care: model testing and refinement. *Health Psychol*. 2011;30:342-350.
19. Helman C. *Culture, Health and Illness*. 4th ed. Vol. 478. London: Butterworth-Heinemann; 2000:328.
20. Betancourt JR, Green AR, Carrillo JE, Ananeh-Firempong O 2nd. Defining cultural competence: a practical framework for addressing racial/ethnic disparities in health and health care. *Public Health Rep*. 2003;118:293-302.
21. Nunez AE. Transforming cultural competence into cross-cultural efficacy in women's health education. *Acad Med*. 2000;75:1071-1080.
22. Betancourt JR. Cross-cultural medical education: conceptual approaches and frameworks for evaluation. *Acad Med*. 2003;78:560-569.
23. Office for Substance Abuse Prevention, US Department of Health and Human Services. *Cultural Competence for Evaluators: A Guide for Alcohol and Other Drug Abuse Prevention Practitioners Working with Ethnic/Racial Communities*. Rockville, MD: US Department of Health and Human Services; 1992. Available at: <http://files.eric.ed.gov/fulltext/ED351387.pdf>. Accessed October 2, 2016.
24. Blair IV, Steiner JF, Havranek EP. Unconscious (implicit) bias and health disparities: where do we go from here? *Perm J*. 2011;15:71-78.
25. Dovidio JF, Penner LA, Albrecht TL, Norton WE, Gaertner SL, Shelton JN. Disparities and distrust: the implications of psychological processes for understanding racial disparities in health and health care. *Soc Sci Med*. 2008;67:478-486.
26. Zestcott CA, Blair IV, Stone J. Examining the presence, consequences, and reduction of implicit bias in health care: a narrative review. *Group Process Intergroup Relat*. 2016;19:528-542.
27. Hall WJ, Chapman MV, Lee KM, et al. Implicit racial/ethnic bias among health care professionals and its influence on health care outcomes: a systematic review. *Am J Public Health*. 2015;105:e60-76.
28. Maina IW, Belton TD, Ginzberg S, Singh A, Johnson TJ. A decade of studying implicit racial/ethnic bias in healthcare

- providers using the implicit association test. *Soc Sci Med*. 2017. <http://dx.doi.org/10.1016/j.socscimed.2017.05.009> [Epub ahead of print].
29. Burgess D, van Ryn M, Dovidio J, Saha S. Reducing racial bias among health care providers: lessons from social-cognitive psychology. *J Gen Intern Med*. 2007;22:882-887.
 30. Gonzalez CM, Kim MY, Marantz PR. Implicit bias and its relation to health disparities: a teaching program and survey of medical students. *Teach Learn Med*. 2014;26:64-71.
 31. Teal CR, Shada RE, Gill AC, et al. When best intentions aren't enough: helping medical students develop strategies for managing bias about patients. *J Gen Intern Med*. 2010;25(suppl 2):S115-S118.
 32. Cohen G, Garcia J, Purdie-Vaughns V, Apfel N, Brzustoski P. Recursive processes in self-affirmation: intervening to close the minority achievement gap. *Science*. 2009;324:400-403.
 33. Cohen GL, Garcia J, Apfel N, Master A. Reducing the racial achievement gap: a social-psychological intervention. *Science*. 2006;313:1307-1310.
 34. Miyake A, Kost-Smith LE, Finkelstein ND, Pollock SJ, Cohen GL, Ito TA. Reducing the gender achievement gap in college science: a classroom study of values affirmation. *Science*. 2010;330:1234-1237.
 35. Devine PG, Forscher PS, Austin AJ, Cox WT. Long-term reduction in implicit race bias: a prejudice habit-breaking intervention. *J Exp Soc Psychol*. 2012;48:1267-1278.
 36. Castillo LG, Reyes CJ, Brossart DF, Conoley CW, Phoummarath MJ. The influence of multicultural training on perceived multicultural counseling competencies and implicit racial prejudice. *J Multicultural Couns Dev*. 2007;35:243e-254e.
 37. Van Ryn M, Hardeman R, Phelan SM, et al. Medical school experiences associated with change in implicit racial bias among 3547 students: a medical student CHANGES study report. *J Gen Intern Med*. 2015;30:1748-1756.
 38. Burke SE, Dovidio JF, Przedworski JM, et al. Do contact and empathy mitigate bias against gay and lesbian people among heterosexual first-year medical students? A report from the medical student CHANGE study. *Acad Med*. 2015;90:645-651.
 39. Johnson TJ, Hickey RW, Switzer GE, et al. The impact of cognitive stressors in the emergency department on physician implicit racial bias. *Acad Emerg Med*. 2016;23:297-305.
 40. Stepanikova I. Racial-ethnic biases, time pressure, and medical decisions. *J Health Soc Behav*. 2012;53:329-343.
 41. Blair IV, Steiner JF, Hanratty R, et al. An investigation of associations between clinicians' ethnic or racial bias and hypertension treatment, medication adherence and blood pressure control. *J Gen Intern Med*. 2014;29:987-995.
 42. Brown A, Patten E. Statistical portrait of Hispanics in the United States, 2012. Available at: <http://www.pewhispanic.org/2014/04/29/statistical-portrait-of-hispanics-in-the-united-states-2012/>. Accessed September 11, 2016.
 43. Krogstad, Jens M. Reflecting a racial shift, 78 turn majority-minority since 2000. Available at: <http://www.pewresearch.org/fact-tank/2015/04/08/reflecting-a-racial-shift-78-counties-turned-majority-minority-since-2000/>. Accessed December 26, 2016.
 44. Nelson A. Unequal treatment: confronting racial and ethnic disparities in health care. *J Natl Med Assoc*. 2002;94:666-668.
 45. 2015 National Healthcare Quality and Disparities Report and 5th Anniversary Update on the National Quality Strategy. Available at: <http://www.ahrq.gov/research/findings/nhqdr/nhqdr15/index.html>. Accessed September 5, 2016.
 46. Smedley BD, Stith AY, Nelson AR, eds. *Unequal Treatment: Confronting Racial and Ethnic Disparities in Healthcare*. Washington, DC: National Academy Press; 2003.
 47. Buster KJ, Stevens EI, Elmets CA. Dermatologic health disparities. *Dermatol Clin*. 2012;30:53-59.
 48. Howlader N, Noone AM, Krapcho M, et al., eds. *SEER Cancer Statistics Review*. National Cancer Institute; 1975-2014. Available at: https://seer.cancer.gov/csr/1975_2014/. Accessed September 6, 2017.
 49. Gloster HM Jr, Neal K. Skin cancer in skin of color. *J Am Acad Dermatol*. 2006;55:741-760.
 50. Cooper LA, Powe NR. Disparities in patient experiences, health care processes, and outcomes: the role of patient-provider racial, ethnic, and language concordance. Available at: <http://www.commonwealthfund.org/publications/fund-reports/2004/jul/disparities-in-patient-experiences-health-care-processes-and-outcomes-the-role-of-patient-provider>. Accessed September 17, 2016.
 51. Mitchell JB, Ballard DJ, Matchar DB, Whisnant JP, Samsa GP. Racial variation in treatment for transient ischemic attacks: impact of participation by neurologists. *Health Serv Res*. 2000;34:1413-1428.
 52. Green AR, Carney DR, Pallin DJ, et al. Implicit bias among physicians and its prediction of thrombolysis decisions for black and white patients. *J Gen Intern Med*. 2007;22:1231-1238.
 53. Fleischer AB Jr, Simpson JK, McMichael A, Feldman SR. Are there racial and sex differences in the use of oral isotretinoin for acne management in the United States? *J Am Acad Dermatol*. 2003;49:662-666.
 54. Association of American Medical Colleges website. Assessing change: evaluating cultural competence education and training. Available at: <https://www.aamc.org/download/427350/data/assessingchange.pdf>. Accessed September 2, 2016.
 55. Betancourt JR, Cervantes MC. Cross-cultural medical education in the United States: key principles and experiences. *Kaohsiung J Med Sci*. 2009;25:471-478.
 56. Center for Substance Abuse Treatment (US). *Improving Cultural Competence*. Rockville, MD: Substance Abuse and Mental Health Services Administration; 2014.
 57. Papadopoulos I, ed. *Transcultural Health and Social Care Development of Culturally Competent Practitioners*. 1st ed. London, UK: Churchill Livingstone; 2006.
 58. Kagawa-Singer M, Kassim-Lakha S. A strategy to reduce cross-cultural miscommunication and increase the likelihood of improving health outcomes. *Acad Med*. 2003;78:577-587.
 59. Crowe T, Sanchez V, Weber A, Murtagh A. The influence of a Mexican cultural immersion experience on personal and professional healthcare practices. *Occup Ther Int*. 2016;23:318-327.
 60. Health Research & Educational Trust website. Becoming a culturally competent health care organization. Available at: www.hpoe.org. Accessed September 10, 2016.