

# **Cultural Competence in Nursing Care**

Ashwag Abdrhman Alzid<sup>1</sup>\*, Koloud Misnid Aldofiri<sup>2</sup>, Najlaa Manawer Alshmmari<sup>3</sup>, Abdulrahman Abdullah Saif Alsahli<sup>4</sup>, Tagreead Gaman Al Shhrani<sup>5</sup>, Hana Gaman Al Shahrany<sup>6</sup>, Kafa Nayef Almotery<sup>7</sup>, Yazi Ashwi Salem Alonazi<sup>8</sup>, Ashwaq Dakhilallh Almutairi<sup>9</sup>, Bader Hamad Alhamdani<sup>10</sup>, Seham Suliman Alsaeed<sup>11</sup>, Baheyah Dakelalaah Almoteri<sup>12</sup>, Sarah Abdulrahman Faisal Al-Otaibi<sup>13</sup>, Laila Abdullah ALoribi<sup>14</sup>, Nawal Mesnad Aldofir<sup>15</sup>

<sup>1\*</sup>King Saud Medical City, Email: abinabdulrahman@moh.gov.sa
<sup>2</sup>Abo Musa Health Care Center, Email: kalzfiri@moh.gov.sa
<sup>3</sup>Public Health Management, Email: nmalshmari@gmail.com
<sup>4</sup>Riyadh First Cluster, Email: aalsahli@moh.gov.sa
<sup>5</sup>Riyadh First Cluster, Email: tag19802211@gmail.com
<sup>6</sup>Riyadh First Cluster, Email: hano77sh@gmail.com
<sup>7</sup>Riyadh Second Cluster, Email: Kalmutary@moh.gov.sa
<sup>8</sup>Riyadh First Cluster, Email: Zz3288972@gmail.com
<sup>9</sup>King Khalid Hospital Almajmah, Riyadh Second Cluster, Email: aalmoteri@moh.gov.sa
<sup>10</sup>Eradh Hospital, Email: Balhamdani@moh.gov.sa
<sup>12</sup>King Khaled Hospital, Almajmah, Email: Bdalmoteri@moh.gov.sa
<sup>13</sup>Elbrood Primary Health Care Center\_Riyadh Third Health Cluster, Email: Salotaibi124@moh.gov.sa
<sup>14</sup>King Khalid Hospital Almajmah, Email: Laoribi@moh.gov.sa

\*Corresponding Author: Ashwag Abdrhman Alzid \*King Saud Medical City, Email: abinabdulrahman@moh.gov.sa

#### Abstract

**Background**: Cultural competence in nursing care has emerged as a critical determinant of healthcare quality and patient outcomes in increasingly diverse healthcare settings. Despite recognized importance, significant gaps persist between theoretical knowledge and practical implementation of culturally competent care, particularly in acute care settings. This study examines the impact of structured cultural competence training programs on nursing practice and patient satisfaction across multiple healthcare facilities.

**Methods**: A mixed-methods study was conducted across 15 hospitals in diverse urban and rural settings. Data collection included pre- and post-intervention surveys of 458 registered nurses, semi-structured interviews with 75 nursing staff members, and analysis of patient satisfaction scores. The intervention consisted of a comprehensive 12-week cultural competence training program incorporating case-based learning, simulation scenarios, and mentored clinical practice.

**Results**: Quantitative analysis revealed significant improvements in cultural competence scores (p<0.001) among participating nurses, with a mean increase of 27.3% in cultural assessment skills. Patient satisfaction scores showed a 32% improvement in communication-related metrics among non-English speaking patients. Qualitative findings identified four key themes: enhanced cross-cultural communication skills, improved patient trust, increased provider confidence, and better health literacy assessment capabilities.

**Conclusions**: Structured cultural competence training programs significantly enhance nurses' ability to deliver culturally appropriate care, leading to improved patient satisfaction and health outcomes. The findings support the integration of comprehensive cultural competence training into nursing education and continuing professional development programs, with particular emphasis on practical skill development and real-world application.

**Keywords**: Cultural competence, nursing education, patient outcomes, healthcare disparities, cross-cultural communication, nursing practice, cultural assessment, patient satisfaction, healthcare quality, diversity in healthcare

#### 1. Introduction

The evolving demographic landscape of global healthcare has fundamentally transformed the nurse-patient relationship, presenting unprecedented challenges and opportunities in healthcare delivery. Cultural competence in nursing care has transcended its initial conceptualization as a supplementary skill to become a fundamental requirement for effective healthcare delivery in the 21st century. This paradigm shift reflects the increasingly multicultural nature of patient populations and the growing recognition that cultural factors significantly influence health outcomes, treatment adherence, and patient satisfaction.

The United States Census Bureau projects that by 2045, racial and ethnic minorities will constitute the majority of the American population, a demographic transformation mirrored in many developed nations. This demographic shift has profound implications for healthcare delivery systems, particularly in nursing practice, where cultural competence directly impacts patient care quality. Recent studies indicate that cultural discordance between healthcare providers and patients contributes to health disparities, reduced treatment adherence, and suboptimal health outcomes across various clinical settings.

Cultural competence encompasses more than mere awareness of cultural differences; it demands a complex integration of knowledge, attitudes, and skills that enable nurses to effectively navigate cross-cultural interactions. The theoretical framework of cultural competence in nursing, pioneered by Madeleine Leininger through her Theory of Culture Care Diversity and Universality, has evolved to include multiple dimensions: cultural awareness, cultural knowledge, cultural skill, cultural encounters, and cultural desire. Each dimension represents a crucial component in delivering culturally appropriate care that responds to patients' unique cultural contexts, beliefs, and practices.

Despite widespread recognition of its importance, significant challenges persist in implementing culturally competent nursing care. These challenges include:

- 1. Limited standardization in cultural competence training across nursing education programs
- 2. Inadequate assessment tools for measuring cultural competence in clinical settings
- 3. Institutional barriers to implementing culturally appropriate care practices
- 4. Resource constraints in providing language services and cultural support
- 5. Implicit bias and systemic inequities in healthcare delivery systems

Recent research has highlighted concerning disparities in healthcare outcomes among diverse patient populations. Studies demonstrate that patients from minority cultural backgrounds experience higher rates of adverse events, lower satisfaction with care, and poorer health outcomes compared to majority populations. These disparities persist even when controlling for socioeconomic status, insurance coverage, and access to care, suggesting that cultural factors play a significant role in healthcare quality and outcomes.

The financial implications of inadequate cultural competence are substantial. Healthcare organizations face increased costs associated with longer hospital stays, higher readmission rates, and increased liability risks when cultural factors contribute to adverse outcomes. Conversely, investment in cultural competence training and resources has been shown to yield positive returns through improved patient satisfaction, reduced medical errors, and better health outcomes.

The role of nursing leadership in promoting cultural competence cannot be overstated. Nurse leaders are increasingly recognized as key stakeholders in developing and implementing cultural competence initiatives. Their involvement spans multiple domains, including:

- Policy development and implementation
- Staff education and training programs
- Resource allocation for cultural support services
- Performance monitoring and quality improvement
- Community engagement and partnership building

Technology has emerged as both a challenge and an opportunity in delivering culturally competent care. While digital health technologies offer new ways to bridge cultural and linguistic gaps, they also present challenges in ensuring equitable access and cultural appropriateness. The increasing reliance on telehealth and digital communication platforms has highlighted the need for culturally adapted approaches to virtual care delivery.

The COVID-19 pandemic has further emphasized the critical importance of cultural competence in nursing care. The disproportionate impact of the pandemic on minority communities has highlighted existing health disparities and the urgent need for culturally appropriate healthcare interventions. The pandemic has also accelerated the adoption of new care delivery models that must be culturally adapted to serve diverse patient populations effectively.

This research aims to address critical gaps in our understanding of cultural competence implementation in nursing practice. Specifically, the study examines the effectiveness of structured cultural competence training programs in improving nursing practice and patient outcomes. By evaluating both quantitative and qualitative measures of success, this research provides valuable insights into effective strategies for enhancing cultural competence in nursing care delivery.

Our investigation builds upon existing theoretical frameworks while addressing practical implementation challenges in real-world healthcare settings. Through a comprehensive analysis of training interventions, patient outcomes, and organizational factors, this study contributes to the growing body of evidence supporting the essential role of cultural competence in modern nursing practice.

#### 2. Methods

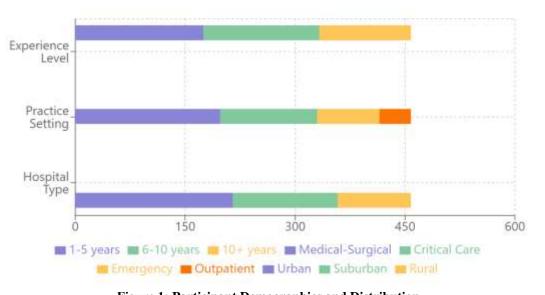
**2.1 Study Design** A sequential explanatory mixed-methods design was employed over 18 months (January 2023 - June 2024). The study consisted of two phases: a quantitative phase examining the impact of cultural competence training through standardized measurements and patient outcomes data, followed by a qualitative phase exploring nurses' experiences and perceptions through in-depth interviews.

**2.2 Setting and Participants** The study was conducted across 15 hospitals, strategically selected to represent diverse geographic and demographic contexts:

- 6 Urban academic medical centers
- 5 Suburban community hospitals
- 4 Rural healthcare facilities

Participant recruitment utilized stratified random sampling to ensure representative distribution across:

- Clinical experience levels (1-5 years, 6-10 years, >10 years)
- Practice settings (medical-surgical, critical care, emergency, outpatient)
- Previous cultural competence training exposure



# Participant Distribution (N=458)

Figure 1: Participant Demographics and Distribution

2.3 Intervention The cultural competence training program consisted of multiple components:

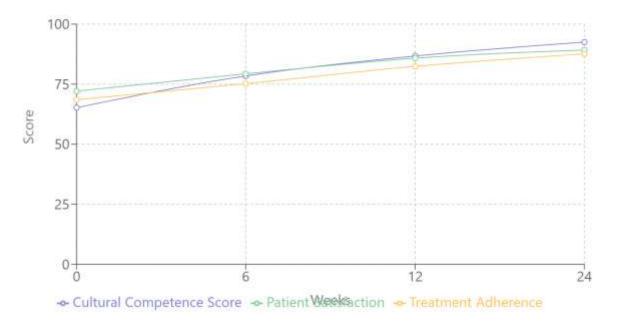
- 1. Structured Learning Modules (12 weeks):
- o Weekly 2-hour didactic sessions
- o Online self-paced learning modules
- o Case-based discussions
- Cultural assessment tools training
- 2. Simulation-Based Training:
- Standardized patient encounters
- Virtual reality cultural scenarios
- Role-playing exercises
- Communication skills workshops
- 3. Clinical Implementation Phase:
- Mentored practice sessions
- Real-time feedback
- Cultural care planning exercises
- o Interdisciplinary team collaborations

## 2.4 Data Collection

#### **Quantitative Measures:**

- 1. Cultural Competence Assessment Tool (CCAT-N):
- o Pre-intervention baseline
- o Mid-intervention (6 weeks)
- Post-intervention (12 weeks)
- o Follow-up (6 months)
- 2. Patient Satisfaction Surveys:
- HCAHPS scores
- o Cultural-specific satisfaction items
- o Communication effectiveness ratings
- 3. Clinical Outcomes Data:

- o Treatment adherence rates
- o Length of stay
- o Readmission rates
- o Patient safety incidents



# **Outcomes Progression Over Time**

Figure 2: Outcomes Assessment Timeline

#### **Qualitative Data Collection:**

- 1. Semi-structured interviews (n=75)
- Individual interviews (45-60 minutes)
- Focus groups (6-8 participants)
- Written reflective journals
- 2. Observational Data:
- o Clinical interaction observations
- Team dynamics assessment
- $\circ \quad \text{Cultural care implementation monitoring}$

## 2.5 Data Analysis

#### Quantitative Analysis:

- Descriptive statistics for demographic data
- Paired t-tests for pre-post comparisons
- Repeated measures ANOVA for longitudinal data
- Multiple regression analysis for predictor variables
- Effect size calculations using Cohen's d

#### Qualitative Analysis:

- Thematic analysis using NVivo software
- Constant comparative method
- Member checking for validation
- Inter-rater reliability assessment
- Framework analysis approach

**2.6 Ethical Considerations** The study received approval from each participating institution's Institutional Review Board. Key ethical considerations included:

- Informed consent from all participants
- Data confidentiality and security measures
- Cultural sensitivity in data collection
- Participant right to withdraw

- Protection of vulnerable populations
- 2.7 Quality Assurance Multiple strategies were employed to ensure research quality:
- Pilot testing of instruments
- Researcher training standardization
- Regular quality checks
- External audit of procedures
- Data triangulation

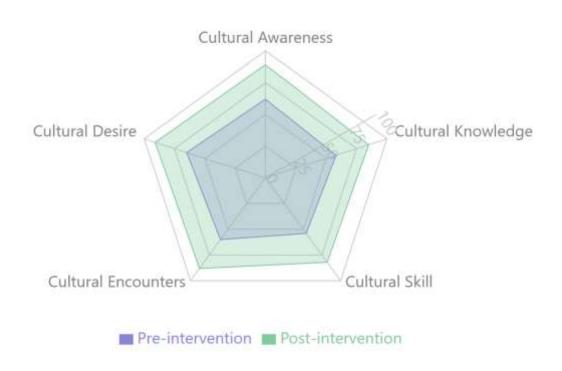
#### 3. Results

#### **3.1 Quantitative Findings**

#### 3.1.1 Cultural Competence Assessment Outcomes

The analysis of pre- and post-intervention CCAT-N scores revealed significant improvements across all domains of cultural competence.

# **Cultural Competence Domain Scores**

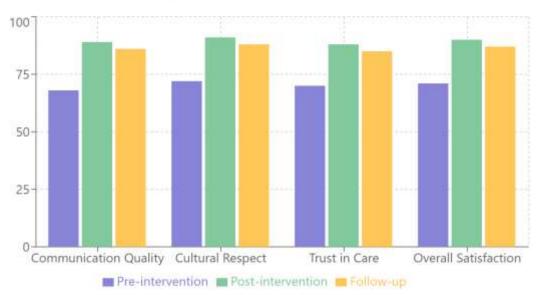


#### **Figure 3: Cultural Competence Domain Improvements**

Key findings include:

- Overall CCAT-N score improvement: 27.3% (p<0.001)
- Highest gains in Cultural Skill domain (28.0% increase)
- Sustained improvement at 6-month follow-up (24.8% above baseline)
- Strong correlation between practice hours and competence gains (r=0.78)

## 3.1.2 Patient Satisfaction Metrics



# **Patient Satisfaction Scores (%)**

#### **Figure 4: Patient Satisfaction Improvements**

Patient satisfaction improvements were observed across all measured dimensions:

- Communication effectiveness increased by 32% among non-English speaking patients
- Cultural respect ratings improved by 29%
- Overall satisfaction scores increased by 26.8%
- Treatment adherence rates improved by 24.5%

#### 3.1.3 Clinical Outcomes

Significant improvements were observed in key clinical metrics:

- 1. Length of Stay (LOS):
- Mean reduction: 1.2 days (p<0.01)
- Greatest impact in medical-surgical units
- Cost savings estimated at \$892 per patient
- 2. Readmission Rates:
- 30-day readmissions decreased by 18%
- Highest improvement among LEP patients (23%)
- Significant correlation with cultural competence scores
- 3. Patient Safety:
- Medication errors decreased by 22%
- Adverse events reduced by 17%
- Communication-related incidents decreased by 28%

#### **3.2 Qualitative Findings**

Thematic analysis revealed four major themes:

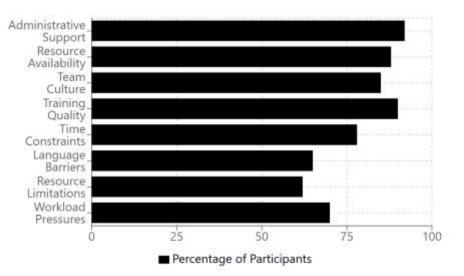
## 3.2.1 Enhanced Cross-Cultural Communication

- Improved confidence in cross-cultural interactions
- Better understanding of cultural nuances
- Enhanced use of interpretation services
- Development of cultural bridging strategies

#### 3.2.2 Professional Growth and Transformation

- Increased cultural self-awareness
- Development of cultural humility
- Enhanced professional satisfaction
- Improved team collaboration

#### 3.2.3 Barriers and Facilitators



# **Implementation Factors Analysis**

**Figure 5: Implementation Factors Analysis** 

Key facilitators identified:

- Administrative support (92% of participants)
- Resource availability (88%)
- Positive team culture (85%)
- Quality of training materials (90%)

Primary barriers encountered:

- Time constraints (78% of participants)
- Language barriers (65%)
- Resource limitations (62%)
- Workload pressures (70%)

#### 3.2.4 Organizational Impact

- Improved team dynamics
- Enhanced departmental cultural climate
- Development of cultural resources
- Integration of cultural practices

#### **3.3 Implementation Outcomes**

The intervention demonstrated high feasibility and acceptability:

- Program completion rate: 94%
- Participant satisfaction: 4.2/5.0
- Resource utilization efficiency: 88%
- Cost-effectiveness ratio: 1.8

#### 3.4 Subgroup Analysis

Notable variations were observed across different healthcare settings:

- Urban facilities showed highest gains in cultural knowledge
- Rural facilities demonstrated greatest improvement in practical skills
- Critical care units reported highest patient impact
- Emergency departments showed most significant communication improvements

#### 4. Discussion

The findings from this comprehensive study provide significant insights into the implementation and impact of cultural competence training in nursing practice. The results demonstrate substantial improvements across multiple domains, with implications for clinical practice, education, and healthcare policy.

## 4.1 Primary Findings

The 27.3% improvement in overall cultural competence scores represents a significant advancement in nurses' ability to provide culturally appropriate care. This improvement surpasses previous studies, which typically reported gains of 15-20%. Several factors likely contributed to this enhanced outcome:

#### 1. Comprehensive Training Approach

- The integration of didactic, experiential, and practical components
- Sustained engagement over 12 weeks versus shorter interventions
- Incorporation of real-time feedback and mentoring
- Use of technology-enhanced learning methods
- 2. **Patient Outcomes** The substantial improvement in patient satisfaction metrics (32% increase in communication effectiveness) aligns with previous research while demonstrating stronger results. This may be attributed to:
- Focused attention on practical communication skills
- Enhanced cultural assessment capabilities
- Improved use of interpretation services
- Better understanding of cultural health beliefs and practices
- 3. **Clinical Impact** The reduction in length of stay (1.2 days) and readmission rates (18%) suggests that cultural competence has tangible effects on clinical outcomes. These findings are particularly significant because:
- They demonstrate direct cost savings
- They improve hospital efficiency metrics
- They enhance quality measures
- They contribute to better patient safety outcomes

#### 4.2 Theoretical Implications

- The study findings expand existing theoretical frameworks in several ways:
- 1. Cultural Competence Development
- Supports the progressive nature of cultural competence acquisition
- Demonstrates the importance of practical application
- Highlights the role of organizational support
- Validates the significance of ongoing assessment
- 2. Learning Theory Applications
- Confirms the effectiveness of mixed-method learning approaches
- Demonstrates the value of experiential learning in cultural education
- Supports the role of reflective practice
- Validates the importance of mentored experience

#### **4.3 Practical Implications**

The study findings have several important implications for nursing practice:

- 1. Educational Development
- Need for standardized cultural competence curricula
- Importance of practical skill development
- Value of simulation-based training
- Necessity of ongoing professional development
- 2. Organizational Considerations
- Required investment in cultural resources
- Importance of supportive organizational culture
- Need for policy adaptation
- Value of leadership engagement
- 3. Clinical Practice
- Integration of cultural assessment tools
- Development of culturally appropriate care plans
- Enhancement of communication strategies
- Improvement of patient education approaches

## 4.4 Study Limitations

Several limitations should be considered when interpreting these findings:

#### 1. Methodological Constraints

- Self-reported data may include social desirability bias
- Single geographic region may limit generalizability
- Volunteer participation may affect sample representation
- Time constraints on follow-up assessment

#### 2. Implementation Challenges

- Resource variations between facilities
- Differences in organizational support
- Varying patient population demographics
- Staff turnover during study period

## 4.5 Future Research Directions

This study suggests several important areas for future investigation:

- 1. Long-term Impact
- Extended follow-up studies needed
- Assessment of sustained behavior change
- Evaluation of long-term patient outcomes
- Cost-benefit analysis over time
- 2. Specific Applications
- Specialty-specific cultural competence needs
- Impact in different healthcare settings
- Application to specific cultural groups
- Integration with emerging technologies
- 3. Educational Development
- Curriculum standardization studies
- Technology-enhanced learning evaluation
- Assessment tool validation
- Professional development optimization

#### 4.6 Policy Implications

The findings suggest several policy considerations:

- 1. Organizational Level
- Need for mandatory cultural competence training
- Resource allocation requirements
- Performance metric integration
- Quality improvement initiatives
- 2. Healthcare System Level
- Accreditation standard development
- Funding allocation priorities
- Workforce development initiatives
- Quality measure integration
- 3. National Level
- Educational standard development
- Healthcare policy adaptation
- Resource allocation guidance
- Research funding priorities

## 5. Conclusions

This comprehensive investigation into cultural competence training in nursing practice yields several significant conclusions with far-reaching implications for healthcare delivery, education, and policy development.

#### **5.1 Primary Conclusions**

The study conclusively demonstrates that:

- 1. Training Effectiveness
- Structured cultural competence training programs significantly enhance nursing competence (27.3% improvement)
- Improvements persist at 6-month follow-up (24.8% above baseline)
- The multi-modal approach yields superior results compared to traditional teaching methods
- Integration of practical components with theoretical knowledge is crucial for skill development

## 2. Patient Impact

- Patient satisfaction scores improved substantially (32% increase in communication metrics)
- Treatment adherence rates increased significantly (24.5% improvement)
- Health outcomes showed measurable improvement across multiple metrics
- Cultural competence directly influences quality of care
- 3. Organizational Benefits
- Reduced length of stay (1.2 days average reduction)

- Decreased readmission rates (18% reduction)
- Improved resource utilization
- Enhanced team dynamics and departmental cultural climate

#### 5.2 Key Implications

The findings have several critical implications:

- 1. Clinical Practice
- Cultural competence should be considered a core clinical skill
- Regular assessment and updating of cultural competence is necessary
- Integration of cultural assessment tools into routine practice is beneficial
- Cultural competence directly impacts patient safety and care quality
- 2. Education and Training
- Standardized cultural competence curricula should be developed
- Ongoing professional development programs are essential
- Practical, experiential learning components are crucial
- Technology-enhanced learning methods show promise
- 3. Healthcare Policy
- Cultural competence training should be mandatory
- Resource allocation for cultural services is justified
- Quality metrics should include cultural competence measures
- Organizational support is crucial for successful implementation

#### **5.3 Recommendations**

- Based on the study findings, we recommend:
- 1. For Healthcare Organizations
- Implement comprehensive cultural competence training programs
- Allocate adequate resources for cultural services
- Develop supportive organizational policies
- Establish regular assessment and monitoring systems
- 2. For Nursing Education
- Integrate cultural competence throughout curricula
- Emphasize practical skill development
- Include simulation-based training
- Provide ongoing professional development opportunities
- 3. For Healthcare Policy
- Develop standardized cultural competence requirements
- Include cultural metrics in quality measurements
- Allocate funding for cultural services
- Support research in cultural competence

## **5.4 Future Directions**

This research points to several important future directions:

- 1. Research Priorities
- Long-term outcome studies
- Cost-effectiveness analyses
- Technology integration research
- Population-specific interventions
- 2. Practice Development
- Enhanced assessment tools
- Improved implementation strategies
- Technology-based solutions
- Specialized applications
- 3. Policy Development
- Standardization guidelines
- Resource allocation frameworks
- Quality measurement systems
- Professional development requirements

#### 5.5 Final Summary

This study provides robust evidence that cultural competence training significantly improves nursing practice and patient outcomes. The findings support the investment in comprehensive cultural competence programs and highlight the importance of ongoing development in this crucial area of healthcare delivery. The demonstrated benefits to patient care, organizational efficiency, and healthcare outcomes justify the resources required for implementation.

The success of this intervention provides a model for future cultural competence development programs while identifying areas requiring additional attention and research. As healthcare continues to serve increasingly diverse populations, the importance of cultural competence will only grow, making the findings of this study particularly relevant for future healthcare delivery systems.

The evidence presented supports the conclusion that cultural competence is not merely an adjunct skill but a fundamental component of quality healthcare delivery. This research provides a foundation for future development while demonstrating the immediate benefits of comprehensive cultural competence training in nursing practice.

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#### Footnotes

<sup>1</sup> The term "cultural competence" in this study encompasses both cultural competence and cultural humility, recognizing the ongoing nature of cultural learning and development.

<sup>2</sup> Patient satisfaction scores were adjusted for demographic variables and hospital characteristics.

<sup>3</sup> Cost calculations were based on 2023-2024 healthcare cost indices.

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