



## Healthcare Workforce Performance in Hospitals: Challenges, Skills, and Quality of Patient Care

**1Abdullah Mohammed Shahi Alruwaili, 2Fahdah Mehsan Alotaibi, 3Johara Omar Alhomoud, 4Mohammed Tuwayrish S Alanazi, 5Esmaeel Frhan Moslih Almalki, 6Hatem Saeed Saeed Al-Qarni, 7Bandar Awad Al-Shammari, 8Musaad Hamed Ateeq Allah Alzibali, 9Mohammed Fahad Bakhyt Alharbi, 10Nesreen Mohammed Abu Zabnah, 11Noha Ahmad Omaish**

1Laboratories Technician, The Northern Borders Health Cluster

2Optometrist

3Optometrist

4Technician Laboratory, Northern Borders Health Cluster

5Epidemiology Monitoring Technician, National Guard Health Affairs

6Epidemiology Monitoring Technician, National Guard Health Affairs

7Emergency Medical Technician, Ministry National Guard

8Health Informatics, National Guard Health Affairs

9Health Informatics, National Guard Health Affairs

10National Guard Health Affairs

11National Guard Health Affairs

### Abstract

Healthcare workforce performance is a decisive factor in hospital effectiveness, patient safety, and the overall quality of care. Hospitals depend on a diverse mix of professionals—physicians, nurses, pharmacists, allied health staff, technicians, and support services—whose day-to-day decisions and behaviors determine whether care is safe, timely, efficient, and patient-centered. Yet hospitals worldwide face persistent pressures including workforce shortages, rising workloads, burnout, evolving clinical complexity, and rapid technological change. This paper examines healthcare workforce performance in hospital settings by reviewing key challenges that undermine performance, essential skills and competencies that support high performance, and pathways through which workforce factors shape patient outcomes and patient experience. It also synthesizes evidence-informed strategies for strengthening workforce performance, including



staffing optimization, competency-based training, teamwork and communication systems, supportive leadership, and interventions to protect staff well-being. The paper concludes that sustained investment in the healthcare workforce is a core quality and safety strategy and a prerequisite for resilient, high-performing hospitals.

**Keywords:** healthcare workforce; hospital performance; patient safety; quality of care; staffing; burnout; teamwork; competency development

## **1. Introduction**

Hospitals are among the most complex organizations in modern society. They provide high-acuity services, operate continuously, and coordinate care across multiple departments, professional groups, and technologies. In this environment, the performance of the healthcare workforce is central to clinical outcomes and organizational success. Workforce performance can be defined as the capacity of healthcare workers to deliver care that is safe, effective, timely, efficient, equitable, and patient-centered, while adhering to professional standards and organizational goals. Because hospitals rely on people-intensive processes, even small variations in workforce performance can have substantial consequences for patient safety and quality.

Attention to workforce performance has intensified for three interrelated reasons. First, demographic shifts and the growing burden of chronic disease have increased hospital demand and patient complexity. Older patients frequently have multiple comorbidities, require polypharmacy, and experience higher risk of complications, which raises the cognitive and coordination burden on clinical teams. Second, workforce shortages and turnover have stretched staffing levels and increased workload, raising concerns about safety, quality, and staff sustainability. Third, hospitals are adopting new technologies such as electronic health records (EHRs), clinical decision support, advanced imaging, and automation, which can improve outcomes but also impose training and workflow demands.

Workforce performance is not solely an individual attribute. It reflects system design, including staffing models, availability of resources, teamwork structures, leadership behaviors, and a culture that supports learning and psychological safety. When the system enables staff to perform, hospitals tend to see fewer adverse events, better patient experiences, and more efficient use of resources. When the system constrains staff, even highly skilled clinicians struggle, and patients face higher risks of errors, delays, and fragmented care.

This paper examines healthcare workforce performance in hospital settings through three lenses: (1) major challenges that undermine performance, (2) essential skills and competencies required for high performance, and (3) the relationship between workforce performance and the quality of



patient care. It concludes with practical, evidence-informed strategies that hospital leaders and policymakers can use to strengthen workforce performance and improve patient outcomes.

## **2. Conceptual Framework for Workforce Performance in Hospitals**

A useful way to conceptualize workforce performance is to view it as an interaction between individuals, teams, and systems. At the individual level, performance depends on clinical knowledge, technical skills, communication ability, professional judgment, and physical and psychological well-being. At the team level, performance depends on coordination, shared mental models, role clarity, and reliable handoffs across disciplines and departments. At the organizational level, performance depends on staffing adequacy, workflow design, resource availability, leadership quality, and the broader safety culture. These layers interact continuously; for example, an individual's competence may be undermined by poor staffing ratios or by dysfunctional communication systems, while strong teamwork can sometimes buffer operational stress.

The “quadruple aim” framework emphasizes that improving population health, enhancing patient experience, and reducing costs are unlikely to be sustained without improving the work life of clinicians and staff (Bodenheimer & Sinsky, 2014). In hospitals, this insight is practical: fatigued or disengaged teams struggle to deliver consistent quality, and burnout can degrade safety and patient experience. Therefore, workforce performance should be treated as a quality and safety priority, not solely a human resources concern.

Performance measurement must also be multidimensional. Hospitals often use indicators such as mortality, readmissions, length of stay, patient satisfaction, and reported safety events. These outcomes are important, but they are influenced by multiple factors beyond workforce performance. Process measures such as adherence to evidence-based bundles, timely assessment, medication reconciliation, escalation to rapid response teams, and standardized hand hygiene practices can more directly reflect workforce reliability. A balanced approach combines outcomes with process measures and includes workforce indicators such as staffing adequacy, turnover, sickness absence, training completion, and measures of burnout and engagement. Together, these metrics provide a more complete picture of performance and the factors that sustain it.

## **3. Challenges Affecting Healthcare Workforce Performance**

### **3.1 Workforce shortages, turnover, and staffing imbalance**

Shortages of nurses, physicians in certain specialties, and allied health professionals remain a major challenge worldwide. When staffing is inadequate, remaining staff must care for more



patients, cover additional shifts, or manage higher acuity with fewer resources. This increases fatigue and reduces the time available for assessment, documentation, and communication. Evidence consistently links inadequate nurse staffing with worse outcomes, including higher mortality and increased adverse events (Aiken et al., 2014). Staffing shortages also increase reliance on overtime, temporary staffing, or “float” workers, which can introduce variability in practice and reduce the continuity that supports safe care.

Staffing imbalance also matters. The skill mix within a unit influences performance; for example, a unit with many novice staff may require stronger supervision and mentoring to maintain reliability. Sudden turnover can lead to loss of tacit knowledge and weaken unit norms. Hospitals that depend on high levels of temporary staff may face challenges in consistent adherence to local protocols, especially for high-risk processes such as medication administration, infection prevention bundles, and escalation procedures. Effective workforce planning therefore requires not only sufficient headcount but also appropriate distribution of experience and competencies across shifts and units.

### **3.2 Workload, fatigue, stress, and burnout**

Hospital work is demanding and frequently high stakes. Clinicians face time pressure, high cognitive load, frequent interruptions, emotional stress, and exposure to suffering and death. Persistent workload and inadequate recovery time contribute to fatigue and burnout. Burnout is commonly characterized by emotional exhaustion, depersonalization, and reduced sense of accomplishment. It is associated with decreased job satisfaction, increased intention to leave, and lower perceived quality of care. Importantly, burnout has also been associated with increased self-reported medical errors and compromised attention and decision-making (Dyrbye et al., 2017).

Burnout is not simply a matter of individual resilience. It is largely driven by system factors such as staffing shortages, inefficient workflows, excessive administrative tasks, lack of control over schedules, and inadequate support after stressful events. In hospitals, these drivers can become self-reinforcing: burnout increases turnover, turnover worsens staffing, and staffing deficits increase workload. Breaking this cycle requires organizational action, including staffing stabilization, workflow redesign, and leadership practices that protect staff well-being as a prerequisite for patient safety.

### **3.3 Rapid technological change and digital burden**

Digital systems can improve safety and efficiency when implemented well. EHRs can support legible documentation, medication safety checks, and access to clinical information, while



clinical decision support can standardize best practices. However, technology can also increase documentation burden and cognitive load. Poorly designed EHR workflows may require extensive data entry, create alert fatigue, and shift time away from direct patient care. In addition, new technologies demand training, updates, and troubleshooting, which can be difficult to schedule under workload pressure.

Technology is therefore a double-edged sword. Hospitals gain value from digital systems when they are implemented with attention to human factors, including user-centered design, workflow integration, adequate training, and ongoing optimization based on frontline feedback. When technology is implemented without these supports, it can degrade performance by increasing friction, reducing time for teamwork and patient communication, and creating new error pathways. Workforce performance improvement initiatives should therefore include digital optimization and documentation simplification as important components.

### **3.4 Leadership, culture, and communication barriers**

Leadership quality strongly influences workforce performance. Leaders shape priorities, allocate resources, model behaviors, and create the conditions for learning and psychological safety. In hospitals with weak leadership support, staff may feel undervalued and unsafe to speak up about concerns, which can delay detection of risks and inhibit improvement. Hierarchical cultures can suppress reporting of near misses and discourage junior staff from challenging unsafe decisions. Conversely, when leaders encourage open communication and respond constructively to concerns, teams are more likely to identify hazards early and improve reliability.

Communication barriers are amplified in hospitals because care is distributed across departments and shifts. Patients move between the emergency department, wards, imaging, operating rooms, and intensive care, and each transition is a potential point of information loss. If handoffs are incomplete or inconsistent, information about allergies, test results, clinical status, or care plans may be missed, leading to delays, duplication, or harmful errors. Workforce performance therefore depends on organizational systems for communication, including structured handoff tools, interdisciplinary rounds, and clear escalation pathways.

### **3.5 Training gaps and competency variability**

Hospitals employ staff with different educational backgrounds, experiences, and training histories. Without consistent competency standards and ongoing development, practice can vary substantially across individuals and units. This variability can affect critical tasks such as medication administration, infection prevention, device management, documentation quality, and emergency response. Training gaps are especially consequential in high-risk areas such as



intensive care units, operating rooms, and emergency departments, where errors can rapidly escalate.

Competency variability is not solved by occasional lectures. Hospitals need structured onboarding, role-specific training, and competency assessment. When training is inconsistent, staff may rely on informal learning that can perpetuate unsafe habits. Standardization and deliberate practice are therefore essential for reliable workforce performance. In addition, competency expectations should be aligned with evolving clinical demands, including new technologies, updated guidelines, and emerging infection threats.

#### **4. Essential Skills and Competencies for High Performance**

##### **4.1 Clinical and technical competence**

Clinical competence is the foundation of workforce performance. Hospitals require staff who can assess patients accurately, recognize early deterioration, use evidence-based interventions, and manage complex therapies safely. Technical skills include safe medication administration, sterile technique, device insertion and maintenance support, accurate specimen handling, and correct use of monitoring and diagnostic equipment. Because clinical knowledge evolves rapidly, competence must be updated through continuing professional development and access to clinical resources and guidelines.

Competence is most reliable when supported by standardization. Clinical pathways, checklists, and bundles reduce unwanted variation and make safe practice easier. For example, standardized medication administration processes reduce omitted steps, while device-care bundles reduce infection risk. However, standardization must be paired with clinical judgment to manage complex or atypical cases. High performers combine protocol adherence with thoughtful adaptation to patient needs, including individualized risk assessment and shared decision-making.

##### **4.2 Communication and patient-centered interpersonal skills**

Communication is a major contributor to safety and quality in hospitals. Clear communication among clinicians reduces misunderstandings, supports timely decisions, and improves coordination across roles. Communication with patients and families is equally important for trust, shared decision-making, and adherence to care plans. Patient-centered interpersonal skills include empathy, respect, cultural sensitivity, and active listening. These skills influence not only patient satisfaction but also clinical outcomes, as patients who understand their diagnoses and treatments are more likely to follow instructions and report concerns early.



Hospitals also serve diverse populations, which makes cultural competence and language awareness critical. Miscommunication can lead to misunderstanding of medications, discharge instructions, and follow-up plans. Training in communication techniques such as teach-back and structured bedside conversations can improve patient comprehension and reduce preventable readmissions. In addition, communication includes documentation quality; accurate, concise documentation supports continuity, reduces duplication, and helps teams coordinate safely.

### **4.3 Teamwork, collaboration, and interprofessional practice**

Modern hospital care is delivered by multidisciplinary teams. Effective teams coordinate tasks, share information, and maintain shared goals. High-performing teams demonstrate role clarity, mutual respect, and the ability to manage conflict constructively. Teamwork is especially important in high-risk situations such as resuscitation, rapid response calls, surgery, and intensive care, where coordination failures can have immediate consequences. When teams have shared mental models and clear communication norms, they can respond faster and with fewer errors.

Evidence suggests that effective teamwork is associated with better patient outcomes, improved safety culture, and higher staff satisfaction (West et al., 2014). Interprofessional education and simulation can strengthen teamwork by allowing professionals to practice coordination under realistic conditions. Structured tools—such as SBAR (Situation, Background, Assessment, Recommendation), check-back, and closed-loop communication—reduce ambiguity. Multidisciplinary rounds and huddles can align priorities, clarify responsibilities, and improve situational awareness for complex patients.

### **4.4 Adaptability, resilience, and lifelong learning**

Hospitals are dynamic settings. Patient volumes fluctuate, unexpected emergencies occur, and guidelines change. High-performing healthcare workers are adaptable: they can prioritize tasks, respond to changing conditions, and maintain composure under pressure. Adaptability is strengthened by experience and training, but it also depends on system support. When staffing is too tight or resources are lacking, adaptability cannot compensate for sustained overload.

Lifelong learning enables healthcare workers to keep pace with advances in medicine and evolving standards. Hospitals can support learning through accessible education options, mentorship, bedside coaching, and protected education time. Resilience programs and stress management can be helpful, but they should complement system improvements such as adequate staffing, streamlined workflows, and supportive leadership. Sustainable performance requires that the system does not routinely exceed human capacity.



## **5. How Workforce Performance Shapes Quality of Patient Care**

A substantial body of research links workforce performance to patient outcomes. Inadequate staffing and high workload are associated with increased adverse events, lower patient satisfaction, and higher mortality (Aiken et al., 2014). Poor communication and teamwork contribute to medication errors, delayed recognition of deterioration, failures in discharge planning, and preventable complications. Conversely, reliable performance in core processes—accurate assessment, timely response, safe medication handling, and consistent infection prevention—reduces harm and improves quality.

Workforce performance affects multiple domains of quality. For safety, strong performance reduces preventable errors, hospital-acquired infections, falls, and pressure injuries. For effectiveness, it supports evidence-based care and appropriate use of diagnostics and therapeutics. For timeliness, it enables prompt assessment, reduced waiting times, and rapid escalation when patients deteriorate. For patient-centeredness, it supports respectful communication, shared decisions, and continuity. For efficiency, it reduces duplication, unnecessary testing, and avoidable length of stay. Finally, for equity, workforce competence and cultural sensitivity support consistent care across diverse patient groups.

Performance is not static; it can deteriorate under stressors such as demand surges, staffing losses, or poorly implemented technology changes. For this reason, hospitals should treat workforce performance as a continuously managed system property. Investing in workforce capability and well-being is one of the most direct pathways to improving patient care quality and sustaining improvements over time.

## **6. Evidence-Informed Strategies to Improve Workforce Performance**

### **6.1 Staffing optimization and workforce planning**

Hospitals should use evidence-informed staffing models that align staffing levels with patient acuity and workload. While exact ratios vary by setting, research consistently shows that adequate nurse staffing is associated with better outcomes (Aiken et al., 2014). Staffing approaches should include surge plans, flexible staffing pools, and mechanisms to reduce excessive overtime. Hospitals can strengthen retention by improving working conditions, providing career pathways, and recognizing contributions.

Workforce planning should address skill mix as well as headcount. Units should ensure adequate supervision and mentorship for novice staff and maintain a balanced distribution of experience across shifts. Structured onboarding for temporary and float staff reduces variability. Data analytics can help forecast demand, anticipate high-risk staffing periods, and identify units where



burnout and turnover risk are increasing. Hospitals can also partner with educational institutions to strengthen pipelines and align training with hospital needs.

## **6.2 Competency-based education and professional development**

Competency-based development is a practical method to improve performance reliability. Hospitals can define essential competencies for each role (for example: medication safety, infection prevention, device care, communication, documentation, and emergency response) and build training and assessment around those competencies. Onboarding should include return demonstrations for critical skills, not only knowledge tests. Annual refreshers and targeted training based on audit findings help prevent skill decay.

Mentorship and clinical coaching are effective because they provide feedback in real time and support practice improvement. Preceptors, clinical educators, and unit-based champions can reinforce standards and help staff integrate evidence-based practices into daily work. Simulation training allows teams to practice rare but high-risk events, improving coordination and confidence. Professional development should also include leadership skills for charge nurses, supervisors, and new managers so that frontline leadership actively supports performance, team cohesion, and psychological safety.

## **6.3 Strengthening teamwork and communication systems**

Hospitals can improve teamwork by implementing structured interdisciplinary rounds, clarifying roles, and standardizing communication tools. SBAR and closed-loop communication reduce misunderstandings in high-stress situations. Standardized handoff protocols reduce information loss during transfers and shift changes. Team training programs, including simulation-based interprofessional exercises, can improve collaboration and shared situational awareness for complex care.

Psychological safety is critical for high performance. Staff must feel comfortable raising concerns, asking questions, and reporting near misses without fear of blame. Leaders and senior clinicians can strengthen psychological safety by responding respectfully, focusing on learning, and recognizing staff who speak up. When psychological safety improves, hospitals detect risks earlier, coordinate better, and improve performance faster.

## **6.4 Supportive leadership and a culture of safety**

Supportive leadership is associated with improved staff engagement and better perceived quality. Leaders influence performance by setting priorities, ensuring resources, removing barriers, and modeling desired behaviors. Transparent communication, fairness, and recognition increase



motivation. Leaders should conduct regular safety rounds, invite frontline feedback, and follow through with visible improvements so that staff see that concerns lead to action.

A culture of safety includes consistent standards, learning from errors, and system-focused problem solving. Hospitals can strengthen safety culture by supporting incident reporting, conducting root cause analyses, and sharing lessons learned across units. These activities should emphasize system redesign rather than individual blame. When staff trust that reporting leads to improvement and not punishment, participation increases, and the organization becomes more reliable over time.

## **6.5 Protecting workforce well-being and reducing burnout**

Because burnout undermines performance, hospitals should implement strategies that reduce its system drivers. Approaches include stabilizing staffing, improving schedule flexibility, limiting excessive overtime, and redesigning workflows to reduce unnecessary administrative burden. Some organizations reduce EHR burden through documentation support, streamlined templates, and elimination of low-value alerts. Access to mental health services, peer support, and debriefing after critical incidents can help staff recover from stress and maintain performance.

Wellness programs are most effective when paired with system changes. The goal is not to ask staff to “cope” with unsafe workload, but to create conditions where high performance is sustainable. When hospitals invest in clinician and staff well-being, they support the quadruple aim and create a workforce that is more engaged, stable, and capable of delivering high-quality patient care (Bodenheimer & Sinsky, 2014).

## **7. Practical Recommendations for Hospital Implementation**

Hospitals can translate workforce performance principles into practical actions by using a structured implementation approach. First, leaders should identify a small set of “vital behaviors” that most strongly influence safety and quality in their context, such as timely patient assessment, standardized handoffs, medication safety checks, and adherence to infection prevention bundles. Second, hospitals should define clear competencies for these behaviors and ensure that onboarding and annual refreshers include return demonstrations and scenario-based assessment.

Third, hospitals should use audit-and-feedback cycles to make performance visible and to guide improvement. For example, unit-level dashboards can display staffing adequacy, compliance with key processes, and related outcomes such as falls, infection rates, and readmissions. Feedback should be timely and non-punitive, emphasizing learning and support. Fourth, hospitals should invest in unit-based champions and coaches who can provide real-time guidance during routine work and help implement new protocols.



Finally, workforce performance improvement should be linked to well-being initiatives and operational support. Protected training time, reliable supplies, adequate staffing, and simplified documentation are not optional; they enable sustainable performance. When these elements are aligned, hospitals are more likely to achieve durable improvements in quality of care and patient experience.

## **8. Future Directions and Research Needs**

Future work on workforce performance should focus on practical, scalable interventions and measurement systems that capture both workforce and patient outcomes. Research is needed on staffing models across different hospital types, including the effect of skill mix, experience distribution, and patient acuity tools. The impact of digital tools should be studied using human factors methods so that technology improves rather than hinders clinical work.

Hospitals should also explore innovative workforce models, such as expanded roles for advanced practice providers, stronger integration of pharmacists and allied health professionals, and team-based care redesign. Workforce diversity and inclusion should be emphasized to ensure equitable opportunities and culturally competent care. Finally, evaluation should consider long-term sustainability: programs that improve performance briefly but increase workload later may not provide lasting benefit. Sustainable success will require alignment between performance expectations, resources, and workforce well-being.

## **9. Conclusion**

Healthcare workforce performance is a cornerstone of hospital quality, patient safety, and organizational resilience. Hospitals face multiple threats to workforce performance, including shortages, workload and burnout, rapid technological change, leadership and communication barriers, and competency variability. High performance requires more than individual competence; it depends on strong teamwork, supportive leadership, reliable systems, and an environment that protects workforce well-being.

Hospitals can strengthen workforce performance by optimizing staffing and skill mix, implementing competency-based training and professional development, improving teamwork and communication systems, building a learning-oriented culture of safety, and addressing the system drivers of burnout. Because workforce performance directly shapes patient outcomes and patient experience, investments in the workforce should be viewed as essential quality and safety interventions. A hospital that supports its people is better positioned to deliver safe, effective, and patient-centered care in a sustainable way.



## **7.1 Workforce Performance Metrics and Continuous Improvement**

To sustain workforce performance gains, hospitals need measurement systems that are simple, credible, and connected to improvement. A balanced set of metrics can include staffing adequacy and skill mix, process reliability measures (such as handoff completion, medication reconciliation, or bundle adherence), and outcome measures (such as falls, infection rates, or readmissions). Importantly, metrics should be transparent to frontline teams and used for learning, not punishment.

Continuous improvement requires short feedback cycles. Units can use brief weekly huddles to review one or two key indicators, identify barriers, and test small changes. For example, if delayed discharge planning contributes to length of stay, a team may redesign daily rounds to include early planning and clear ownership. When staff participate in interpreting data and testing solutions, engagement rises and performance becomes more reliable.

Hospitals can also standardize coaching and peer learning by creating communities of practice across units. Sharing effective interventions—such as a simplified handoff template, a revised staffing escalation policy, or a redesigned documentation workflow—reduces duplication and accelerates improvement. Over time, these structures convert performance improvement from a project into a routine operating system.

- Use a small dashboard that combines workforce indicators (turnover, overtime, sick leave) with quality indicators (falls, HAIs, medication errors).
- Schedule protected time for micro-learning and skills refreshers linked to the dashboard's weakest areas.
- Establish a clear escalation pathway for unsafe staffing so that managers respond quickly and consistently.
- Recognize teams that improve reliability and share their practices across departments.

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