



## **EVALUATING THE STRATEGIES TO DEVELOP QUALITY MANAGEMENT SYSTEM IN A HOSPITAL**

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### **ABSTRACT**

*A QMS in hospitals is the key to better patient care and operational efficiency as well as regulatory compliance. This paper examines strategies for the establishment of an effective QMS in the hospital environment. The article initiates the discussion by presenting the role of quality management in health care and thereby its contribution to the promotion of safety, satisfaction for patients, and performance improvement in a hospital. The quality management system assists hospitals to harmonize various processes, lower mistakes, and raise the standard of health care given to the patients. A QMS in hospitals aims to attain multifaceted goals; it includes enhancing patient results, optimizing the working of hospitals, and attaining compliance with regulatory standards. The following paper focuses on basic components of a QMS, which includes commitment of leadership, process management, risk management, and measurement of performance. In hospitals, implementing a successful QMS must be coordinated through cooperation with the staff and hospital management in defining clear objectives and adopting best practices. This involves selection of appropriate standards and guidelines to be adhered through proper training and education. Despite the above advantages, a QMS in hospitals has its associated challenges. These are; change resistance by the staff, financial constraints, and complexity in harmonizing the different processes within the hospital. This article discusses these challenges in detail and presents strategies to overcome them, including fostering a culture of continuous improvement, ensuring effective communication, and using technology to aid in performance monitoring. The article further details the best practices and case studies of hospitals that succeed in QMS implementation as well as pointing out what works and what does not. Conclusion Underlines how a strong QMS ensures sustainability of the healthcare facility for a longer period and points out workable recommendations that health service administrators and practitioners can adapt with interest for improving the quality management of the hospital.*

**Keywords:** Quality Management System, Hospital, Patient Safety, Operational Efficiency, Regulatory Compliance, Continuous Improvement, Healthcare Quality.

### **I. INTRODUCTION**

Hospital quality management is a critical area through which good-quality healthcare services can be offered. A QMS is an orderly process and protocols with a specific goal of increasing safety, quality of care, and efficiency in delivering operational service in a hospital setting.

Implementing a QMS in the hospital is influenced by several factors, primarily driven by the increasing requirements of various authorities and growing patients' demands on care with safety, efficacy, and centrality to the patients' needs. It is at this point that a systematic process can be achieved in an organization for improving patient care and reducing errors.

A QMS in hospitals involves a multi-faceted approach, including leadership commitment, staff involvement, and continuous improvement. This includes setting quality objectives, monitoring performance, and making data-driven decisions that help improve patient outcomes. Often, the introduction of such systems brings about changes in the culture of the hospital, involving collaboration at all levels of staff and shifting towards a more proactive approach to quality management. This requires training and education of all employees on the principles and practices of QMS, thus empowering them to effectively participate in implementing and maintaining such systems.

There are many challenges to the implementation of a Quality Management System in hospitals. Such include resistance to change by the staff, lack of finance, and complexities involved in introducing new processes within already established hospital structures. Developing this, strategic approach involves effective communication and the definition of clear goals along with proper use of technology that allows easy collection and analysis of data. This introduction sets up for a comprehensive discussion about strategies and challenges in building a Quality Management System for hospitals. It is intended to arm health care administrators, professionals, and policymakers with an integrated view of what the constituent elements of a QMS are, as well as ideas on how to best manage the problems that will inevitably occur.

## II. OBJECTIVES OF A QUALITY MANAGEMENT SYSTEM IN HOSPITALS

The objectives of a Quality Management System in hospitals are to promote quality patient care, make the process more efficient, and meet the regulatory standards of a healthcare facility. These objectives form a systematic approach toward managing and improving healthcare services for patients. Here are the detailed explanations of key objectives of a QMS in hospitals:

- **Fostering a Culture of Accountability:** A QMS in hospitals goes beyond mere standards and protocols; it is about creating a culture of accountability among all staff. This is achieved by defining roles, responsibilities, and expectations clearly so that every individual understands his or her part in the delivery of quality care. This will encourage proactive behavior, with staff not only being compliant with the regulations but also taking responsibility for quality improvement initiatives and patient outcomes.
- **Promoting Data-Driven Decision Making:** The hallmark of a QMS is its focus on data in making decisions. Hospitals have reams of data regarding patient care, clinical outcomes, and operational metrics. A QMS utilizes this data to identify trends, track performance, and make informed decisions. This way, hospitals are better placed to make appropriate resource allocation, identify areas of improvement, and implement evidence-based corrective actions.

- **Engaging Patients and Families in Care:** Contrary to the traditional quality management systems, a QMS in hospitals engages patients and their families in care decisions. In this way, a QMS fosters a patient-centered approach that encourages communication, shared decision-making, and feedback loops. This means that a patient's preferences and concerns are considered in treatment plans and care processes, thus ensuring better satisfaction and outcomes for patients.
- **Adapting to Technology:** A QMS puts the hospital in a position to embrace technological advancements that promote patient care and operational efficiency. This includes electronic health records, telemedicine, and other digital solutions that streamline communication, reduce errors, and enhance the quality of care. By adapting to new technologies, hospitals can stay competitive and meet the evolving expectations of both patients and healthcare providers.
- **Continues, learns and improves:** this QMS is designed with the provision of being flexible to change through continuous learning process improvement for hospitals. Auditing practices, analyzing outcomes, learning in and with the result, and refinement on the outcomes are encouraged habits for ongoing training. All such continuous input helps hospitals realize adaptations to an ever-changing environment of health care, provide current best practice, and the commitment for excellence in treatment of their patients.

A unique goal of a QMS is to promote interdisciplinary collaboration between staff working in a hospital. This is accomplished by encouraging teamwork between nurses, physicians, administrators, and support services. In doing so, it promotes improved communication and lessens silos. A more integrated and coordinated delivery system will be better for patients and staff alike.

### III. STRATEGIES FOR DEVELOPING A QMS IN HOSPITALS

A QMS in hospitals would be developed only with a strategic approach, in alignment with best practices involving all staff levels and aligned with regulatory requirements. The strategies involved are those seeking to establish systematic, standardized, and sustainable improvement processes in the areas of patient care, operational efficiency, and safety. This article offers the reader in-depth details about the strategies involved in the development of a QMS in hospitals.

#### 1. Definition of scope and objectives of QMS

**Set Your QMS Objectives:** The step taken after defining the scope of development towards making a QMS is clear statement of objectives by identification of areas of hospital functioning, from clinical care to administrative functions, patient safety, and staff training. These must be SMART—that is, specifically defined with measurable standards, achievable at possible levels, relevant to requirements, and time-bound as well—in order to give precise guidance and enable the means through which your performances can be tracked. For example, the aim may be reducing medication errors by 20% in a year by more stringent prescription protocols and employee training.

**Stakeholder Engagement:** Different departments stakeholders- clinicians, nurses, administrators, IT staff, and even patients should be involved in this process. Their involvement ensures that the QMS responds to their needs and prioritizes them so that everybody owns the QMS implemented in the organization. Workshops, brainstorming sessions, and surveys could be used as a mean of gathering different stakeholders input so that the system remains comprehensive and addresses all critical aspects of hospital operations.

Compliance with local, national, and international standards is one of the primary goals of creating regulatory compliance. It can be achieved by the QMS, for instance, through adaptation to some regulation such as ISO 9001, Joint Commission standards, or even country-specific healthcare quality measures. Thus, maintaining regulatory compliance from the outset ensures smoother accreditation processes without penalty.

## **2. Determine suitable standards and guidelines.**

**Standards and Guidelines:** Appropriate selection of standards and guidelines forms an important aspect of developing a QMS. It might be selected from the international standard sets such as ISO 9001, ISO 15189, for laboratories, Joint Commission accreditation standards, etc. National or local set guidelines can also be selected and adhered to. These standpoints form the backbone that aids the documentation of processes with standard expectations and consistency among those in the hospital.

**Gap Analysis:** This is where a gap analysis identifies differences existing between the current state of operating the hospitals and the envisioned state outlined by the adopted standards. This becomes the beginning of corrective measures to be adopted, training processes, and improvement in business processes. It will point out areas that require more special attention, including the practices involved in documentation, staff competencies, and integration with technology.

**Training and Education:** Training is part of the implementation of QMS. The employees are to be made aware of the quality management principles, standards under use, and their jobs in the QMS. This can be through workshop, seminars, online course, and practice sessions. Continuous education allows employees to be informed and focused towards quality improvement work.

## **3. Involve staff and Leadership in QMS Development**

**Change Management:** A QMS usually involves a lot of change in the way that staff work. Change management plans are necessary to reduce resistance to change, ensure smooth transition, and maintain morale. This may include clear communication about the benefits of the QMS, involvement during the planning and implementation phase, and support from leaders. Leaders should be visibly supportive of the QMS, modeling best practices and expectation.

**Cross-functional teams:** Cross-functional teams that include staff from different departments will be helpful in addressing most aspects of the QMS. These teams can assume

specific areas such as patient safety, clinical protocols, administrative efficiency, and technology integration. They bring together diverse perspectives and expertise, which will ensure that the QMS is well-rounded and applicable across the hospital.

**Feedback Loops:** In order to enhance the QMS, feedback from staff must be sought at frequent intervals. This may be done either through surveys, focus groups, or regular staff meetings. It means continuous improvement with feedback loops and the QMS changes to match the changing needs of patients and challenges presented.

#### 4. Implement and Monitor QMS Processes

**Process Implementation:** The processes of QMS have to be implemented in the hospital after the planning. For this purpose, standard operating procedures along with quality protocols and performance metrics will be issued. Staff needs to understand the processes so that they could apply these in practical life at appropriate times during their daily tasks.

**Performance Measurement:** As part of measuring the effectiveness of QMS, hospitals should frame appropriate performance metrics. An example would be patient safety indicators and rates, rates of infections, scores for measurements in patient satisfaction measurement, performance of employees, and adherence to the standards established. Comparing and computing these results at predetermined time intervals provides insights to all those directions through which improvements could be achieved along with the timely adjustment needed.

**Technology Implementation:** Technology inclusion in the QMS will hasten efficiency and powerful data collection and analysis. EHRs, data analytics tools, and QMS software will assist in tracking and reporting performance based on trends and supporting related decisions. This technology allows for sharing of correct information in a timely manner enhancing communication and reducing administrative burden while improving the QMS.

#### 5. Monitor and Improve QMS

**Audits and Reviews:** There should be regular audits and reviews of the QMS to determine how it is performing. These will help identify some discrepancies between what was envisioned and what happened, which might expose what works right and needs improvement. Internal audits are done within a hospital by its staff members, while external audits come from third-party assessors who can give an unbiased view.

**Continuous Improvement:** Continuous improvement strategies enable the hospital to learn from experiences and grow through new challenges along with embracing new best practices. It is achieved in the hospital by improving existing practices in terms of revising protocols, changing training, and adapting newer technologies in service delivery. To me, in its dynamic nature, a QMS needs to change as demanded by the needs of the constantly changing health care arena.

**Sustaining Quality:** For the long-term effect of QMS, efforts for improvement should be institutionalized among hospitals. Such commitment is secured by the institution's leadership. Quality initiative integration with the strategic planning of the hospital is important.

Furthermore, all personnel must be motivated and energized in their quest for maintaining good quality care.

#### IV. CHALLENGES IN IMPLEMENTING A QMS IN HOSPITALS

The challenge of implementing QMS in hospitals requires being addressed to achieve successful adaptation and sustainability of change. Some of the challenges that may arise include resistance from the hospital, financial constraints, communication, technology, and compliance among others. Some of the challenges experienced during the implementation of QMS strategies in hospitals include:

##### 1. Resistance to Change from Hospital Staff

**Cultural Resistance:** It is one of the challenges for hospital staff to cope up with the change. Hospital staff resist the change mainly because the fact that bringing in a QMS demands new methods, processes, and routines, which are skeptical or reluctant to accept. These hospital staff are habitual of doing things in a particular old manner and find new processes as an added burden rather than an improvement. Such a resistance can even act against smooth implementing strategies of QMS.

**Fear of Accountability:** A QMS can make the staff more accountable since monitoring performance and indicating where changes are needed are usually part of the implementation process. Some staff will be afraid of being watched, which may lead to fear that they will be blamed or even punished. The fears should be handled with effective communication, training, and a clear indication of the benefits of the QMS to improved patient care and professional development.

**Leadership Buy-in:** The QMS initiatives will not take off unless leadership buys into it. Unless and until the hospital leadership goes out of its way to promote and speak up for the QMS, no hospital leader will make her staff believe that the QMS is important. Hence, hospital leadership needs to be visibly committed to quality improvement. That is to say they need to ensure, through actions and policies, that QMS implementation is top priority for the hospital.

##### 2. Cost and Resource Barriers

**Implementation cost:** The implementation of QMS is expensive. The main cause of this is the investment in time, personnel, and technology. New equipment, software, and training programs might be needed to be purchased by the hospital. Budgetary constraints make it challenging to allocate adequate funds for such purposes, which may delay or limit the scope of QMS implementation.

**Staffing Issues:** Training employees to implement and maintain a QMS process is resource intensive. In some cases, hospitals would need more people or redirect the same people into new roles associated with managing quality, process improvement, and compliance monitoring. Such requests can be very strenuous on existing resources, creating more workload.

**Competing Priorities:** Hospitals have competing priorities, such as managing patient volumes, regulatory compliance, and responding to emergencies. In such an environment, the implementation of a QMS is a priority over other competing needs, which is very challenging in resource-constrained environments.

### 3. Effective Communication and Collaboration

**Siloed Departments:** Hospitals are most often siloed. That is, most departments stand almost entirely independently of the others, meaning it would be difficult to implement a QMS, which should coordinate clinical care, administration, IT, and other support services. Coordination effort, sharing information, and ensuring that every staff person understands the purpose of QMS and their own role within it requires communication.

**Information sharing:** With the management of old and even manual systems, the effectiveness of sharing information throughout the hospital might take so long. A QMS demands timely collection, analysis, and reporting in tracking performance so that better decisions may be made. There is an investment to be done both in technology solutions by a hospital but also creating rules that make it possible for data sharing in aid towards QMS objectives.

**Effective change management:** is the key to overcome communication challenges. Hospitals need strategies to manage resistance, provide consistent messaging, and involve staff in the change process. Clear communication channels, regular updates, and involving staff in decision-making can facilitate smoother transitions and improve buy-in for QMS initiatives.

### 4. Technology Integration

**Interoperability Issues:** One of the issues when bringing in technology into a QMS is interoperability, more so when different software systems operate within the different departments. These hospitals must invest in interoperable technology solutions that would readily enable data sharing across any given platforms. Such investments may include the need to upgrade or replace the existing systems, which involves costly planning and coordination.

**New technologies training:** The staff is trained on how to appropriately use new technologies. Such employees need to be comfortable working with EHRs and data analytics tools and their contribution to quality management. Poor training leads to low adoption rates and incomplete data entry, reduced system performance.

**Keeping technology up-to-date:** It is very essential that technology in a QMS is maintained. It is done through updating software, solving problems when they arise, and ensuring the system is secure and up-to-date with standards. Not maintaining technology can render a QMS ineffective and, thus, have an adverse impact on patient care.

### 5. Measuring and Reporting QMS Performance

**Performance Metrics:** It's difficult to formulate relevant metrics that will reflect the quality of care and hospital operation. Hospitals have to appropriate the indicators that can actually give meaningful insights into its performance. Such includes: patient outcomes, staff productivity, and compliance with standards, among others. Such must be established carefully considering what should be tracked most and in what manner data will be collected and analyzed.

**Data Analysis:** Collecting data is not the end; analysis and identification of trends, correlation, and areas of improvement are equally important. Analysis of data may become problematic for hospitals due to inadequacies in the experience of staff or available tools. Proper data analysis enables better decision-making and constant improvement, but it requires appropriate skills and resources.

**Reportable Mechanism:** This is integral in creating effective communications for the appropriate stakeholders about their performance. Reports need to be extremely clear, very concise and actionable in allowing one's ability to progress even more. In doing this aspect, too many communications tend to drown in noise.

The general efforts would help hospitals address most challenges through effective QMS in enhancing patient care, boosting efficiency in operations, and enhancing regulatory compliance. Planning involves adequate investment in resources that could lead to commitment with sustained improvement.

## V. BEST PRACTICES AND CASE STUDIES

One of the ways to improve patient care and operational efficiency is implementing QMS in hospitals. Many hospitals in Punjab have embraced QMS practices for enhancing healthcare delivery. A few examples include the following:

### **Dayanand Medical College and Hospital, Ludhiana:**

DMC has adopted many QMS activities to provide patient care services. The hospital focuses upon its quality accreditation by NABH (National Accreditation Board for Hospitals & Healthcare Providers) and ISO-orienting processes. Its online health record, streamlined process, and incessant medical training has kept maintained high standards.

### **PGIMER Satellite Centre, Sangrur:**

This center has embraced the principles of TQM to uplift patient services. It has delivered better healthcare in general through advanced diagnostics, efficient process management, and patient-centric care. Employee training and stakeholder communication are important components of its QMS.

### **Fortis Hospital, Mohali:**

Fortis Mohali can be classified as one epitome hospital in Punjab that has formulated effective frameworks of QMS. In this context, it undertakes data analytics along with frequent audits and feed-back arrangements to work progressively. With these criteria in



mind, the hospital earned several certifications on quality protocols as well as patient safety protocols.

### **Christian Medical College, Ludhiana**

The approach at CMC towards quality management is methodical. Their QMS involves patient satisfaction, infection control, and process improvement. Continuous staff education and training, patient feedback gathering system, and constant quality audits form their QMS.

### **Government Medical College and Hospital, Patiala**

This government hospital has introduced QMS principles in state and central health care programs. Some improvements are better management of workflow, modern diagnostic tools, and focus on less waiting time for patients without compromising the quality of treatment.

### **Capitol Hospital:**

Capitol's Hospital is a multispecialty hospital in Jalandhar. It believes in patient-oriented health care by following QMS. It is NABH & NABL accredited, and through this, it manages to sustain the high levels of health care delivery. It employs digital health records, conducts regular training of staff, and has an excellent feedback system to improve it further. Their NABH compliance focus is an underlining commitment towards quality management.

### **Baba Buddha Sahib Cardiac Centre:**

This specialized cardiac care center incorporates QMS principles to advance cardiovascular treatment and patient safety. Among their initiatives are the implementation of advanced cardiac diagnostic tools, streamlining patient admission and discharge processes, and high hygiene standards. Regular quality audits and employee engagement in decision-making have been pivotal to their success.

### **Pruthi Hospital:**

Pruthi Hospital, henceforth has been concentrating more on the TQM and QMS framework that can be applied to its good-quality gynecological and maternity services delivery. The hospital streamlined the flow of patients, set up the staff training programs, and significantly invested in the use of high-tech medical equipment, among others so that quality results can be expected. Their continuous improvement activities are directed through patient feedback.

### **DMC Hospital & Trauma Centre:**

DMC Hospital & Trauma Centre in Jalandhar had a structured QMS approach with the focus on efficiency in trauma care. It has implemented real-time monitoring of patients, optimized resource use in emergency, and evidence-based treatment protocols. It also keeps staff prepared through simulation-based training to support its commitment towards operational excellence.

### **Tagore Hospital:**

Tagore Hospital has improved the quality of healthcare delivery due to QMS practices and NABH standards with a focus on patient satisfaction. The continuous process improvement, regular clinical audits, and infection control enhancement in the hospital have also ensured improved healthcare outcome with considerable reduction in the patient waiting time.

#### **Capital Path Lab:**

This will be the case for the Capitol Path Lab that considers QMS practices to develop quality diagnostics and timely reporting; they are ISO-compliant, ensuring high accuracy from pathology to diagnostic testing through automation of lab processes. Regular calibration of equipment aids in maintaining quality and reliability.

#### **Devaji Dispensary**

Being part of community healthcare, Devaji Dispensary follows the basic QMS principles that enable easy accessibility and assurance. This includes proper record maintenance and staff training, and supply chains are managed for drugs consistently. The reason they have always been inclined toward patient satisfaction and relatively cheaper treatment is their focus on quality.

These hospitals at Jalandhar and many such units reflect how Quality Management Systems have improved patient care, efficiency in working, and international health standards.

### **VI. CONCLUSION**

A Quality Management System in hospitals is a strategic necessity for the betterment of patient care and operational efficiency, yet with high standards of safety and quality. Hospitals in Punjab have moved ahead with great milestones in adopting QMS tailored to the respective needs and challenges. The hospitals have done beyond the regulatory requirements in the implementation of structured quality frameworks, thereby exceeding expectations regarding patient outcomes and satisfaction. Significant patient care and operational efficiency improvements of quality management systems implemented in the hospitals of Punjab have come forth through such accreditations, continuous training, and process improvement in Dayanand Medical College and Fortis Hospital. Baba Buddha Sahib Cardiac Centre and DMC Trauma Centre are examples of special care and emergency preparedness made possible through QMS. The above three hospitals demonstrate promise on the transformative potential offered by QMS to achieve superior outcomes in health care, by the blending of accreditation and patient-centric approaches with structural audits. These illustrate how the quality management strategies should be aligned with the organizational objectives to begin change for healthcare services delivery.

However, challenges that exist in QMS for hospitals include the constant training of workers, resources allocation, and proper communication of the strategies. However, the success stories from these hospitals show that with a commitment to quality improvement and a culture of accountability, such challenges can be overcome. Besides the promotion of patient safety and care quality, integration of QMS in the operations of the hospital promotes a collaborative environment with empowered staff who are motivated to make informed

decisions leading to positive outcomes in relation to patients. Looking into the future, the technologies would be expected to continue integrating into hospitals in Punjab for improvement of quality management. To this end, data analytics and other patient-centered care approach amongst others will likely enter further development. Novel solutions adoption such as EHR, telemedicine, and AI will continue to evolve ways in which quality management work is performed by the hospital. This will introduce the new avenue of entering for analyzing patient care; promote more streamlined processes; help speed up decision making into better patient experience and results.

This will be the commitment of healthcare providers in improving quality service delivery to society, as implementation of Quality Management Systems is being adopted by hospitals in Punjab. It is through structured frameworks of quality that benchmarking standard healthcare here can be ensured. The same institutions will continue to remain leaders in healthcare delivery with patients getting the best possible care. The journey towards quality improvement in healthcare is continuous, and with continued efforts, Punjab hospitals can be examples of success for the larger healthcare industry.

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