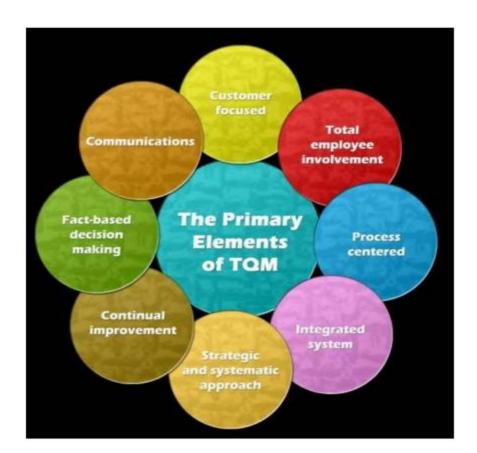






The key principles are:

- Management Commitment.
- Employee Empowerment.
- Fact Based Decision Making.
- Continuous Improvement.
- Customer Focus.
- Organizational Culture.
- Continuous learning.



The ISO 9000:2005 Quality Management Principles





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International standards for organization(ISO)

Principle		Description	
	Customer focus	•	Understand current and future customer needs & expectations
•	Leadership	٠	Commitment and establish environment that help employees to become involved in achieving org. objectives
•	Involvement of people	•	at all levels of the organization are fully involved and empowered
•	Process approach	•	Processes must be managed by the leaders, and related resources provided
•	System approach to management	•	Systems management and systems thinking
•	Continuous improvement	•	A continuous focus on performance improvement
•	Factual approach to decision making	٠	Analysis of data and information will lead to effective decision-making
	Mutually beneficial supplier relationships	-	The organization and its suppliers are interdependent and a good

relationship between them creates value for all





QUALITY MANAGEMENT PRINCIPLES

- Productive work is accomplished through processes." Each person in the organization is a part of one or more processes.
- Soundcustomer-supplier relationships are absolutely necessary for sound quality management."
- 3. "The main source of quality defects is problems in the process."









QUALITY MANAGEMENT PRINCIPLES

- 4. Poor quality is costly.
- Understanding the variability of processes is a key to improving quality.
- Quality control should focus on the most vital processes.
- 7. The modern approach to quality is thoroughly grounded in scientific and statistical thinking.





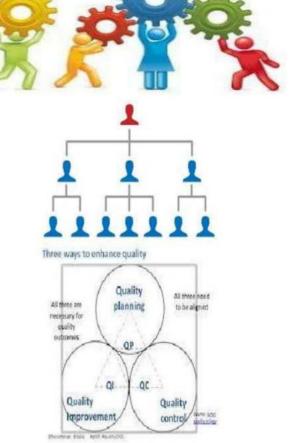


QUALITY MANAGEMENT PRINCIPLES

- 8. Total employee involvement is critical.
- 9. New organizational structures can help achieve quality improvement.
- 10. Quality management employs basic, closely interrelated

activities:

Quality planning, quality control [quality measurement], and quality improvement.







Basic principle of total quality management

Productive work is accomplished through Process

Source of quality <u>defects in system</u> not individual performance

Understanding the variability of the process

Ground on scientific and statistical thinking

New <u>org. structure</u> can help achieve Q. Improvement Sound of customer necessary for sound of quality

Poor quality is costly

Focus on the most vital process

Employee involvement (Quality is responsibility to all)

Q. Management activities : Planning & Improvement & Control





TQM philosophy promotes

- emphasis on quality, leadership being responsive rather than directive
- Decrease emphasis on inspection, focus on systems rather than individual.
 - investment in learning & education.
- •long term vision
- Cautions use minimal standards.
- Ongoing quality improvement.
- •Effort should be directed not to finding and fixing the problem in product through end point of production but at finding and fixing problem in work process (strip down the process to find and eliminate the problem)





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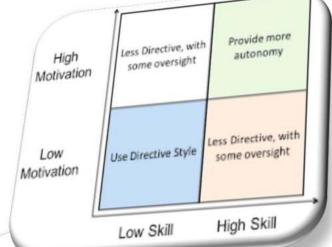




try, inspect, adapt engraved in his behavior and thinking. fully aware of the threats of a business world in tremendous encourages all employees to development, be part of this curious and explorational way of adapting to the future; and to shaping the future.



directions, objectives, standard and expectations to employees. most effective when a task is complex and complex and employees are unskilled or inexperienced









TQM fosters a belief in the value

Customer

Needs, Expectations

Staff

Involvement

Managemen t

Commitment, **Empower** staff

Team work

Ownership, Mult experts







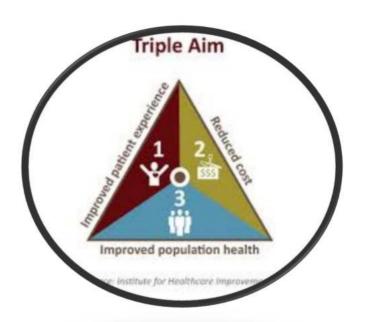
National quality strategy

The National Quality Strategy (NQS) was established in 2011 by the Agency for Healthcare Research & Quality (AHRQ), guided by the Triple Aim of the Institute for Healthcare Improvement (IHI).

IHI's Triple Aim.

- 1. Better care
- 2. Healthy people and communities
- 3. Affordable care

To achieve these aims there are 6 priorities which address the range of healthcare quality concerns.







> 6 priorities which address the range of healthcare quality concerns.

And focus on six priorities:



Making care safer by reducing harm caused in the delivery of care.



Ensuring that each person and family are engaged as partners in their care.



Promoting effective communication and coordination of care.



Promoting the most effective prevention and treatment practices for the leading causes of mortality, starting with cardiovascular disease.



Working with communities to promote wide use of best practices to enable healthy living.



Making quality care more affordable for individuals, families, employers, and governments by developing and spreading new health care delivery models





Lever	Description	
Measurement and feedback	Measurement and performance feedback for plans, providers, and others within the organization	
Public reporting	Use of comparative treatment results, costs, and patient experiences Offer training, tools, guidance, and resources to foster a learning environment aimed at achieving quality improvement goals	
Learning and technical assistance		
Certification, accreditation, and regulation	Meet and maintain safety and quality standards	
Consumer incentives and benefit designs	Provide healthy behavior resources for consumers to utilize to make informed decisions	
Payment	Reward and incentivize those who provide care that is high quality and patient-centered	
Health information technology	Utilize HIT to improve communication, transparency, and efficiency	
Health information technology Innovation and diffusion		

Table 4: National Quality Strategy Levers (adapted from Agency for Healthcare Research & Quality, 2011)





To achieve the value

- 1. Offer better value customer experience with more choice of product. (transparency)
- 2. Offer website displaying healthcare information that is easy to read and understood.
- 3. Looking to the future especially interaction technology.

Responsibility of healthcare quality professional

- •understand, teach, and guide the development and implementation of the Strategy and processes, with the effective use of data and information, to make wise improvements and effect positive change.
- •understand the principles of both Total Quality Management and Continuous Quality Improvement.
- ■They must articulate to all administrative and governing body leaders how TQM philosophy, with the processes of performance measurement, analysis, and improvement; and the development of an effective Healthcare Quality Strategy, are necessary and compatible with the organization's financial health, and, making the Strategic Plan achievable.
- •demonstrating the value of quality that is linked to reduced risk, reduced costs, and better patient outcomes





DONABEDIAN PARADIGM

■It is **causal** relationship between structure, process and outcome.

Structure

is the arrangement of parts or elements of the Care system that facilitate care. It is the evidence of organization's capacity to provide care to patients. e.g. resources, staff number, staff qualifications, Ps & Ps, medical record information, settings of care, organizational

chart, and accreditation status

process

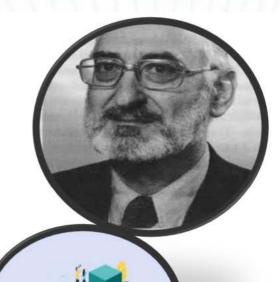
refer to the procedure, methods, means, or sequences of steps of providing or delivering care and producing outcomes.

refer to activities that act on an "input" from "suppliers" to produce an output for a customer e.g

clinical process

care delivery process

administrative and management process





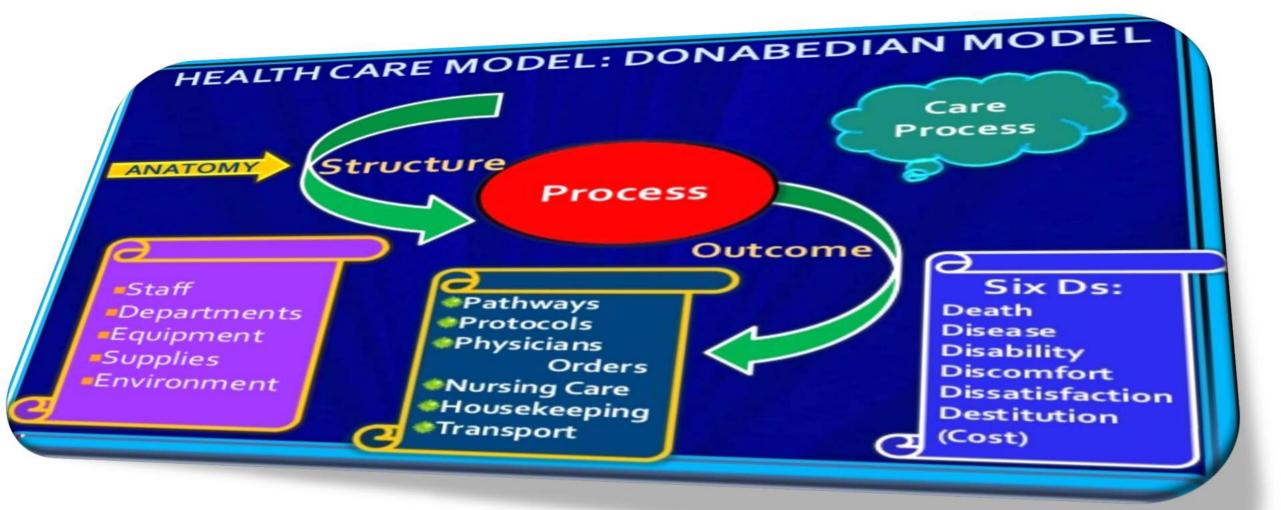
Types of process

Patient flow
Information flow
Material flow



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"Process variation"

any change or deviation in form, condition, appearance, extent, etc., from the usual state or assumed standard either in the whole process or in a step of the process.

Special

(assignable & extrinsic) cause variation

Common

(random & intrinsic) cause variation

- Extrinsic of the usual process.
- Related to Identifiable factors can be tracked to root cause.
- Refer to sentinel event, unique, one time occurrences, out of the ordinary circumstances, outliers & tails.
- More easy to identified & resolved.
- may be positive or negative.
- Response. root cause analysis (RCA).

- Intrinsic to the process itself.
- Related to situations within process, chronic, noise & inliers.
- More time consuming, more difficult.
- Response: no focus, monitoring, process redesign & improvement (aim to reduce variation).





Process reliability

■DEF:

probability that each step of the process will occur when, where, and how it needs to occur.

- •failure-free operation over time.
- •Reliability Rate (PR): the probability of success in HC (delivering desired outcome) by measuring compliance with performance measures (KPIs).

Example.

medication administration process consisted from 4 steps (((Step1 (99%) step 2 (95%) step 3 (90%) & step 4 (95%)))))

PR= 0.99*0.95*0.90*0.95= 80% (20% probability of failure)





How to improve process reliability?

1) Reduce the number of steps (lean):

Medication administration process in 3 steps PR= 0.99*0.95*0.95= 90% (10% probability of failure)



2) Improve the reliability of individual steps (redesign process):

Compliance of staff in Medication administration process increase PR= 0.99*0.95*0.95*0.95= 85% (15% probability of failure)

Process Breakthrough improvement.

is any sudden or significant solution to problems that leads to further advances, significant improvement or removal of barriers to progress.





outcome

the results of care whether adverse or beneficial, or it is the product of the process.

Type of outcome:

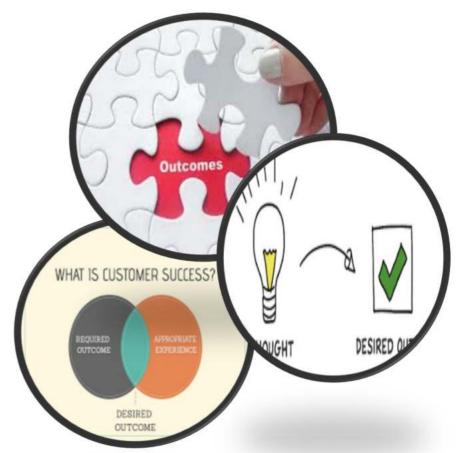
Clinical outcome	Functional outcome	Perceived outcome
 short term results of process Mortality& morbidity rates, infection rate 	 long-term health status Activities of the daily living status(ADL) The patient progress to meet objectives 	 Patient/family satisfaction and knowledge Peer accountability
Control blood sugar level	 Patient back to normal activity, diet, sport & medications & follow up 	 Patient satisfied with new life style





• Factors affect the degree to which healthcare services achieve desired outcome:

- 1. Disease process & severity.
- 2. Care process.
- 3. Patient compliance.
- 4. Random & unidentified variables.







Important Roles and Quality Functions

Quality Role	Important Functions of Role
Quality Management (QM)	 Organizational systems assessment Clinical performance monitoring (compliance to standards) Patient outcomes and care delivery process measurement, analysis, interpretation, and reporting Patient safety planning, program implementation, Measurement Organization performance improvement process
Patient Safety Management (PS)	 Patient safety planning, program implementation. process measurement, analysis, interpretation, and reporting.
Utilization Management (UM) Risk Management (RM)	 Review medical necessity and appropriateness Resource allocation: timeliness, appropriateness, efficiency, and cost Role of Case Management/Discharge Planning in some organizations Clinical occurrences, Environmental and claims Mitigation of the effects of negative outcomes on both the organization and the patient





Quality Role Important Functions of Role Surveillance & prevention Infection Control (IC) Practitioner credentialing, Medical Staff at time of appointment and reappointment All independent practitioners, specific requirements & depending privileging & competency appraisal on the setting Continuing medical/clinical Orientation of quality management program, performance standards, policies, procedures, and documentation standards education Professionals performing any of the Data collection, summarization, and aggregation Information analysis, display, and presentation first four components (QM, UM, RM, Information interpretation, sharing, and use and IC) Ongoing communications within the organization Effectiveness oversight

Wise improvement...





System thinking

System.

whole elements continually affect each other over time hang together) and operate toward a common purpose.

Process:

flow or sequence of activities (steps) operate toward a common purpose. Change in step in a process does not necessarily change other steps.

