

# Innovations in Healthcare: Vision India

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# Introduction

# Improvisation and Jugaad

**Improvisation** : Process of devising a solution to a requirement by making-do, despite absence of resources that might be expected to produce a solution.

**Jugaad** a colloquial Hindi-Urdu word that can mean an innovative fix or a simple work-around, used for solutions that bend rules, or a resource that can be used as such, or a person who can solve a complicated issue

# Innovation and Invention

**Innovation:** The process of translating an idea into a good or service that create value for which customer will be ready to pay and replicate at economic cost

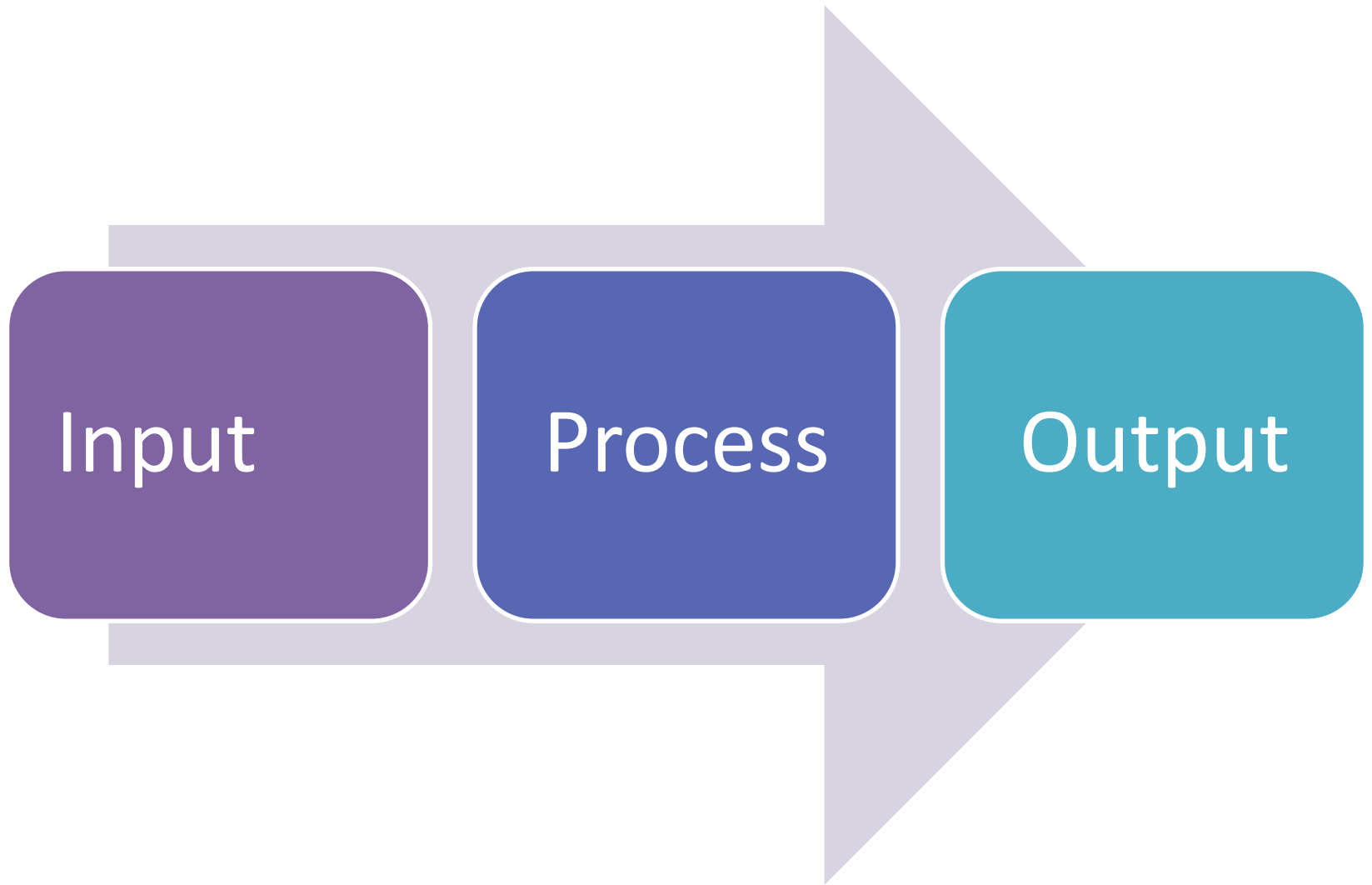
**Invention:** New scientific or technical idea, and the means of its embodiment or accomplishment. To be patentable, an invention must be novel, have utility, and be non-obvious. To be called an invention, an idea only needs to be proven as workable.

# Types of Innovation

- Frugal Innovation
- Reverse Innovation
- Disruptive Innovation
- Indovation
- Innovation Excellence

# Innovation, Lean & Evidence based Care

- Innovation & Indovation
- Lean, Kano Model, Clinical pathways & Evidence based care
- Cost optimization and Sustainability



# Hospital Nursing Network

## HOSPITAL NURSING NETWORK DIAGRAM

**Nursing practice**

1. Patient care activities included:
  - a. Providing care as required to the patient and the system.
  - b. Preventing care or treatment to the patient's condition and nursing needs.
  - c. Maintaining the standard control in which the nurse performs the patient's care.
  - d. Participating in or relating with a rapid-response team, such as Code Blue, Code Red or other codes.
  - e. Responding to the patient's condition.
  - f. Conducting intervention activities such as intravenous set changes and urinary catheter protection.
  - g. Preparing the patient for hospital admissions or discharge, including the patient with activities of daily living.
  - h. Monitoring patient's vital signs off unit.
  - i. Assisting patient with medical intervention while off unit.
2. Care Coordination:
  - a. Care coordination.
  - b. Counting medication.
  - c. Training staff on safety between departments.
  - d. Reporting on safety between departments.
  - e. Rehearsals or updating a status board.
3. Medication:
  - a. Documentation
  - b. Transcription of Doctor's
  - c. Examples of Prescribed Medication & Drug Patient
  - d. Administering Drug to Patient
  - e. Documentation
  - f. Transcription of Doctor's
  - g. Writing care plan
  - h. Medication paperwork
  - i. Teaching
  - j. Discharge paperwork
  - k. Other

**10. Support Services**

**MAINTENANCE**

FLOOR: \_\_\_\_\_ REQUEST CODE: \_\_\_\_\_

CALL ME: \_\_\_\_\_ SERVICE REQUIRED: \_\_\_\_\_

- Housekeeping Service
- Electrical
- Air Conditioning
- Plumbing Maintenance
- Medical Equipment
- General Items

**09. Nutrition Care**

**THE MODULE**

Patient ID: \_\_\_\_\_

TYPE OF DIET: \_\_\_\_\_

PRESCRIPTION: \_\_\_\_\_

ALLERGENS: \_\_\_\_\_

**04. Diagnostic Tests Order**

**INVESTIGATION ORDER**

Patient ID: \_\_\_\_\_

TEST CODE: \_\_\_\_\_

TEST NAME: \_\_\_\_\_

TEST TIME: \_\_\_\_\_

**07. Medication Usage**

**MEDICATION MODULE**

Patient ID: \_\_\_\_\_

NAME CODE: \_\_\_\_\_

ORIGINATION: \_\_\_\_\_

**07. Medication Usage**

**RECEIVED MEDICATION**

Patient ID: \_\_\_\_\_

NAME CODE: \_\_\_\_\_

ORIGINATION: \_\_\_\_\_

**07. Medication Usage**

**ADMINISTRATIVE MEDICATION**

Patient ID: \_\_\_\_\_

NAME CODE: \_\_\_\_\_

ORIGINATION: \_\_\_\_\_

**10. Patient Education**

**MEALS**

- ORIENT PATIENT TO FACILITIES & SERVICES IN THE BED / ROOM
- OPERATION OF UTENSILS
- FACILITIES IN TOILET
- OPERATION OF NURSE'S CALL
- BASIC TREATMENT PROTOCOL

**17. Infection Control**

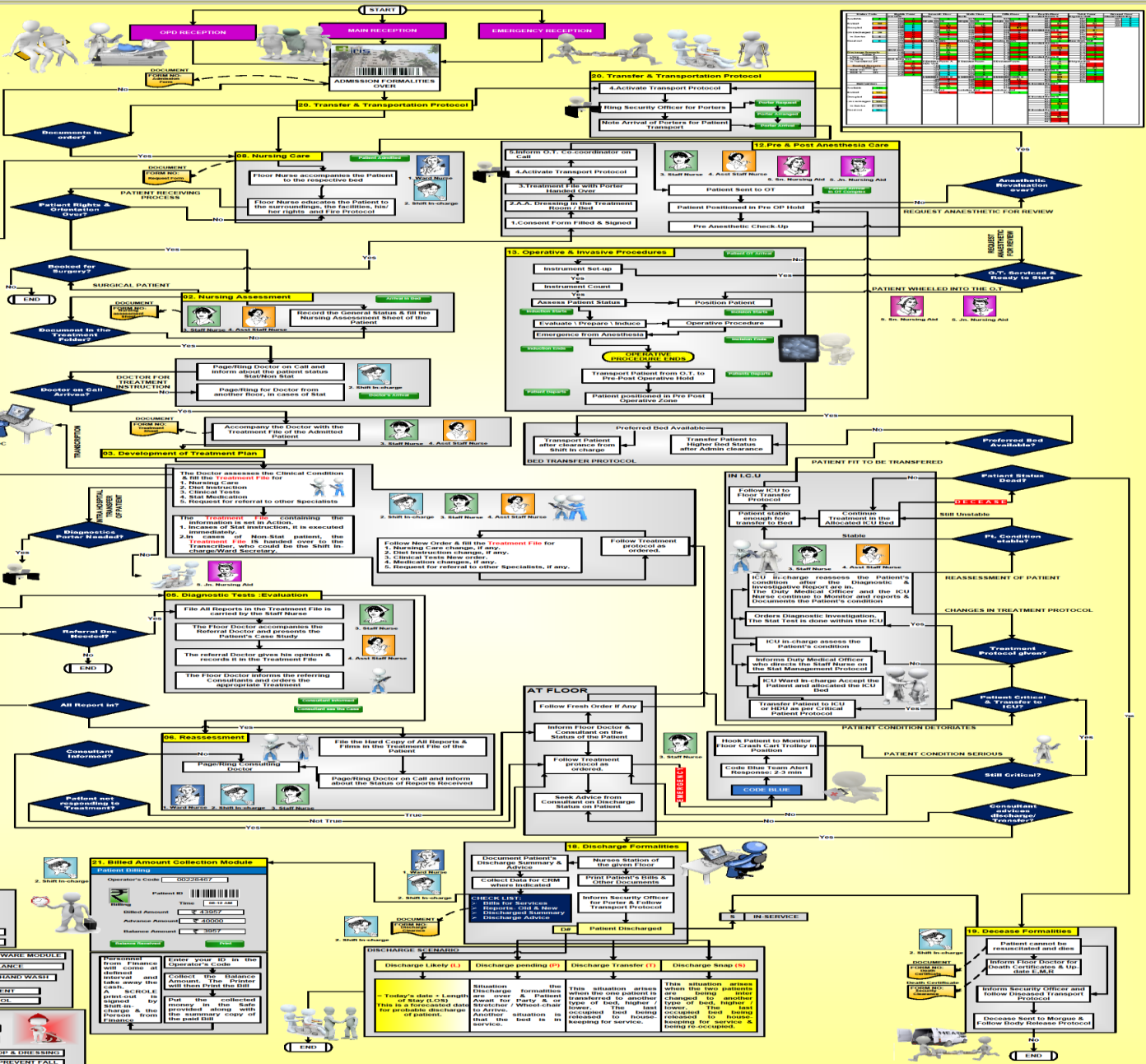
**INFECTION SURVEILLANCE SOFTWARE MODULE**

- INFECTION SURVEILLANCE
- PROTOCOLS FOR SCOURING & HAND WASH
- MAINTENANCE OF EQUIPMENT
- HOUSE-KEEPING PROTOCOL

**16. Patient Safety**

**CLINICAL & NON CLINICAL SAFETY FEATURE OF THE HOSPITAL**

- FIXE THE VENTILATOR
- EVAUATION DEWAR
- HAND WASHING
- TREATMENT ROOM (PRE OP & DRESSING)
- GRAB BAR IN TOILET TO PREVENT FALL



**INTS HOSPITAL**

Room No.	101	102	103	104	105	106	107	108	109	110
Room No.	101	102	103	104	105	106	107	108	109	110
Room No.	101	102	103	104	105	106	107	108	109	110
Room No.	101	102	103	104	105	106	107	108	109	110
Room No.	101	102	103	104	105	106	107	108	109	110



# Components of Healthcare Delivery

- Diagnostics
- Devices
- Pharma
- Processes
- Hospital Planning & Design
- Information

Apply Innovation and Technology to optimize cost of healthcare delivery

# Initiatives in Indian Healthcare

## Government

- National Innovation Council
- National Innovations Fund
- National Health System Resource Centre
- IITs, IIMs

## Private

- Private Institutions
- Various Academic Universities
- Financial Institutions

# The Internet age provides....

“Just about anyone can have an idea at breakfast, design it with online CAD software, produce a prototype on a 3D printer, receive financing and market analysis from a crowd funding site, rent supercomputer time from Amazon, contract a manufacturer and be done by lunch without even leaving the table”.

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# Where Do We Want to Go?

## Our future state vision

Care that is:

- Safe
- Effective
- Patient-Centered
- Timely
- Efficient
- Economic



Alexander Blass, CEO of Innovation Institute of America, Inc. and  
winner of Top Innovator of the Year award

*“It is no secret that many of the world’s top innovators come from India. Within the past few decades, India has embarked upon an incredible transformation from an agrarian-based society to a knowledge-based economy. Along with the population growth came survival instincts and the need to be different, better and unique. One can see innovation everywhere in India, whether in large game changing innovations that garner lots of publicity, or in less obvious yet important incremental fashions”*

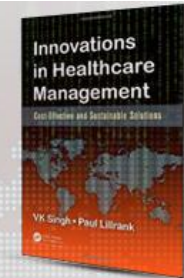
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Check out my first book on Innovations in Healthcare Management

## INNOVATIONS IN HEALTHCARE MANAGEMENT

Is a book edited by **Dr. V.K. Singh** where various international experts have contributed chapters.



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