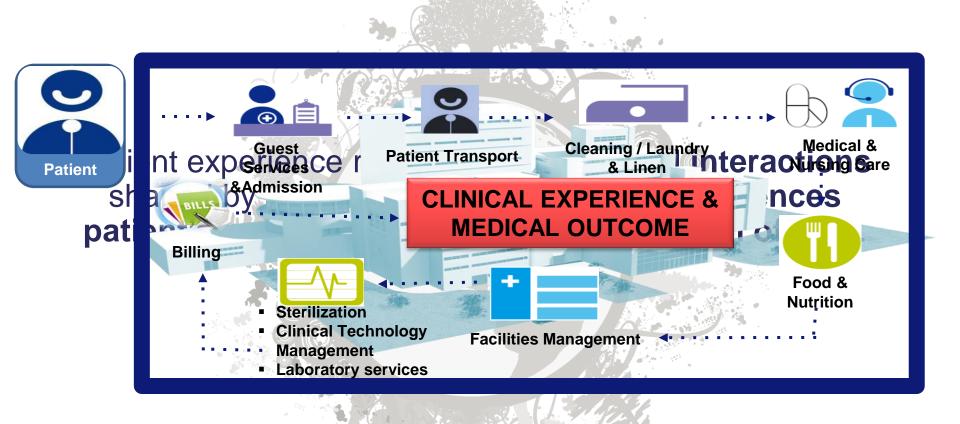


FOOD SAFETY: From Farm To The Fork

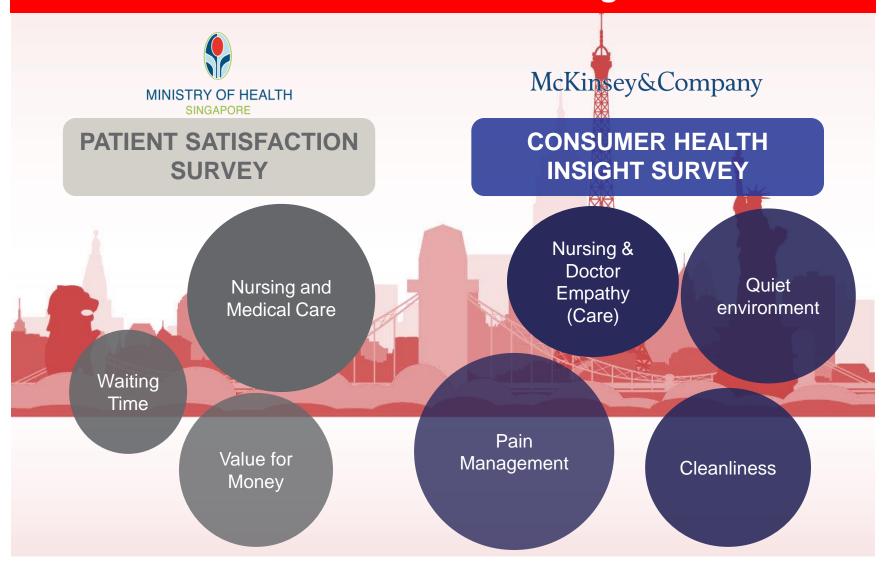
SingHealth Congress 2016

18 August 2016

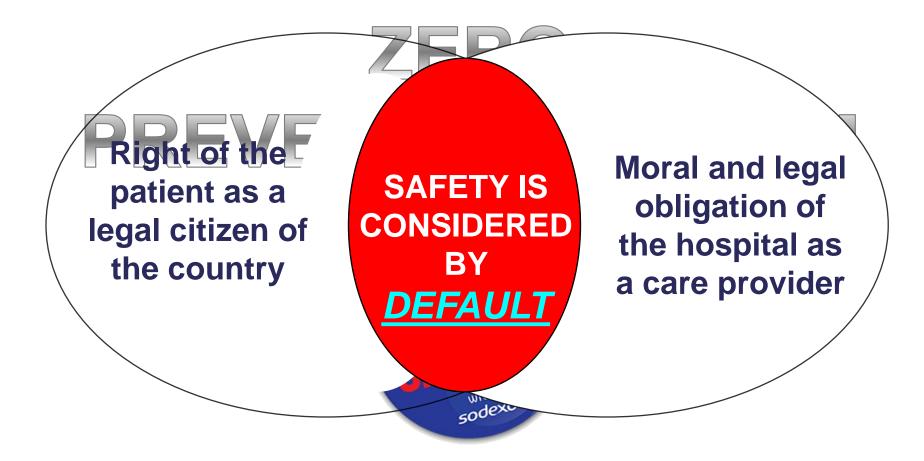
PATIENT- The Core of Hospital Care



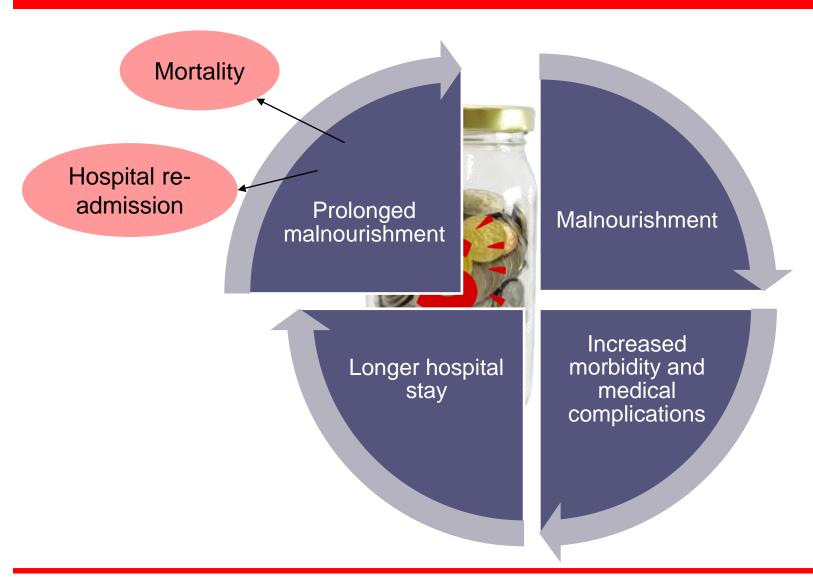
PATIENTS EXPECTATIONS- A Growing Scenario



PATIENTS EXPECTATIONS- A Growing Scenario



HOW IMPORTANT IS FOOD IN A HOSPITAL?- A Reality



HOSPITAL FOOD- What Do Patients Think?

Comfort food exists but comfort medicines do not!!!

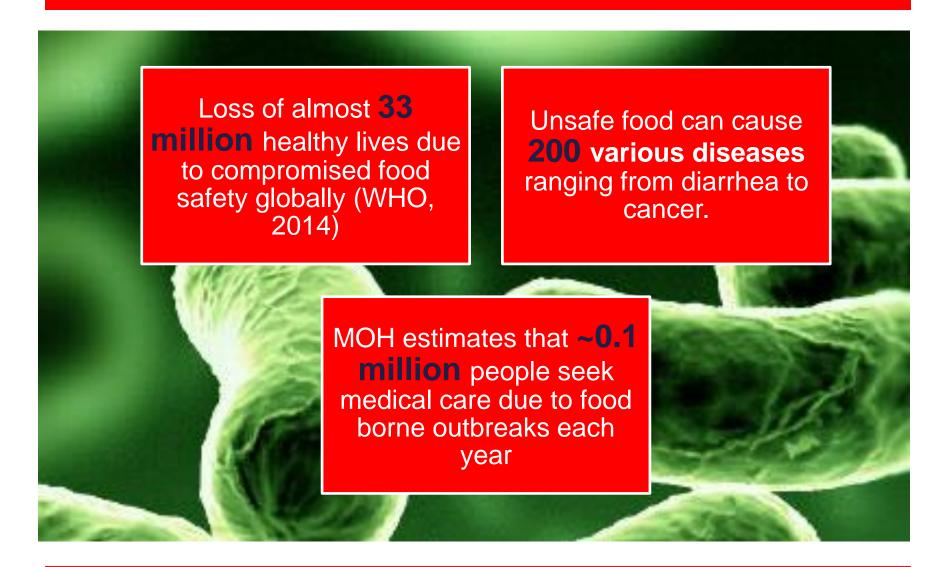
- Familiarization with the food
- Emotional state of the patient
- Growing expectations parallel to the medical care

THREE aspects of food that patients look for:

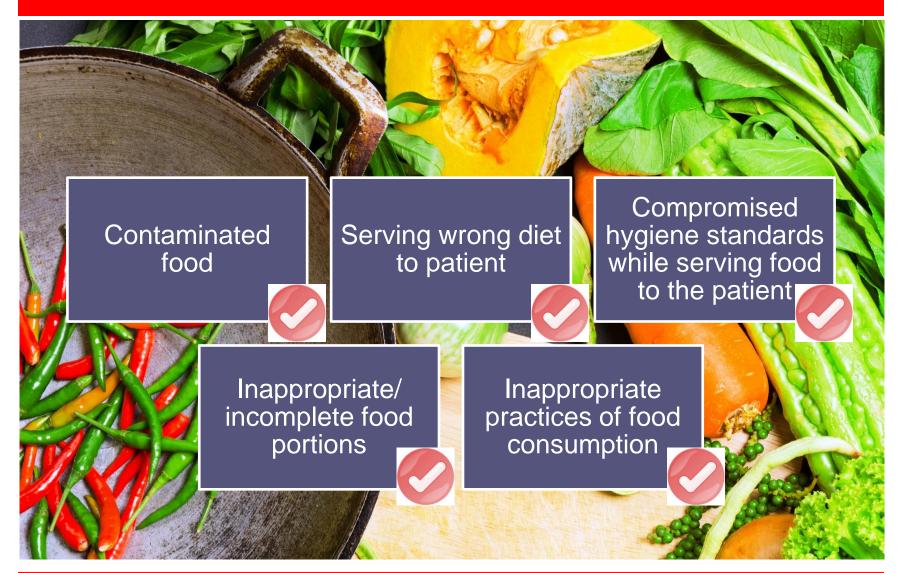
- Temperature
- Appearance
- Taste



FACTS AND FIGURES



WHAT JEOPARDISES FOOD SAFETY IN A HOSPITAL?



FOOD SAFETY VS MEDICAL SAFETY- A Thought to Ponder

"As to diseases, make a habit of two things — to help, or at least, to do no harm" -Hippocrates



FOOD SAFETY- What is it?

It is a scientific disciplinary approach that ensures handling, preparation, storage and serving of the food is in a way that **PREVENTS FOOD BORNE ILLNESSES**.

It is a process that ensures safe food is delivered AT ALL TIMES



CONTINUOUS QUALITY IMPROVEMENT- An Imperative Approach

Risk Management Quality
Sustainability &
Improvement







RISK MANAGEMENT



RISK MANAGEMENT STEP 1

Identify the HOSPITAL CLASS

Class 1

Provides packed food, packed drink and whole fruits

Class 2

Provides unpacked food to patients/ staff or public

Class 3

Prepares and provides food to six or more in-patients, day care patients, palliative care patients, children, aged care and conducts on-site or off-site catering

In Singapore, the hospital food service could be a mix of above three classes but mostly falls in the category of Class 3

- Food services has evolved into a full-fledged department with sub departments each managing their own processes
- Decentralized yet aligned with required standards
- Either run in-house or outsourced
- Serve cook-fresh (mostly)
- Well-developed food service team on-site

Risk Management Quality
Improvement
&
Sustainability



RISK MANAGEMENT STEP 2



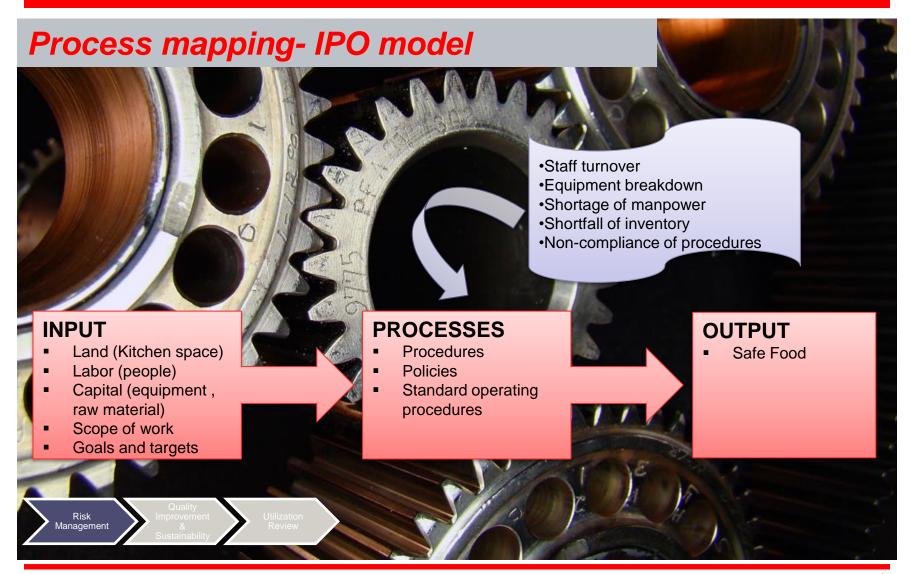
Develop a FOOD SAFETY PROGRAM which should:

- be compliant with food standards and approved procedures/guidelines in implementing food safety requirements
- develop, maintain and review the food safety program
- provide for adequate design, construction (if applicable) and maintenance of food service facilities/ equipment
- arrange for audits of the accredited food safety program in accordance with the set standards
- provide staff training
- investigate complaints and take action to remedy non-compliances





RISK MANAGEMENT STEP 3



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

Holding & Belting

Preparation

Purchasing

DURING SERVICE

> Meal Consumption

Meal Service

Meal Ordering

Menu Planning



Risk Management Quality
Improvement
&

FIRST STOP GATE- Supply Chain Management



Technology-driven Processes & Systems

- Detailed & efficient
- Consistent & configurable



- Vendor Management
- Regular audits
- Professional (ISO 9001/22k) and Ethical standards
- AVA guidelines mandatory



Business Continuity is Crucial

 Alternate suppliers for same supplies

Site level – a dedicated personnel managing purchasing

- Fully trained to order from a well- managed and controlled system
- Conduct critical checks of goods upon reception
- Must be HSE trained
- Well-versed with processes such as product recall and product return

Risk Management Quality
Improvement
&
Sustainability



FIRST STOP GATE- Supply Chain Management

POTENTIAL HAZARDS TO LOOK FOR UPON RECEIVING GOODS

Biological

Chemical

Physical

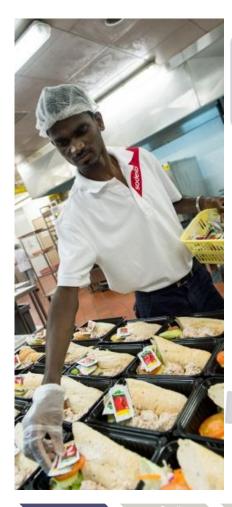
RISK MITIGATION



Risk Management Quality
Improvement
&
Sustainability



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

Menu Planning



Purchasing

Holding & Belting

Preparation

Risk Management Quality
Improvement
&
Sustainability



SECOND STOP GATE- Meal Preparation



After Food is purchased, the next stop on the journey is *MEAL PREPARATION*.

During meal preparation, there are 6 CRITICAL CONTROL POINTS where food safety may be compromised, leading to unsafe food.

Risk | Quality | Improvement | Utilization | Review | Sustainability |

SECOND STOP GATE- Meal Preparation



Risk Management Quality Improvement & Sustainability



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

Menu Planning



Preparation

Holding & Belting

Purchasing

Risk Management Quality
Improvement
&
Sustainability

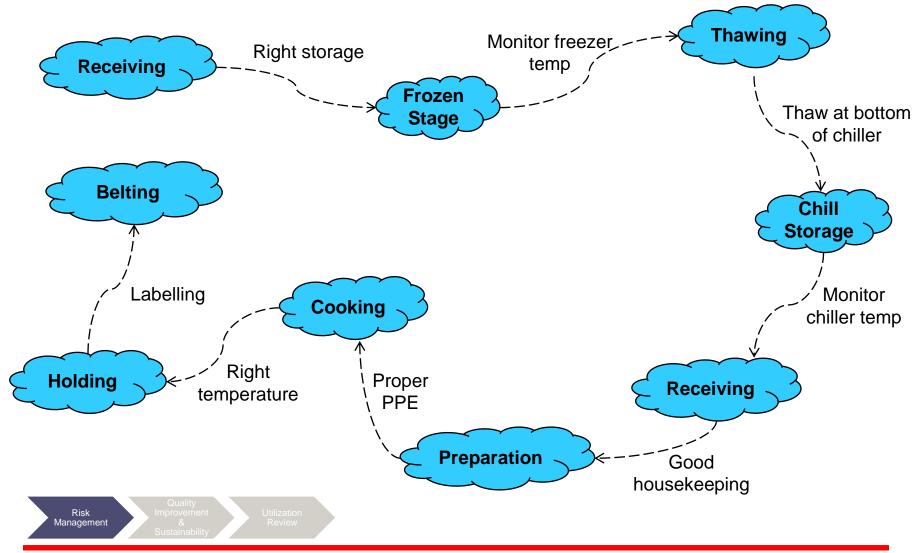


THIRD STOP GATE- Holding and Belting



Risk Management Quality
Improvement
&
Sustainability

RISK MITIGATION PLAN IN THE KITCHEN



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

Menu Planning

Holding & Belting

Preparation

Purchasing

Risk Management Quality
Improvement &
Sustainability



FOURTH STOP GATE- Menu Planning





| BREAKFAST |

LUNCH

I DINNER

Hospital menu planning is a FIRST STEP TO SAFE START a food service program HEALTHY

- Menu to match with the hospital/ patient requirements
- Resource provision
- Facility to be able to produce meals
- Staff to be able to produce meals
- Follow hospital protocols
- Portion sizes
- Recipe analysis (if necessary)

Risk Managemen Quality
Improvement
&
Sustainability

Utilization Review



MIND in a



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

Holding & Belting

Preparation

Purchasing

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

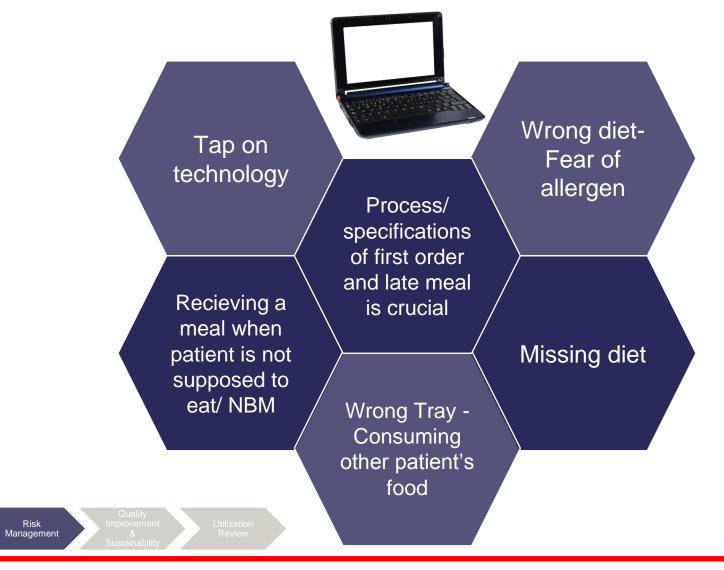
Menu Planning



Risk Management Quality
Improvement
&
Sustainability



FIFTH STOP GATE- Meal ordering



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

Menu Planning



Preparation

Holding & Belting

Purchasing

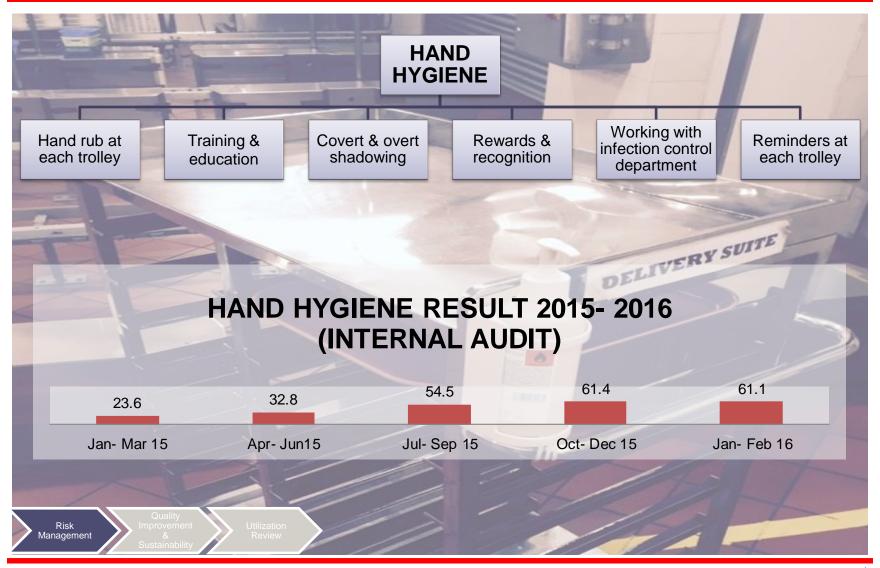
Risk Management Quality
Improvement
&
Sustainability



SIXTH STOP GATE- Meal Service



HAND HYGIENE



RISK MANAGEMENT- Different Stop Gates



IN THE KITCHEN

Holding & Belting

Preparation

Purchasing

AT SERVICE

> Meal Consumption

Meal Service

Meal Ordering

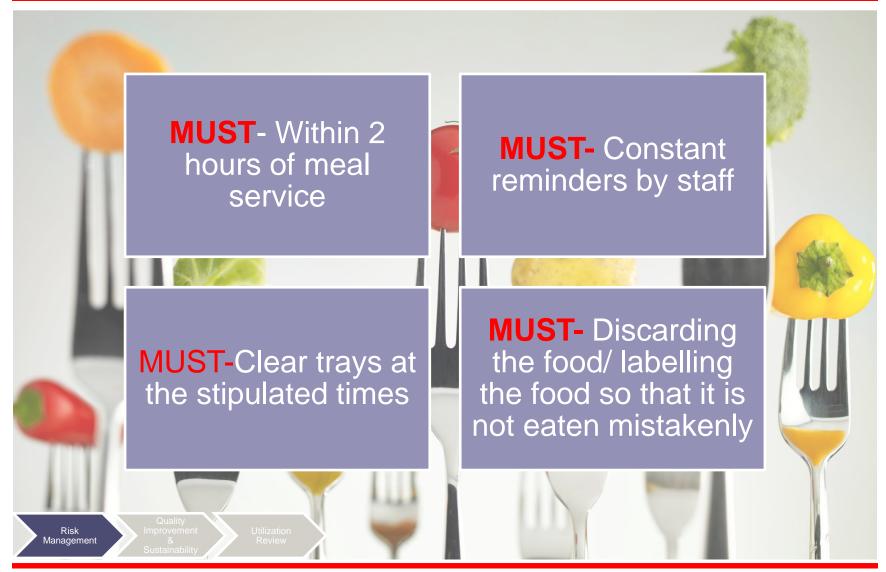
Menu Planning



Risk Management Quality
Improvement
&
Sustainability



SEVENTH STOP GATE- Meal Consumption



CONTINUOUS QUALITY IMPROVEMENT- An Imperative Approach

3 COMPONENTS

Risk Management Quality Improvement & Sustainability









QUALITY IMPROVEMENT AND SUSTAINABILITY- Overall Governance



Risk Managemen Quality
Improvement
&
Sustainability

QUALITY IMPROVEMENT AND SUSTAINABILITY- Food Safety Policy

Food Safety Policy

- Risk minimizations for all food services operations
- Continuous information, training and supervision
- Effective procedures for food-related incidents and emergencies

Quality Assurance Measures

 Detailed checklists and schedule for each process, e.g. chiller temperature checklist, personal hygiene checklist, cleaning schedule, etc.



Risk Management Quality Improvement & Utilization Review Sustainability





SODE XO

Sustainability

QUALITY IMPROVEMENT AND SUSTAINABILITY- Training & Competence







Risk Managemen Quality
Improvement
&
Sustainability





Risk Managemen Quality
Improvement
&
Sustainability

QUALITY IMPROVEMENT AND SUSTAINABILITY- On-Site Team

Regular medical check-up

- Pre- medical check-up and for any staff with past history of TB or any such contagious disease, follow-up shall be more regular
- Yearly medical check-up is advised
- Staff is encouraged to share if anyone in the family is sick

Proper Personal Protective Equipment (PPE)

 All staff and visitors are required to wear PPE at all times during their work or visit to the kitchen

Risk | Quality | Improvement | Wilization | Review | Sustainability



Risk Managemen Quality
Improvement
&
Sustainability

QUALITY IMPROVEMENT AND SUSTAINABILITY- Audits

3 times per year

3 times per year

 Done by external auditing firm

- Equipment swab
- Hand swab
- Food swab (Cooked & Ready to-eat items)

Internal Audit



External Audit



Sampling Analysis





Risk Managemei Quality
Improvement
&
Sustainability







Sustainability

QUALITY IMPROVEMENT AND SUSTAINABILITY- Accreditations

International Standards









Local Standards







Quality
Improvement
&
Sustainability

CONTINUOUS QUALITY IMPROVEMENT- An Imperative Approach

3 COMPONENTS

Risk Management Quality
Improvement
&
Sustainability







UTILIZATION REVIEW

Prospective

- To determine the best approach/ method to manage/ control CCP
- Ensure that things will be safe and effective
- Streamline things that may not be necessary- Go Lean

Concurrent

- To ensure right processes are followed at all times and right result is delivered.
- The intent is to reduce errors in the ongoing system.

Retrospective

- It involves
 reviewing/
 evaluating and
 learning from
 potential issues and
 lapses
- Reviewing after the service has been delivered to see the impact and identify any gaps/ scope of improvement.

Risk Managemer Quality
Improvement
&
Sustainability



WHAT IF...

Minor non-compliance

- A low risk situation; overall food safety system is still effective in controlling food safety hazards
- → Can be managed with a verbal warning/ counseling

Major non-compliance

- One where the food safety is 'likely' to be violated and/ or may lead to the handling of unsafe or unsuitable food if no remedial action is taken
- → Can be managed by verbal warning and a written feedback with an action plan

Critical non-compliance

- A serious breach of safety regulation where the contravention poses an imminent risk to the safety of food intended for service
- → Followed by immediate verbal warning and a written compliant/ action of plan
- → The follow-up is immediate and within a short period of time.



EDUCATING THE PATIENT- A Missing Link?



Crucial to educate the patient about the safety measures to be followed:

- Timely consumption of food
- Keeping their area and surroundings clean from their personal belongings
- Keepings things like fruit basket, flowers away from the food/ eating area
- Allow clearance of meal tray
- Do not leave the food uncovered for long or while not around
- Try not to share food with other patients
- Be vigilant and know your allergies



INNOVATIONS AND SAFETY





