KAIZEN activities for improving health care and hospital management

2015

KAIZEN Training of Trainers

Objectives of the session

- After the session, the trainees will be able to:
 - Understand KAIZEN can be adopted to improvement quality of care in both of developing countries and developed countries
 - Understand KAIZEN can improve hospital management; financial management, stock management, information management etc.
 - Understand KAIZEN can improve health care service provision

Word of "KAIZEN" in the world

- "KAIZEN" is now known worldwide as continuous problem solving process to improve working environment, process and conditions
- KAIZEN are adopted not only to clinical setting but also several hospital management settings in health care facilities

Let's go and see "actual improvements in hospital management and health care services by KAIZEN

Virginia Mason Medical Center (U.S.A.)

- In 2002, the hospital adopted Toyota Production System philosophies and practices to health care; Virginia Mason Production System (VMPS):
 - Customer first
 - Highest quality
 - Obsession with safety
 - Highest staff satisfaction
 - A successful economic enterprise
- The hospital staff have been improving the quality of patient care with VMPS

Actual improvement in Virginia Mason Medical Center

"Eliminating wasted nurses' steps and increasing time to care patients"

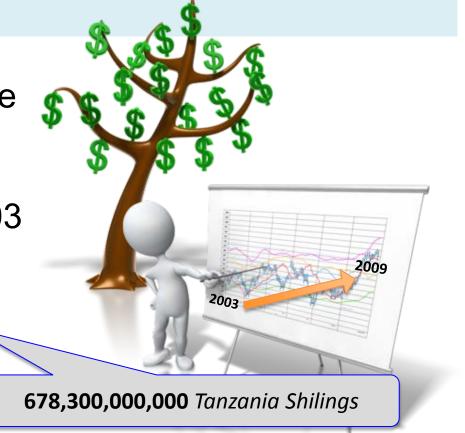
- Nurses were able to improve the flow of how they went about their day – eliminating wasted steps to get necessary medical equipment and supplies, and increasing time spent with patients
 - Steps walked per day fell from 10,000 from roughly 1,200
 - Time in direct patient care was increased to 90% of their time from 35%



Actual improvement in Virginia Mason Medical Center

"Faster revenue cycle"

- The finance department improved "Days Revenue Outstanding"
- Cash deposits improved from \$471 million in 2003 to \$794 million in 2009
- Increased the revenue
 \$323 million



Actual improvement in the hospitals in Pittsburgh (U.S.A)

Eliminate MRSA in the hospital

- TPS and KAIZEN done by the management level and service provision level cooperatively to reduce error in patient care, including the incidents of HAI
- Dropped in MRSA infection rate by approximately 70% after TPS, KAIZEN in many areas



A Quest to Eliminate MRSA at the Veterans Health Administration's Hospitals in Pittsburgh: http://www.lean.org/FuseTalk/Forum/Attachments/Positive%20Deviance%20Pittsburgh%2 OVA%20MRSA%200709041.pdf

Mitchell's Community Health Center (Cape Town)

"Implementing a structured triage system at a community health center"

 More than 100 un-booked patient presenting daily at the health center, most of them were requesting reissuing of his/her prescription

• By KAIZEN,

 all patients are assessed properly according to the standardized protocol

 a number of patients requiring reissuing of the prescription was decreased by 50%

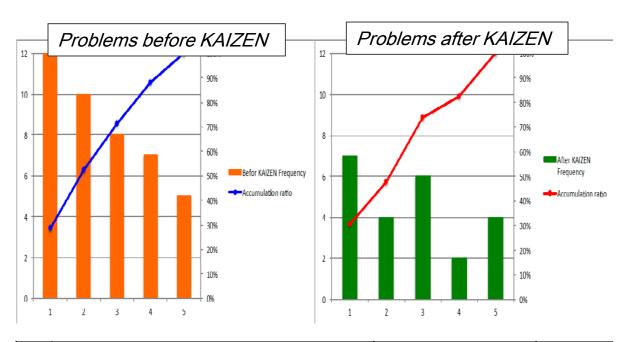


Mbeya Zonal Referral Hospital (Tanzania)

- In 2007, 5S-KAIZEN-TQM Approach was introduced to the hospital
- The hospital has been orienting hospital staff including students and new employees on 5S-KAIZEN continuously
- Almost all areas in the hospital are practicing
 5S
- High performing areas in 5S are practicing KAIZEN
- The hospital is improving own hospital/health care services by 5S and KAIZEN

Actual improvement by KAIZEN in MZRH (1)

"Reducing patient waiting time for the consultation at OPD"



•	The frequency of the
	several problems was
	reduced from 42 to 24
	(42.9% reduction)

 The patients' waiting time for the consultation was improved from 45 minutes to 15 minutes

#		Contributing factors	Frequency		Reduction
	#	Contitioning factors	Before	After	rate (%)
	1	Delay in starting consultation	12	8	33.3
	2	Long break during consultation	10	4	60.0
	3	Interruption by emergency cases	8	6	25.0
	4	Bypass of staff	7	2	71.4
	5	Long contact time	5	4	20.0
	TOTAL		4 2	24	42.9



The KAIZEN was done by hospital staff at OPD in MZRH.

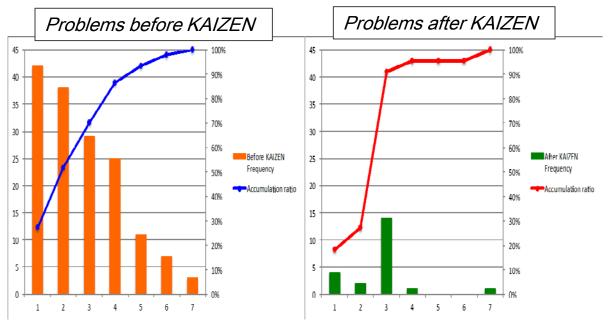
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Standardized instruction for daily staff allocation and monitoring book; Easy to allocate the staff

Actual improvement by KAIZEN in MZRH (2)

"Improving waste management in the hospital"

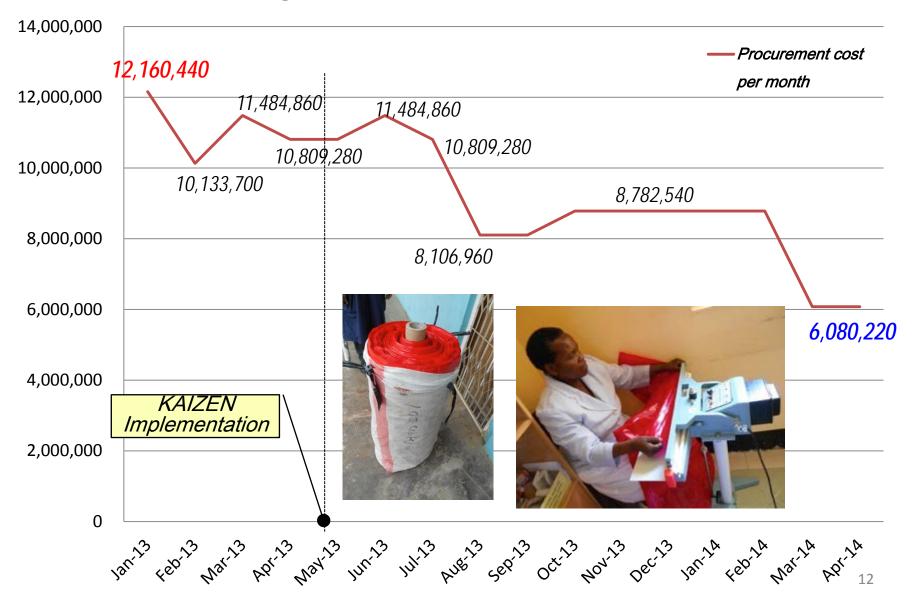


#	Contributing factors	Frequency		Reduction
		Before	After	rate (%)
1	Case of bin liners in a wrong containers	42	4	90.5
2	Case of one type of bin liner missing (out of stock) at the point of waste collection	38	2	94.7
3	Case of mixing up of waste at point of collection (i.e. an item gets into wrong containers)	29	14	51.7
4	Case of waste container without a bin liner	25	1	96.0
5	Case of unauthorized waste containers/bin liners found at disposal point (incinerator)	11	0	100
6	Case of container found in a wrong area (areas which where does not generate waste that match with container)	7	0	100
7	Case of mixing waste bags at the waste storage area	3	1	66.7
TOTAL		155	22	85.8

- The frequency of the improper waste management was reduced from 155 to 22. (85.8% reduction)
- The cost for procuring waste bin liners were also reduced (next slides)

The KAIZEN was done by IPC team in MZRH.

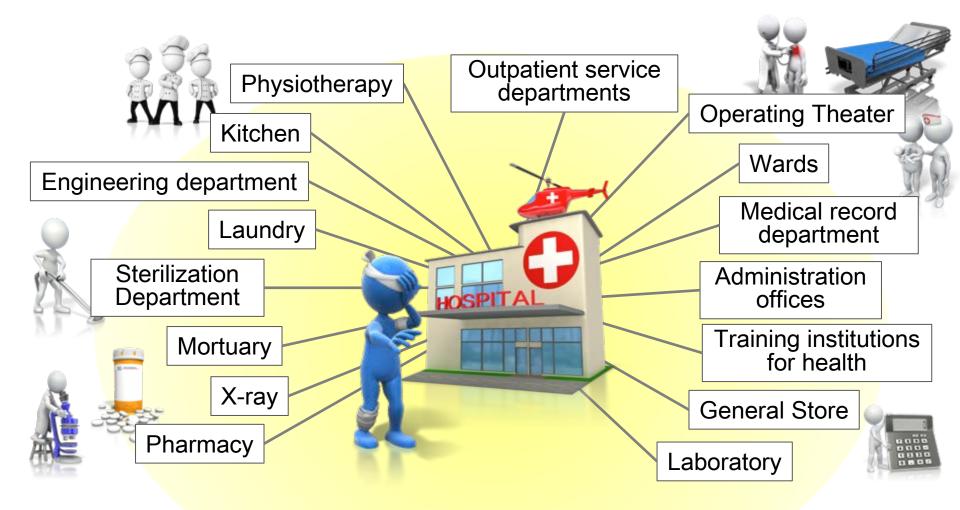
Transition of costs for procuring waste bin liners in MZRH



Conclusion of the session

- KAIZEN can improve and enhance several aspects of hospital management and health care services:
 - Hospital administrative management
 - Clinical administrative management
 - Quality of care
 - Infection Prevention Control
 - Patient and staff safety etc.

Cont.



Therefore, **KAIZEN** must be adopted to every work procedure in everywhere in RRHs

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Conclusion (2)

 Possible to reduce costs/expenditure by KAIZEN; eliminating "waste" in working environment and working process



Thank you very much for listening