

SGC-PS is applicable to all types of business.

Quality is "most critical" at any type of manufacturing. —It is the "people" that maintain quality. "Human development" is therefore the foundation for everything.

Our initial Kaizen engagement in the health care industry dates back to the year of 2002 when we started "Gemba Kaizen Seminar" for Virginia Mason Medical Center in Seattle, Washington, USA. In the "production shop floor" in the medical field, which is quite different from manufacturing plants we have been working with, we utilized our own SGC Production System (SGC-PS) to demonstrate how improvements are made. We believe that SGC-PS can be applied to any industry as a comprehensive management methodology which addresses quality, safety and operational aspects. We have extended SGC-PS to Canadian hospitals in addition to US hospitals that support the concept of SGC-PS.

<u>"Gemba Kaizen" begins with "human development"</u> <u>of those who work there.</u>

We leverage the Know-How we cultivated from "manufacturing" for "human development" and the more human resources you develop, the more progress you can make.



Quality Improvement (No defect)

Improvement of Patient Satisfaction

Improvement in Medical Service Capacity

Lead Time Reduction for Patients

Inventory Reduction

Analysis of Target Process ①



2) Show the flow in a process at a glance

Take detailed pictures and show them in the process at a glance

| Date: | | | Takt time: | | | | | |
|-----------------------------------|---|---|------------|---|---|--|---|--|
| Care Process: Process at a Glance | | | | | | | | |
| Process Sequence | 1 | 2 | 3 | 4 | 5 | | | |
| Equipment Flow | | | | | | | | |
| Process Step | | | | | | | | |
| Location | | | | | | | 1 | |
| Staff | | | | | | | | |
| Quality Check | | | | | | | | |
| Cycle Time | | | | | | | | |
| Tools | | | | | | | | |
| | | | | | | | | |
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| | | DRACE | CC IT | 1 5 1 | | | |
| | | PROCE | DS AI | AGL | ANCE : | Building | C" Equ |
| | Process Sequence | | 2 | 3 | 4 | 5 | 6 |
| | Equipment Flow | | | | | 00 | |
| | PROCESS Step | Picks up Copy of next day Surgery | High lights on the preference card the caupment needed | Burdes on Schedule the caupmond needed for each case from Preference | Returns Preference Cord to Case Cart | Locates equipment in building "L" for next | wates to building the |
| | Location | C BC" Susaical | С | C | С | C | A A |
| | Statt | Assistant | | | | - | |
| | Quality Check | Self | | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
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Analysis of Target Process (2)



Preliminary investigation using Takt time

It is important to investigate by setting up Takt time.

- 1. Use Takt time and Cycle time, for the deployment of doctors, nurses, and technicians, and for the improvement of their processing capacities.
- 2. As for setting up an examination equipment and a consultation room, check the lead time for the examination equipment and the consultation room, and establish the required number in connection with Takt time.



Kaizen Case Study : Creating Flow of Patients





Kaizen Effect: Improvement of Examination capacity. Reduction of patient's waiting time.

Kaizen Study Case : Inventory Reduction





Kaizen Study Case : Inventory Reduction



Strategy · Method : Kanban



After the Kaizen (Rapid Process Improvement Workshop/ RPIW)



• Supply a day's worth of drugs to the treatment room.

 Reduce unnecessary inventory by supplying from the store only the "Kanban" items which had been used the next day.

Kaizen Effect: Quality improvement, inventory reduction, space reduction, and elimination of shortage by First-In First-Out(FIFO).

Kaizen Case Study : Lead Time Reduction for Patients



Strategy · Method : Kitting

Before Kaizen (Current State)



This is a problem !

They are not organized so the treatment takes time. Conventional payment for consultation fees kept the patient waiting too long.

Kaizen Case Study : Lead Time Reduction for Patients

Strategy · Method : Kitting



Terminal cart for payment of examination fees





Kit cart for treatment

Kaizen Effect:

Reduction of Cycle time.

After the Kaizen (Rapid Process Improvement Workshop/ RPIW)

Solution !



A portable terminal can take care of payment and does

not keep the patient waiting.

Reduction of walking distance by staff.

Reduction of patient's waiting time.

Improvement of patient satisfaction.





Healthcare : Kanban Operations



Constructing the Pull System with Kanban Operations



Pre Kaizen

Post Kaizen



③Fixed Quantity (Determine the Quantity) -2 Bin System— Usage × Lead Time + Safety Item ← Kanban Info. • 1 Item ⇒ 2 Boxes(2 Bins) • Low Cost Items • Small Items

Inventory reduction
Reduction of defects due to expiration
Application of FIFO
Simplification of inventory restocking work

If you would like more information please contact us.