The Global Language of Business

Benefits of GS1 standards

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Ensured traceability of products to patients</td>
<td>Waste reduction &amp; increased accuracy of ordering processes</td>
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<tr>
<td>Improved inventory visibility and stock control</td>
<td>Efficient, accurate and targeted recalls</td>
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<tr>
<td>More time spend with patients</td>
<td>Reduction of medication error</td>
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Steps to implementation

1. **Empathize**
   - **What**
     - What are the hospital’s needs? What problems do you face?
   - **How**
     - Establish an expert group. Share success stories.

2. **Define**
   - **What**
     - Define the problem you want to solve. What are other solutions you have considered?
   - **How**
     - Def ine where and how you want to implement track & trace.

3. **Ideate**
   - **What**
     - What are some solutions? Share your ideas with others.
   - **How**
     - Provide tools and online materials. Advise enrolment management team.

4. **Prototype Test**
   - **What**
     - Launch a pilot study to test a part or your solution. Start small, for instance with just one specialist or process. Collect feedback.
   - **How**
     - Ensure results are shared with hospital management. Test KPIS to monitor.

5. **Implement**
   - **What**
     - “Put it in production”, make it work. Measure and evaluate.
   - **How**
     - Provide a helpdesk service. Prepare carefully, the next phase.

What are the stakeholders and their needs in the healthcare supply chain?

Some of the external stakeholders deliver products to a hospital, some others deliver services. These are needed to enable and ensure quality of care.

Administrative procedures like procurement are facilitated by GS1 standards. Stakeholders may also be next to the hospital in the continuum of care for the patient after discharge.

Regulation supports the right barcoding of products, so all products entering the hospital can be processed in a safe and efficient way. This facilitates an optimal supply chain and allows for full traceability.

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- "As a Central Sterilization Department manager, I need registration of all available and used medical devices and a full overview of procedure events and of scheduled surgeries."
- "As a Board member, I would like an overview of impact in case of need, up to date records of costs and revenues, quality compliance and benchmarks and results of satisfaction surveys."
- "As a Procurement manager, I want to know if all needed devices and medication are registered, located, in stock (or order) and ready for use. And I want to manage my supplies."
- "As a Facility manager, I need up-to-date records of planning, waiting lists, capacity, in-stock compliance of patients, medication and medical devices. I want to know if patients are satisfied with our care."
- "As an IT manager, I want interoperability of systems to identify persons, places, available and used products and I need safe records and I want to manage my solution providers."
- "As a Patient, I would like information concerning my disease, my doctor, treatment and costs."
- "As a Nurse, I want to check patient ID, up to date patient records, medication, treatments and planning, available medical devices and medication."
- "As a Medical Doctor, I want to check patient ID, up to date patient records, diagnostic test results, treatments and planning, available medical devices and medication."
- "As a Pharmacist, I need up-to-date records of inventory and stock levels, costs and (re-)orders."
- "As a Pharmacy manager, I need registration of all products entering the hospital can be processed in a safe and efficient way. This facilitates an optimal supply chain and allows for full traceability."
- "As a Warehouse manager, I would like up-to-date records of inventory and stock levels, costs and (re-)orders."

For more information, visit the GS1 Healthcare website: [https://www.gs1.org/en/collections/healthcare](https://www.gs1.org/en/collections/healthcare)
### Patient Journey - Breast Implant Recall

**Situation**

Patient has original surgery. Health inspection receives information and decides to recall all products.

<table>
<thead>
<tr>
<th>Future solutions</th>
<th>Detailed view</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>•</strong> Patient ID and Staff ID</td>
<td><strong>•</strong> GTIN-data will facilitate relevant parties to inform authorities on recall</td>
</tr>
<tr>
<td><strong>•</strong> Staff ID</td>
<td><strong>•</strong> Medical doctor decides that implant has to be removed.</td>
</tr>
<tr>
<td><strong>•</strong> (Procedure ID)</td>
<td><strong>•</strong> Surgery is planned via GP planning. Patient receives date and time of surgery.</td>
</tr>
<tr>
<td><strong>•</strong> Product ID (GTIN)</td>
<td><strong>•</strong> staff ID</td>
</tr>
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</table>

**Consult with GP**

Patient visits medical doctor. Medical doctor decides that implant has to be removed.

**Consult and diagnosis**

Surgery is planned via GP planning. Patient receives date and time of surgery.

**Surgery planned**

Patient arrives at the hospital. Patient is given a wristband with patient ID. The nurse helps the patient to get prepared for surgery.

**Hospitalization**

Patient has surgery. Patient returns home. Patient is given medication/prescription for use at home.

**Discharge from hospital**

Patient visits hospital for check-up.

**Aftercare**

Recall from health inspection

### Patient Journey - Surgical treatment

**Situation**

Patient experiences the first complaints. Patient pays visit to the GP when complaints increase.

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<tr>
<td><strong>•</strong> Patient ID and Staff ID</td>
<td><strong>•</strong> In some countries: a national ID for gathering and usage of patient’s information (e.g. surgery, visitation, medication, allergies, implants (MRI), HMI)</td>
</tr>
<tr>
<td><strong>•</strong> Staff ID and Procedure ID</td>
<td><strong>•</strong> Wristband with patient ID</td>
</tr>
<tr>
<td><strong>•</strong> Procedure ID</td>
<td><strong>•</strong> ID communication</td>
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**Consult with GP**

Patient pays visit to the GP when complaints increase.

**Consult and diagnosis**

Patient is diagnosed by medical doctor. The patient prepares for the surgery.

**Surgery**

Patient has surgery. Patient is discharged from hospital. Patient recovers from surgery. Patient visits hospital for check-up.

**Diagnosis in hospital**

Patient is discharged from hospital. Patient returns home. Patient is given medication/prescription for use at home.

**Recovery**

Patient visits hospital for check-up.

**Aftercare**

Recall from health inspection

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**Acronym Decoder**

- **EDI** Electronic Data Interchange
- **GDSN** Global Data Synchronisation Network
- **GDTI** Global Document Type Identifier
- **GLN** Global Location Number
- **GP** General Practitioner
- **GSRN** Global Service Relationship Number
- **GTIN** Global Trade Item Number
- **OR** Operation Room

**Design by pante**

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