

Sysmex Supporting Testing

Sysmex contributes to healthy lives through its activities in the field of testing. In this section, the guide and little Mamoru act walk you through the Group's activities.



What is a laboratory like?

Mamoru What sort of room is this? There are lots of big machines and bunches of test tubes.

Guide This is a hospital laboratory. Laboratories are places where people study blood and urine samples to diagnose and treat diseases.

Mamoru Who is that person who is looking into the microscope? Is she a doctor?

Guide She is a clinical laboratory technologist ("lab technologist"). She is a person who performs lots of tests in a laboratory. Lab technologists are responsible for communicating to doctors accurate test results and information that can help in making

diagnoses in a timely manner. This helps doctors diagnose their patients accurately.

Mamoru I see. So lab technologists' work is important for helping doctors make diagnoses.



What is the relationship between laboratories and Sysmex?

Mamoru Look, somebody came. Who is that?

Guide That is a salesperson from Sysmex. **Sysmex** provides the instruments and reagents laboratories use for testing blood, urine and other samples. Sysmex handles everything from R&D to manufacturing, sales, and service and support. Today, it looks like the person from Sysmex is here to suggest some laboratory upgrades.

Mamoru Huh? He isn't there to sell something new?

Guide Sysmex does more than just sell testing instruments and reagents. It also proposes testing environments that are safe and comfortable for hospitals, laboratories and patients.

Mamoru Like what sort of proposals?





1 Samples are taken for hospital tests or medical checkups (blood, urine and other samples).

2 Laboratories use instruments and reagents to perform tests.

Addressing the Issues Customers Face in a Comprehensive Manner and Helping to Improve the Quality of Healthcare

Due to falling birthrates and aging populations, reducing healthcare spending is becoming an urgent issue. Against this backdrop, numerous medical institutions are facing the need to improve efficiency without lowering the quality of healthcare. In addition to providing products, Sysmex takes an integrated approach to addressing the host of problems customers face, providing new value suited to their healthcare environments. In this way, the Group helps to improve the quality and efficiency of testing and healthcare in general.

is shorter, right? **Mamoru** Now that you mention it, I remember my grandpa talking about when he went to the hospital to get some tests done. He said it was a long time before he was called to the consulting room.

Guide Sysmex makes lots of proposals to make testing more efficient in many ways. Of course, that starts with providing instruments and reagents that are suitable to the individual hospital. The Group also suggests putting testing results into digital reports and thinks about layouts to help lab technologists move about the laboratory more comfortably.

Mamoru That means that we can be comfortable when we get tested, right?

Guide: A girl who knows a lot about health and healthcare

Mamoru: A curious elementary school pupil who is learning about Sysmex's business and testing

Guide Well, when we go to the hospital to get tested, if the period from the time we first go to the testing reception desk until we get testing results is short, and if the doctor can make a diagnosis quickly, that means our waiting time



3 The results help decide diagnoses and treatment methods.

Creating Testing Environments That Are Safe and Comfortable for Lab **Technologists and Patients**

When making proposals, Sysmex takes an in-depth look at customers' testing environments so it can plan environments that enable more efficient testing. Utilizing IT to network entire laboratories helps to raise the safety of testing, such as by preventing sample mix-ups. In 1990, the company also began providing transport systems, which help to prevent infection.

A Close-up Look at Sysmex's R&D

The guide and little Mamoru visit Technopark, Sysmex's R&D hub. They learn how the products in this lab are developed.



Where are products developed?

Mamoru So this is Technopark, the R&D hub.

Guide The lab and office areas are on the same floor to make communication easier. Dividers are made of glass, so each side can see what is happening on the other side.

Mamoru That person in the white clothes...why is she using liquids for tests? Don't machines do the testing?

Guide She is developing reagents that will be used together with instruments.

Mamoru What is a "reagent?"



Examples of Sysmex Reagents Used for Blood Testing
Action
Dilute
While regaining blood cell morphology, these reagents are

 Disolve
 These reagents are used to dissolve components of the blood that do not need to be tested, while retaining those that do. For example, when measuring white blood cells, red blood cells and platelets might be dissolved.

 Stain
 These reagents are used to stain nucleic acid constituents* inside blood cells. The information detected when a laser light is shown on the cell can be used to separate blood cells by type.

*Nucleic acid constituents: DNA and RNA

Guide Reagents are chemicals used for testing blood, urine and other samples taken from the body. With blood testing, for example, reagents are reacted with blood inside the instrument. The blood is diluted, and blood cells are dissolved and stained to provide accurate measurements.

Mamoru So, reagents are required for testing.

What are Sysmex's unique strengths in product development?

Mamoru How are reagents developed?

Guide Sysmex delivers products all over the world, so it develops reagents that also have stable quality in different environments.

Mamoru Wow...they're used all over the world.

Guide Reagents are made of ingredients that have to follow strict rules in different countries. After many rounds of improvements, Sysmex has developed reagents that can be produced stably in factories at 14 places around the world. That is an important point. Sysmex also has to think about things like making reagents that are easy to handle and are friendly to the environment.

Mamoru Like how?

Guide Sysmex has developed concentrated reagents, which are easier to handle when changing reagents. This is a technology only Sysmex has.

Mamoru Wow! The package sizes are completely different! I'll bet even I could pick up that smaller one.

Guide The newest types of instruments use reagents that have much higher performance, so the instruments





can perform at their best. This is one of Sysmex's strengths, because it develops both instruments and reagents.

Mamoru Developing both is pretty impressive.

Guide Development requires instrument and reagent developers, of course, but many other people from different departments also get together—people from production technology and procurement, service and support, and sales divisions in Japan and overseas. These people gather to think about how to create good products and how to deliver accurate testing results to customers around the world.

Mamoru It sounds like lots of people put their heads together to make good products.

Guide Sysmex's work continues, even after products are delivered to the customer. Next, let's have a look at service and support.

Sysmex Instilling Confidence

Following on from the comment that "Sysmex's work continues, even after products are delivered to the customer," the guide and little Mamoru visit a service and support center.



What are the services that support testing?

Guide This is a customer support center, one of Sysmex's bases for service and support. These bases respond to inquiries from hospitals, commercial labs and other customers.

Mamoru Lots of people are working here.

Guide Doctors need to receive fast and accurate testing results so they can make diagnoses smoothly. Instruments need to be maintained so they work correctly. It is also important for people to be available to respond quickly if a breakdown occurs.

Mamoru Over there, that man is sitting in front of an instrument and talking. It seems like he's looking at a screen.

Guide The customer is using a web camera and showing him the inside of the instrument. They are using a network to look at the image together.

Mamoru He can see the instrument even from far away?

The Flow of Service and Support



Guide That's right. Sometimes it's hard to explain things using just words. Sharing the screen makes it easier to understand, and this way they can solve the problem quickly.

Mamoru That's great! What other types of support are there?

Guide The Group uses a network to keep checking customers' instruments. This way, they can see even small changes that a customer has not yet noticed. Sysmex can tell them about the problem before a breakdown occurs (separate contract required).

How is service quality improved?

Mamoru Sysmex's products are used in lots of countries, right? Does the Group provide service overseas the way it does in Japan?

Guide Yes. Sysmex conducts service and support activities at places around the world so customers can use its products with confidence. Service and support trainers learn

appropriate technologies and expertise in direct training from Japanese specialists. These trainers provide lectures to staff around the world to increase service and support quality.

Mamoru They're very reliable, then.





Guide The details of customer inquiries are shared all around the world. In addition to improving service and support, this information is helpful when developing new products.

Mamoru It sounds like Sysmex is strong in many areas: instruments, reagents, R&D, and service and support.

Guide In addition to providing customers with products, it is important to deliver accurate testing results. Sysmex continues working to provide value that exceeds customers' expectations and brings them confidence.