

Why Healthcare Logistics Is Becoming Central to Care

March 26, 2026 | Opinion | By He PengHui, Managing Director APAC, Swisslog Healthcare

Modern healthcare depends not only on medical expertise but also on how efficiently medicines, samples, and supplies travel through the hospital



During a demanding shift, a nurse waits for a medication that should have reached the ward some time ago. The prescription has been issued and the pharmacy confirms it has been processed. Yet the medicine itself has not arrived. A pharmacist elsewhere is reviewing inventory records that do not quite reconcile with what is physically present in storage. In the laboratory, a technician prepares a diagnostic sample that must reach the testing unit quickly if the physician is to decide the next course of treatment. Each of these events appears routine. Yet when they occur repeatedly across a large hospital, they reveal how deeply patient care depends on logistics.

Hospitals function through a continuous movement of medicines, laboratory samples, instruments and supplies between departments. When these movements occur with reliability and precision, clinical teams can focus on treatment. When they do not, delays accumulate and operational friction begins to affect the pace of care.

The Growing Complexity of Healthcare Operations

Healthcare systems today operate in an environment that is significantly more complex than it was even a decade ago. Treatments have become more specialised, diagnostic pathways more elaborate and patient volumes steadily larger. These developments have increased the pressure on internal hospital logistics.

The broader life sciences sector illustrates the scale of the ecosystem that hospitals rely on. India alone has more than 900,000 people employed across pharmaceuticals and related industries, supporting the discovery, manufacturing and supply of medicines. This extensive network ultimately converges inside healthcare institutions where medicines must be stored, managed and delivered with accuracy.

The increasing global integration of life sciences operations adds another dimension. 23 of the world's top 50 life sciences companies operate Global Capability Centers in India, reflecting how pharmaceutical research, manufacturing and supply chains now span multiple geographies. Hospitals are therefore not merely healthcare facilities. They sit at the end of a global logistics chain that stretches from laboratories and factories to pharmacies and patient bedsides.

Supply Chains and Their Vulnerabilities

The reliability of hospital logistics also depends on the resilience of upstream supply chains. Recent industry analysis highlights how fragile these supply networks can become when too much dependence develops around a single geography. For example, more than 70% of certain pharmaceutical inputs imported into India originate from China, with dependence rising to nearly 87% in some drug segments.

When such supply chains experience disruption, the effects travel quickly through the healthcare system. Manufacturing delays influence pharmaceutical distribution. Distribution interruptions affect hospital inventories. Ultimately the pressure reaches the ward where clinicians must adjust treatment schedules or search for alternative medications.

These vulnerabilities have prompted healthcare organisations worldwide to pay closer attention to logistics, inventory visibility and internal supply coordination.

Why Hospital Logistics Is Now Strategic

For many years hospital logistics was regarded primarily as a support function. The assumption was that clinical expertise determined patient outcomes while operational systems merely enabled routine processes. That assumption is gradually being reconsidered.

As treatments become more specialised and supply chains more intricate, the ability to move medicines, samples and supplies efficiently across the hospital becomes increasingly important. Hospitals that strengthen these operational systems often find that clinicians spend less time navigating administrative delays and more time attending to patients.

The implications are practical rather than theoretical. Efficient internal logistics reduces the likelihood of stock discrepancies, ensures faster access to medicines and enables hospitals to manage resources with greater clarity.

Rethinking Logistics as Part of Care Delivery

The conversation around healthcare often focuses on new therapies, medical technologies and clinical breakthroughs. These developments are undeniably important. Yet the effectiveness of these innovations ultimately depends on whether hospitals can deliver them reliably within the daily rhythm of patient care.

It Is Time to Reconsider Hospital Logistics

Improving hospital logistics is not simply a matter of operational efficiency. It is an essential step toward ensuring that modern healthcare systems function with the speed and reliability that patients and clinicians increasingly expect. Institutions that invest in stronger internal logistics today will be better prepared to manage the complexity of tomorrow's healthcare landscape.

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