



Let's Solve

LTI T-Cell Therapy Deployment Solution

SAP-Based Personalized Supply Chain



A Larsen & Toubro
Group Company



Current **Business Scenario**

T-cells, also known as CAR T-cells, are genetically engineered chimeric antigen receptor cells. These T-cells produce artificial T-cell receptors used in immunotherapy for cancer patients. When infused into a patient, the T-cells act as a "living drug" against cancer cells.

Today, life sciences organizations experience specific challenges across the T-Cell delivery process, including:



Complex process with limited real-time monitoring for therapy registration, transportation, processing, and treatment appointments



Lack of end-to-end process track and trace capabilities in real-time within SAP systems connected with hospital patient monitoring systems



Difficulty in patient scheduling aligned with the production schedule

What is LTI's T-Cell Therapy Solution?



LTI's T-Cell Therapy Solution addresses relevant challenges and provides a seamless platform to track the end-to-end patient treatment cycle



Our solution tracks all the stages – from patient registration to T-cell sample infusion – delivering real-time visibility into the entire chain of events. It helps plan the capacity in the plant and schedule the patient infusion accordingly



With LTI's T-Cell Therapy Solution, you can handle multiple therapies in multiple regions, while ensuring tight integration with the ERP system

Salient Features of LTI's T-Cell Therapy Solution

- Efficient compliance scheduling and monitoring system
- Provides visibility into patient's time and temperature-sensitive blood during shipment
- Ensures T-cells are processed and returned to the same patient according to the required timelines
- Closely integrated with ERP Systems and Warehouse Management
- LTI's solution is compatible with both ECC as well as S/4 Hana platform
- Improves capacity planning for T-cells therapy deployment
- Handles multiple therapies in multiple regions
- End-to-end supply chain process at the plant, including patient information, Apheresis, and infusion center, physician, and logistics carrier
- Validates appropriate Logistics carrier and Apheresis inbound transport, outbound to the infusion center
- Enables real-time processing of Apheresis at the plant, enforcing quality control norms and documentation requirements



How **LTI's T-Cell Therapy Solution** Helps Pharmaceutical Companies?

Our SAP-certified solution is a best-fit, holistic supply-chain delivery capability encompassing processes and procedures compliant with local regulations (FDA, HIPPA, GMP, and more) and a self-contained audit trail. **The solution provides:**



100% tracking and tracing of batch numbers with both external and internal stakeholders



Improves capacity planning at the processing plant by **25%** or more



Provides infusion appointment at the time of Apheresis appointment with **100%** accuracy



Enhances process efficiency with auto-notifications circulated to external parties for transportation, highlighting the requirement for timely delivery



Ensures up to **30%** shorter cycle time to complete vein-to-vein process with improved visibility into process stages in real-time



Comes with an intuitive dashboard providing color coding for deployment stages, allowing users to track and trace the process at a glance



CAR-T Process Tracker

4

in Treatment



@ Apheresis



to Plant



@ Plant



to Infusion



@ Infusion



Completed



Cancelled

Patient Id	Treatment Id	Name	Apheresis Ctr.	Current Status	Registration Date	Stage
		Richardson, David	0001000086	Drug Received by Infusion Cent	09/07/2020	
		Henrich, Mark	0001000086	Process Order Created	09/06/2020	
		Block, Joe	0001000086	Process Order Created	08/28/2020	
		Sydiangco, Pamela	0001000086	Process Order Created	08/28/2020	





About **LTI SAP** **Life Science**

LTI has a long-term relationship with SAP, which spans over 20 years. Having driven the first SAP implementation in India, LTI is a pioneer in ERP solutions. With our deep ERP expertise and engineering DNA, we help clients build robust digital ecosystems. In this collaboration with SAP, LTI is uniquely positioned as a partner, co-innovator, and customer.

One of our crucial lines of business, LTI's has proven experience and knowledge in life sciences, bolstered with our solutions across digital, automation, and smart manufacturing. We partner with drug makers to effectively address industry challenges and improve business process efficiency with robust ERP implementations and application portfolio rationalization.



Let's Solve

LTI (NSE: LTI) is a global technology consulting and digital solutions Company helping more than 435 clients succeed in a converging world. With operations in 31 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivalled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 36,000 LTItes enable our clients to improve the effectiveness of their business and technology operations and deliver value to their customers, employees and shareholders. Find more at <http://www.Lntinfotech.com> or follow us at @LTI_Global.

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