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Introduction

Axicabtagene Ciloleucel (Axi-Cel) is reimbursed in Italy for relapsed/refractory (R/R) large B-cell lymphoma after ≥ 2 previous treatments, for diffuse large B-cell lymphoma and high-grade B-cell lymphoma refractory to first-line chemoimmunotherapy (CIT) or relapsing ≤ 12 months after first-line CIT and for R/R follicular lymphoma after ≥ 3 previous treatments¹.

The experience of manufacturing and supplying commercial Axi-Cel LOTs in EU countries has been reported (van de Wiel L. EBMT2023. P198)².

The aim of this abstract is to describe the experience of manufacturing and supplying commercial Axi-Cel LOTs to patients treated in Italy.

Objective(s)

The aim of this abstract is to describe the experience of manufacturing and supplying commercial Axi-Cel LOTs to patients (pts) treated in Italy.

From 1 January 2022 to 31 December 2023, 415 pts were registered on Kite Konnect and underwent LK (Table 1).

Table 1 – Timeframe and source data extraction

Date range (from – to)	01.01.22 – 31.12.23
Unique patients registered on Kite Konnect and leukapheresed ^a , n	415
Unique Patients LOTs evaluable for analysis, n	410

^a Only patients from Italy are included in this analysis.

Method(s)

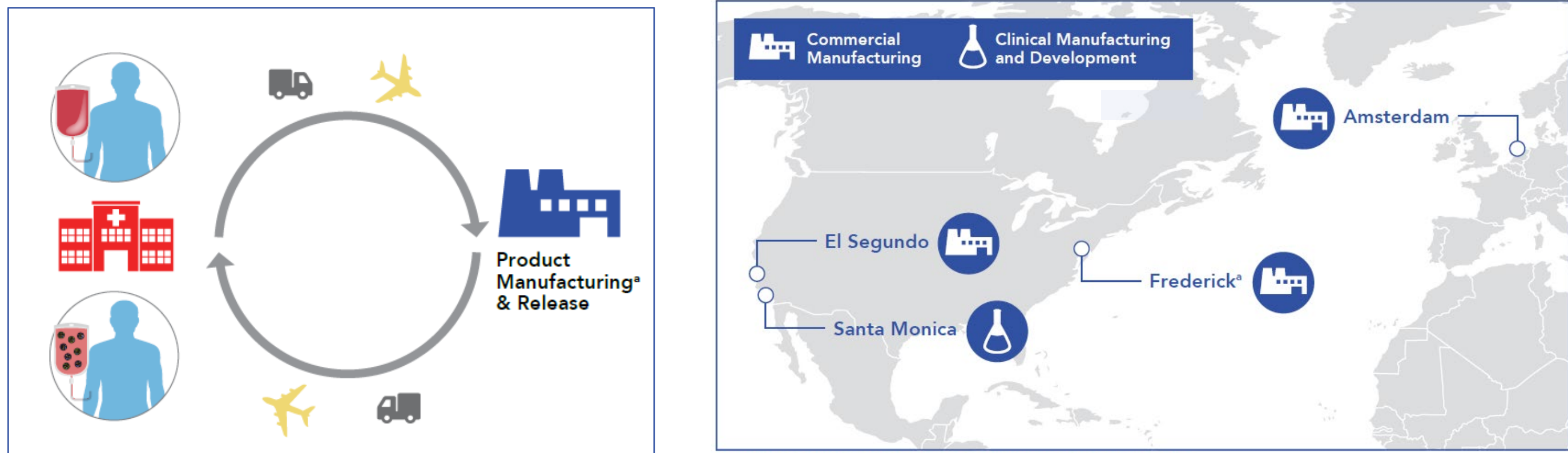
As shown in Figure 1, fresh leukapheresis (LK) material was collected from patients intended to receive commercial Axi-Cel at authorized treatment centres in Italy and shipped to the cell therapy manufacturing facility in the Netherlands for manufacturing.

If additional LK was needed, the first LK was considered for each patient and was then referred to as that patient's LOT.

The LOT of the finished product remained at the manufacturing facility until it was released by the Qualified Person (QP) or the Physician and then sent to the hospital for administration.

Time needed for shipping from manufacturing facility (after the LOT release) to the treatment center is excluded from the turnaround time calculation.

Figure 1. Manufacturing Process and World Wide Kite's Commercial Manufacturing sites



Acknowledgements & Disclosures

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References

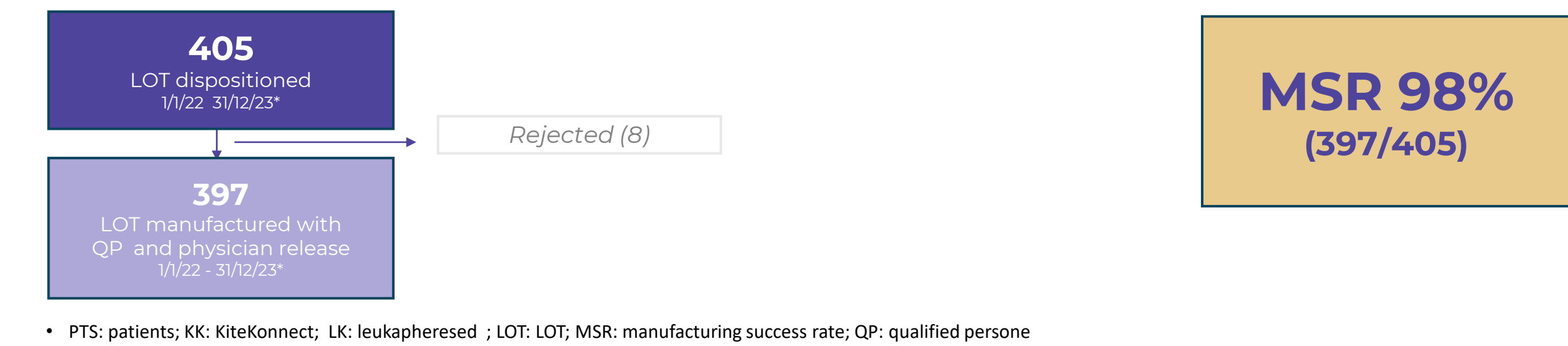
- YESCARTA® (axicabtagene ciloleucel), SmPC (AIFA, July 2024)
- Van de Wiel L et al., EBMT2023, Poster P198
- Locke FL, et al. ASH 2022. Abstract 3345

Result(s)

In total, 409 out of 410 LOTs were delivered to the treatment centres, resulting in a DSR of 99.8%. In addition, 397 LOTs were released by the QP or Physician out of 405 LOTs dispositioned, with a MSR of 98%.

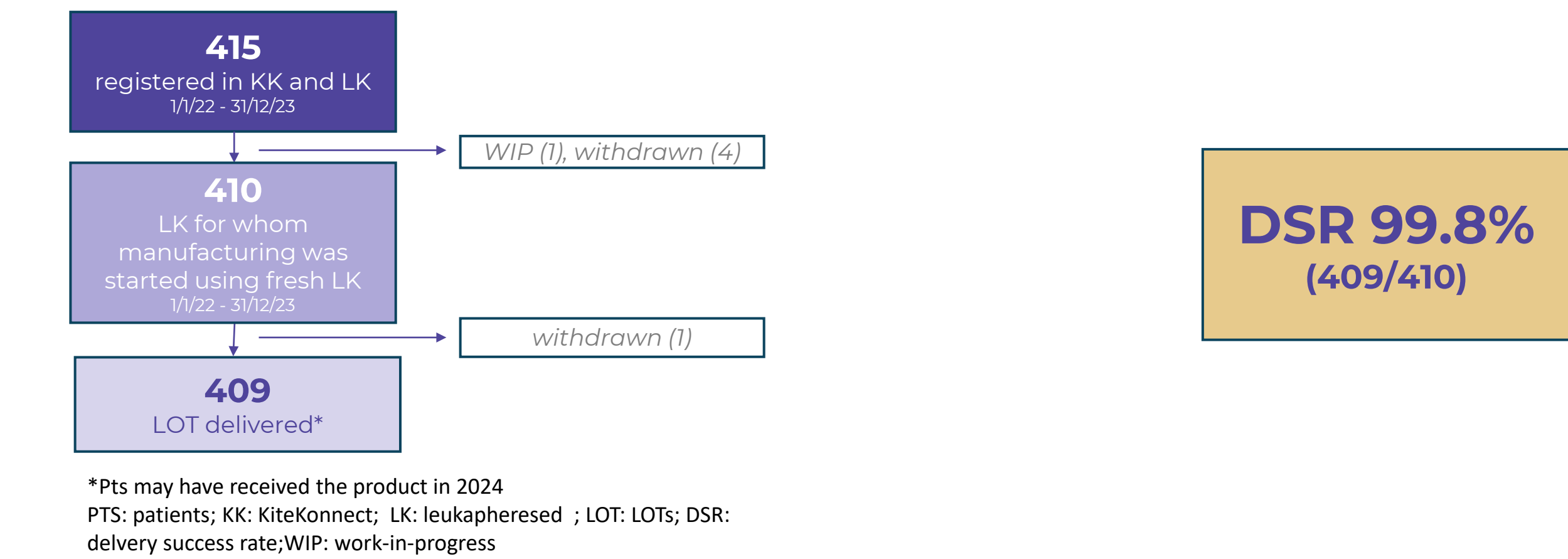
The median Turnaround time (TAT) was 20 days (range, 17-30).

Manufacturing success rate (MSR) is defined as percentage of LOTs QP-released or Physician's released out of the total LOTs dispositioned in the time period of data extraction.



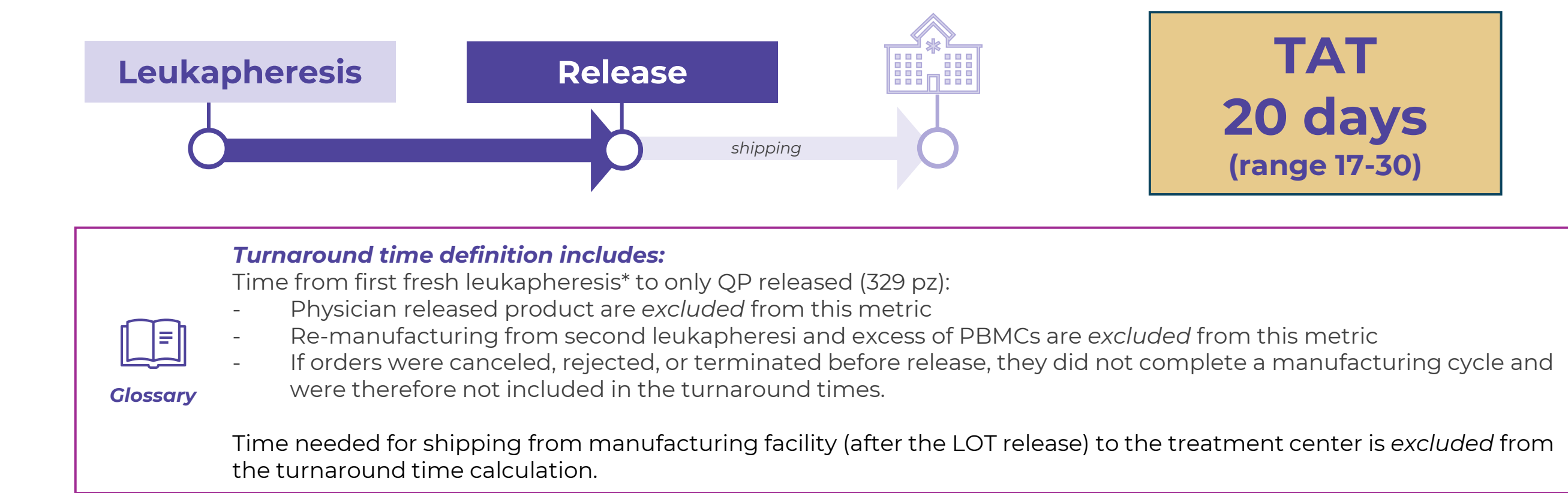
LOT dispositioned definition includes:
- LOTs QP released, LOTs Physician released and Rejected LOTs
- LOTs dispositioned with a re-manufacturing (from a second apheresis or from excess of PBMC already available)
- Pts who have a LOT dispositioned in that timeframe, can underwent aph in 2021. Therefore, they are not included in those 415 pts
Manufacturing Success Rate definition includes:
- Products Out-of-Specification and Products In-Specification
- Products obtained from first-pass-manufacturing and products obtained from second-manufacturing (from a second apheresis or from excess of PBMC already available)

Delivery success rate (DSR) is defined as the percentage of patient LOTs shipped (dispositioned as Qualified Person-released or physician's release) out of the total number of pts leukapheresed in the time period (excluding those patient LOTs in process and patients withdrawn).



Delivery Success Rate definition includes:
- Products Out-of-Specification and Products In-Specification
- Products obtained from first-pass-manufacturing and products obtained from second-manufacturing (from a second apheresis or from excess of PBMC already available)
- LOTs withdrawn and work in progress are excluded

Turnaround time (TAT) is defined as the time from date of LK to date of quality release of final product



Conclusion(s)

The Italian experience of commercial Axi-Cel for R/R NHL demonstrates a high Delivery Success Rate and Manufacturing Success Rate with a short Turnaround time.

Real-world experiences show that patients outcome depend on fast and reliable manufacturing capability (Locke FL. ASH 2022. abs3345)³.

Kite Manufacturing confirms to be rapid, reliable and predictable enabling Centers to plan for a timely product administration, also allowing an optimized Hospital Resources utilization.

Contact Information

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