

FAD SINCRONA 4 dicembre 2024

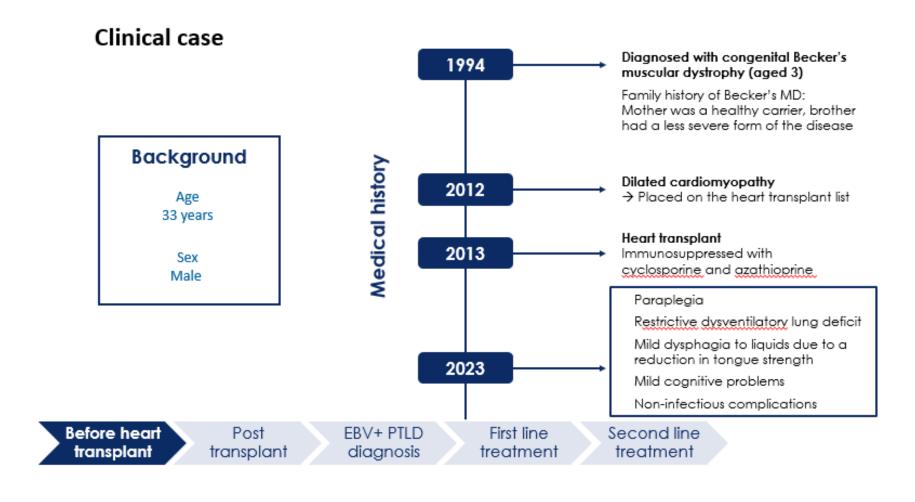


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Disclosures

Honoraria and/or participation of advisory boards in the last 3years for

Incyte, Roche, EUSA Pharm, Takeda, Pierre Fabre



Clinical case

10 years after heart transplantation he was admitted to ER

Presenting symptoms:

abdominal pain, no B symptoms

Performance status:

•ECOG 4

Abdominal CT scan:

- overdistention of jejunal and first ileal loops
- invagination of ileal loops
- many enlarged lymph nodes up to 4 cm

Blood tests:

- Normal blood counts
- Normal renal and hepatic tests
- . LDH: normal
- . EBV: 30.891 U.I./ml
- . CMV: neg

Laparotomy:

20 cm ileal resection + lymph nodes biopsy

Before transplant Post transplant EBV+ PTLD diagnosis

First line treatment

Clinical case

ceCT scan

- persistance of mesentheric lymph nodes up to 4 cm
- Kidneys of normal size with some focal bilateral hypodense alterations, suspected to be neoplastic

[18F]FDG PET/CT scan

 marked accumulation of the tracer mainly anterior to the kidney (SUV max 36.7) where CT showed adenopaties

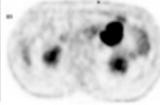






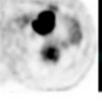
Post

transplant



EBV+ PTLD

diagnosis

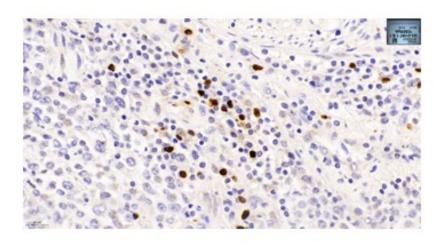


First line treatment



Histology

- Lymph nodes biopsy
- Diffuse large B cell lymphoma (DLBCL)
- GCB subtype (Bcl6+,CD10+/-, MUM 1-)
- EBER +
- FISH: non MYC rearranged



CC: DLBCL EBV driven after heart transplant, stage IV-A, IPI score Int/High

Before transplant Post transplant EBV+ PTLD diagnosis

First line treatment

First line treatment

Treatment details

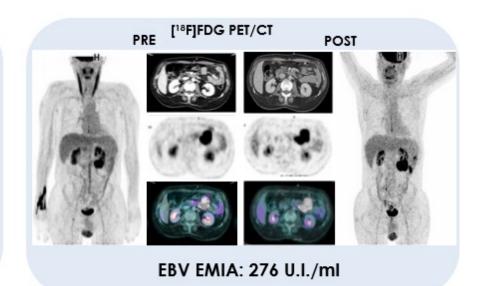
Rituximab monotherapy

Treatment duration

4 times once a week

Tolerability

no hematological/extra-hematological toxicities



Disease progression > tabelecleucel

Before transplant Post transplant EBV+ PTLD diagnosis

First line treatment

Tabelecleucel is an allogeneic T-cell immunotherapy licensed for the treatment of relapsed/refractory EBV+ PTLD¹

Tabelecleucel is indicated:1

As monotherapy for the treatment of adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received at least one prior therapy

For SOT patients, prior therapy includes chemotherapy unless chemotherapy is inappropriate

Tabelecleucel is licensed in Europe, including the UK and Switzerland in the outlined indication^{1–3} and is not currently marketed in Italy.

An observational, real world Post-Authorisation Safety Study (PASS) called EBVOLVE is underway, data will be submitted to the EMA's Pharmacovigilance Risk Assessment Committee (PRAC) upon completion.



EBV+, Epstein Barr virus positive; EU, European Union; PTLD, post-transplant lymphoproliferative disorder; SOT, solid organ transplantation.

1. tabelecieucei EU SmPC; 2. tabelecieucei UK SmPC; 3. tabelecieucei CH SmPC

Manufacturing of tabelecleucel



No genetic modification of T-cells

Including EBV cytotoxicity, HLA

restriction and

allogenicity

CD4/8, cluster of differentiation 4/8; DNA, deoxynucleic acid; EBV, Epstein-Barr virus; EBV+, Epstein Barr virus positive; Fast, fas ligand; HLA, human leukocyte antigen; PTLD, post-transplant lymphoproliferative disease; TCR, T-cell receptor.

Prockop S, et al. Biol Blood Marrow Transplant. 2018;24(3_suppl):841-842; 2. Prockop S, et al. J Clin Oncol. 2016;34(15_suppl):Abstract 3012;

EBV-infected

donor B-cells

functioning as APCs

3. tabelecieucei EU Summary of Product Characteristics.

How to establish the suspected origin of EBV+ PTLD disease

The suspected origin of the disease is required to ensure an appropriate tabelecleucel lot is selected from the biobank. This is based on HLA restriction matched to the patient's disease and overall HLA allele profile

BEST OPTION = obtain high resolution HLA typing of the disease biopsy

If high resolution HLA typing is not available, the origin of the disease must be defined:

If the patient and donor gender are matched:

If the patient and donor gender are mis-matched:

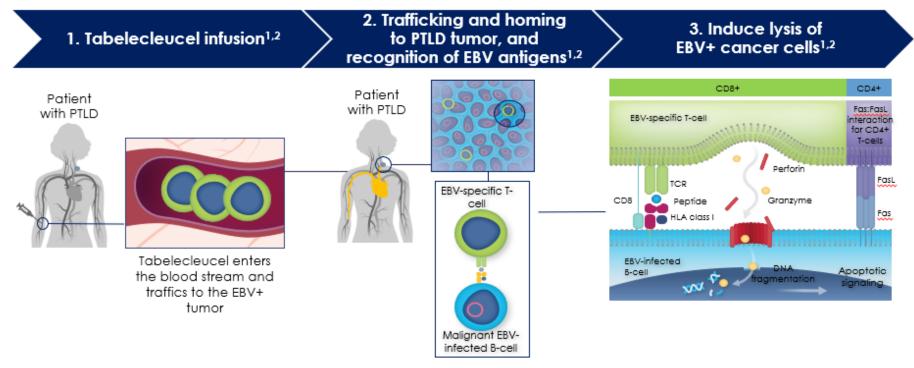
Use clinical assumptions:

Patient/donor EBV serostatus before transplant

Timing of PTLD diagnosis from transplant

Disease location (eg. organ involvement

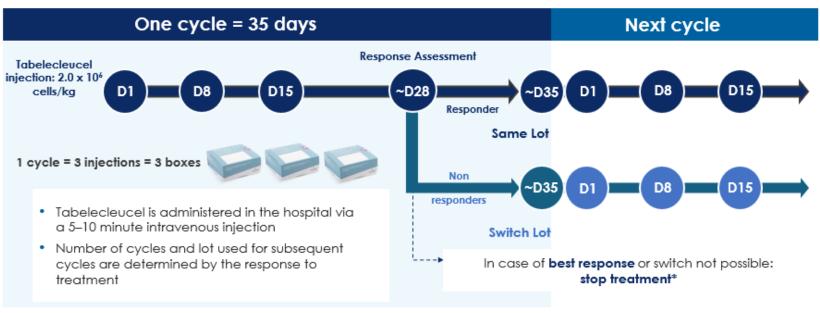
Tabelecleucel mechanism of action



CD4/8, Cluster of differentiation 4/8; DNA, deoxynucleic acid; EBV, Epstein-Barr virus; EBV+, Epstein Barr virus positive; Fast, fas ligand; HLA, human leukocyte antigen; PTLD, post-transplant lymphoproliferative disease; TCR; T-cell receptor.

^{1.} Prockop S, et al. Biol Blood Marrow Transplant. 2018:24(3_suppl):841-842; 2. Prockop S, et al. J Clin Oncol. 2016:34(15_suppl):Abstract 3012.

Tabelecleucel administration schedule¹



*Best response: two consecutive CRs or three consecutive PRs.1

CR, complete response; HLA, human leukocyte antigen; PR, partial response.

1. tabelecieucei EU SmPC

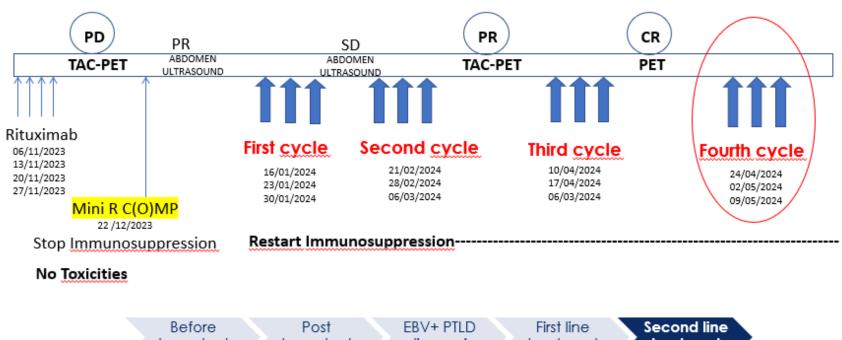
Tabelecleucel treatment algorithm

The Switch and Stop Criteria are determined by the response to treatment¹

Response observed*	Action
CR .	Administer another cycle with the same HLA restriction. If the patient achieves 2 consecutive CRs (maximal response), no further treatment with tabelecleucel is recommended
PR	Administer another cycle with the same HLA restriction. If the patient achieves 3 consecutive PRs (maximal response), no further treatment with tabelecleucel is recommended
SD	Administer another cycle with the same HLA restriction. If the subsequent cycle results in a second SD, administer tabelecleucel with a different HLA restriction
PD	Administer another cycle with a different HLA restriction
IR	Administer another cycle with the same HLA restriction. If the subsequent cycle results in a second IR, administer tabelecleucel with a different HLA restriction

^{*}CR at the end of a cycle, followed by PR or other response at any subsequent cycle, is considered PD.

Second line treatment: Tabelecleucel



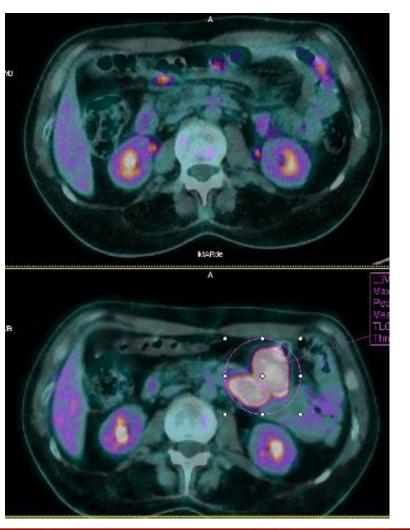
transplant

transplant

diagnosis

treatment

treatment



TC-PET response
After the third cycle of
Tabelecleucel

TC-PET after Rituximab