

Age range	45-50 years
Weight	80 kg
Height	179 cm
BMI	25 kg/m ²
ECOG	1
Pre-existing conditions	Psoriasis, Impaired glucose tolerance.
Diagnosis	MYC- and BCL-6 rearranged high grade B cell lymphoma (double hit), NOS according to WHO 2016 classification of lymphoid neoplasms (histology obtained from gingival biopsy)
Staging	Ann-Arbor IV AE; skeletal, abdominal and testicular extranodal involvement; MRI with signs of infiltration of spinal cord, retroorbital area and mandible/maxilla

Line of therapy	Regimen	Best response
1st	6 x R-DA-EPOCH including intrathecal chemotherapy (methotrexate, cytarabine, methylprednisolone)	Complete remission
		CNS relapse at 5 months
2nd	4 x MATRix	Progressive disease
3rd	1 x R-ICE, intrathecal chemotherapy (methotrexate, cytarabine, methylprednisolone)	Progressive disease
4th	Rituximab-Lenalidomide	Complete remission

1 **Suppl. table 1**

- 2 Patient characteristics and lines of therapy with respective responses as assessed by PET-CT, MRI,
3 bone marrow biopsy and/or CSF analysis

Cell count	6/ μ l
Protein	598 mg/l
Albumin CSF	332 mg/l
Albumin serum	34.1 g/l
Albumin ratio (CSF: serum)	9.7×10^3
IgG (CSF)	18 mg/l
IgA (CSF)	1.2 mg/l
IgM (CSF)	<0.2 mg/l

4 **Suppl. table 2**

5 CSF analysis was performed on day +14 and showed no relevant abnormalities or signs of an
6 infectious or autoinflammatory process.

Ad admission	Hematology ward	ICU
Acetylic salicylic acid Co-Trimoxazol Valaciclovir Pantoprazole Fentanyl	Co-trimoxazol Co-Amoxicillin Cefepime Dexamethason Esomeprazole Furosemide Filgrastim Metamizol Morphine Piperacillin/Tazobactam Paracetamol Ipatropiumbromide/Salbutamol Salbutamol Tocilizumab Zolpidem	Aciclovir Acidum hyaluronicum ophthalmic gel Esomeprazole Fentanyl Filgrastim Midazolam Noradrenaline Rocuronium Propofol Sufentanyl

7 **Suppl. table 3**

8 Concurrent medication at hospital admission and during clinical course until diagnosis of GBS and cDI.
9 None of the concurrent medication has been directly linked to GBS and/or cDI.

10 **Suppl. fig. 1**

11 Overview of CAR-T cell count and laboratory parameters

12 CAR-T cell levels in the blood were assessed either via flow cytometry (left upper panel; depicted as
13 percentage of all CD3⁺ lymphocytes) or by digital droplet PCR (middle upper panel; depicted as
14 detected transgenes in comparison to the reference gene RPP30). White blood cell count (WBC) and
15 absolute lymphocyte count are depicted (right upper panel) as well as LDH (left lower panel).