

Supplemental Table 1. Patient treatment history

Patient UPN	Prior lines of therapy
286	High dose methotrexate, rituximab
	High dose methotrexate
	High dose methotrexate
310	Rituximab, cyclophosphamide, doxorubicin, vincristine, prednisone
	Radiation
	High dose methotrexate + cytarabine → rituximab, methotrexate
	Hyper fractionated cyclophosphamide, vincristine, doxorubicin, prednisone, rituximab, lenalidomide
	Radiation, lenalidomide
	Pomalidomide, radiation
272	Methotrexate, radiation
	Rituximab, cytarabine, methotrexate
	Methotrexate, cyclophosphamide, doxorubicin, vincristine, prednisone
	Rituximab, Melphalan, carboplatin
	Brentuximab vedotin, rituximab
	Dendritic cell vaccine, nivolumab, rituximab
	Bevacizumab, nivolumab, radiation
	P53 gene therapy, nivolumab
	Ipilimumab
	Ibrutinib
	Rituxan, nivolumab
	Radiation
346	Methotrexate, cytarabine, thiotepa, rituximab
	High dose methotrexate
475	High dose methotrexate, rituximab, temozolamide
	Etoposide, cytarabine consolidation
	Lenalidomide maintenance
	High dose methotrexate, rituximab, temozolamide
	Nivolumab, ibrutinib