3-year follow-up of tislelizumab for R/R cHL Song et al.

Supplementary Data

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Variable	nonulation	nonulation	nonulation	
	(N=70)	(N=36)	(N=41)	
Median age, years (range)	32.5 (18–69)	33.0 (19–69)	33.0 (19–67)	
Age group, n (%)				
<65 years	66 (94.3)	32 (88.9)	38 (92.7)	
≥65 years	4 (5.7)	4 (11.1)	3 (7.3)	
Sex, n (%)				
Male	40 (57.1)	20 (55.6)	26 (63.4)	
Female	30 (42.9)	16 (44.4)	15 (36.6)	
ECOG performance status, n (%)				
0	48 (68.6)	25 (69.4)	30 (73.2)	
1	22 (31.4)	11 (30.6)	11 (26.8)	
Stage IV at study entry, n (%)	42 (60)	25 (69.4)	26 (63.4)	
Bulky disease, ^a n (%)	8 (11.4)	2 (5.6)	3 (7.3)	
Bone marrow involvement, n (%)	22 (31.4)	13 (36.1)	13 (31.7)	
B-symptom(s), n (%)	26 (37.1)	15 (41.7)	13 (31.7)	
Histology subtype, n (%)				
Nodular sclerosis	42 (60)	20 (55.6)	21 (51.2)	
Mixed cellularity	19 (27.1)	11 (30.6)	14 (34.1)	
Lymphocyte-rich	3 (4.3)	3 (8.3)	2 (4.9)	
Unspecified	6 (8.6)	2 (5.6)	4 (9.8)	
Median time from initial diagnosis, months	25.33	22.51	26.81	
(IQR)	(12.91–40.54)	(13.11–38.87)	(12.88–40.54)	
Median number of lines of prior therapy, n	3.00	3.00	3.00	
(range)	(2.0–11.0)	(2.0–9.0)	(2.0–11.0)	
Types of prior systemic therapy, n (%)				
Chemotherapy	70 (100.0)	36 (100.0)	41 (100.0)	
ASCT	13 (18.6)	8 (22.2)	9 (22.0)	
Immunotherapy ^b	15 (21.4)	6 (16.7)	6 (14.6)	
Ineligible for prior ASCT ^c , n (%)	57 (81.4)	28 (77.8)	32 (78.0)	
Patients with prior radiation therapy, n (%)	21 (30.0)	11 (30.6)	13 (31.7)	
Best response, n (%)				
Overall response	61 (87.1)	30 (83.3)	37 (90.2)	
Complete response	47 (67.1)	23 (63.9)	29 (70.7)	

Supplemental Table 1. Baseline characteristics and clinical outcomes of overall, GEP-evaluable, and mIHC-evaluable populations.

^a Bulky disease defined as size of any single node/nodal mass ≥10 cm in diameter or mediastinal mass ratio of ≥0.33.

- ^b Immunotherapy includes brentuximab-vedotin, rituximab, CIK cell transfusion, thalidomide and lenalidomide.
- ^c Patients were ineligible for ASCT if they did not achieve at least a partial response to salvage chemotherapy, were ≥65 years of age, had contraindicating comorbidities, or due to the failure or inability to collect hematopoietic stem cells. All received ≥2 prior regimens.

ASCT, autologous hematopoietic stem cell transplant; CIK, cytokine induced killer; ECOG, Eastern Cooperative Oncology Group; GEP, gene expression profiling; IQR, interquartile range; mIHC, multiplexed immunohistochemistry.

Genes associated with prolonged PFS ^a	Genes associated with disease progression ^a
IFNL3	<i>IL32</i>
ILIA	IL6R
IL1R1	IL6ST
IL4	CSF2RB
CCL11	IRF2
CCR10	IRF8
IL9	IRF1
CXCL8	IRF3
PDCD1LG2	IRF9
FCGR1A	IFNAR2
TNFSF9	CD19
TNFRSF21	CD48
S100A12	CD79B
S100A9	CD22
<i>S100A8</i>	CD27
VEGFA	CD72
LAMC3	CD38
ITGAM	CD96
CPE	CD247
SPINK1	ATF2
MYOF	RNF4
CEACAM5	OAZ1
ACKR3	TUBB
TEX14	BTLA
ANXA1	NCL
<i>TP63</i>	HIST1H2BH
CD14	TRAT1
SLC11A1	PSMB8
PYGL	ТМРО
SLC2A1	NLRC5
DPYSL4	SLAMF1
PPM1E	PTPRC
KRT16	SP100
AADAT	STAT1
ALCAM	PSMB9
ABL2	TAGAP
LRP1	FYN
CLEC5A	RPL6
CREB5	MOB3A
НК2	ISG20
ITGB3	CEP55
MMP11	SPIB
OLR1	TXLNA

Supplemental Table 2. Gene list showing genes associated with progression-free survival by univariate Cox regression analysis.

HK1	HLA.F
SNAI2	SEMA4D
PTGER3	ETS1
MYO1B	PIK3CD
KIR.panS	SELPLG
CTAG2	SLAMF6
PLAUR	HLA.C
PLAU	NFKB2
MSR1	PSMB10
MSH3	HLA.E
CCDC138	TAP2
CD1A	DOCK9
FAM161A	CD6
HEYL	FYB1
LEXM	ST6GAL1
МҮО5С	PDHB
TAL1	ARHGDIB
DST	JAK1
IGFBP3	ITK
DSE	ADGRE5
	TAP1
	CARD11
	CORO1A
	CCND3
	TNFRSF13C
	RPL38
	CD3D
	CREBBP
	SELL
	CSK
	PTPRCAP
	IKZF3
	MYBL2
	CASP4
	GBP5
	EP300
	ITGAL
	CD3G
	LCK
	LRBA
	TNFAIP8
	CD3E
	ITGB7
	CD2

^a Genes with Wald test p value < 0.05 in the univariate analysis.

Supplemental Figure 1. Maximum change from baseline in the SPD of target lesions for

all patients. Percentage change in SPD was presented as the best response achieved in each patient. CR, complete response; PD, progressive disease; PR, partial response; SD, stable disease; SPD, sum of products of diameters.

Supplemental Figure 2. Associations of CD8+ T cells, CD68+ macrophages, FcγRI+ cells, and FcγRI+ macrophages with clinical responses. (A) CD8 T-cell infiltration by mIHC in complete responders versus non-responders. (B) Macrophages marked by CD68 by mIHC in complete responders versus non-responders. (C) Total FcγRI+ expression by mIHC in complete responders versus non-responders. (D) FcγRI+ macrophages by mIHC in complete responders versus non-responders. (D) FcγRI+ macrophages by mIHC in complete

Supplemental Figure 3. Correlation of FcyRI+ expression with IFNG and IL10. (A)

In vitro results showing that FcγRI+ expression was induced by IFN-r and IL10. (B) Correlation of FcGR1A with IFNG mRNA in the 36 GEP-evaluable patients. (C) Correlation of FcGR1A with IL10 mRNA in the 36 GEP-evaluable patients. GEP, gene expression profiling; IFN, interferon; IL, interleukin; MFI, mean fluorescence intensity; NS, nonstimulation.