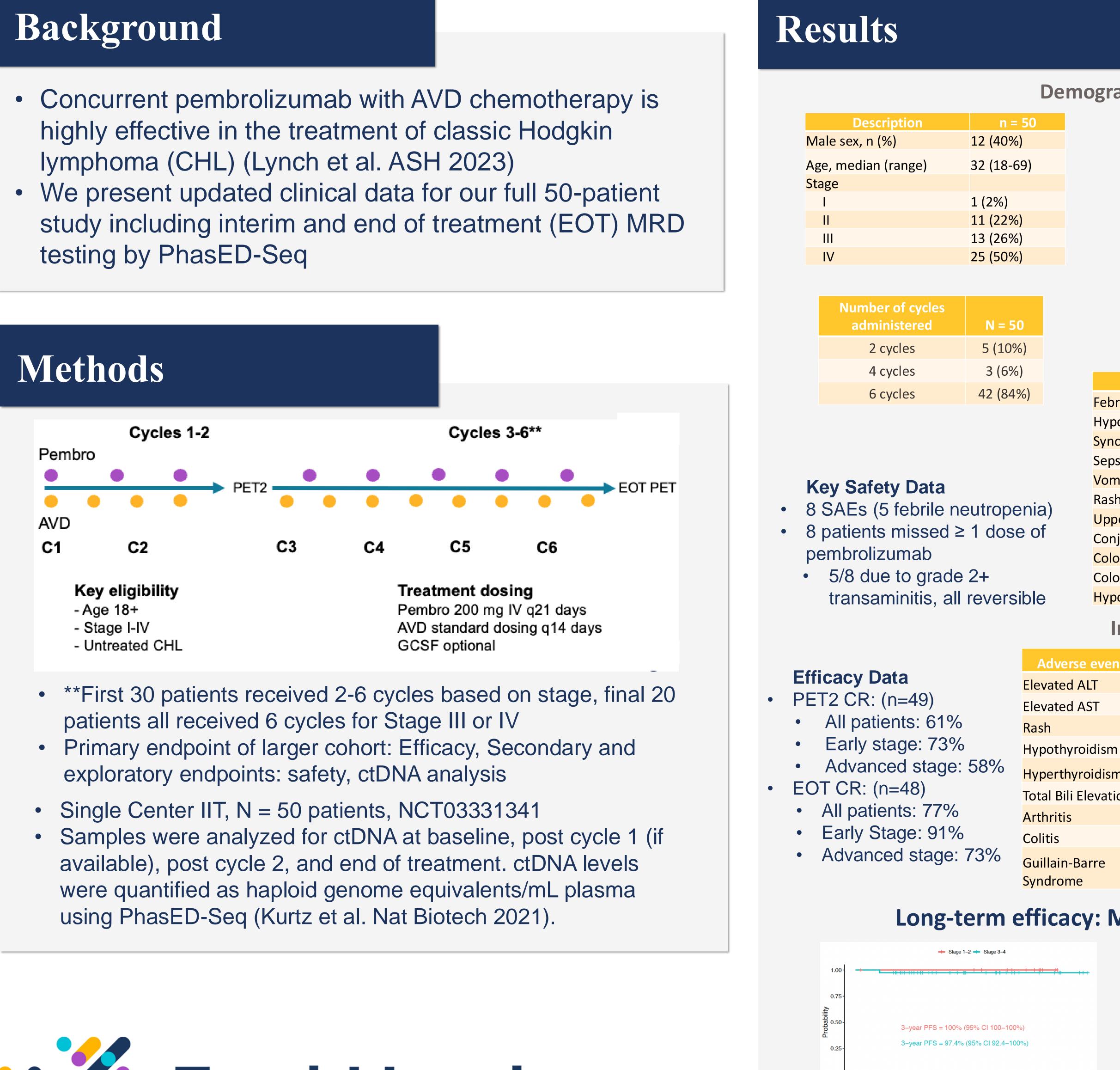
# High rates of undetectable MRD by PhasED-Seq on interim and end of treatment timepoints in untreated advanced stage CHL treated with pembrolizumab + AVD

Ryan C. Lynch<sup>1</sup>, Stefan Alig<sup>2</sup>, Chaitra S Ujjani<sup>1</sup>, Christina Poh<sup>1</sup>, Edus H. Warren<sup>1</sup>, Stephen D. Smith<sup>1</sup>, Nazyar Shadman<sup>1</sup>, Stephen D. Smith<sup>1</sup>, Stephen D. Smith<sup></sup> Hongyan Du<sup>1</sup>, Jackie Vandermeer<sup>1</sup>, Alyssa Kelly<sup>1</sup>, Heather Rasmussen<sup>1</sup>, Jenna Voutsinas<sup>1</sup>, Ash A Alizadeh<sup>2</sup>, Ajay K Gopal<sup>1</sup> <sup>1</sup>Fred Hutch Cancer Center, Seattle, WA; <sup>2</sup>Stanford University, Division of Oncology, Stanford, CA; <sup>3</sup>University of Washington, Department of Radiation Oncology, Seattle, WA

- testing by PhasED-Seq

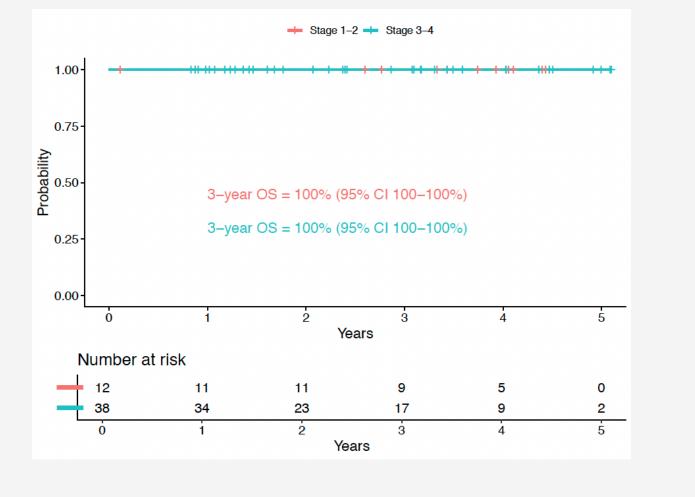




aphics						
-	occription	n - 50				
B symptoms	escription	n = 50 21 (42%)				
Bulk (> 10 c	9 (18%)					
Elevated ES	15 (30%)					
Extranodal i	· · · · ·					
Spleen invol	14 (28%)					
Early stage f	6 (50%)					
	Early stage unfavorable, n (%					
IPS (advance						
0-1		5 (13%)				
2-3		23 (61%)				
4-7		10 (26%)				
Grade 3-4 non-Heme AEs						
CTCAE Ca	tegory	Grade 3-4				
rile neutropenia	5 (10%)					
onatremia		4 (8%) 4 (8%)				
соре	ope					
sis		3 (6%)				
niting		1 (2%)				
h	1 (2%)					
er respiratory infection		1 (2%)				
junctivitis	1 (2%)					
onic obstruction	1 (2%)					
on abscess	1 (2%)					
ophosphatemia	1 (2%)					
mmune-related adverse effects						
nt Any grade	Grade 1 Gra	ade 2 Grade 3				

nt	Any grade	Grade 1	Grade 2	Grade 3	Grade 4
	29 (58%)	23 (46%)	3 (6%)	2 (4%)	1 (2%)
	18 (36%)	16 (32%)	1 (2%)	-	1 (2%)
	16 (32%)	13 (26%)	2 (4%)	1 (2%)	-
า	5 (10%)	1 (2%)	4 (8%)	-	-
m	3 (6%)	1 (2%)	2 (4%)	_	-
ion	3 (6%)	1 (2%)	2 (4%)	-	-
	1 (2%)	-	1 (2%)	-	-
	1 (2%)	-	1 (2%)	-	-
	1 (2%)	-	-	1 (2%)	-

## Long-term efficacy: Median Follow-up 3.1 years



# PhasED-Seq Analysis

All pat Advar

- Baseline ctDNA was detectable in 11/12 (92%) of early-stage patients, and 36/37 (97%) of advanced stage patients.
- Only patient in the study to relapse had a negative interim PET but did not clear ctDNA at any timepoint.
- Two additional patients had minute amounts of ctDNA detectable at the end of treatment after levels dropped >20,000 fold when compared to baseline.
- Both patients have not relapsed 3 years and 14 months after completion of treatment, respectively.
- Some timepoints did not have plasma samples available, and no samples were drawn for sequencing during follow-up
- Non-invasive genotyping using ctDNA available in 25 patients
- 6 patients with H2 genotype (24%), only advanced stage
- Remaining patients, including all early-stage patients, were classified as H1 (76%) • No relapses among H1 patients

## Conclusion

- Pembrolizumab + AVD continues to demonstrate durable efficacy in previously untreated CHL.
- No patient who has cleared ctDNA as measured by PhasED-Seq has relapsed to date despite high rates of interim-PET and EOT PET positivity.
- The role of PhasED-Seq will be further examined in the upcoming Phase 2 MRD-adapted PRECISE-HL study in untreated advanced stage CHL.

## Acknowledgements

#### uMRD by Timepoint

	C2D1 uMRD	C3D1 uMRD	EOT uMRD
atients	29/37 (78%)	36/43 (84%)	39/42 (93%)
nced stage	22/29 (76%)	29/35 (83%)	31/34 (91%)

Lymphoma Research Foundation Career Development Award, Clinical staff/RNs/PATIENTS, Philanthropic donations, Richard Hotes Foundation. Supported in part with drug supply from Investigator-Initiated Studies Program of Merck Sharp & Dohme LLC. The opinions expressed in this paper are those of the authors and do not necessarily represent those of Merck Sharp & Dohme LLC.

# UWMedicine