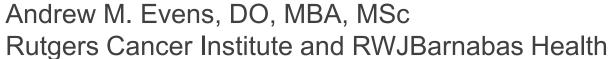
22nd INTERNATIONAL ULTMANN CHICAGO LYMPHOMA SYMPOSIUM

APRIL 4 - 5, 2025

WESTIN CHICAGO RIVER NORTH # I U C L S 2 0 2 5





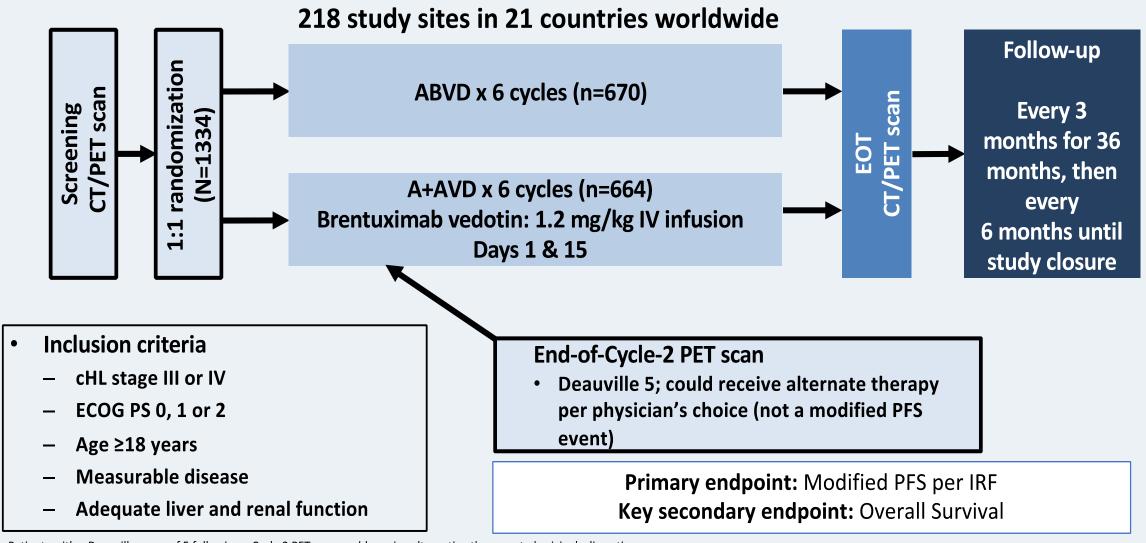




Disclosures

Andrew Evens, DO, MBA, MSc serves on the research advisory board for Pfizer, Genentech, CRISPR Therapeutics, Novartis, Pharmacyclics, and Incyte

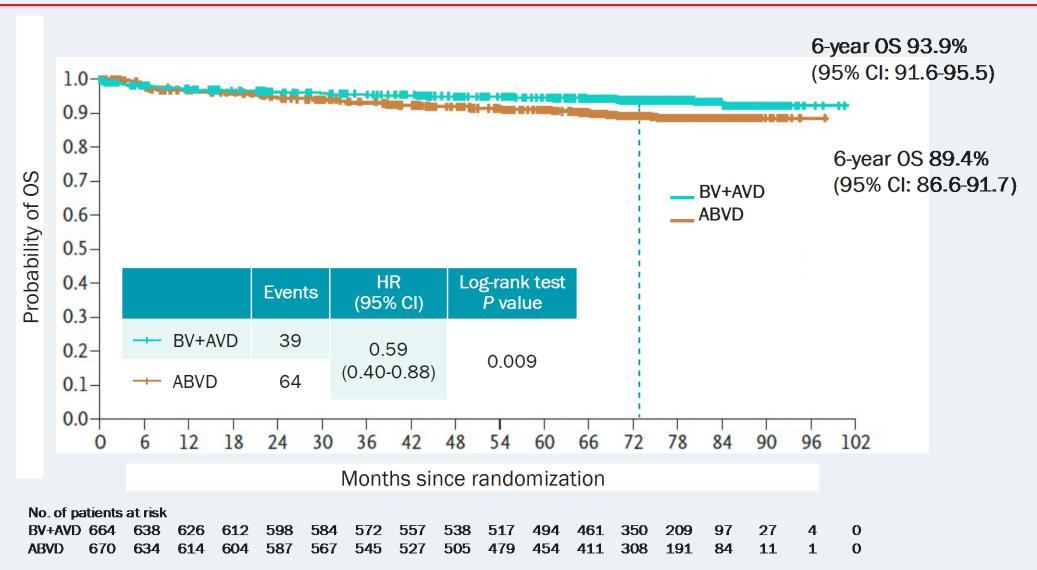
ECHELON-1: A+AVD vs ABVD in Advanced cHL



Patients with a Deauville score of 5 following a Cycle 2 PET scan could receive alternative therapy at physician's discretion.

Modified PFS: Progression, death from any cause, or receipt of additional anticancer therapy for patients not in CR after completion of frontline therapy.

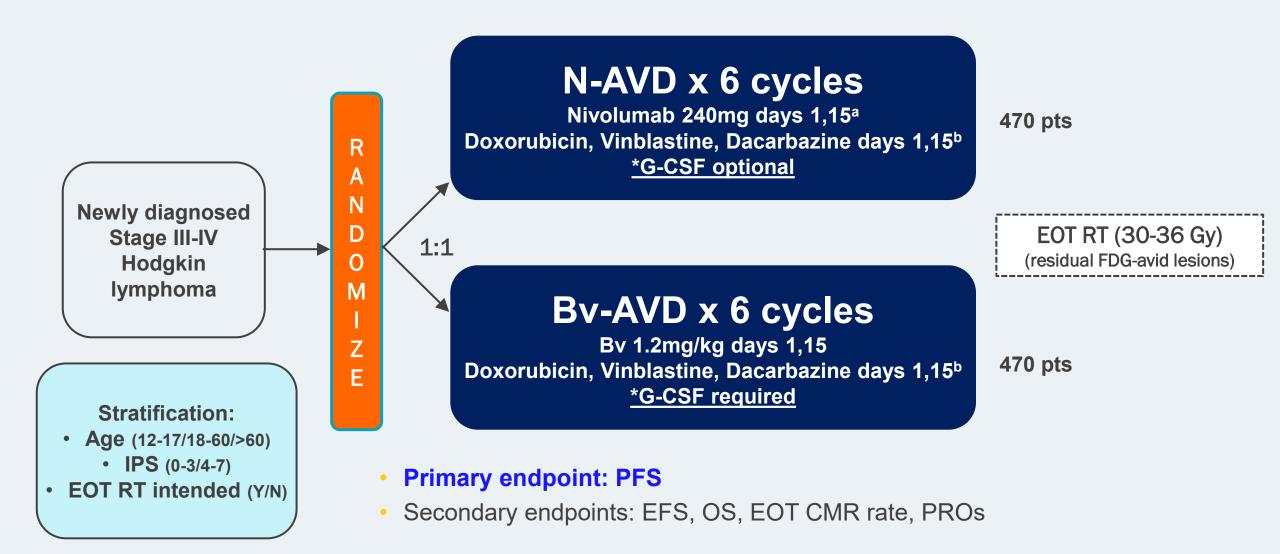
ECHELON-1: OS per Investigator at 6-Year Follow-Up



No Prior Overall Survival Advantage of Intensified Therapy Compared With ABVD in Advanced-stage HL

2003	ABVD vs. MOPP/ABV	Duggan (Intergroup)
2003	ABVD vs. ABVD/ASCT	Federico
2004	ABVD vs. COPP/ABV/IEMP vs. COPP/ABVD	GHSG
2005	ABVD vs. Stanford V vs. MOPPEBCAD	Gobbi
2005	ABVD vs. ChIVPP/EVA vs. alternating EVA, ChIVPP	Johnson
2006	ABVD vs. MOPP/ABV vs. ABVPP	GELA
2009	ABVD vs. Stanford V	UK
2010	ABVD vs. BEACOPP std x 4 + RT	Milan
2011	ABVD vs. Stanford V vs. MOPPEBCAD	Chiesesi
2011	ABVD vs. BEACOPP esc x 4 vs. BEACOPP std x 4	Milan
2012	ABVD vs. BEACOPP esc 6 vs 8	GHSG
2013	ABVD vs. Stanford V vs. BEACOPP-14	US Intergroup
2014	ABVD vs. BEACOPP 4/4	Mounier (LYSA)
2016	ABVD vs. BEACOPP 4/2 vs. COPP/EBV/CAD	Merli
2016	ABVD vs. BEACOPP 4 esc/4 std	Carde (EORTC)
2016	ABVD vs. AVD (PET2 negative)	Johnson

S1826 Study Design



^a Nivolumab 3mg/kg for ages ≤ 17, max 240mg

^b Conventional doses of AVD: Stephens DM et al Blood 2019, Ansell SM et al NEJM 2022

Acknowledgments

Patients, families, caregivers, research teams

Funding provided by: National Cancer Institute of the National Institutes of Health U10CA180888,U10CA180819, U10CA180820, U10CA180821, U10CA180863, U10CA180886 and Bristol-Myers Squibb, Bv provided by Seagen (Canada only)











The world's childhood cancer experts





S1826 Baseline Characteristics

Baseline characteristics	N-AVD n=487 N (%)	Bv-AVD n=483 N (%)
Age, median (range) 12-17 years 18-60 years ≥ 61 years	27 (12-83) 118 (24%) 321 (66%) 48 (10%)	26 (12-81) 118 (24%) 318 (66%) 47 (10%)
Female Sex	216 (44%)	210 (43%)
Race White Black Asian Other/Unknown	372 (76%) 58 (12%) 11 (2%) 46 (9%)	361 (75%) 56 (12%) 17 (4%) 49 (10%)
Hispanic	66 (14%)	58 (<mark>12%)</mark>

Baseline characteristics	N-AVD n=487 N (%)	Bv-AVD n=483 N (%)
Stage		
III	185 (38%)	168 (35%)
IV	302 (62%)	315 (65%)
B symptoms present	288 (59%)	273 (57%)
IPS Score		
0-3	332 (68%)	328 (68%)
4-7	155 (32%)	155 (32%)
Bulky disease > 10cm	156 (32%)	127 (26%)
HIV+	11 (2%)	5 (1%)

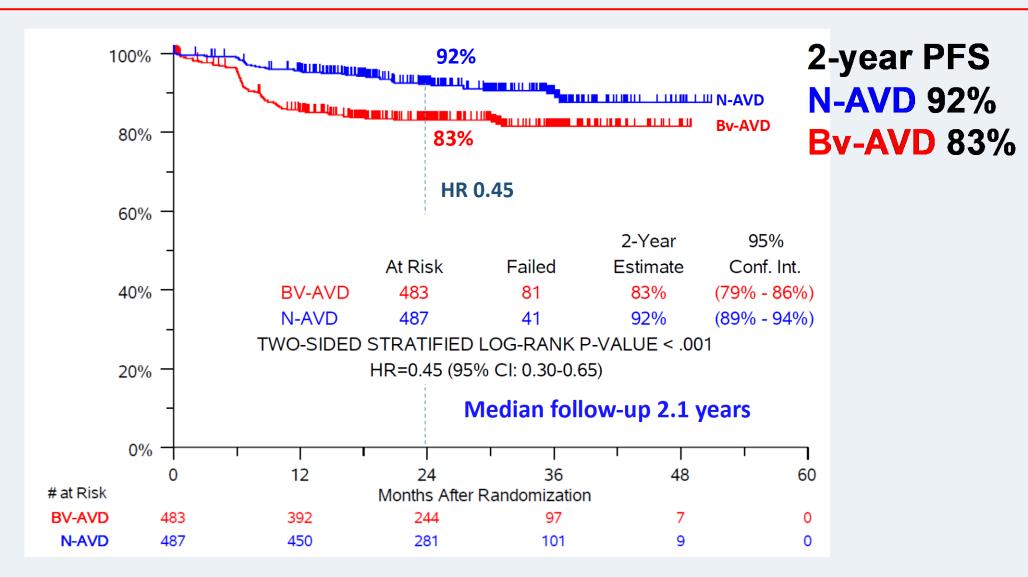
Representative study, inclusive of high-risk pts

N-AVD largely better tolerated than BV-AVD

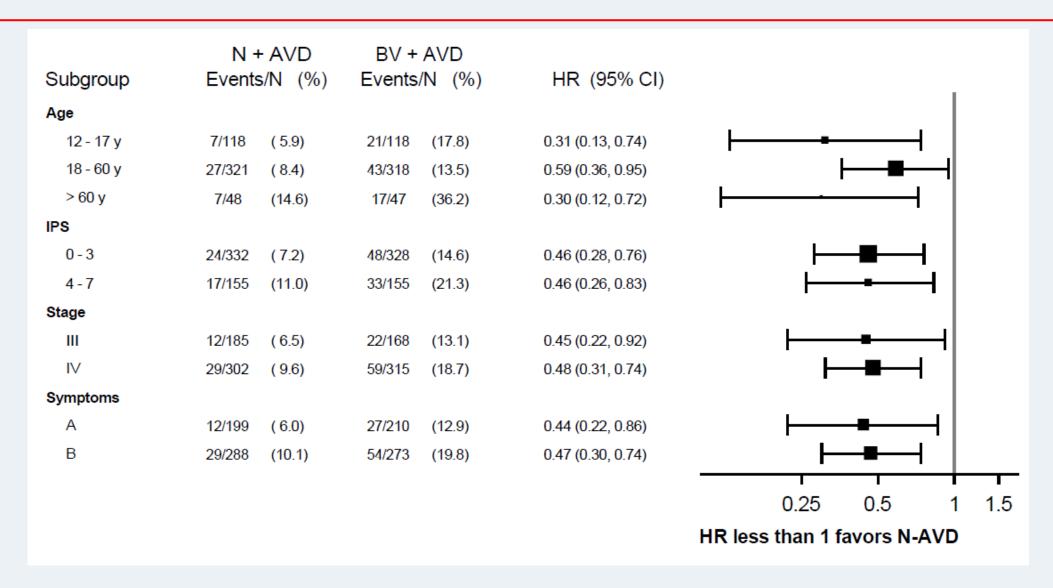
	Received G-CSF	Gr≥3 neutropenia	Febrile neutropenia	Gr ≥ 3 infections, infestations	Sepsis	Bone pain
N-AVD (n = 482)	56%	48%	6%	5%	2 %	8%
BV-AVD (n = 476)	97%	26%	7%	7%	3%	20%

	Peripheral sensory Neuropathy All Gr/Gr 2+	Peripheral motor neuropathy All Gr/Gr 2+	Thyroid dysfunction	ALT increased	Pneumonitis	Colitis
N-AVD (n = 482)	29%/8%	4%/1%	10%	33%	2%	1%
BV-AVD (n = 476)	56%/3 2 %	7%/5%	1%	42%	3%	1%

PFS benefit of N-AVD sustained with 2y follow-up



PFS benefit consistent across all subgroups at 2 years



S1826 Update Conclusions

PFS benefit with N-AVD over Bv-AVD in advanced stage cHL sustained at 2 years of FU

PFS benefit consistent across subgroups

N-AVD improved EFS versus Bv-AVD

N-AVD was better tolerated than Bv-AVD

Fewer treatment discontinuations

Less neuropathy, no increased infections, few immune-related adverse events

No new toxicity signals observed

< 1% of patients received consolidative RT

Follow-up ongoing to assess long-term safety, OS, and PROs Key step towards harmonizing pediatric and adult therapy of cHL

N-AVD is a new standard therapy for advanced stage cHL

S1826 vs BrECADD: Differences in study population and design

	S1826: Nivo-AVD	HD21: BrECADD
Patient Characteristics	Ages 12-83 years (median 31 years; 10% ≥60 years)	Ages 18-60 years (median 27 years)
Patient Characteristics	Black race 12%; HIV+ 2%	Black race 0%; HIV+ 0%
Stage	III-IV (62% stage IV)	IIB-IV (16% stage II; 45% stage IV)
PET-based	No	Yes
Treatment duration	24 weeks	12 weeks PET-2 negative (two-thirds); 18 weeks PET-2 positive (one-third)
Use of radiotherapy	<1%	14%

Tolerability Much Better with Nivo-AVD (and Survival Similar)

	S1826: Nivo-AVD	HD21: BrECADD
HRQL studies done	Yes	Yes
Key heme toxicities (grade 3+)	anemia 6%; thrombocytopenia 2%	anemia 30%; thrombocytopenia 55%
Febrile neutropenia (FN), Infection/sepsis (grade 3+)	FN 2% (GCSF not mandatory); infection/sepsis 2%	FN 28% (mandatory GCSF); infection/sepsis 20%
Sensory neuropathy (grade 2+)	9%	16%
Survival	2-year PFS and OS: 92% and 99%, respectively	4-year PFS and OS: 94% and 99%, respectively

SOC for Advanced-Stage HL in 2025

- Most adult advanced-stage HL patients ages 12-60 years
 - -Nivo-AVD
 - -?? exceptions
 - Active auto-immune disease
 - Previous anthracycline (BrECADD: 160 mg/m2 for PET-2-negative (240 mg/m2 for PET-2-positive disease) vs 300 mg/m2 for N-AVD)
- What about older patients (or significant co-morbidities)
 - -S1826 (vs sequential Bv-AVD-Bv)!
- Will we be able to individualize treatment at the patient level in future (at least: pros/cons across varied choices)?

The HoLISTIC Consortium

- In 2018, Drs. Parsons and Evens formed an international consortium, HoLISTIC (Hodgkin Lymphoma International STudy for Individual <u>Care</u>)
- 80+ members pediatric & adult hematology, radiation, epidemiology, imaging, biology, statistics/modeling, and patient advocates & societies
- Comprehensive individual patient data (IPD) on >30,000 HL patients from 25 recent, international phase III clinical trials (untreated early and advanced stage HL) and 6 major cancer registries
- Goal: enhance clinical decision making given unique individual patient and disease factors, and alternative treatment options
 - unify and harness worldwide, multi-source data to define early HL outcomes and non-cancer post-acute & late effects for individual pts

Journal of Clinical Oncology®

The Advanced-Stage Hodgkin Lymphoma **International Prognostic Index: Development and** Validation of a Clinical Prediction Model From the HoLISTIC Consortium Angie Mae Rodday, PhD, MS¹; Susan K. Parsons, MD, MRP¹; Jenica N. Upshaw, MD, MSc^{1,8}; Jenathan W. Friedberg, MD⁹; Andrea Gallamini, MD⁹; Biran K. Link, MD⁹; Brica Nawkes, MBBS, DMedSc⁹; David Hodeson, MD⁹; Peter Johnson, MD⁹; Brian K. Link, MD⁹; Eric Mou, MD⁹;

PURPOSE The International Prognostic Score (IPS) has been used in classic Hodgkin lymphoma (cHL) for 25 years. However, analyses have documented suboptimal performance of the IPS among contemporarily treated patients. Harnessing multisource individual patient data from the Hodgkin Lymphoma International Study for Individual Care consortium, we developed and validated a modern clinical prediction model

Kerry J. Savago, MD, MSc⁶; Pier Luigi Zinzani, MD, PhD¹⁶; Matthew Maurer, DMSc, MS¹¹; and Andrew M. Evens, DO, MBA, MSc¹

Prognosis Or Diagnosis guidelines was performed on 4,022 patients with newly diagnosed advanced-stage adult cHL from eight international phase III clinical trials, conducted from 1996 to 2014. External validation was performed on 1.431 contemporaneously treated natients from four real-world cHI registries. To consider association over a full range of continuous variables, we evaluated piecewise linear splines for notential nonlinear

predictor variables included age, sex, stage, bulk, absolute lymphocyte count, hemoglobin, and albumin, with slight variation for PFS versus OS. Moreover, age and absolute lymphocyte count yielded nonlinear relationships with outcomes. Optimism-corrected c-statistics in the development model for 5-year PES and OS were 0.590. and 0.720, respectively. There was good discrimination and calibration in external validation and consistent performance in internal-external validation. Compared with the IPS, there was superior discrimination for OS and enhanced calibration for PFS and OS.

with advanced-stage cHL. Furthermore, we identified several novel nonlinear relationships and improved the prediction of patient outcomes. An online calculator was created for individualized point-of-care use

Classic Hodgkin lymphoma (cHL) is a B-cell malignancy that occurs predominantly in younger adults and is generally associated with favorable disease outcomes.1 However, there is no single consensus-based or individualized treatment approach globally beyond use of multiagent chemotherapy with curative intent.

been the International Prognostic Score (IPS), pub- about model performance (discrimination and caliadvanced-stage disease. While used over the past were not externally validated.

Journal of Clinical Oncology

25 years, this score requires updating for several rea sons. First, management strategies and outcomes for cHL have improved over the past 10-20 years. Recent studies suggested poor calibration of the IPS7 among contemporarily treated patients. 4.5 Second. clinical prediction modeling techniques have grown in sophistication since the IPS7 was developed. For example, the IPS7 relied on dichotomous categorization of The most widely used prognostication tool in cHL has patient and disease factors with limited information lished in 1998 by the German Hodgkin Study Group.² bration). Furthermore, the IPS7 was developed based The IPS identified seven clinical factors (IPS7) prog- on complete case analyses, but missing data were nostic for survival at 5 years in newly diagnosed frequent, requiring the use of imputation strategies that

The Advanced-Stage Hodgkin Lymphoma International Prognostic Index (A-HIPI): Development and Validation of a Clinical Prediction Model from the HoLISTIC Consortium

ascopubs.org/doi/full/10.1200/JCO.22.02473





Online Calculator for Point-of-care Use (QxMD)



All Calculators

Become a Contributor

≡

18 years
3.8 g/dL
no bulk
Female
10.5 g/dL
1 10³/uL
Stage III

Results

Progression Free Survival at 5 years

74.62%

Overall Survival at 5 years

94.85%



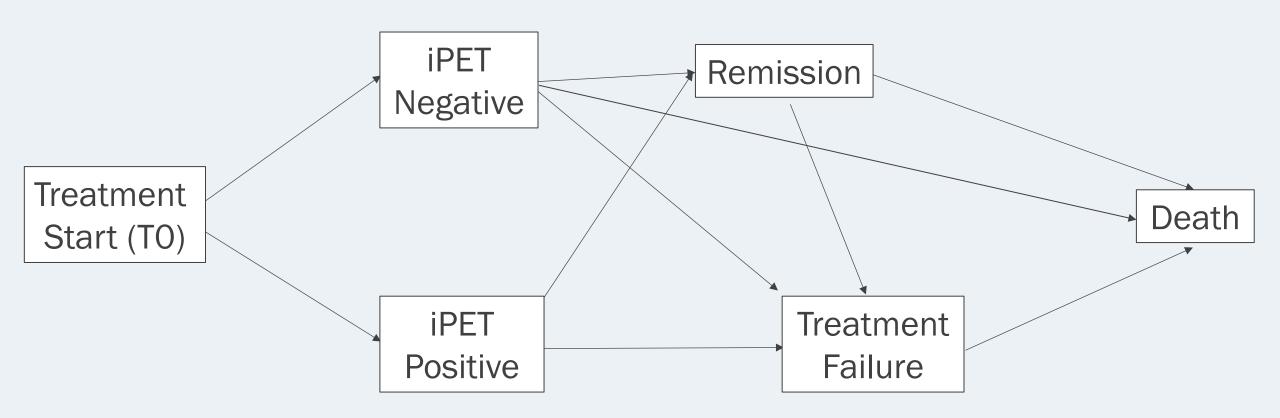
A-HIPI: identification of risk groups and creation of an online tool



Maurer M et al. Blood Advances, 2025

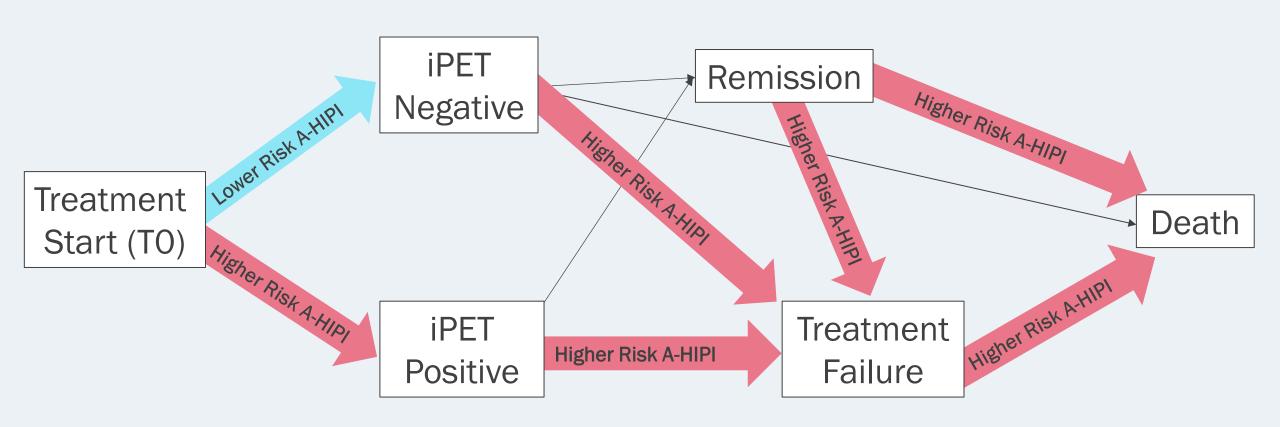
Chen R and Gordon LI. Blood **Advances** (commentary)

What is impact of baseline A-HIPI across disease course?



Highlighting relationships with p<0.1

Baseline A-HIPI is prognostic across disease course



Highlighting relationships with p<0.1

Nivo-AVD
Nivo-AVD Nivo-AVD Nivo-AVD Nivo-AVD Nivo-AVD Nivo-AVD Nivo-AVD Nivo-AVD

Thank you!