

BRENTUXIMAB VEDOTIN, NIVOLUMAB, DOXORUBICIN, AND DACARBAZINE (AN+AD) FOR ADVANCED STAGE CLASSIC HODGKIN LYMPHOMA: PRELIMINARY RESULTS FROM THE SINGLE-ARM PHASE 2 STUDY (SGN35-027 PART B)

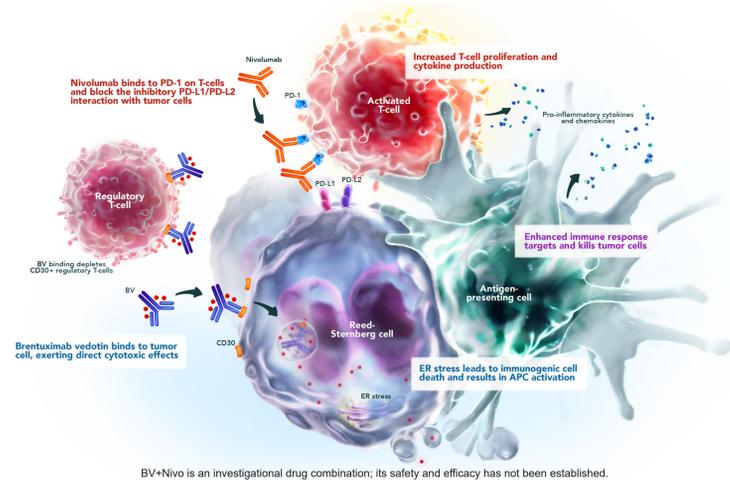
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Background

- BV and nivolumab are both individually active and well tolerated in patients with cHL with distinct and complementary mechanisms of action¹⁻⁴
 - BV is an antibody-drug conjugate directed to CD30, a protein expressed on the Reed-Sternberg cells, and has been shown to have additional mechanisms of action, including the induction of immunogenic cell death.
 - Nivolumab restores antitumor immunity by blocking the PD-1 receptor on activated T-cells, increasing T-cell proliferation and cytokine production.⁵
- The combination of BV plus nivolumab has shown promising activity in first salvage (ORR 85%; CR 67%)⁶ and as 1L therapy in older adults (ORR 95%; CR 79%).⁷
- Safety profiles were consistent with that seen with each agent as a monotherapy
- BV+AD in non-bulky Stage I or II cHL resulted in a CR rate of 97% at EOT, as well as a promising 4 year PFS estimate of 91%.⁸
- Importantly, there were no cases of ≥Grade 3 peripheral neuropathy and only 9% were Grade 2.
- Herein, we present initial safety and efficacy results for frontline treatment with AN+AD in patients with 1L advanced cHL.

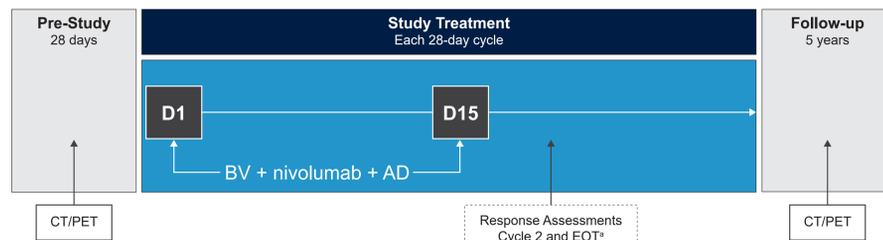
Rationale for BV+Nivo Combination in cHL Proposed Mechanism of Action



Methods

- SGN35-027 (NCT03646123) is an open-label, multiple part, multicenter, phase 2 clinical trial.
- Part B enrolled pts with Ann Arbor Stage III/IV cHL, or Stage II with bulky mediastinal disease (≥10 cm).
- Patients received up to 6 cycles of AN+AD
 - BV 1.2 mg/kg, nivolumab 240 mg, doxorubicin 25 mg/m², and dacarbazine 375 mg/m²
- Primary endpoint is CR rate at EOT.
- Key secondary endpoints include safety, tolerability, ORR, and PFS.
- Disease response was assessed by Lugano 2014⁹ and LYRIC¹⁰ at Cycle 2 and EOT.

Study Design - Part B



a Response assessments includes PET and diagnostic-quality CT scan on Day 25-28 of Cycle 2, and at EOT.

Results

Demographics

- The majority of patients were younger (median age: 35 years) with Stage III/IV disease (69%, Stage IV 51%).
- Of the 58 patients enrolled, 57 received at least one dose of study treatment.
- Patients received a median of 12 doses of BV (range: 1–12) and nivolumab (range: 1–12)

Demographics	Part B (N=57) n (%)
Age, median (range)	35.0 (19, 78)
Age range, n (%)	
< 65 years	54 (95)
≥65 years	3 (5)
Race, n (%)	
White	50 (88)
Black or African American	2 (4)
Asian	1 (2)
Multiple or Not Reported	4 (7)

a Bulky disease was defined as a mediastinal mass ≥10 cm

Demographics	Part B (N=57) n (%)
Disease stage at diagnosis, n (%)	
II	18 (32)
Bulky ^a	17 (30)
III	10 (18)
IV	29 (51)
Extranodal disease present, n (%)	27 (47)
International Prognostic Score, n (%)	
0-1	13 (23)
2-3	32 (57)
4-7	12 (21)

Safety

Treatment-related Adverse Events (>10%)	Part B (N=57) n (%)
Patients with any event	56 (98)
Nausea	37 (65)
Fatigue	26 (46)
Peripheral sensory neuropathy	22 (39)
Alopecia	20 (35)
Diarrhea	17 (30)
Constipation	14 (25)
Headache	10 (18)
Stomatitis	9 (16)
Vomiting	9 (16)
Alanine aminotransferase increased	8 (14)
Bone pain	7 (12)
Decreased appetite	7 (12)
Myalgia	7 (12)
Rash maculo-papular	7 (12)
Aspartate aminotransferase increased	6 (11)
Dyspepsia	6 (11)
Neutropenia	6 (11)

- Peripheral neuropathy was primarily low grade (4% ≥Grade 3), and no patients discontinued due to PN
- No febrile neutropenia was reported and there were no Grade 5 AEs

Treatment-Related Grade 3 or Higher Adverse Events by Preferred Term (>2%)	Part B (N=57) n (%)
Patients with any event	30 (53)
Alanine aminotransferase increased	5 (9)
Neutropenia	5 (9)
Colitis	3 (5)
Diarrhea	3 (5)
Anaemia	2 (4)
COVID-19 pneumonia	2 (4)
Fatigue	2 (4)
Hypokalaemia	2 (4)
Neutrophil count decreased	2 (4)
Peripheral sensory neuropathy	2 (4)
Pneumonitis	2 (4)
Rash maculo-papular	2 (4)
Sepsis	2 (4)

Safety: Immune Mediated AEs and SAEs

- Immune-mediated AEs were observed in 18 patients (32%)
 - All cases of pneumonitis resolved fully
 - Eight patients with IMAEs received treatment with a steroid
 - One patient experienced autoimmune hepatitis which resulted in discontinuation of nivolumab
- Eight patients experienced treatment-related SAEs
 - One patient experienced hypophysitis and aseptic meningitis and discontinued treatment after Cycle 1

Treatment-Related Immune-Mediated Adverse Events (>2%)	Part B (N=57) n (%)
Patients with any event	18 (32)
Hypothyroidism	4 (7)
Alanine aminotransferase increased	2 (4)
Aspartate aminotransferase increased	2 (4)
Colitis	2 (4)
Dermatitis acneiform	2 (4)
Pneumonitis	2 (4)
Rash maculo-papular	2 (4)
Treatment-related Serious Adverse Event (>2%)	
Patients with any event	8 (14)
Pneumonitis	3 (5)
Pyrexia	2 (4)

Abbreviations

BV (brentuximab vedotin), AD (doxorubicin and dacarbazine), AEs (adverse events), AN+AD (BV, nivolumab, doxorubicin, and dacarbazine), APC (antigen presenting cell), AVI (avastin, bevacizumab, and dacarbazine), cHL (classical Hodgkin lymphoma), CI (confidence interval), CMR (complete metabolic response), COVID-19 (coronavirus 19), CR (complete response), CT (computed tomography), D (day), DDD (days cut-off), EOT (end of treatment), ER (endoplasmic reticulum), IMAE (immune-mediated adverse event), INV (investigator assessment), IR (intermittent response), LYRIC (Lymphoma Response to Immunomodulatory Therapy Criteria), NE (not evaluable), Nivo (nivolumab), ORR (overall response rate), PD (progression), PD-1 (programmed death 1), PD-L1 (programmed death ligand 1), PD-L2 (programmed death ligand 2), PET (positron emission tomography), PFS (progression free survival), PN (peripheral neuropathy), PR (partial response), pts (patients), R/R HL (relapsed/refractory Hodgkin lymphoma), SAEs (serious adverse events), SD (stable disease), SPD (sum of the products of the largest diameter), SUV (standardized uptake value), TEAEs (treatment-emergent adverse events)

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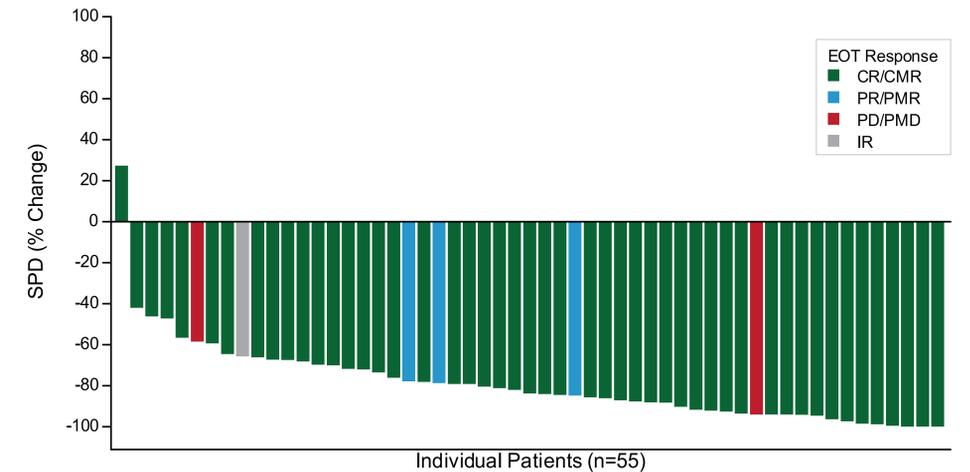
Summary of Initial Response Data at Cycle 2 and EOT

Overall Response at Cycle 2	Part B (N=57) n (%)
ORR (CR+PR)	55 (96)
95% CI ^a for objective response rate	(87.9, 99.6)
Complete response (CR)	42 (74)
95% CI ^a for CR rate	(60.3, 84.5)
Partial response (PR)	13 (23)
95% CI ^a for PR rate	(12.7, 35.8)
Stable disease (SD)	0
Progression (PD)	0
Indeterminate response (IR)	0
Not evaluable (NE)	2 (4)

Overall Response at EOT	Part B (N=57) n (%)
EOT assessment on or prior to data cutoff ^b	56 (98)
ORR (CR+PR)	52 (93)
95% CI ^a for objective response rate	(82.7, 98.0)
CR	49 (88)
95% CI ^a for CR rate	(75.9, 94.8)
PR	3 (5)
95% CI ^a for PR rate	(1.1, 14.9)
SD	0
PD	2 (4)
IR	1 (2)
NE ^c	1 (2)

a. One patient withdrew following C1. One patient did not have C2 evaluation until after C3 but did have the EOT assessment on schedule.
b. One patient had a CMR at EOT after data cutoff.
c. Patient withdrew following C1.

Waterfall Plot of Response to AN+AD at EOT (preliminary)



SPD % Change is calculated as the percent change from the baseline SPD to the SPD measured at EOT. 1 patient who achieved CR after data cutoff and 1 patient who discontinued AN+AD prior to EOT assessment are not included. Patient with PD and significant reduction in SPD had new lesions at EOT.

Conclusions

- These preliminary results show promising activity with AN+AD for patients with 1L advanced cHL, with an **ORR of 93%** and a **CR rate of 88%**.
- The use of two active, targeted agents with distinct and complementary MOAs in the 1L setting resulted in promising activity and was well-tolerated
 - The low rate of PN (including Grade 3) and the absence of febrile neutropenia compare favorably to other 1L regimens, including A+AVD
 - No patients discontinued due to PN
 - 3 of 4 patients who discontinued therapy due to AEs achieved a CR
- AN+AD may provide another active treatment option for patients with 1L advanced cHL. Follow-up is ongoing.
- Enrollment of patients with 1L early stage cHL (Stage I or II, without bulky mediastinal disease) is ongoing in Part C of this study of AN+AD.

Disclosures

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RR has consultancy for Bristol-Myers Squibb, Merck, Pharmacosmos, and Seagen Inc.; funding from Celis, Merck, Pharmacosmos, Seagen Inc., and Trillium. JF has consultancy for AstraZeneca, and Celgene; equity ownership in Abbvie; honoraria from Amgen, and Celgene; funding from Seagen Inc., and Abbvie; speaker's bureau; Amgen, and Celgene; equity ownership in Karyopharm, speaker's bureau for Amgen, AstraZeneca, Beigene, Bristol-Myers Squibb, Epizyme, Kura, Kymera, Morphosys, Roche/Genentech, Seagen, Vertex; speaker's bureau for Beigene, Seagen Inc., YL has funding from Seagen Inc. MR has no COI. RC has funding from Seagen Inc. TAF has honoraria from Amgen, and Seagen Inc.; employment from Texas Oncology; speaker's bureau for Abbvie, Amgen, and Jazz Pharma. AJC-J has funding from Seagen Inc. LH has employment from Seagen Inc.; equity ownership in Karyopharm, AstraZeneca, Beigene, Bristol-Myers Squibb, Pharmacosmos, and Sanofi. MI-CO has funding from Seagen Inc. 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