

# Brentuximab Vedotin with Chemotherapy for Patients with Previously Untreated, Stage III/IV Classical Hodgkin Lymphoma: 5-Year Update of the ECHELON-1 Study

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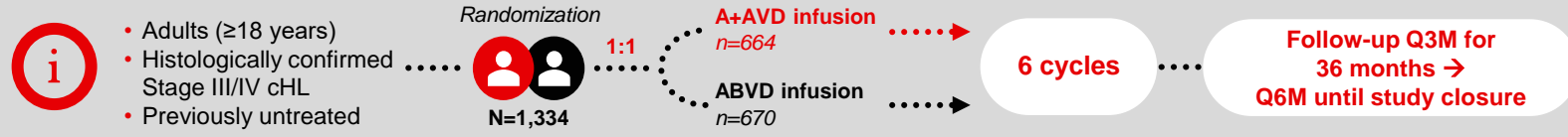
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## OBJECTIVE OF THIS ANALYSIS

We report 5-year PFS per investigator, a prespecified exploratory analysis, and safety results for patients in the ECHELON-1 study after a median follow-up of 60.9 months

For more information, click the figures or icons

## INVESTIGATION



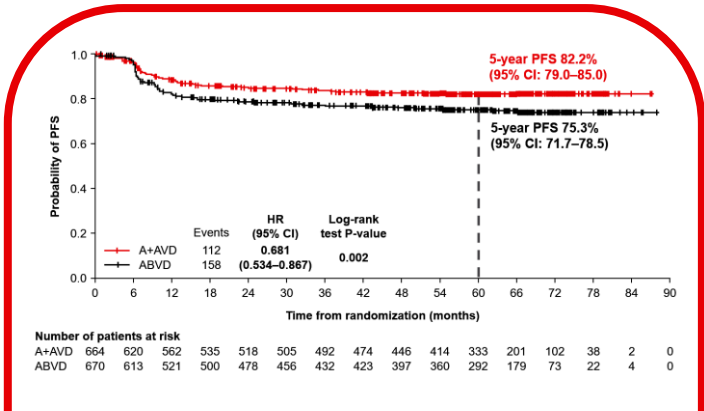
## Study Assessments

- Adults (≥18 years)
- Histologically confirmed Stage III/IV cHL
- Previously untreated

Background

Patient characteristics

### At 5 years PFS per investigator was significantly higher for A+AVD vs ABVD



For subgroup analyses click the icons below

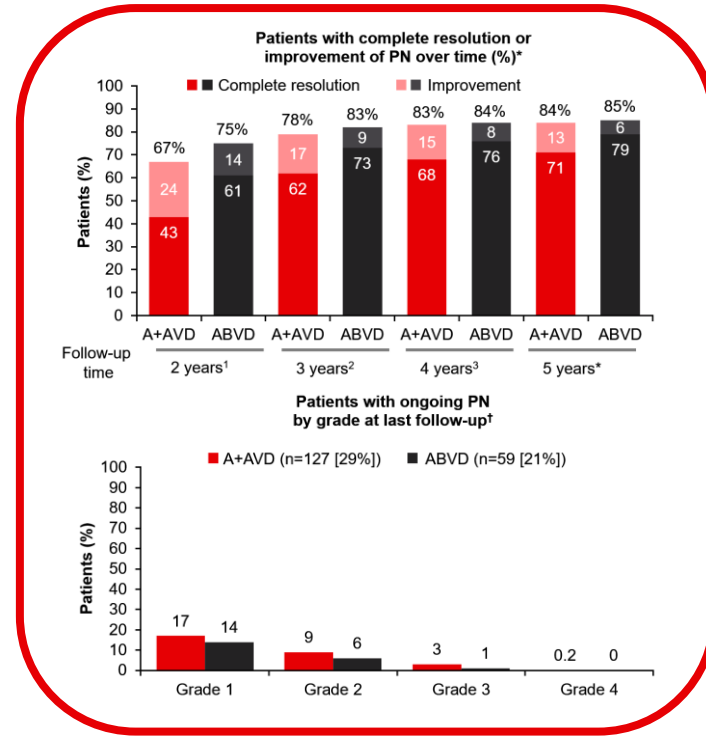
All subgroups

PET2 status  
+ -

Disease stage  
III IV

Insufficient events have occurred to trigger an OS analysis for A+AVD versus ABVD

### Most cases of PN had completely resolved or improved



### Low rate of secondary malignancies, no observed impact on pregnancy rate

- Secondary malignancies were reported in 48 patients.
  - 19 occurred in the A+AVD arm.
    - 9 hematological malignancies.
      - 2 cases of acute myeloid leukemia (patients aged 38 and 29 years).
      - 10 solid tumors.
    - 29 occurred in the ABVD arm.
      - 15 hematological malignancies.
        - 1 case of myelodysplastic syndrome (patient aged 71 years).
        - 1 case of acute myeloid leukemia (patient aged 74).
        - 14 solid tumors.
- 150 on-study pregnancies were reported by participants and their partners.

**On-study pregnancies in patients or their partners**

Arm	Partners of male patients	Female patients
A+AVD arm	50	39
ABVD arm	27	34

**Ongoing pregnancies or live births**

Arm	Pregnancies or live births (%)
A+AVD arm	82/89 (92%)
ABVD arm	62/61 (85%)

## CONCLUSIONS

With 5 years follow-up, **A+AVD** demonstrated a robust and durable PFS improvement versus ABVD, regardless of PET2 status, and a consistent safety profile

**A+AVD** should be considered a preferred treatment option for all patients with previously untreated advanced cHL



# Disclosures

- **DS:** Consulting role for Seattle Genetics, Inc., NY Lymphoma Rounds, Elsevier, and Karyopharm Therapeutics; research funding from Takeda; and membership of speaker's bureau for Imedex, Inc., Targeted Oncology, Takeda, and OncLive.
- **MDD:** Research Support for AbbVie, Acerta Pharma, Beigene, Bayer, Celgene, Celltrion, Gilead, Janssen, Mei-Pharma, Roche and Sandoz-Novartis; speakers' honoraria for Janssen, Roche, Servier and Takeda; scientific advisory board for AbbVie, Acerta, Janssen, Servier, Roche, and Takeda.
- **JMC:** Honoraria from Seattle Genetics, Inc., and Takeda
- **AI:** Consultancy for Janssen, Celgene, Takeda, Novartis, and Roche; research funding from Takeda, and Seattle Genetics; expenses from Novartis, Janssen, Pfizer, and Roche; consultancy and honoraria from Pfizer Pharmaceuticals Israel.
- **MP:** None.
- **ELM:** Consultancy for Roche, Novartis, Takeda, Janssen-Cilag, Amgen, Gilead, AbbVie, and Sanofi; speakers bureaus for Roche, Amgen, and Gilead.
- **TF:** Consultancy and speakers bureau for Seattle Genetics; consultancy, honoraria and speakers' bureaus for BMS/Celgene; honoraria and speakers bureaus for Takeda, KITE, AbbVie, Janssen, and Pharmacyclics; ad boards for AstraZeneca and Morphosis.
- **PS:** Consultancy and honoraria for Roche Poland and Takeda; honoraria from Sandoz and Morphosis.
- **KJS:** Consultancy for Merck, BMS, Seattle Genetics, Inc., Gilead, AstraZeneca, AbbVie, and Servier; research funding from Roche; honoraria from Merck, BMS, Seattle Genetics, Inc., Gilead, AstraZeneca, and AbbVie; steering committee for BeiGene.
- **NLB:** Consultancy for ADC Therapeutics, BTG, and Acerta; research funding from Autolus, BMS/Celgene, Forty Seven, Immune Design, Janssen, KITE, Merck, Millennium, Pharmacyclics, and Affimed Therapeutics; consultancy, advisory committees, and research funding from Pfizer; consultancy and research funding from Seattle Genetics and Roche/Genentech; advisory committees and research funding from Seattle Genetics.
- **JW:** Research funding from GSK; consultancy, honoraria, and research funding from Janssen and Takeda; consultancy, honoraria, travel support, and research funding from Roche; consultancy and honoraria from AbbVie, Amgen, BMS, Celgene, Gilead, and Servier.
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- **MH:** Consultancy, honoraria, and advisory committees for Roche, Genmab, and Takeda; research funding from Celgene, Genmab, Janssen, Novartis, Roche, and Takeda.
- **JM:** Consultancy, honoraria, and speakers bureaus for Kyowa; consultancy, honoraria, research funding, and speakers bureaus for Seattle Genetics; consultancy, research funding, and speakers bureaus for Pharmacyclics, Bayer, Kite, Janssen, and Juno/Celgene/BMS; consultancy and speakers bureaus for Beigene; consultancy for Pfizer, Alexion, Fosunkite, and Innovent; speakers bureaus for Acrotech/Aurobindo, Verastem, and AstraZeneca; research funding and speakers bureaus for Genentech/Roche; consultancy and speakers bureaus for AbbVie; research funding from Merck, Portola, Incyte, and Millennium.
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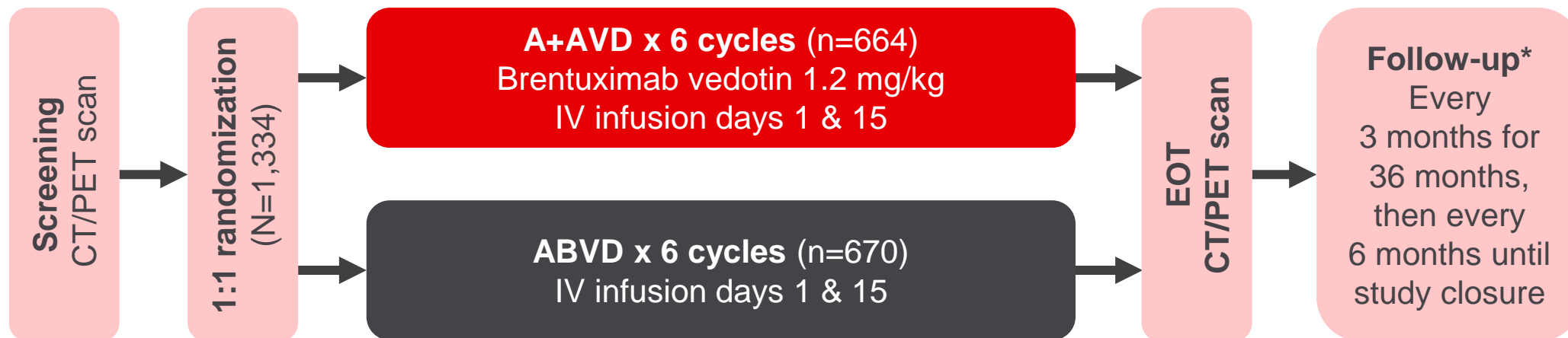
# Background

- Historically, nearly all relapses in patients with cHL occurred within the first 5 years.<sup>1</sup>
- In the primary analysis of the phase 3 ECHELON-1 study (NCT01712490), treatment with A+AVD was superior to treatment with ABVD for patients with previously untreated Stage III or IV cHL.<sup>2</sup>
  - 2-year modified PFS per IRF: A+AVD=82.1%, ABVD=77.2%; HR=0.77 (95% CI: 0.60–0.98; P=0.04).
- Analyses after 3- and 4-years' follow-up reported durable PFS per investigator with A+AVD versus ABVD in the ITT population that was consistent across most key patient subgroups, irrespective of interim PET scan status, disease stage, and baseline disease IPI.<sup>3,4</sup>
- We report updated efficacy and safety results for patients in the ECHELON-1 study after a median follow-up of 5 years, with safety data focusing on PN, secondary malignancies, and fertility.
  - These are exploratory analyses and p-values are unadjusted/descriptive.

A+AVD, brentuximab vedotin plus doxorubicin, vinblastine, and dacarbazine;  
ABVD, doxorubicin, bleomycin, vinblastine, and dacarbazine; cHL, classical Hodgkin lymphoma;  
CI, confidence interval; HR, hazard ratio; IPI, international prognostic index; IRF, independent review  
facility; ITT, intent-to-treat; PET, positron emission tomography; PFS, progression-free survival;  
PN, peripheral neuropathy.

1. Radford J, et al. *BMJ* 1997;314:343–6;
2. Connors JM, et al. *N Engl J Med* 2018;378:331–44;
3. Straus DJ, et al. *Blood* 2020;135:735–42;
4. Bartlett NL, et al. *Blood* 2019;134(Suppl. 1):4026.

# ECHELON-1 is an open-label, international, randomized, phase 3 trial comparing A+AVD vs ABVD in patients with advanced cHL



End-of-cycle-2 PET scan by IRF per Deauville 5-point scale

- PET (-): 1–3
- PET (+): 4–5

**Primary endpoint:** modified PFS per IRF

**Key secondary endpoints:** OS, rate of PET2-negativity, safety

**Long-term follow-up assessments**

- PFS per investigator in the ITT population was assessed at a median follow-up of approximately 5 years' follow-up.
- Patients are followed for survival until death or for a minimum of 10 years after enrollment of the last patient.
- Post-treatment follow-up for secondary malignancies and other safety events performed Q3M until 36 months after EOT, then Q6M.

\*Per protocol: During post-treatment follow-up, patients are to be followed for survival and disease status Q3M for 36 months and then Q6M until death/study closure. Investigators are requested to document response assessed from any scans performed either as standard of care or based on clinical judgement before initiation of any subsequent anticancer therapy for cHL. Investigators are also requested to document best response to any subsequent salvage anticancer therapies and any multimodality therapy that includes brentuximab vedotin as a component of the regimen.

CT, computed tomography; EOT, end of treatment; IV, intravenous; OS, overall survival; PET2, PET status after 2 cycles of treatment; Q3M, every 3 months; Q6M, every 6 months.

# Study assessments

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- CT and PET scans were conducted at screening and after completion of cycle 2.
- PET2 status was assessed using the Deauville criteria with central review.
  - PET2– was defined as a Deauville score of 1, 2, or 3.
  - Deauville score of 4 or 5 was considered PET2+.
- Initially, CT scans were performed Q3M for the first year of follow-up and then Q6M.
  - The study protocol was amended (July 16, 2018) approximately 15 months after the primary analysis, and CT scans are no longer required during the extended monitoring period.
- Safety was assessed using the Medical Dictionary for Regulatory Activities version 19.0 and National Cancer Institute Common Terminology Criteria for Adverse Events version 4.03.
- PN was monitored for resolution and improvement; events were investigator assessed and reported.
  - Improvement was defined as a decrease of at least one grade from worst grade with no higher grade thereafter.
- The incidence and outcomes of pregnancies among participants and their partners was assessed.

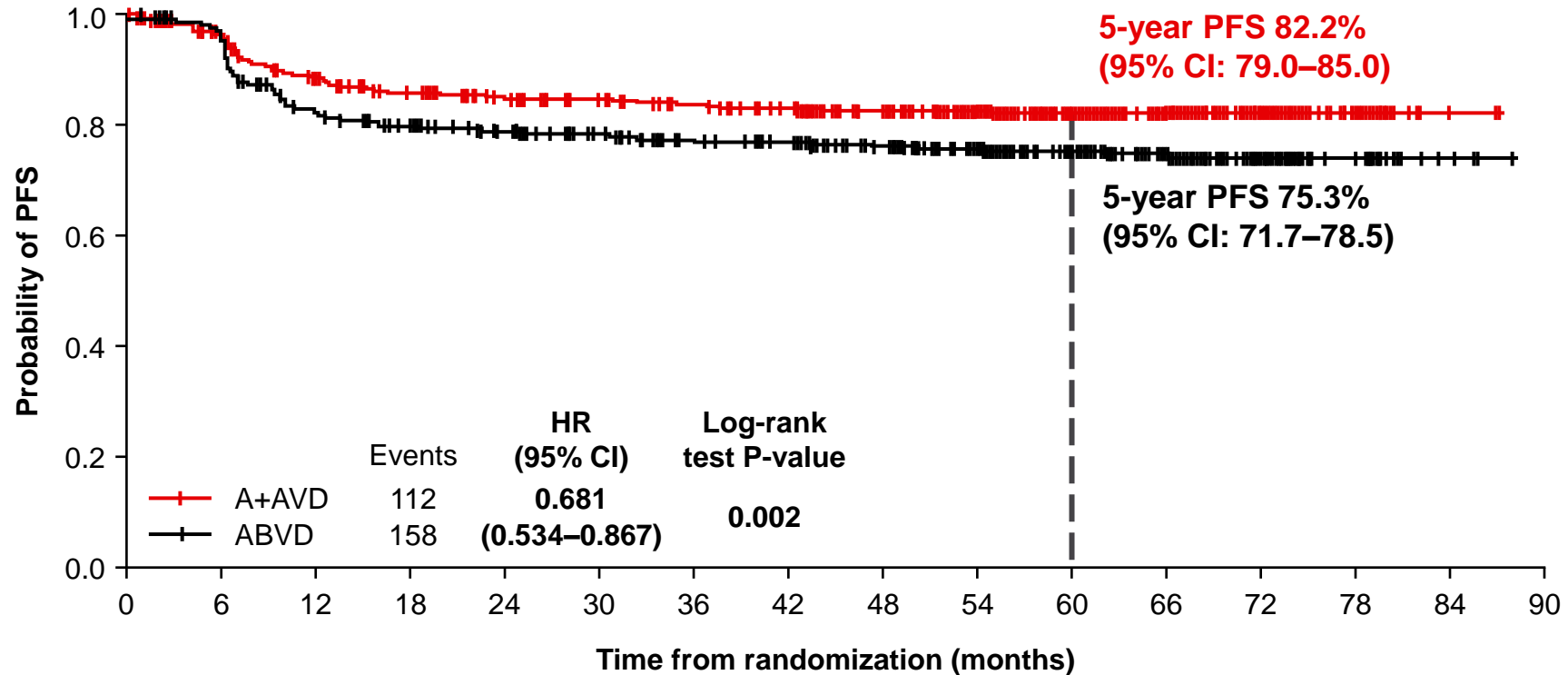
# Key patient characteristics

- Median age of patients was 36 years, and 57.8% of patients were aged <40 years.<sup>1</sup>
- Median follow-up time was 60.9 months (95% CI: 60.8–61.0).

Characteristic <sup>1</sup>	A+AVD n=664	ABVD n=670	Total N=1,334
Male sex, n (%)	378 (57)	398 (59)	776 (58)
Median age, years (range)	35 (18–82)	37 (18–83)	36 (18–83)
Aged <60 years, n (%)	580 (87)	568 (85)	1148 (86)
Aged ≥60 years, n (%)	84 (13)	102 (15)	186 (14)
International Prognostic Score, n (%)			
0 or 1	142 (21)	141 (21)	283 (21)
2 or 3	355 (53)	357 (53)	712 (53)
4 to 7	167 (25)	172 (26)	339 (25)
PET2 status, n (%)			
Positive	47 (7)	58 (9)	105 (8)
Negative	588 (89)	578 (86)	1166 (87)
Unknown/unavailable	29 (4)	34 (5)	63 (5)



# ECHELON-1: PFS per investigator at 5 years' follow-up\*



- As of the 5-year follow-up, the prespecified number of events required to trigger an OS analysis have not been reached
- OS was a prespecified key secondary endpoint

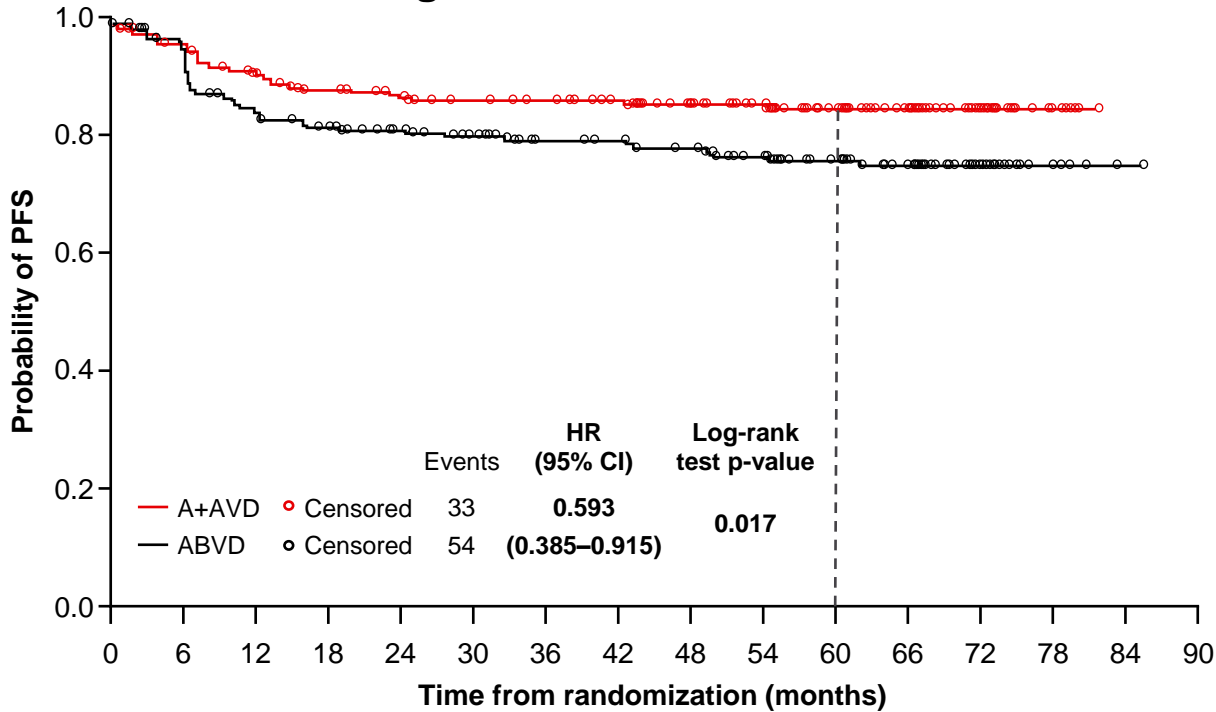
## Number of patients at risk

A+AVD	664	620	562	535	518	505	492	474	446	414	333	201	102	38	2	0
ABVD	670	613	521	500	478	456	432	423	397	360	292	179	73	22	4	0

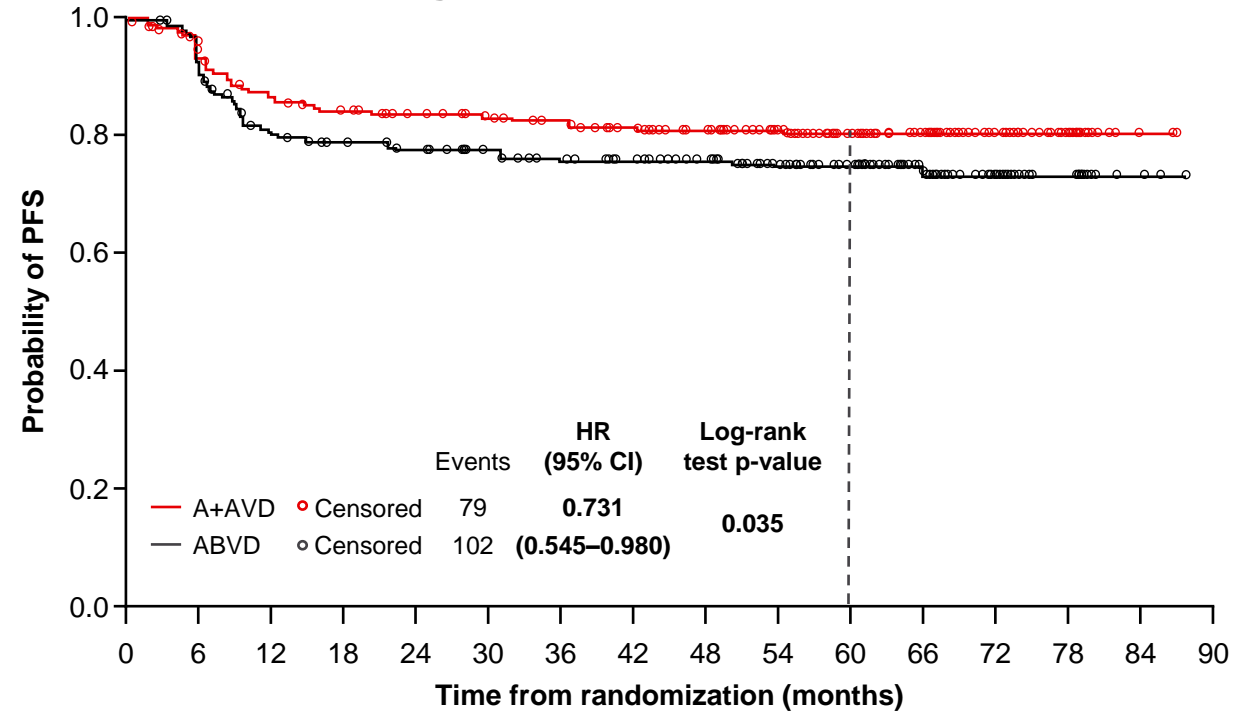
\*September 14, 2020 data cut-off.

# ECHELON-1: PFS per investigator at 5 years in patients with Stage III/IV disease at enrollment

### Stage III disease at enrollment



### Stage IV disease at enrollment



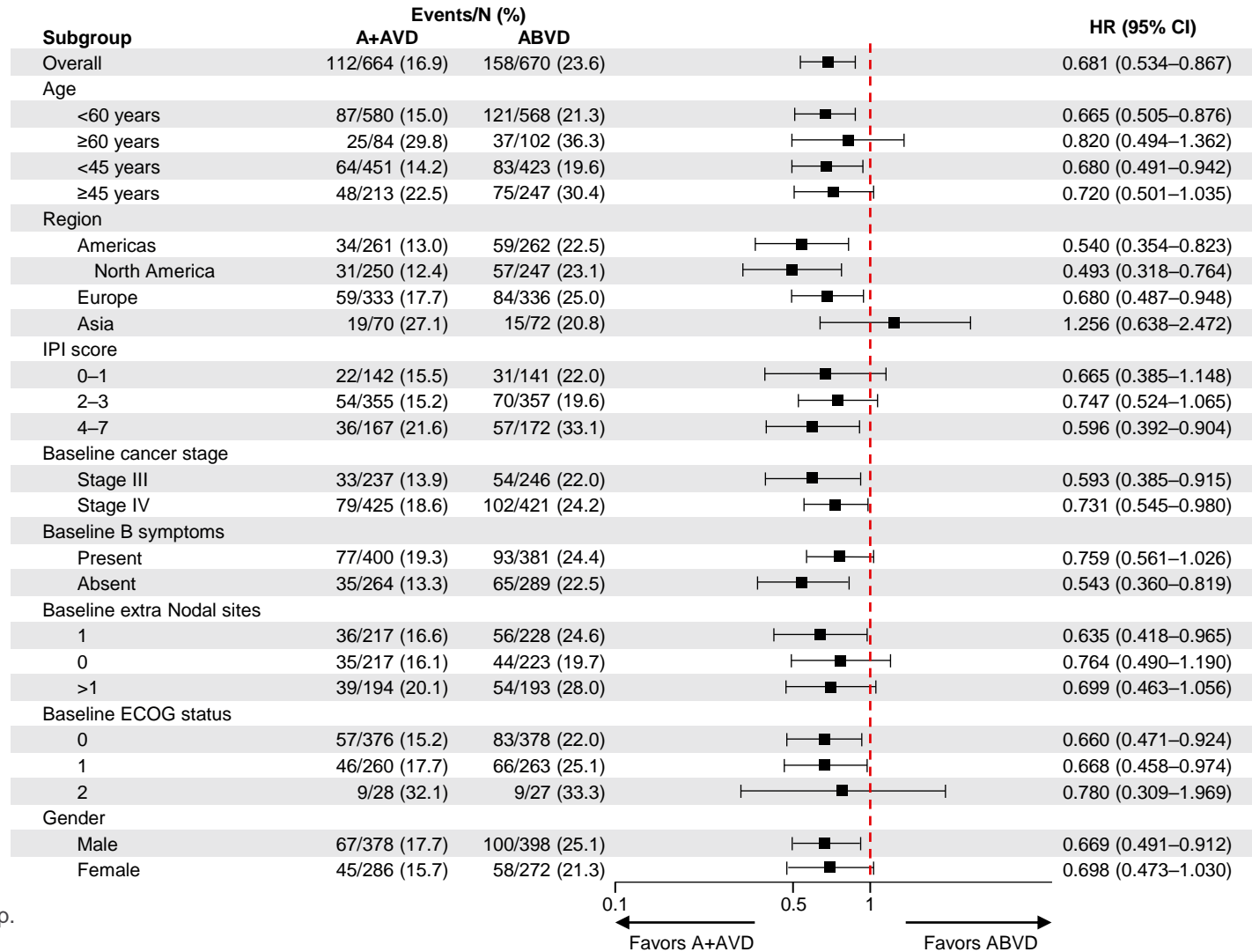
**Number of patients at risk**

A+AVD	237	222	207	196	189	182	179	173	161	150	127	74	39	14	0	0
ABVD	246	222	198	189	176	168	155	153	145	129	108	71	27	7	1	0

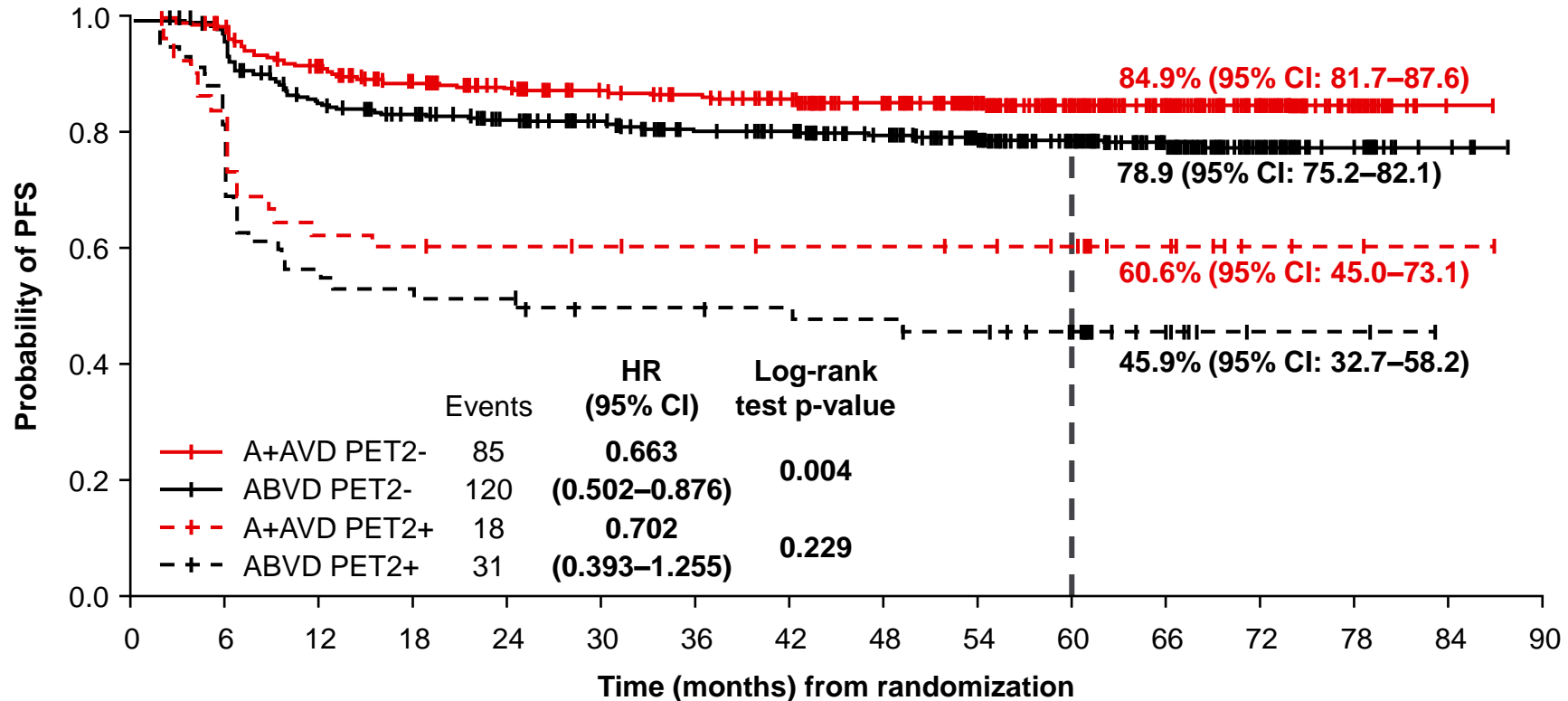
**Number of patients at risk**

A+AVD	425	398	355	339	329	323	313	301	285	264	206	127	63	24	2	0
ABVD	421	390	322	310	302	288	277	270	252	231	184	108	46	15	3	0

# ECHELON-1: PFS subgroup analysis



# ECHELON-1: 5-year PFS rates by PET2 status



## Number of patients at risk

A+AVD PET2-	588	572	526	500	484	472	460	444	417	386	312	189	98	36	1	0
ABVD PET2-	578	558	483	463	442	424	400	392	368	334	271	170	70	20	4	0
A+AVD PET2+	47	39	28	27	26	25	24	23	23	22	18	10	3	2	1	0
ABVD PET2+	58	46	32	31	30	26	26	25	24	22	18	8	2	2	0	0

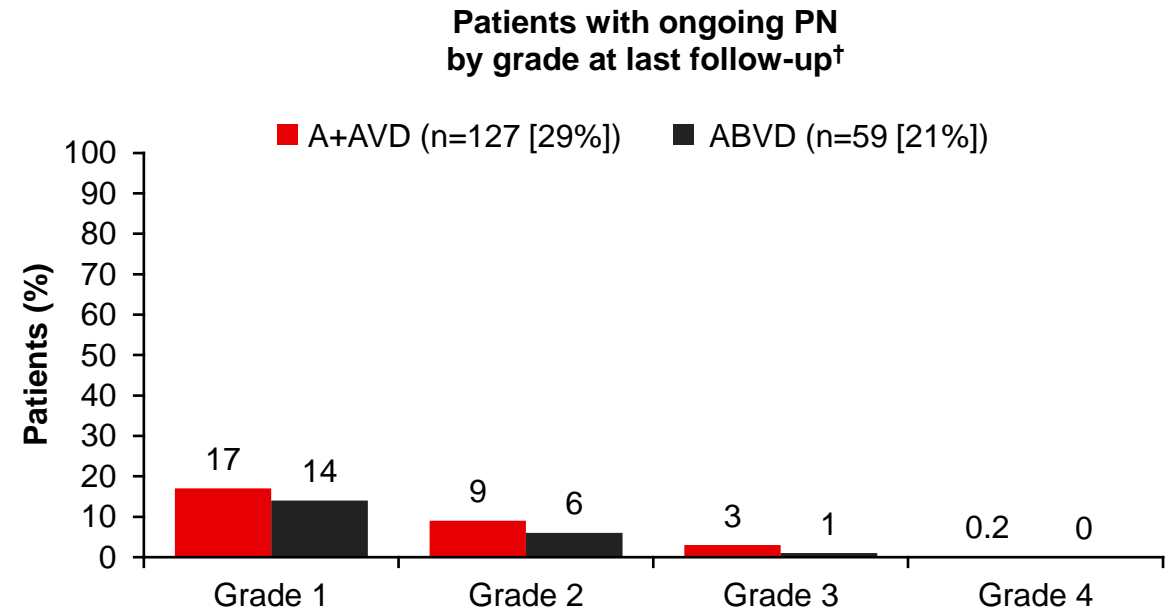
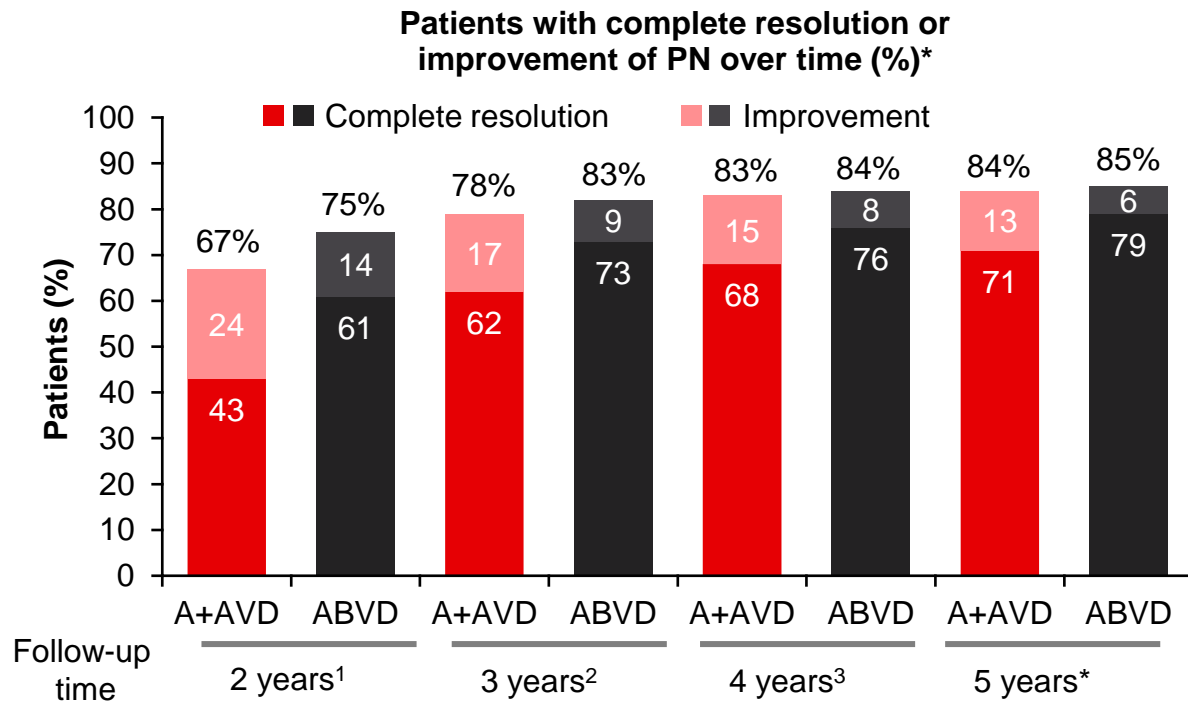
# ECHELON-1: 5-year PFS rates by PET2 status and age groups (<60 years vs ≥60 years)

Group	A+AVD 5-year PFS, % (95% CI)	ABVD 5-year PFS, % (95% CI)	HR (95% CI)	P*
<b>All patients</b>	82.2 (79.0–85.0), n=664	75.3 (71.7–78.5), n=670	0.681 (0.534–0.867)	0.002
<b>PET2–</b>	84.9 (81.7–87.6), n=588	78.9 (75.2–82.1), n=578	0.663 (0.502–0.876)	0.004
<b>PET2+</b>	60.6 (45.0–73.1), n=47	45.9 (32.7–58.2), n=58	0.702 (0.393–1.255)	0.229
<b>Aged &lt;60 years</b>	84.3 (81.0–87.1), n=580	77.8 (74.0–81.1), n=568	0.665 (0.505–0.876)	0.003
<b>PET2–</b>	86.6 (83.3–89.3), n=521	81.5 (77.7–84.7), n=493	0.675 (0.492–0.927)	0.014
<b>PET2+</b>	63.1 (46.4–75.9), n=42	49.3 (34.7–62.3), n=50	0.702 (0.370–1.331)	0.274
<b>Aged ≥60 years</b>	67.1 (55.1–76.5), n=84	61.6 (50.9–70.7), n=102	0.820 (0.494–1.362)	0.443
<b>PET2–</b>	71.9 (59.0–81.3), n=67	64.9 (53.5–74.2), n=85	0.720 (0.401–1.292)	0.268
<b>PET2+</b>	40.0 (5.2–75.3), n=5	25.0 (3.7–55.8), n=8	0.923 (0.229–3.715)	0.910

\*P-values were descriptive and were calculated by stratified log-rank test to compare PFS between the two treatment groups. HRs (A+AVD/ABVD) and 95% CIs were based on a stratified Cox's proportional hazard regression model with stratification with treatment as the explanatory variable in the model.

# ECHELON-1: PN resolution and improvement

- At the primary analysis, 442 and 286 patients in A+AVD and ABVD arms, respectively, had experienced PN.



Resolution was defined as event outcome of “resolved” or “resolved with sequelae”.  
 Improvement was defined as “improved by  $\geq 1$  grade from worst grade as of the latest assessment”.  
 \*Percentages rounded to nearest integer; †Median follow-up 236.9 weeks (range: 0–344).  
 Assessment of ongoing PN with maximum severity of grade 3/4 was confounded in 12 of the 15 A+AVD patients by death prior to resolution (n=3), loss to follow-up (n=4), and withdrawal from study (n=5).  
 Among the ABVD patients with grade 3 PN, two were lost to follow-up and two died prior to resolution of PN.

1. Connors JM, et al. N Engl J Med 2018;378:331–44;  
 2. Straus DJ, et al. Blood 2020;135:735–42;  
 3. Bartlett NL, et al. Blood 2019;134 (Suppl. 1):4026.

# ECHELON-1: PN resolution and improvement over time

Patients with PN, n (%)		2 years <sup>1</sup>	3 years <sup>2</sup>	4 years <sup>3</sup>	5 years
<b>A+AVD</b> n=442	Complete resolution* or improvement <sup>†</sup>	295 (67)	345 (78)	365 (83)	375 (85)
	Complete resolution*	191 (43)	272 (62)	300 (68)	316 (71)
	Improvement <sup>†</sup>	104 (24)	73 (17)	65 (15)	59 (13)
	Ongoing at last follow-up <sup>‡</sup>	NA	NA	NA	127 (29)
<b>ABVD</b> n=286	Complete resolution* or improvement <sup>†</sup>	214 (75)	236 (83)	240 (84)	245 (86)
	Complete resolution*	174 (61)	209 (73)	217 (76)	227 (79)
	Improvement <sup>†</sup>	40 (14)	27 (9)	23 (8)	18 (6)
	Ongoing at last follow-up <sup>‡</sup>	NA	NA	NA	59 (21)

\*Resolution was defined as event outcome of “resolved” or “resolved with sequelae”.

<sup>†</sup>Improvement was defined as “improved by ≥1 grade from worst grade as of the latest assessment”.

<sup>‡</sup>Ongoing event at EOT is defined as an event with an end date that is after the EOT date, and the event end date is “not missing”, or the last follow up date is on or after the EOT date and the event end date is missing. Median follow-up 236.9 weeks (range: 0–344).

NA, not appropriate.

1. Connors JM, et al. N Engl J Med 2018;378:331–44;

2. Straus DJ, et al. Blood 2020;135:735–42;

3. Bartlett NL, et al. Blood 2019;134(Suppl. 1):4026.

# ECHELON-1: PN resolution and improvement after a median of 5 years' follow-up

	<b>A+AVD</b>	<b>ABVD</b>
<b>Any grade on-study PN,<sup>1</sup> n (%)</b>	443 (67)	286 (43)
<b>Complete resolution, n (%)</b>	316 (71)	227 (79)
<b>Median time to resolution, weeks (range)</b>	34 (0–262)	16 (0–267)
<b>Improvement, n (%)</b>	59 (13)	18 (6)
<b>Median time to improvement, weeks (range)</b>	49 (8–270)	12 (2–70)
<b>Ongoing at last follow-up, n (%)</b>	127 (29)	59 (21)
<b>Grade 1</b>	74 (17)	39 (14)
<b>Grade 2</b>	38 (9)	16 (6)
<b>Grade 3</b>	14 (3)	4 (1)
<b>Grade 4</b>	1 (<1)	0



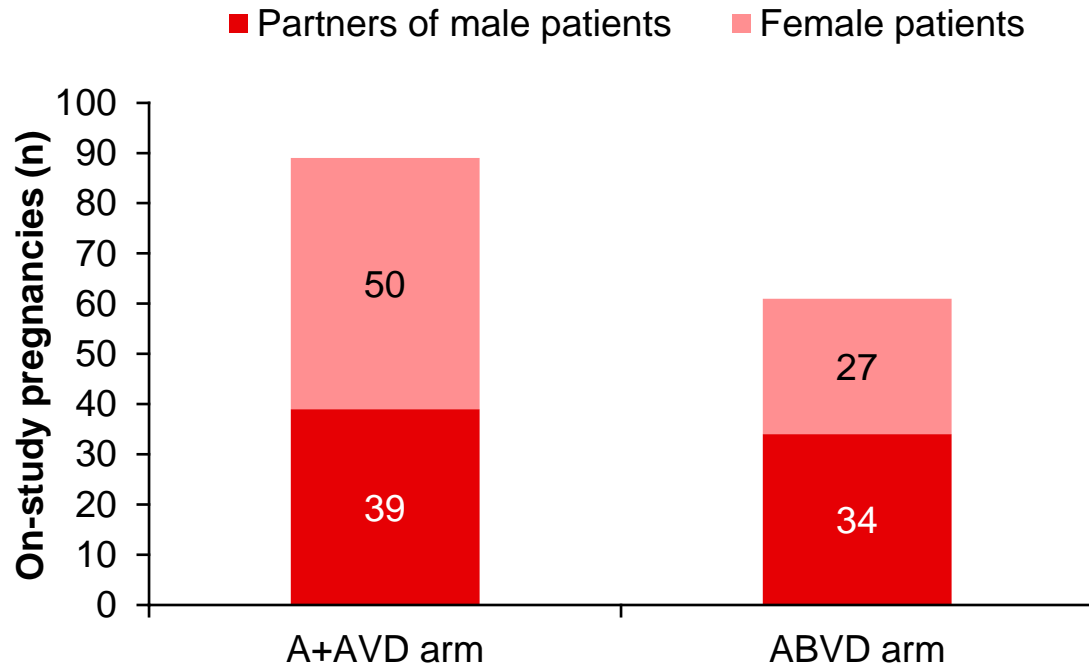
# ECHELON-1: Secondary malignancies

- Secondary malignancies were reported in 48 patients.
- 19 occurred in the A+AVD arm:
  - 9 hematologic malignancies
    - 2 cases of acute myeloid leukemia (patients aged 38 and 29 years)
  - 10 solid tumors.
- 29 occurred in the ABVD arm:
  - 15 hematologic malignancies
    - 1 case of myelodysplastic syndrome (patient aged 71 years)
    - 1 case of acute myeloid leukemia (patient aged 74)
  - 14 solid tumors.

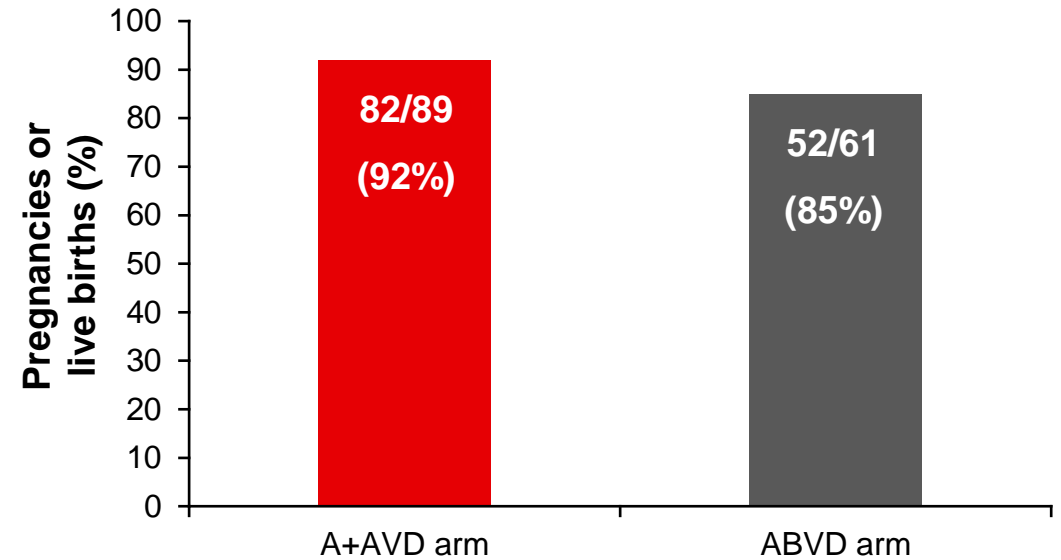
# ECHELON-1: Pregnancies

- A total of 150 pregnancies were reported among study participants and their partners.

On-study pregnancies in patients or their partners



Ongoing pregnancies or live births



# Conclusions

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- At 5 years A+AVD continues to demonstrate a robust and durable treatment benefit independent of disease stage, risk factor score, and PET2 status, without requiring change of therapy based on interim PET assessment and without exposure to bleomycin.
- The sustained PFS benefit with A+AVD is coupled with:
  - A manageable long-term safety profile
  - A low rate of secondary malignancies
  - No observed impact on the rate of successful pregnancies compared with ABVD
  - A high rate of resolution and improvement of PN, with symptoms of PN resolving or improving over time.
- As most relapses in cHL occur within 5 years of frontline treatment, these long-term PFS data suggest that more patients may have been cured of their disease with A+AVD versus ABVD.
- A+AVD should be considered a preferred treatment option for all patients with previously untreated Stage III or IV cHL.

# Abbreviations

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A+AVD, brentuximab vedotin, doxorubicin, vinblastine, and dacarbazine

ABVD, doxorubicin, bleomycin, vinblastine, and dacarbazine

cHL, classical Hodgkin lymphoma

CI, confidence interval

CT, computed tomography

ECOG, Eastern Cooperative Oncology Group

EOT, end of treatment

HR, hazard ratio

IPI, international prognostic index

IRF, independent review facility

ITT, intent-to-treat

IV, intravenous

NA, not appropriate

OS, overall survival

PET, positron emission tomography

PET2, PET status after 2 cycles of treatment

PET2+, PET2-positive

PET2–, PET2-negative

PFS, progression-free survival

PN, peripheral neuropathy

Q3M, every 3 months

Q6M, every 6 months