

# Management of relapsed or refractory HL

DGHO Basel 13.10.2024

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mit Hämatologie, internistischer Onkologie, Hämostaseologie, Infektiologie und Rheumatologie

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UND ONKOLOGISCHES ZENTRUM

# Offenlegung potentieller Interessenkonflikte

## 1. Anstellungsverhältnis oder Führungsposition

keine

## 2. Beratungs- bzw. Gutachtertätigkeit

keine

## 3. Besitz von Geschäftsanteilen, Aktien oder Fonds

keiner

## 4. Patent, Urheberrecht, Verkaufslizenz

keine

## 5. Honorare

Speaking fee from Mundipharma, BMS, Takeda, Novartis, Incyte; MSD, Janssen Cilag

## 6. Finanzierung wissenschaftlicher Untersuchungen

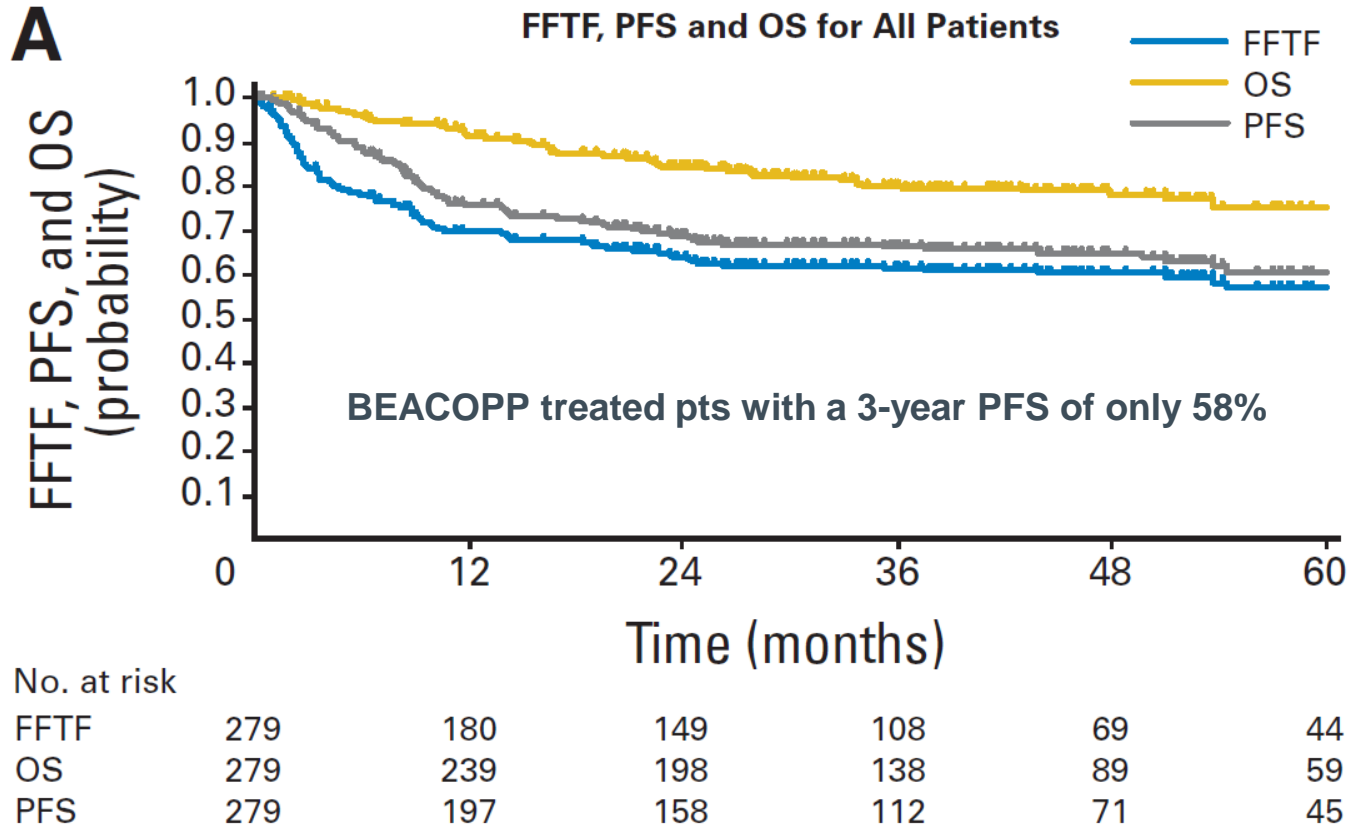
Research support from GSK, Ratiopharm, Roche, MSD, Merck

## 7. Andere finanzielle Beziehungen

Travel support: Amgen, Sanofi Aventis, Roche, Celgene, BMS, Janssen Cilag, Takeda in the last years

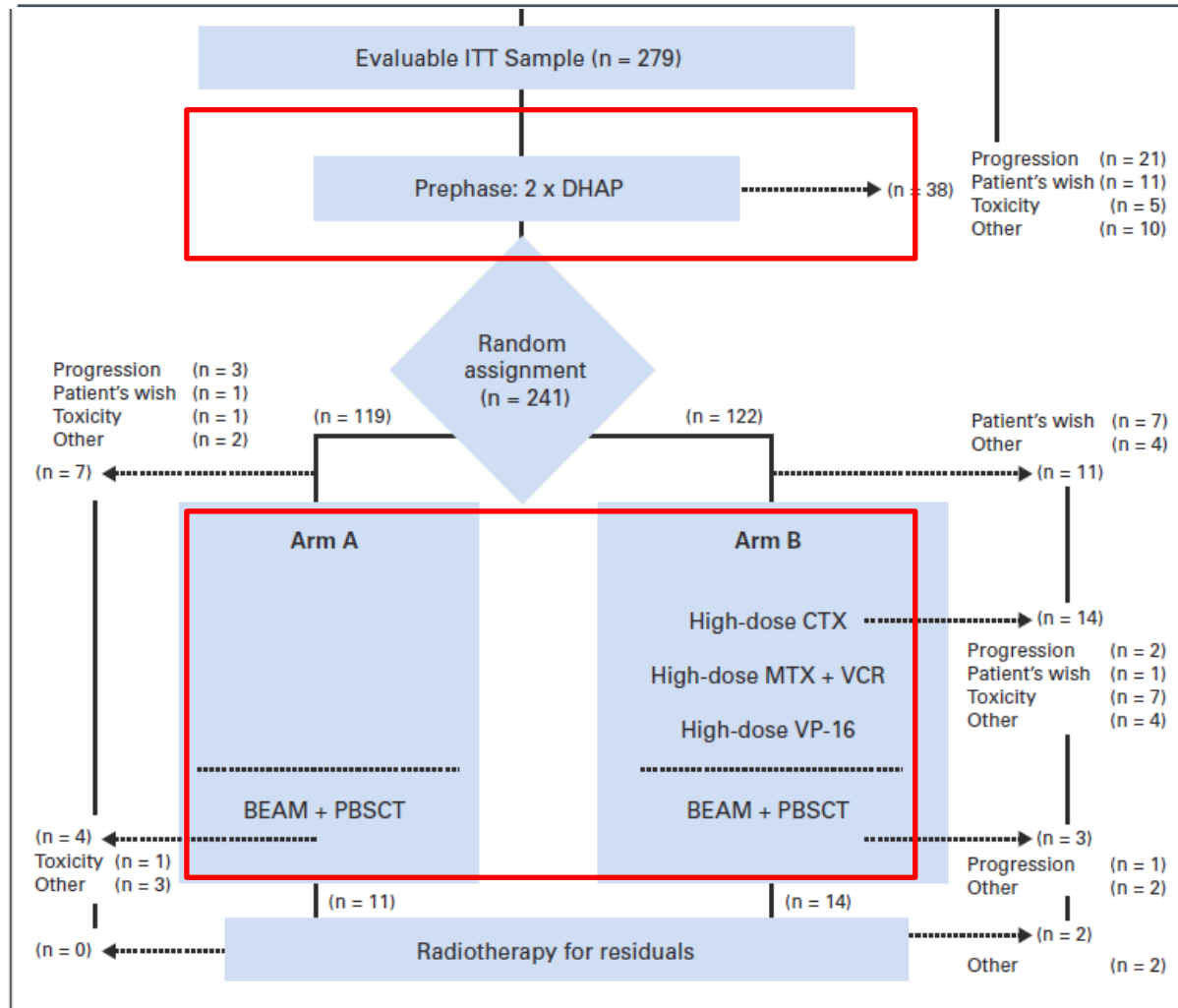
# Treatment goals in R/R Hodgkin Lymphoma

- Outcome after induction therapy followed by ASCT with BEAM in the HDR2 trial (n=279 pts)



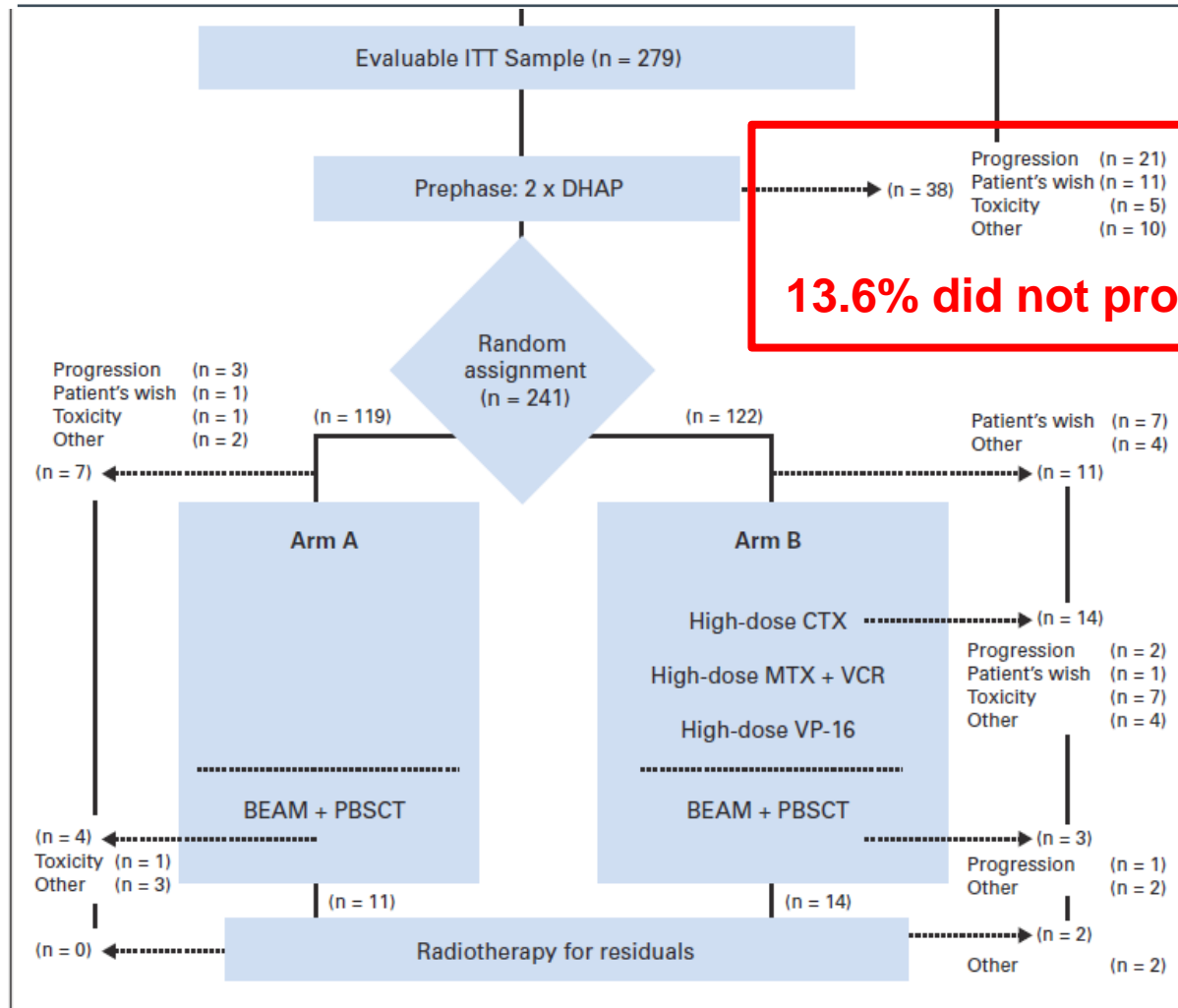
# Historical standard tested in the HDR2 trial...

**ORR to DHAP:**  
 CR: 24%  
 PR: 46%  
**ORR: 70%**



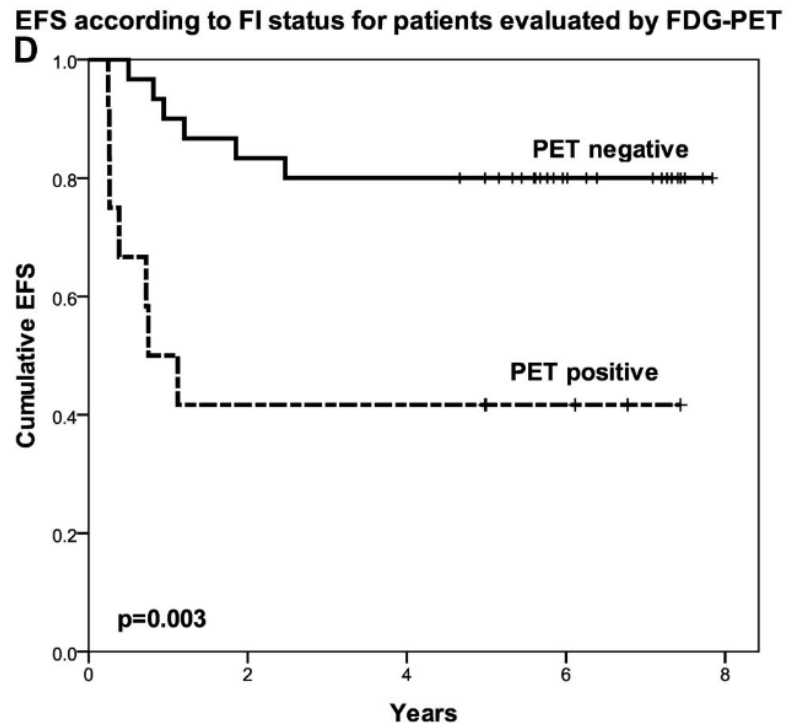
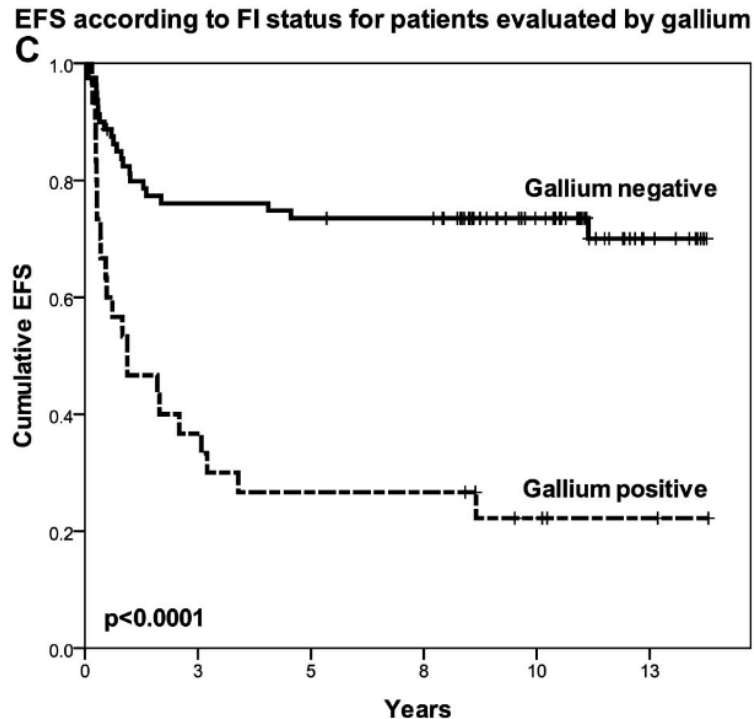
# A closer look at the HDR2 trial...

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# Treatment goals in R/R Hodgkin Lymphoma

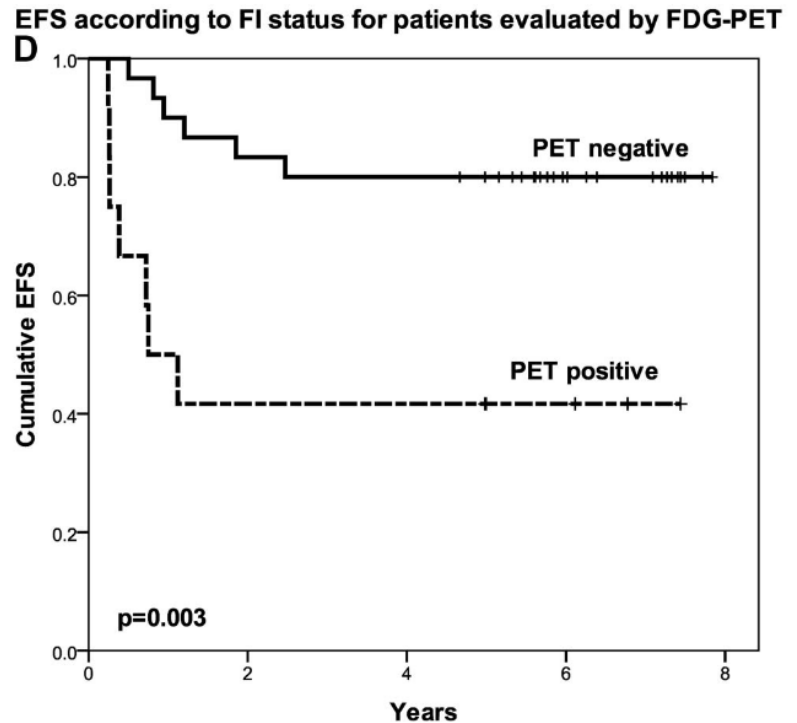
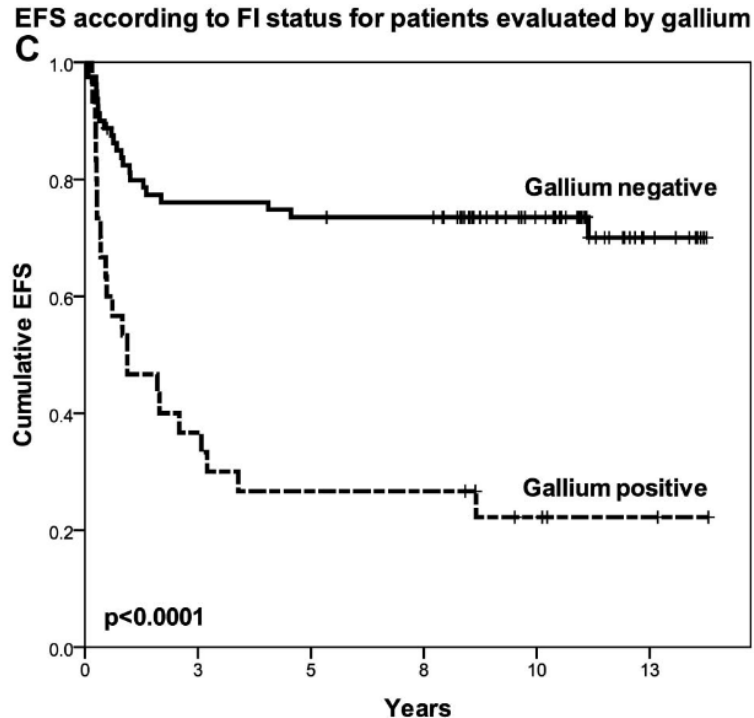
- Normalization of Gallium or PET imaging before ATX was highly prognostic in 153 pts



**Figure 1. Patient outcome.** (A) OS and EFS. (B) EFS according to FI status before transplantation. (C) EFS according to FI status for patients evaluated by gallium. (D) EFS according to FI status for patients evaluated by FDG-PET.

# Treatment goals in R/R Hodgkin Lymphoma

- Normalization of Gallium or PET imaging before ATX was highly prognostic in 153 pts

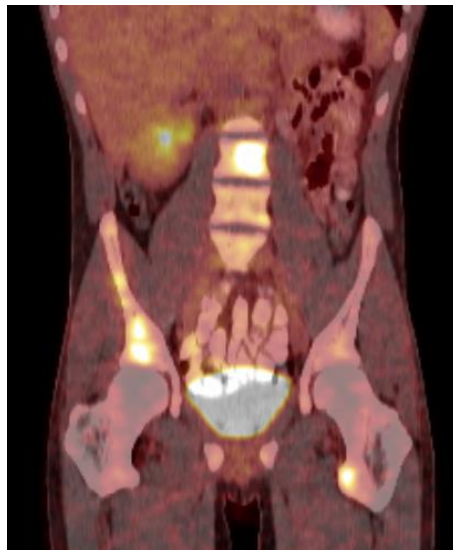
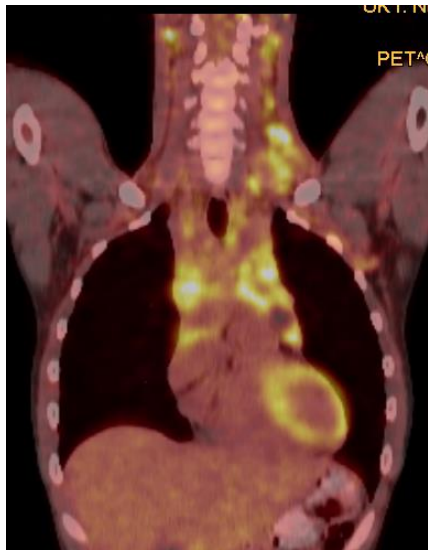


**Figure 1. Patient outcome.** (A) OS and EFS. (B) EFS according to FI status before transplantation. (C) EFS according to FI status for patients evaluated by gallium. (D) EFS according to FI status for patients evaluated by FDG-PET.

**A negative PET/Scan should be the goal of induction therapy in R/R HL**

# Case presentation

25 year old man was treated in November 2022 for Hodgkin Lymphoma (NSL, Stadium IVA) with BRECADD at our outpatient department. After a negative iPET (DS 1) 4 cycles at all were recommended.

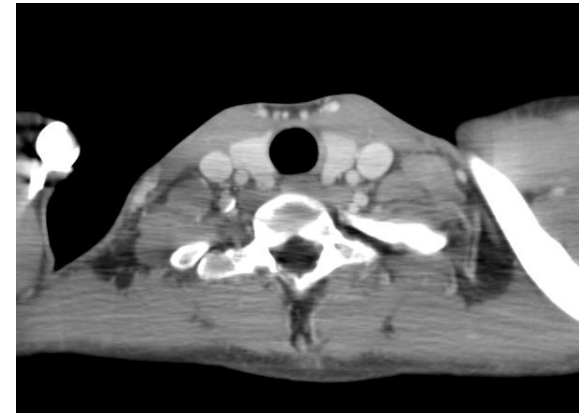
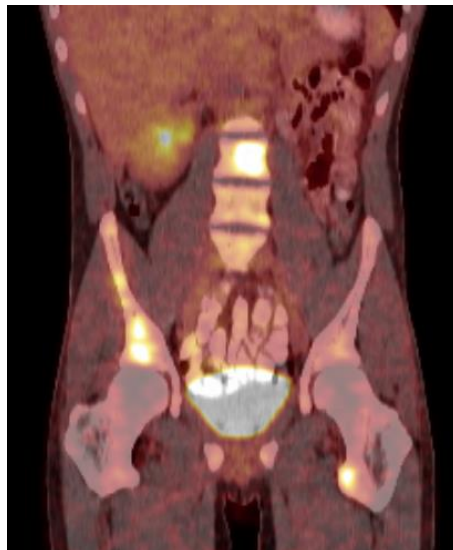
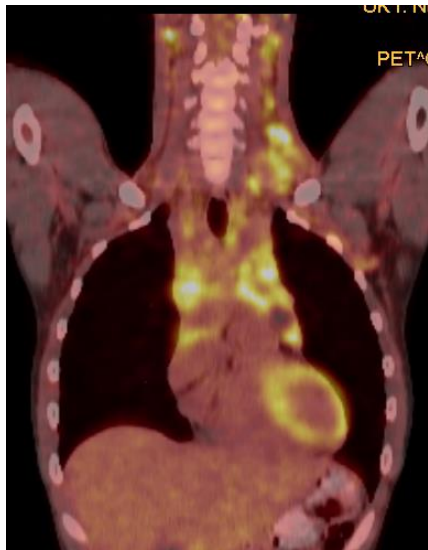




# Case presentation

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14 months after end of treatment a new supraclavicular lymph node was palpable.



# Agenda:

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- **Salvage therapy at first relapse:**
  - Radiotherapy
  - BV +/- chemotherapy
  - CPI
- **Consolidation after stem cell transplant:**
  - AETHERA
  - CPI
- **Later treatment lines:**
  - CPI vs BV
  - CPI combinations
- **Allogenic stem cell transplant:**
  - New data



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# RT should be considered in R/R HL

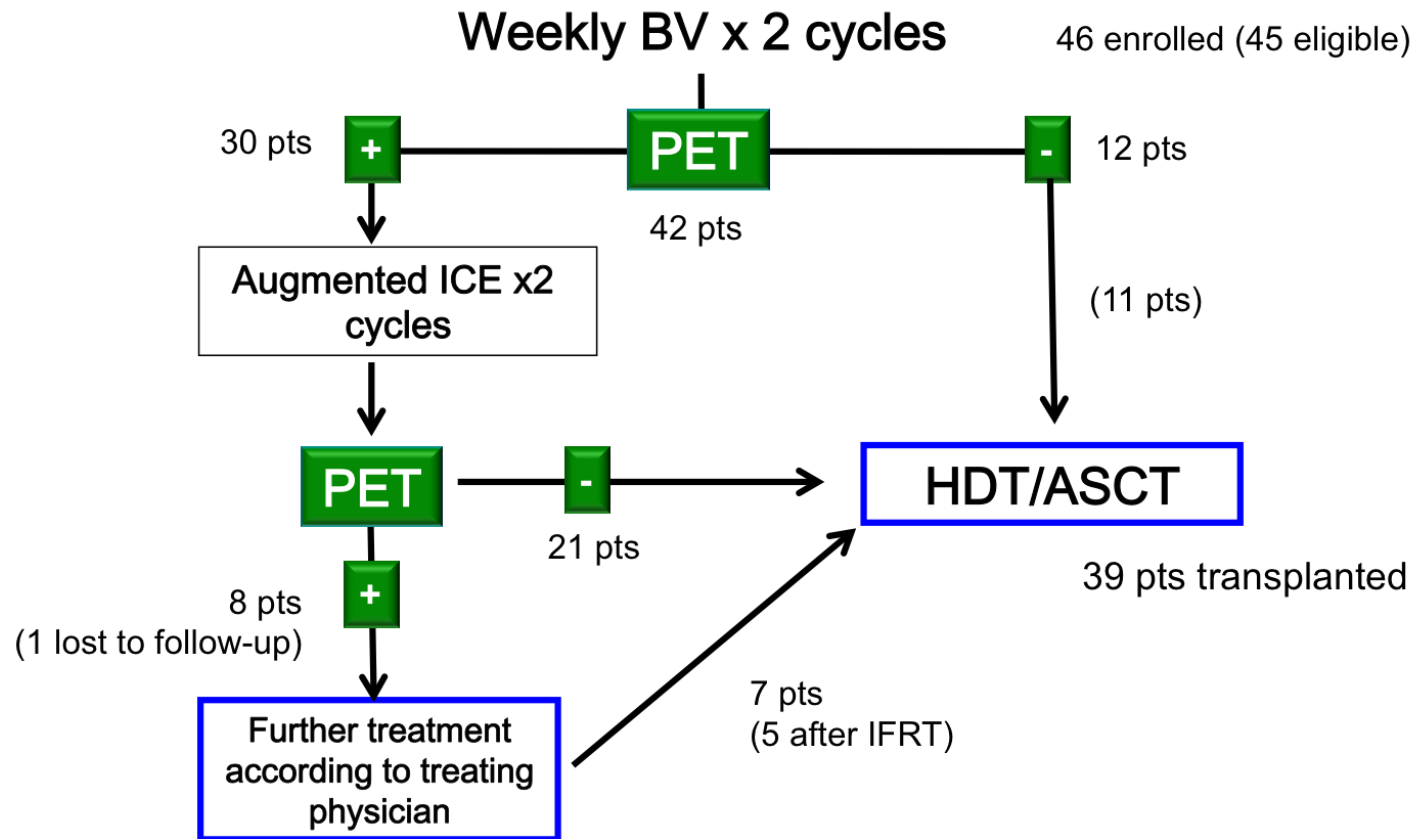
- **ILROG guidelines recommend consideration of IF-RT in R/R HL**
- **Retrospective data from 486 pts show a PFS advantage**
- **RT may be considered after or before ATX**
- **RT as single modality treatment is rarely a curative option**

**Table 2** General indications for radiation therapy as part of salvage in patients with relapsed or refractory Hodgkin lymphoma

1. Localized relapse
2. Disseminated relapse but with sites including the following:
  - A. Bulky disease ( $\geq 5$  cm)
  - B. Persistent FDG-avid disease after salvage chemotherapy or after SCT
  - C. Critical for local control, such as the following:
    - i. Spinal cord compression (vertebral involvement)
    - ii. Nerve root compression
    - iii. Superior vena cava compression
    - iv. Airway compression
    - v. Lymphedema
    - vi. Hydronephrosis

*Abbreviations:* FDG =  $^{18}\text{F}$  fluorodeoxyglucose; SCT = stem cell transplantation.

# FDG-PET Adapted Sequential Therapy With Brentuximab Vedotin and Augmented ICE Followed By ATX



Courtesy of Moskowitz

ISHL and ASH 2013 Moskowitz

# FDG-PET Adapted Sequential Therapy With Brentuximab Vedotin and Augmented ICE Followed By ATX

- 2 cycles of BV were highly active.
- Pts with DS I-II proceeded to ATX.
- Pts with DS >II were treated with augICE
- Majority of pts (34/45) achieved PET negativity before ATX with BV or augICE
- EFS of the PETneg patients: 92%
- No difference, if PET negativity was achieved with BV or augICE

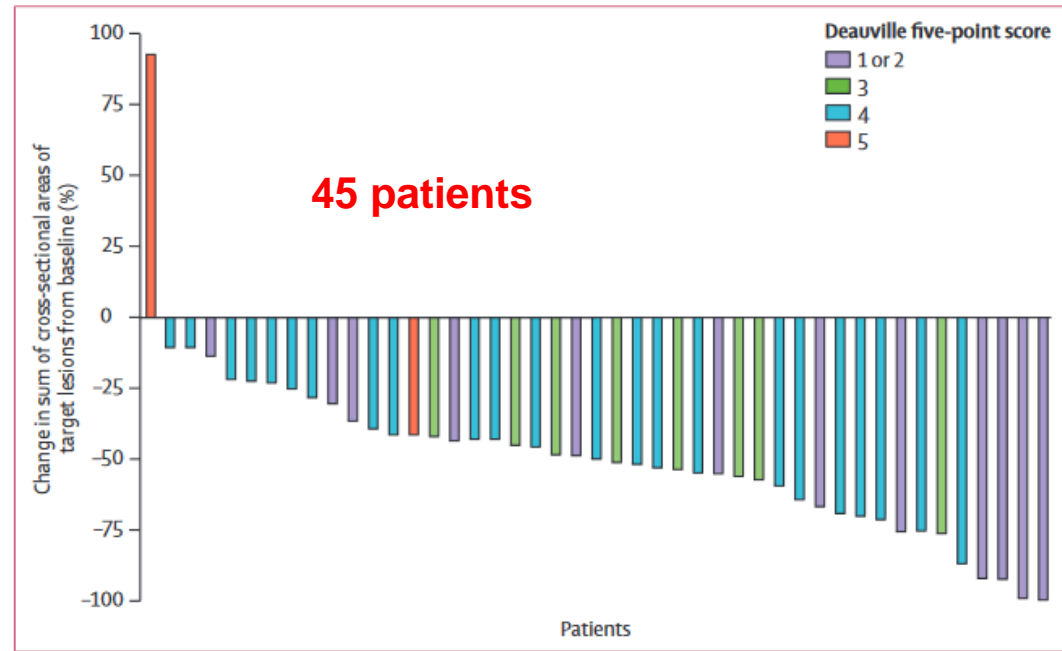
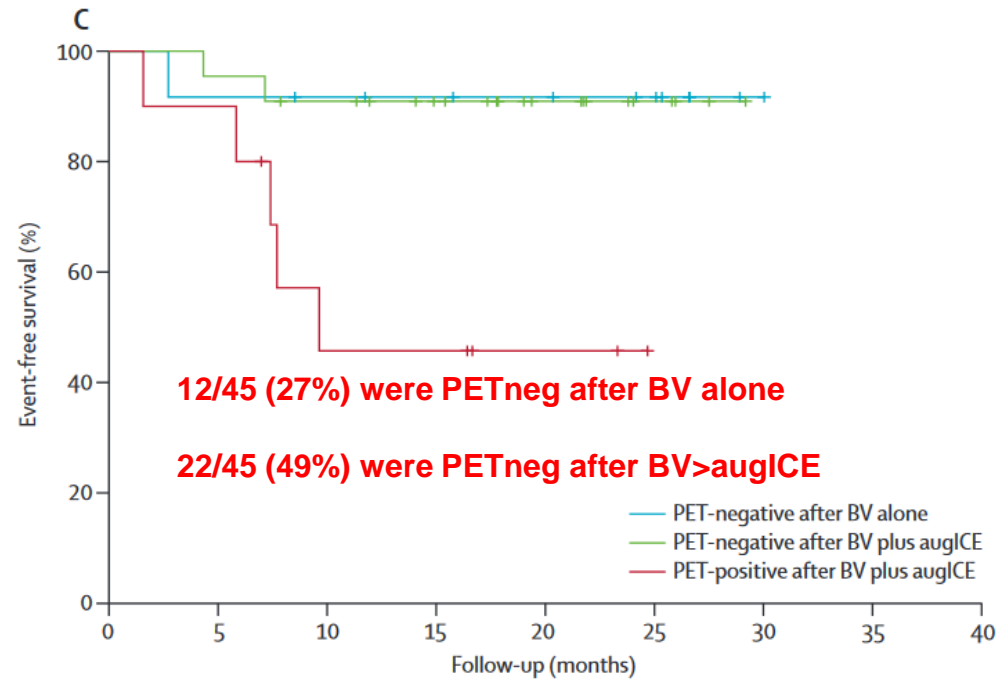


Figure 2: Tumour reduction after brentuximab vedotin  
Data shows PET status according to the Deauville scores of 1-5.

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Number at risk	0	5	10	15	20	25	30
BV PET negative	12	11	10	9	8	5	1
BV-augICE PET negative	22	21	19	15	9	4	0
BV-augICE PET positive	10	9	8	4	2	0	0

# New combinations in r/r HL

- **Bendamustin + Brentuximab-vedotin:**
  - Phase I/II trial of 64 pts with R/R HL after frontline therapy: ORR 78%
  - Phase II trial of 55 pts with R/R HL after frontline therapy: CR 83%
  - Phase II trial of 40 pts with R/R HL after frontline therapy: CR 79%
  - Retrospective series of 28 patients in Austria: CR 79%
  - Retrospective series of 10 patients in British Columbia: CR 90%
  - Retrospective series of 20 patients in Italy: CR 100%
  
- **DHAP / ESHAP + Brentuximab-vedotin:**
  - Phase I/II trial of 61 pts with BV+DHAP: CR 79%
  - Phase I/II trial of 66 pts with BV+ESHAP: CR 70%
  
- **Bendamustine with Gemcitabine and Vinorelbine (BGV):**
  - Phase II trial 59 patients: 73% CR + 10% PR (Jco 2016 Santoro)

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**MEMO:**

**ORR to DHAP: 70%**  
**14% do not proceed to ASCT**

- **Bendamustine with Gemcitabine and Vinorelbine (BGV):**

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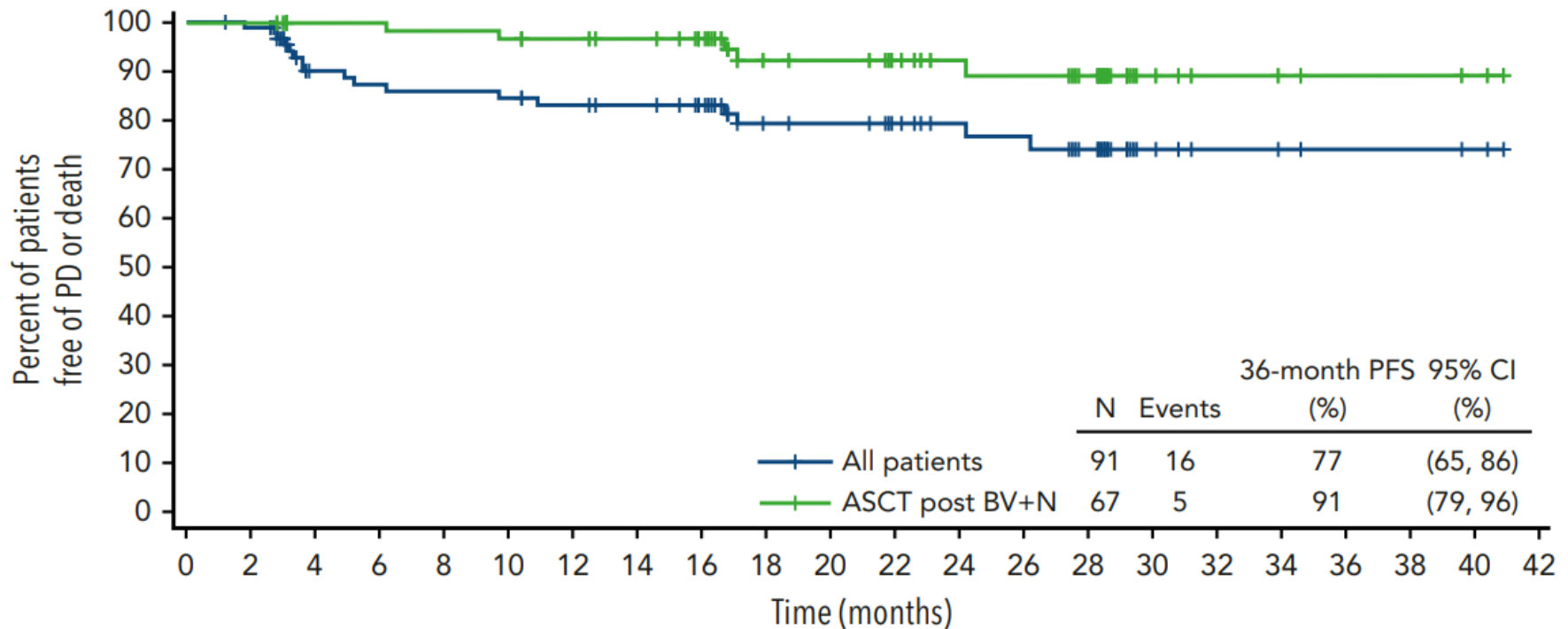


# Brentuximab / Nivo as salvage before ATX

Phase I/II study at first relapse before ASCT:

n=91, median age: 34 years, all patients received 4 cycles BV/Nivo

CR rate: 67%, 67 patients received ASCT after BV/Nivo without further salvage

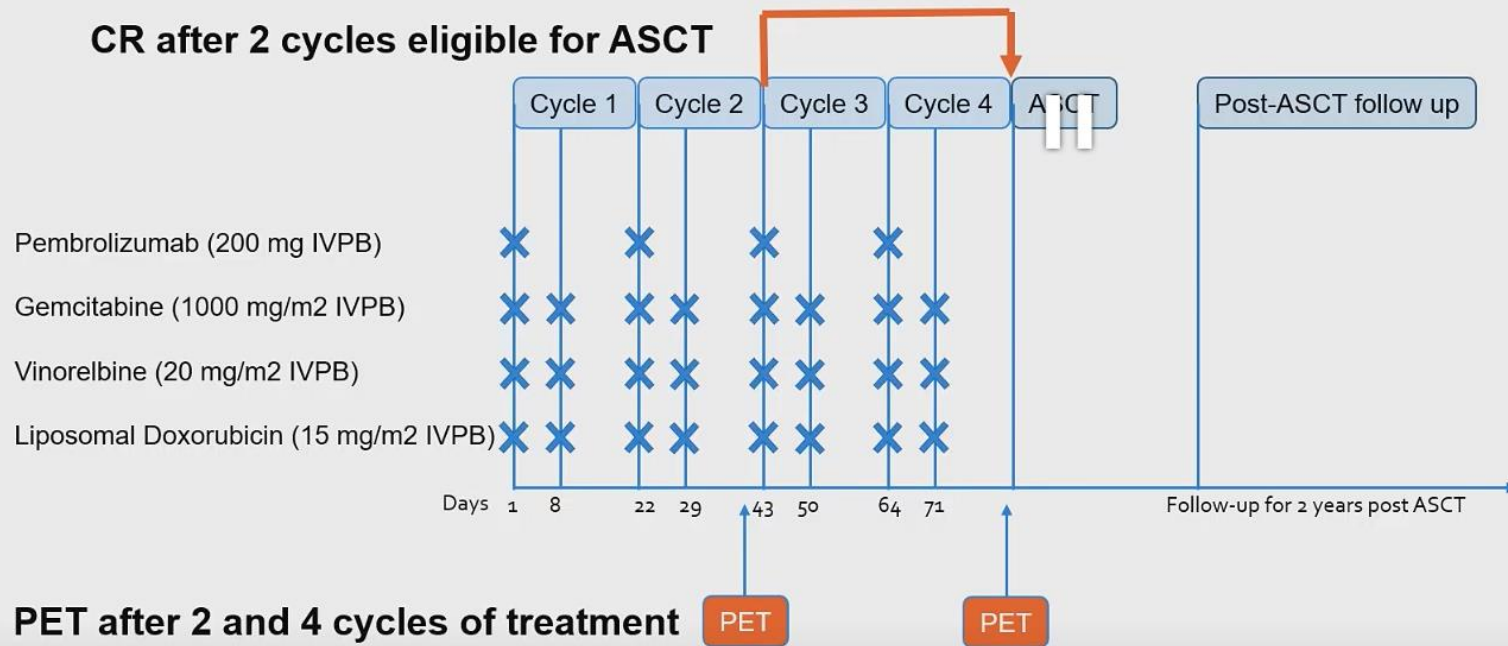


# Pembro-based salvage treatment

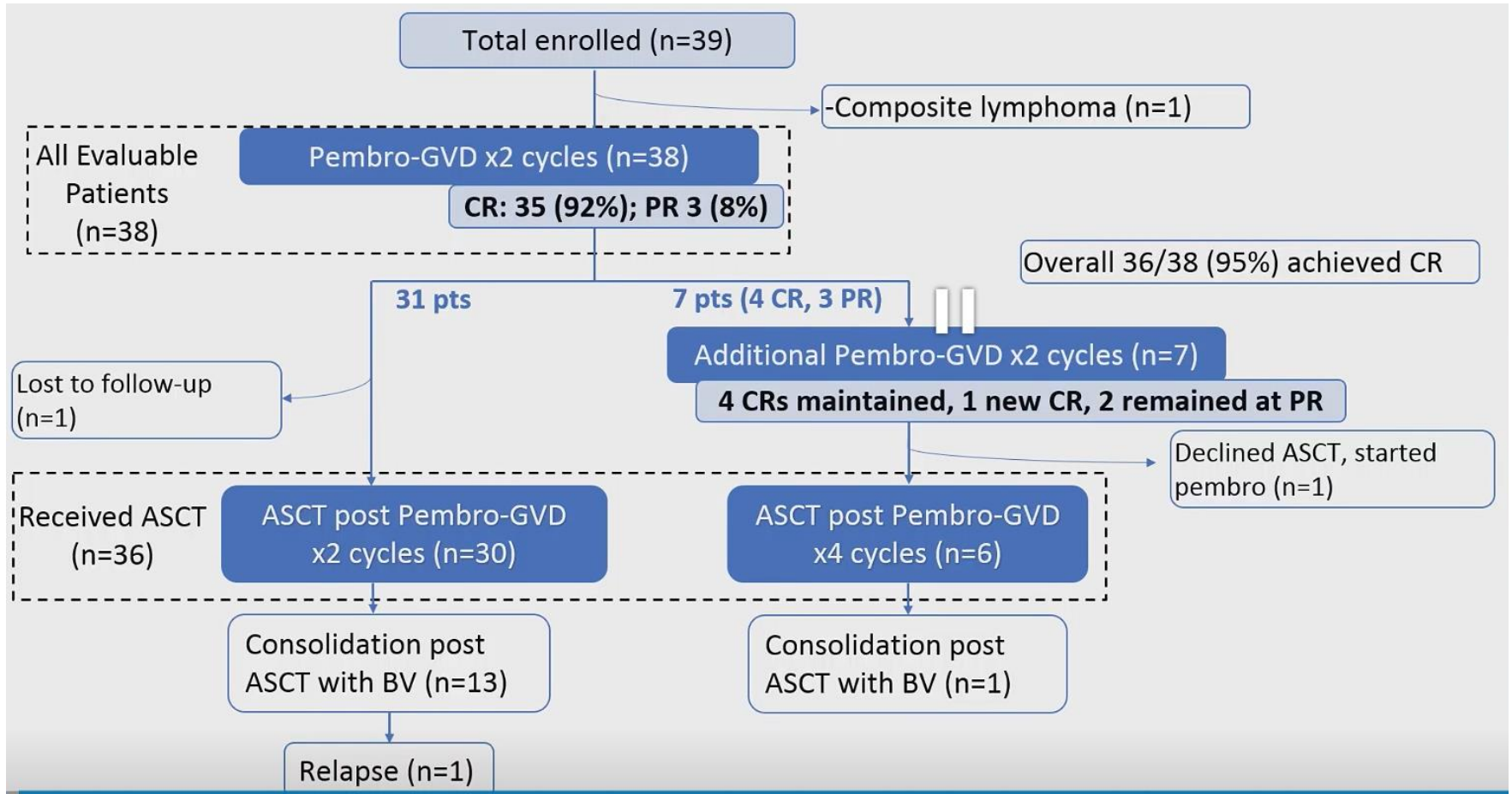
## Phase II study of pembro-GVD as second-line therapy for cHL

- **Eligibility:** relapsed or refractory cHL following 1-line of therapy
- **Primary endpoint:** CR (by Deauville 3) rate after 2-4 cycles

CR after 2 cycles eligible for ASCT



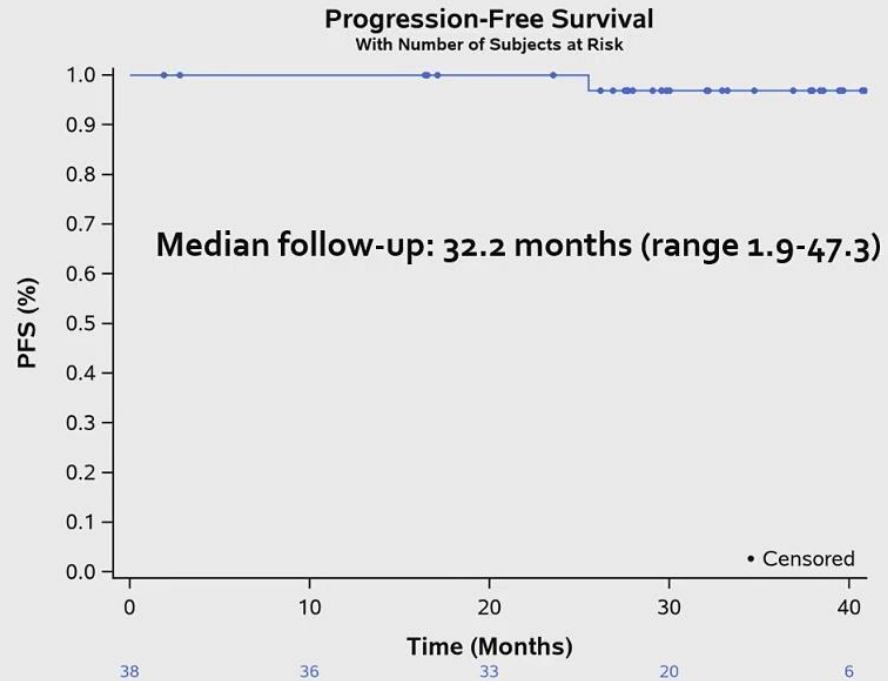
# Pembro-based salvage treatment



# Pembro-based salvage treatment

## Results of long-term follow up in the ITT cohort

- 38 evaluable patients
- ORR: 100%
- CR: 95% (92% after 2 cycles)
- 36 pts proceeded to ASCT
- 1 relapse, 1 death (unrelated)
- 30 month PFS: 96%

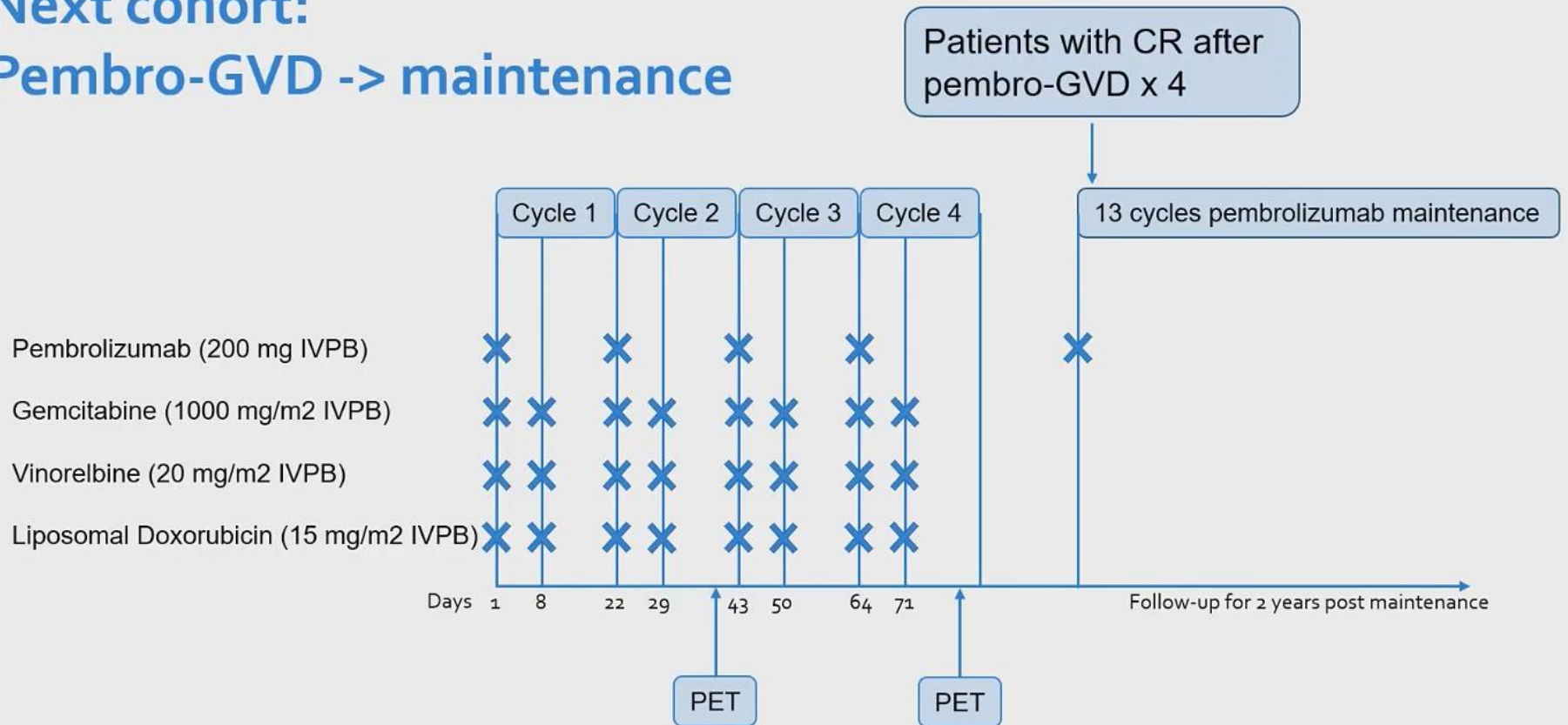


Memorial Sloan Kettering  
Cancer Center

Data cut off: 10/6/2022

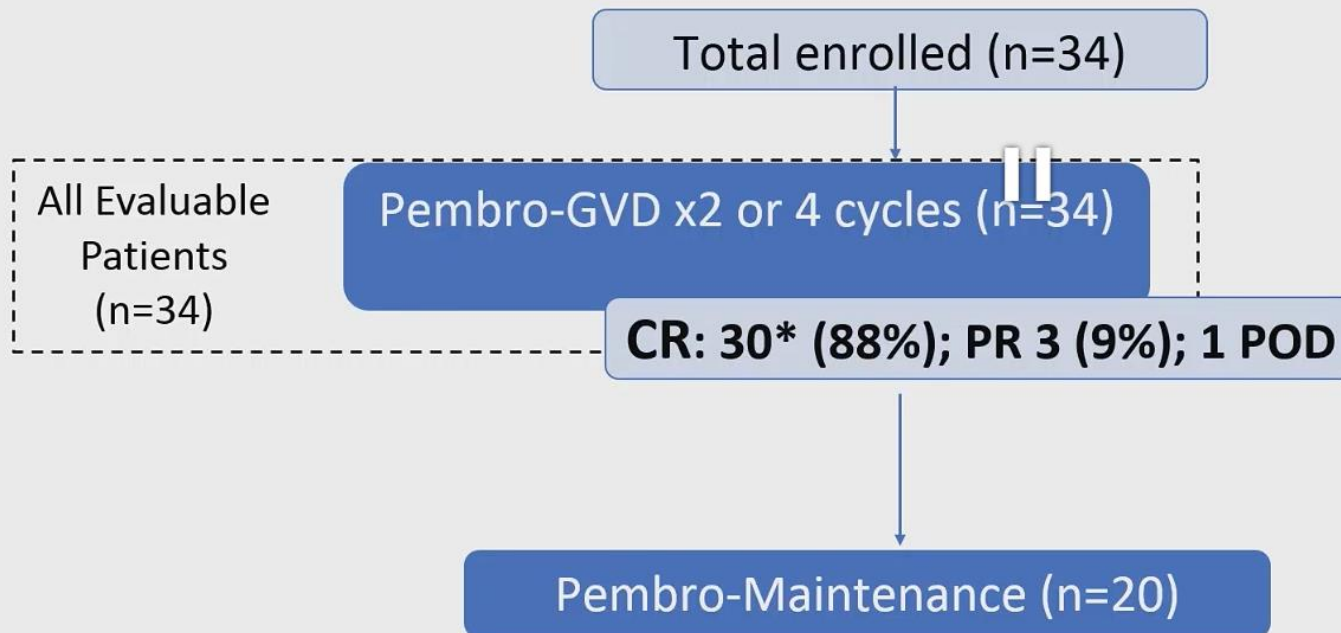
# Pembro-based salvage treatment

## Next cohort: Pembro-GVD -> maintenance



# Pembro-based salvage treatment

Next cohort:  
Pembro-GVD -> maintenance



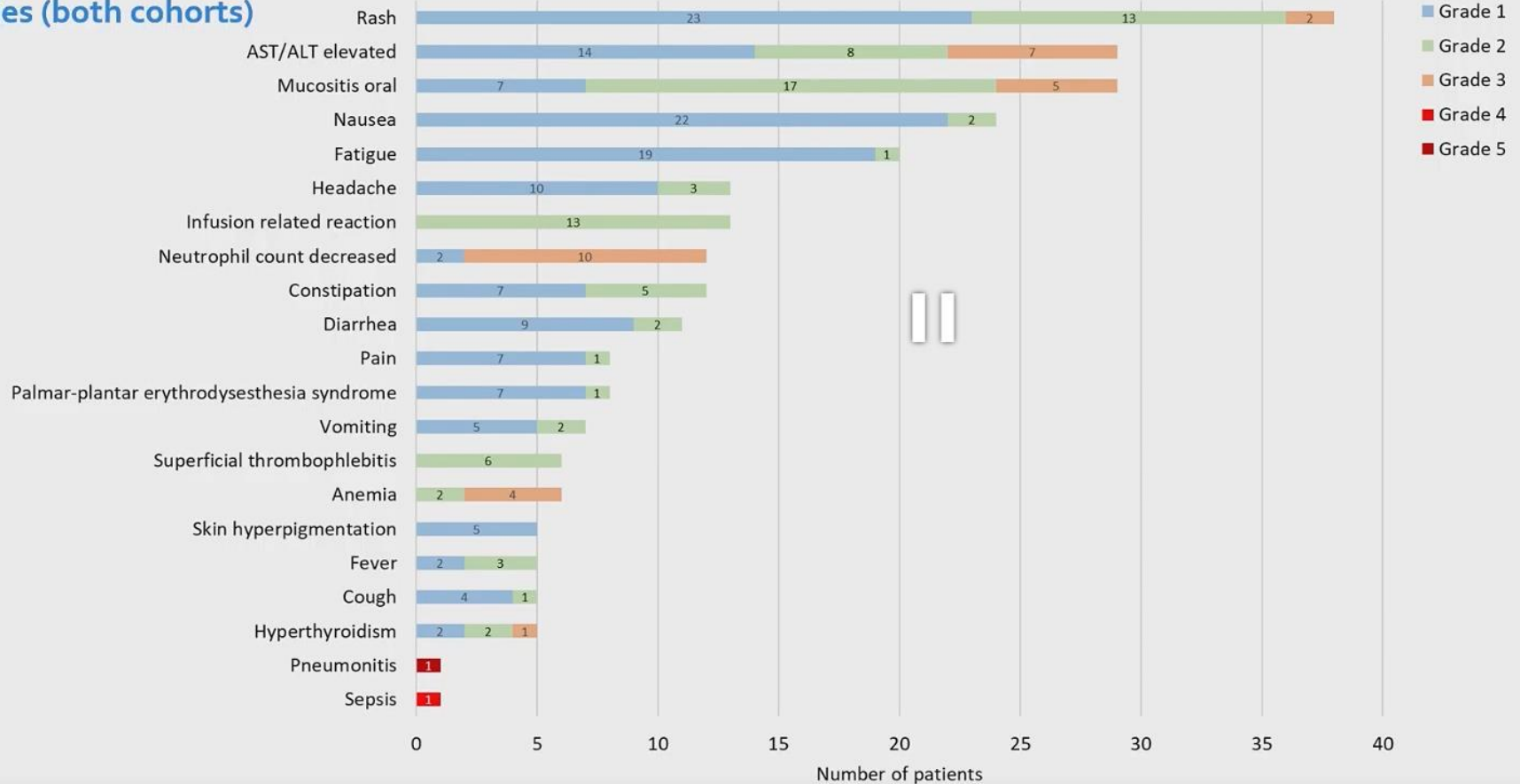
# Pembro-based salvage treatment

## Efficacy of pembro-GVD across both cohorts

Characteristics	n (%)
Total treated with p-GVD	73
Evaluable for toxicity:	73
Evaluable for response:	72
ORR:	69 (96%)
<b>CR:</b>	<b>66 (92%)</b>

# Pembro-based salvage treatment

## Toxicities (both cohorts)





# Pembro-based salvage treatment

## Engraftment syndrome (ES)

- 23 of 34 (67%) pts transplanted at MSKCC experienced engraftment syndrome
- Time to development of ES: **median 10 days (range 8-17) post transplant**
- Signs/symptoms
  - Fevers, n=14 (61%)
  - Transaminitis, n=14 (61%), G3, n=3
  - Diarrhea, n=12 (52%), G3, n=3
  - Rash, n=8 (35%), G3, n=4
- All patients recovered with steroids



## Recognizing and treating Engraftment Syndrome

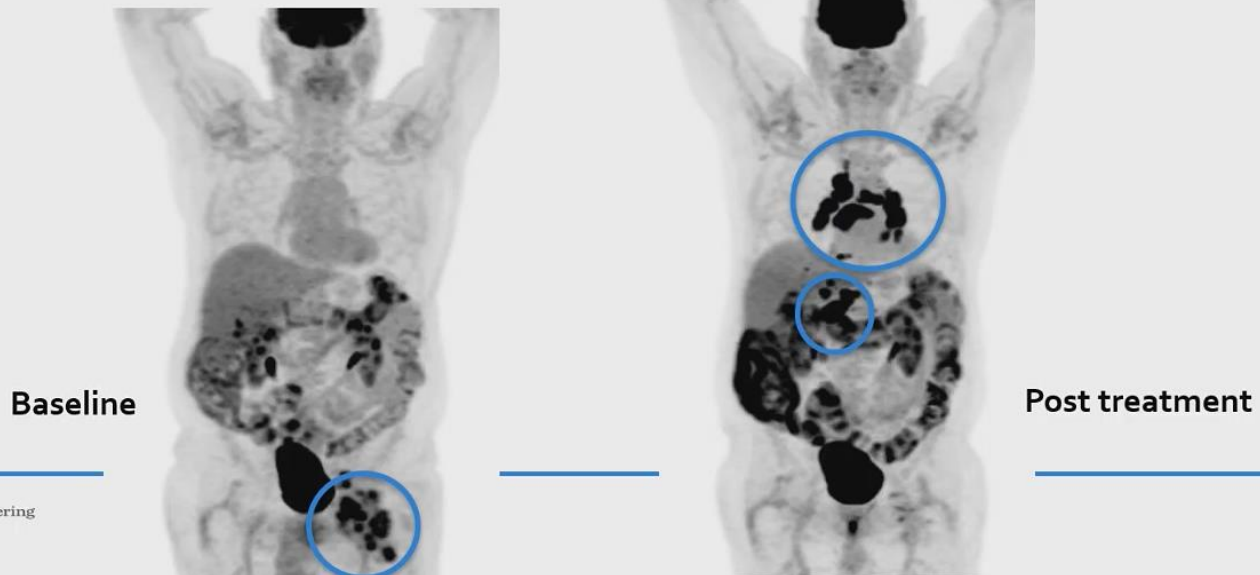
- **Presents with any of following symptoms, days 8-11 post ASCT:**
  - High grade fever >38.5°C
  - Skin rash (covering >25% body surface area)
  - Diarrhea (>2 watery BM/24 hrs)
  - May also be associated with
    - Hepatitis, pulmonary infiltrates, acute kidney injury, neurologic dysfunction
- Management:
  - **Any new onset fever, rash, and/or diarrhea occurring days 8-11 days post ASCT:**
    - Obtain cultures, initiate broad spectrum antibiotics AND corticosteroids
    - Dexamethasone 0.2mg/kg IV daily x 3 days (or symptom resolution) followed by 20-30% oral taper every 3 days over 14 days



# Pembro-based salvage treatment

## Pseudo-progressions (5 on ASCT cohort)

- 2 pts with FDG-avid hilar LAN 7 & 9 months post ASCT -> **non-necrotizing granulomas**
- 2 pts with FDG-avid axillary and mediastinal LAN 13 & 15 months post ASCT -> **reactive changes**
- 1 pt with FDG-avid terminal ileum 12 months post ASCT -> **follicular hyperplasia**



# CPI with chemotherapy as salvage treatment

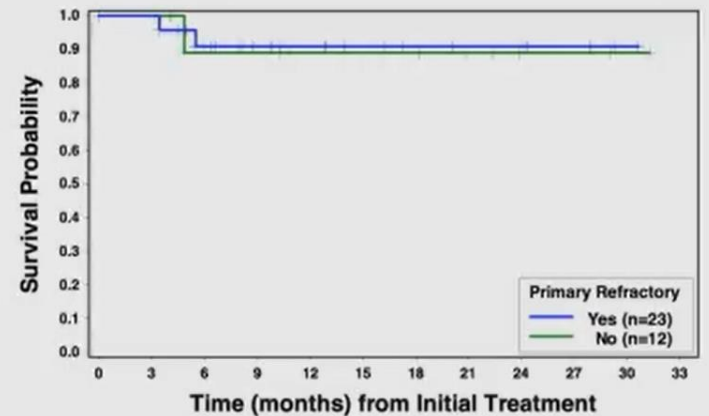
## Pembro-GVD trial:

This new combination shows very high CR rates as salvage before ASCT. A cohort without transplantation is ongoing and will show the potential of salvage treatment without ASCT.

## Nivo-ICE trial:

Nivo in combination with 2-3 cycles ICE resulted in 38 patient in CR rate of 89% before ASCT.

- 1-year PFS: 90%
- Primary refractory: 95%
- 10-month Post-HCT PFS: 96%
- Primary refractory: 100%



# Case presentation

Before salvage treatment we performed a new biopsy. Due to previous BV exposure the patient received 2 cycles Pembro and GVD and a new PET scan showed complete metabolic response in June 2024.

He received high dose chemotherapy with stem cell support in July 2024.

# Agenda:

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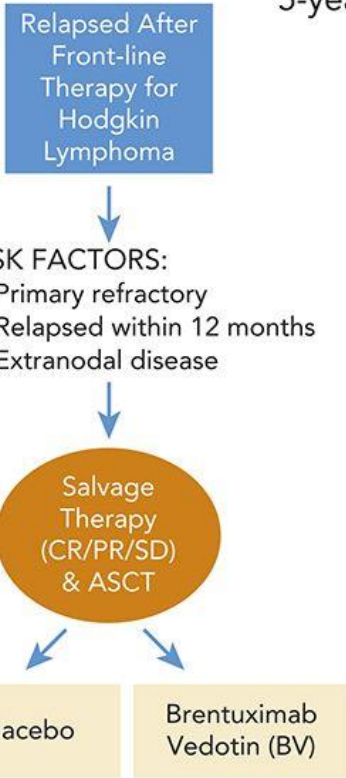
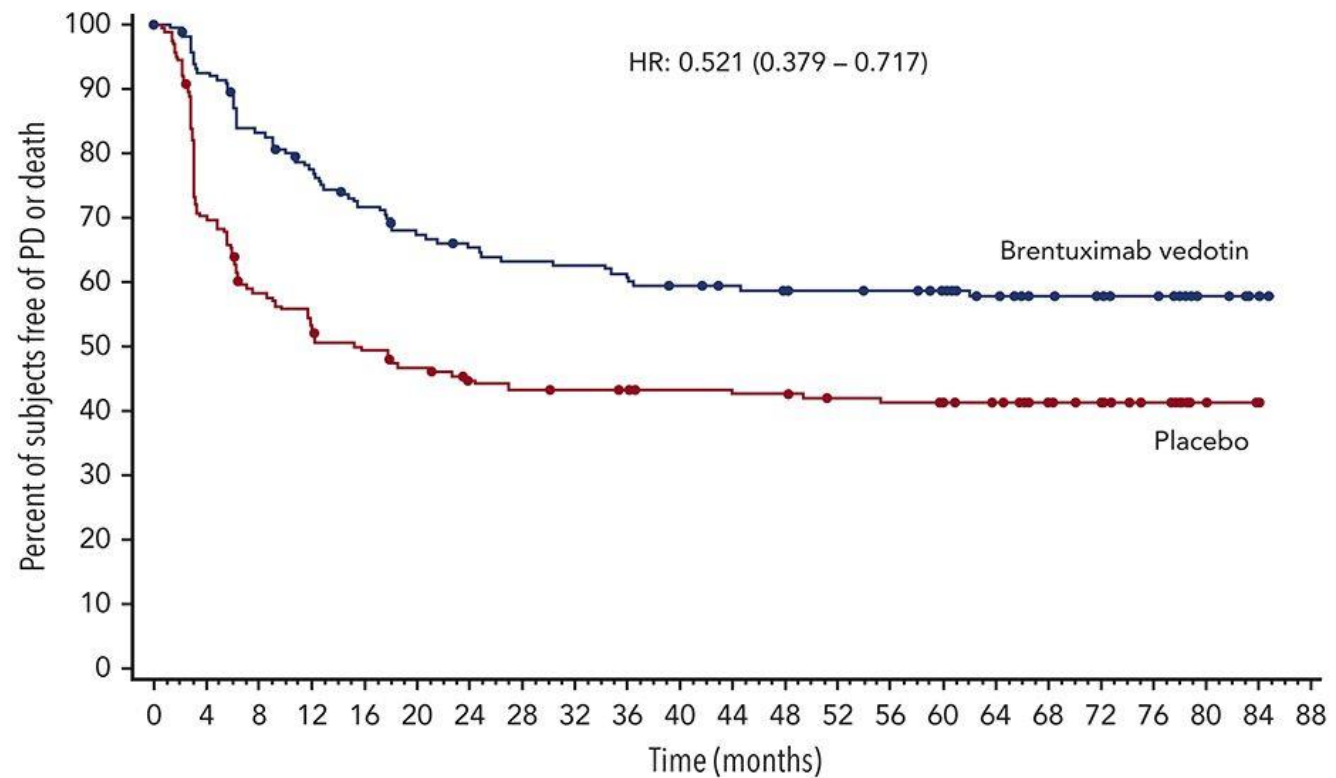


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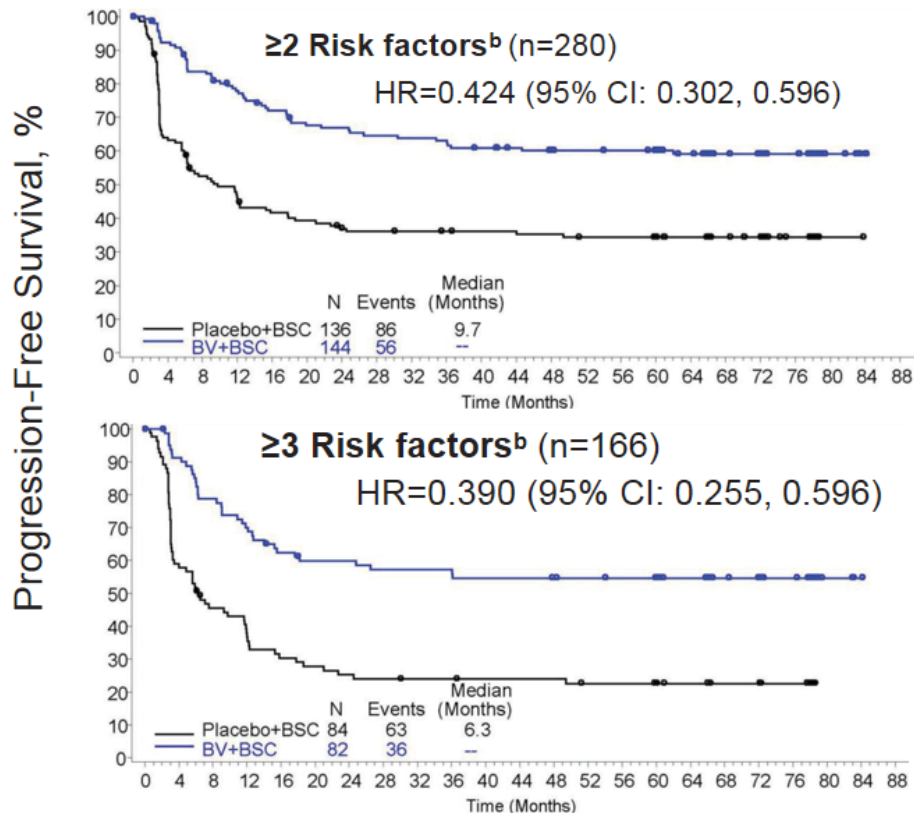
# Brentuximab maintenance improves PFS

5-year PFS For Brentuximab Vedotin Versus Placebo After auto-HSCT



**Maintenance für 48 weeks increases rate of curation in first relapse**

# Brentuximab maintenance improves PFS



## Risk Factors

- Primary-refractory HL or relapse <12 months from completion of frontline therapy
- PR or SD as best response to salvage therapy pre-ASCT
- ≥2 previous salvage therapies
- Extranodal disease at pre-ASCT relapse
- B symptoms after failure of frontline therapy

<sup>a</sup>Small number of patients with 1 risk factor precludes an assessment of group

<sup>b</sup>Post hoc analysis

# Brentuximab maintenance improves PFS

## Subsequent Anticancer Therapy

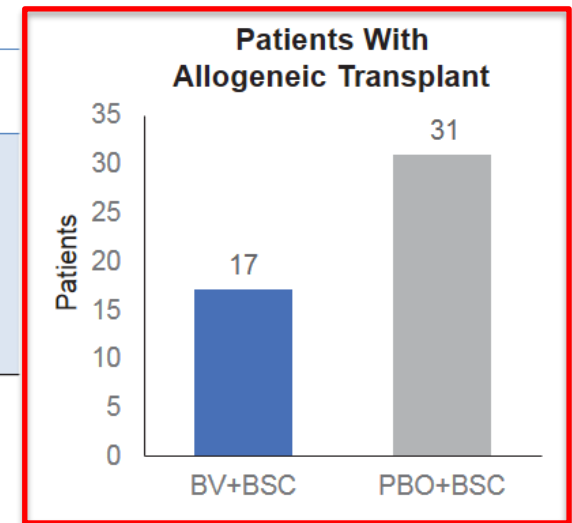
- 87% of patients on PBO received single-agent BV as subsequent therapy
- 10 patients on the BV arm were subsequently retreated with BV (ORR=60%)
  - 4 CRs, 2 PRs, 1 SD, 1 PD, and 1 unknown
- Fewer allogeneic transplants on BV arm (n=17) versus PBO (n=31)

Regimen type	BV+BSC (n=165) n (%)	PBO+BSC (n=164) n (%)
Any subsequent therapy	53 (32)	89 (54)
Single-agent BV	10 (6)	77 (47)
Multi-agent regimen <sup>a</sup>	38 (23)	46 (28)
Single-agent therapy	24 (15)	33 (20)
Radiation	25 (15)	29 (18)
Stem cell transplant <sup>b</sup>	19 (12)	35 (21)
Other <sup>c</sup>	3 (2)	4 (2)

<sup>a</sup>Includes multi-agent regimens with BV (n = 2 in each treatment group)

<sup>b</sup>Allogeneic transplants (n=17 in BV arm and n=31 in PBO )

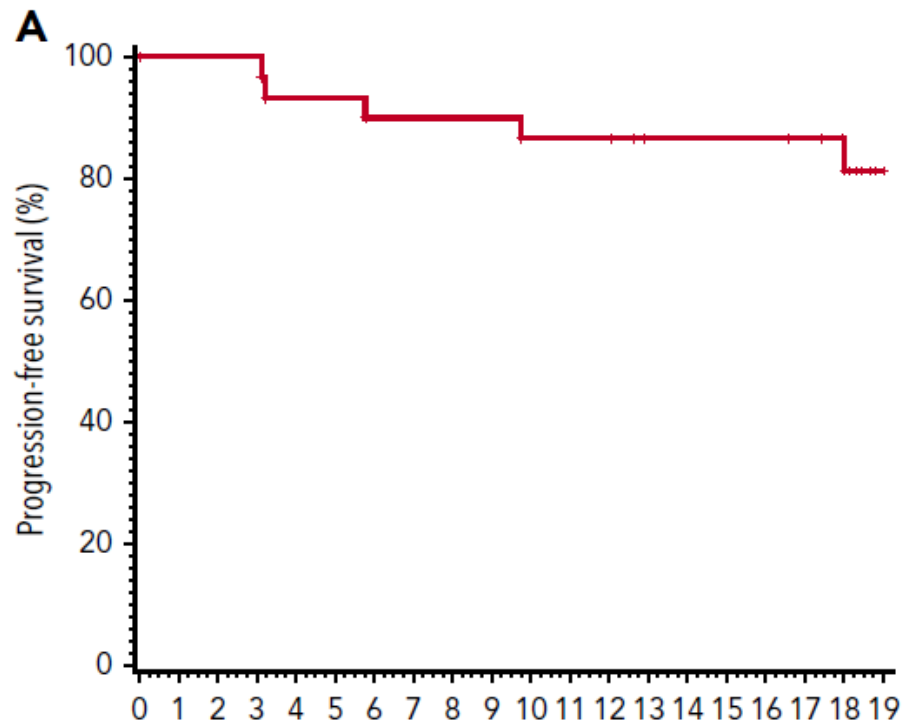
<sup>c</sup>Other includes donor lymphocyte fusion (n=2 in each group) and unknown (n=1 in BV, n=2 in PBO)





# Pembrolizumab consolidation after ATX

Phase II study of consolidative pembrolizumab after ASCT:  
n=30, median age: 33 years, 8 cycles pembrolizumab



Blood 2020 Armand

# Brentuximab / Nivo as consolidation after ATX

## Study Design/Treatment Plan

- AHCT according to institutional standards
- Starting 30-75 days after AHCT:
  - 1.8mg/kg BV and 3mg/kg Nivo every 21 days for planned 8 cycles
  - If one drug discontinued for toxicity, other could be continued
- PET-CT after AHCT/baseline, C4D15, EOT, 12 and 18 mo after treatment
- Primary endpoint: 18-month progression-free survival (PFS)
  - A sample size of 59 evaluable patients will provide approximately 81% power for detecting the increase in 18-month PFS from the baseline of 65% to 80% in this study at 1-sided type I error of 0.05
- Secondary endpoints: overall survival, safety, response rate for pts not in CR
- PFS and response assessed by investigators according to 2014 Lugano classification

# Brentuximab / Nivo as consolidation after ATX

## PFS according to number of risk factors

19-month PFS in pts with:

1 risk factor (n=21) – 93%

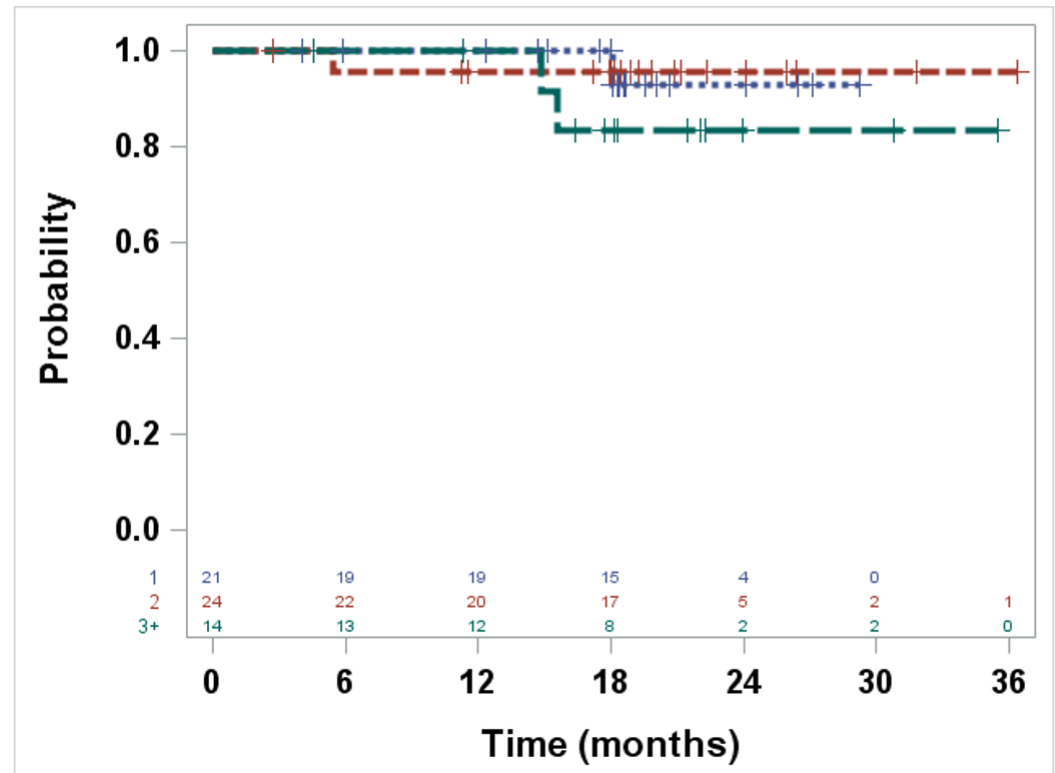
(95 CI 59-99%)

2 risk factors (n=24) – 96%

(95 CI 73-99%)

3+ risk factors (n=14) – 83%

(95 CI 48-96%)



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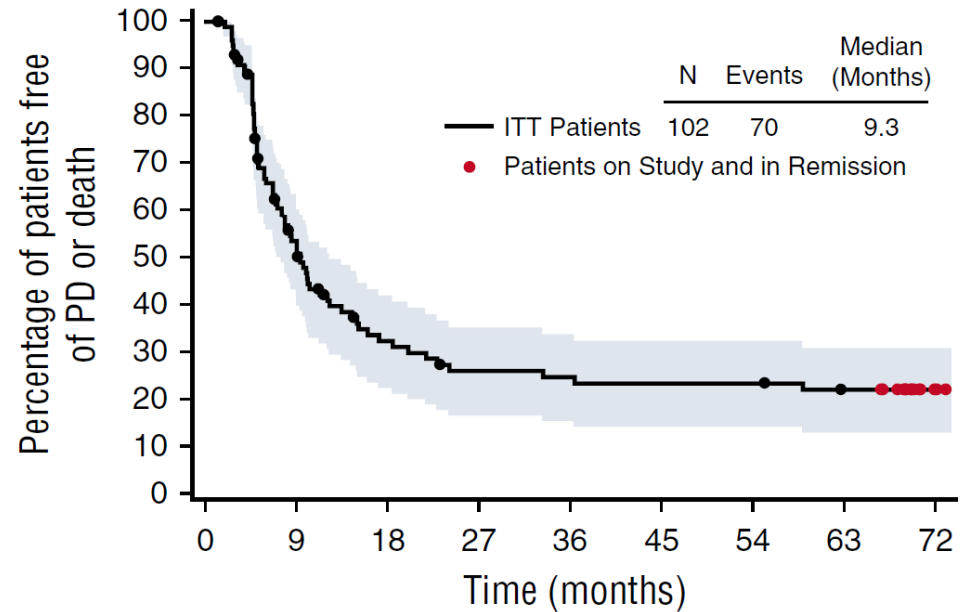
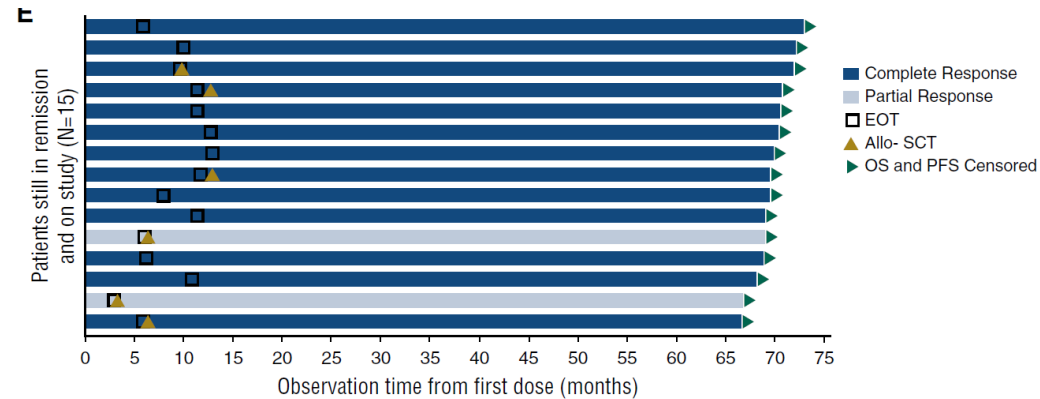


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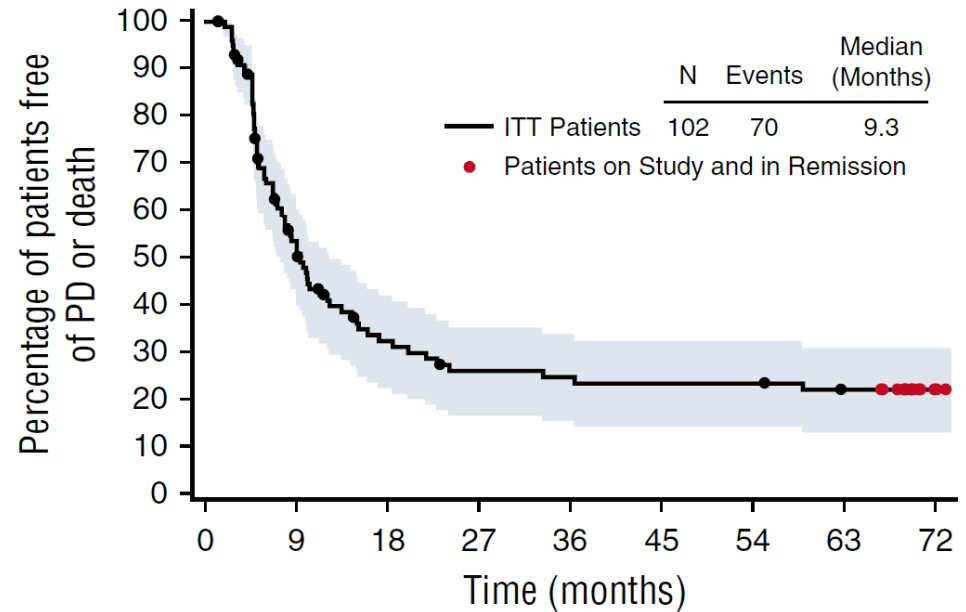
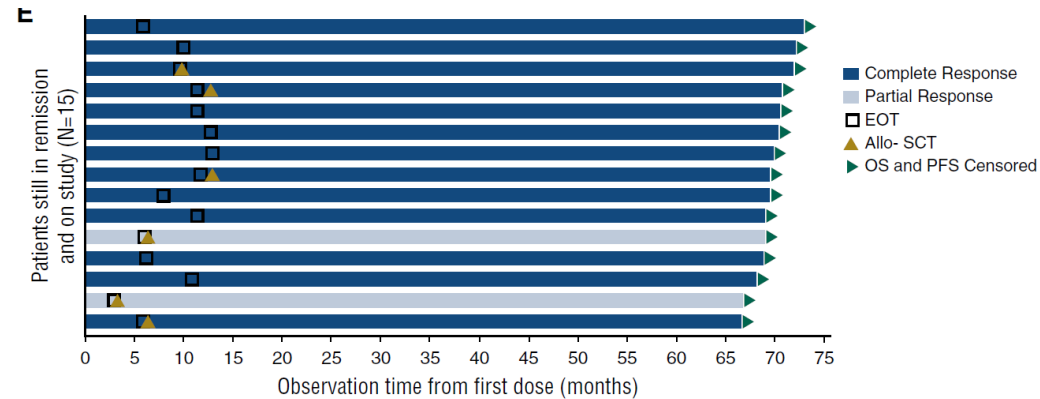
# Possible cure with BV in heavily pretreated patients

- Phase II trial
- n=102 patients
- Median previous regimens: 3.5
- ORR: 75%
- Median PFS: 5.6 months
- 38% of pts who achieved CR (13/34) remained in remission for 5 years and may be cured.
- 9 of these 13 long-term CRs did not undergo Allo-TX.



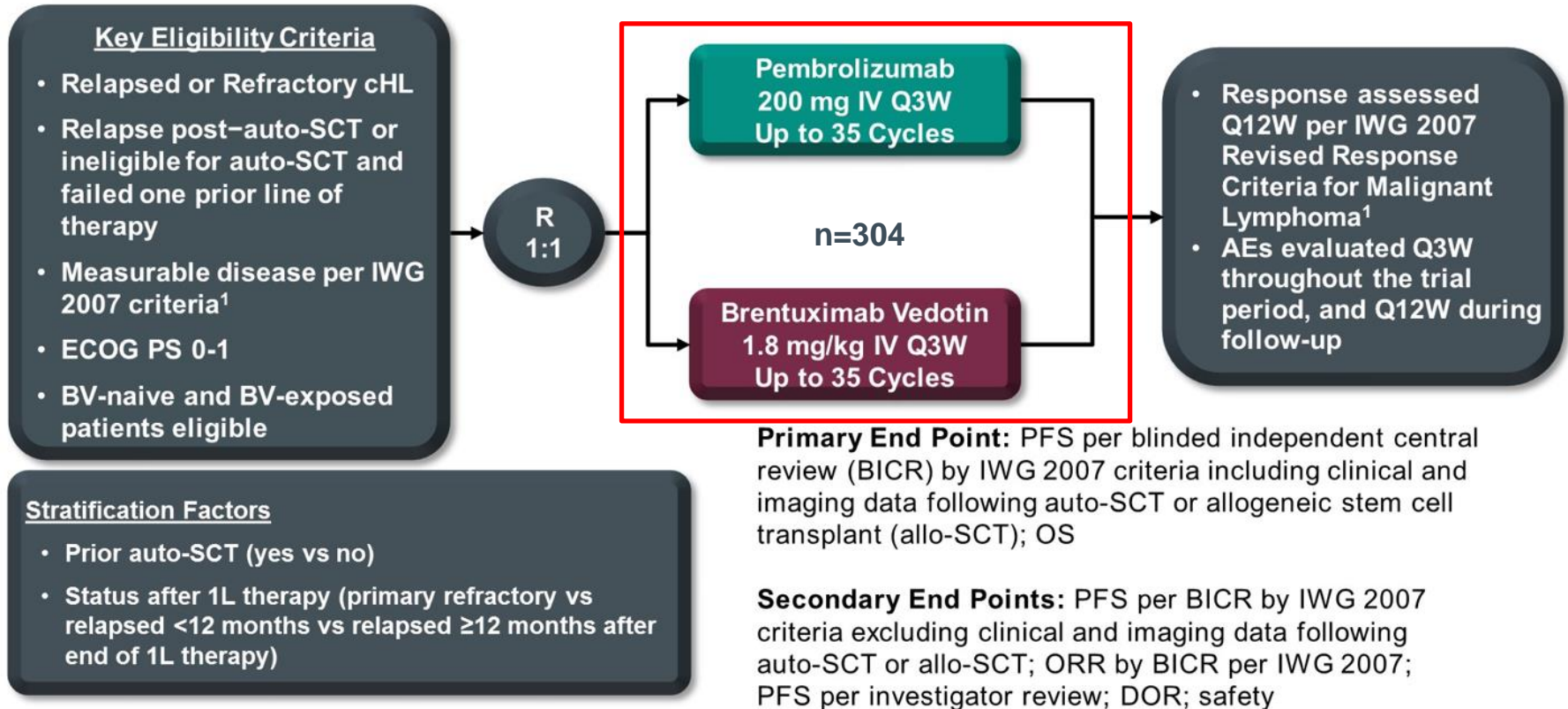
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# KN-204: Pembrolizumab vs BV

## KEYNOTE-204 Study Design (NCT02684292)

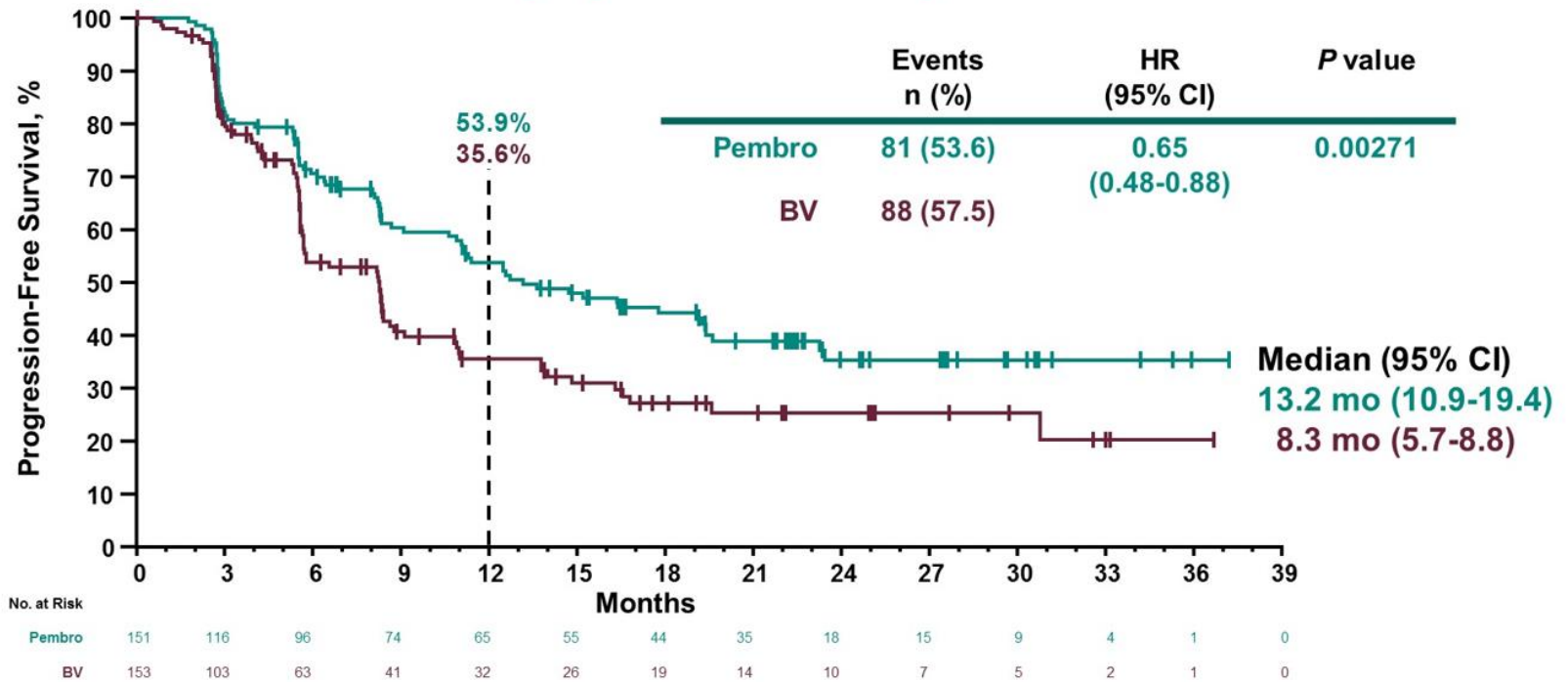


1. Cheson BD et al. *J Clin Oncol.* 2007;25:579-586.

# KN-204: Pembrolizumab vs BV

## Primary End Point: Progression-Free Survival Per Blinded Independent Central Review

Including Clinical and Imaging Data Following Auto-SCT or Allo-SCT



Data cutoff: January 16, 2020.



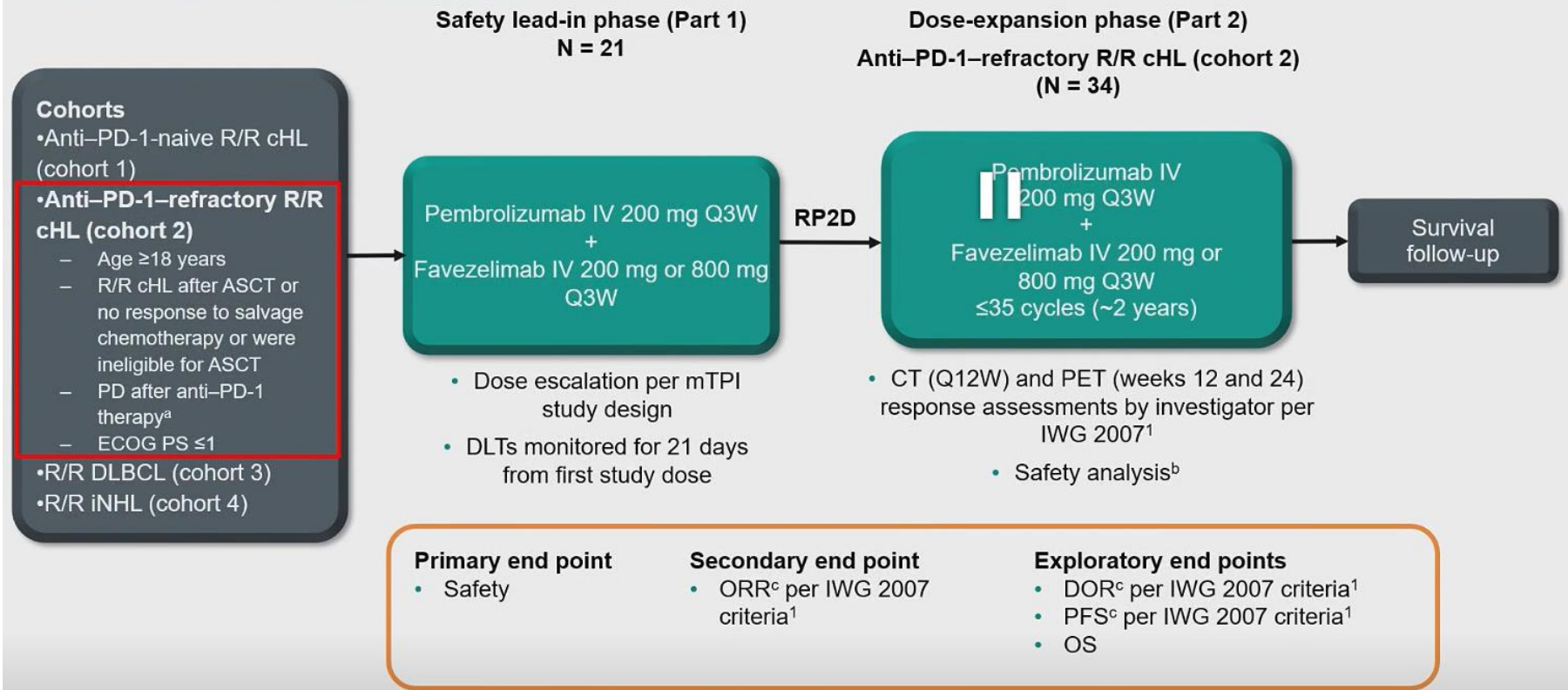
# Safety and Dose-Expansion Study of Combination Favezelimab (anti-LAG-3) Plus Pembrolizumab in Patients With Relapsed or Refractory Classical Hodgkin Lymphoma Refractory to Anti-PD-1 Treatment

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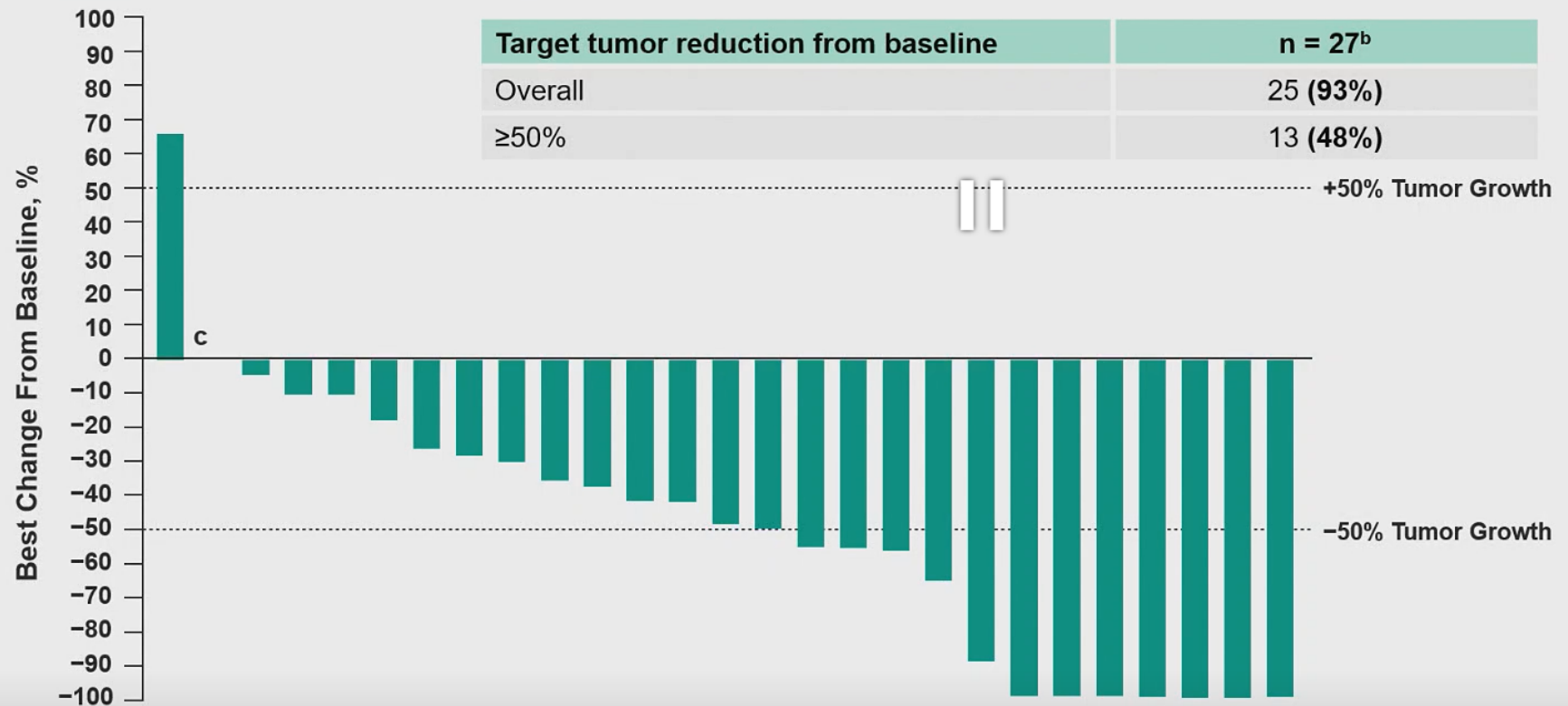
# Favezelimab with pembrolizumab

## Study Design (NCT03598608)



# Favezelimab with pembrolizumab

## Best Change From Baseline in Target Lesion Size<sup>a</sup>



ASH & ISHL 2022 Timmerman

# Favezelimab with pembrolizumab

## Conclusions

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- The RP2D was determined to be favezelimab 800 mg Q3W + pembrolizumab 200 mg Q3W
  - Only 1 DLT was observed across all cohorts
  - No DLTs were observed with the favezelimab 800 mg dose
- The combination had a manageable safety profile in patients with cHL refractory to anti-PD-1 therapy
- Favezelimab + pembrolizumab demonstrated promising antitumor activity in patients with cHL refractory to anti-PD-1 therapy
  - ORR, 30% (CR, 9%; PR, 21%)
  - 25 of 27 (93%) patients who had both baseline and postdose assessments by the data cutoff date had a baseline reduction in target lesions
- A phase 3 study investigating a coformulation of favezelimab/pembrolizumab in patients with cHL refractory to anti-PD-1 therapy is under way (NCT05508867)

# Case presentation

Before salvage treatment we performed a new biopsy. Due to previous BV exposure the patient received 2 cycles Pembro and GVD and a new PET scan showed complete metabolic response in June 2024.

He received high dose chemotherapy with stem cell support in July 2024.

After engraftment and demission from stem cell ward he proceeded to radiotherapy and then to consolidative pembrolizumab for 6 months.

# Agenda:

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- **Salvagetherapy at first relapse:**
  - Radiotherapy
  - BV +/- chemotherapy
  - CPI
- **Consolidation after stem cell transplant:**
  - AETHERA
  - CPI
- **Later treatment lines:**
  - CPI vs BV
  - CPI combinations
- **Allogenic stem cell transplant:**
  - New data



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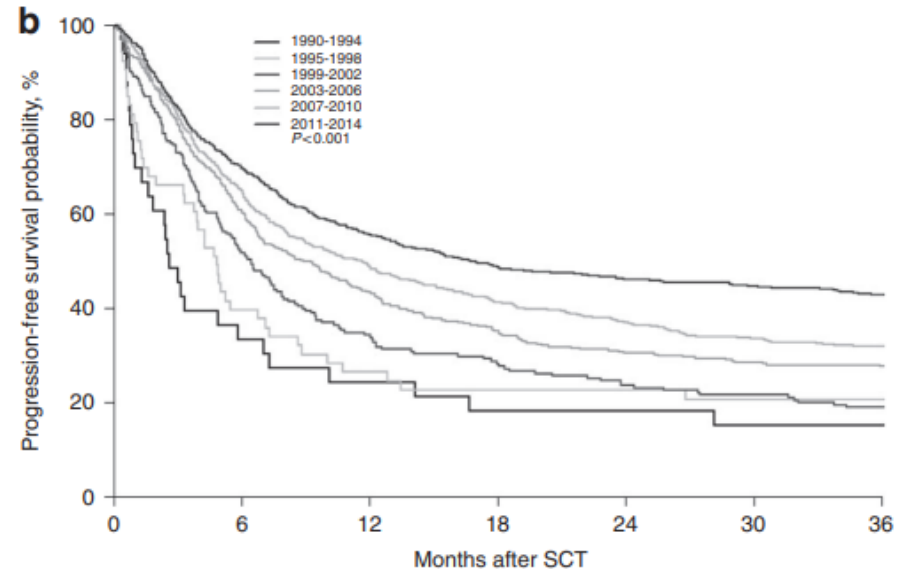
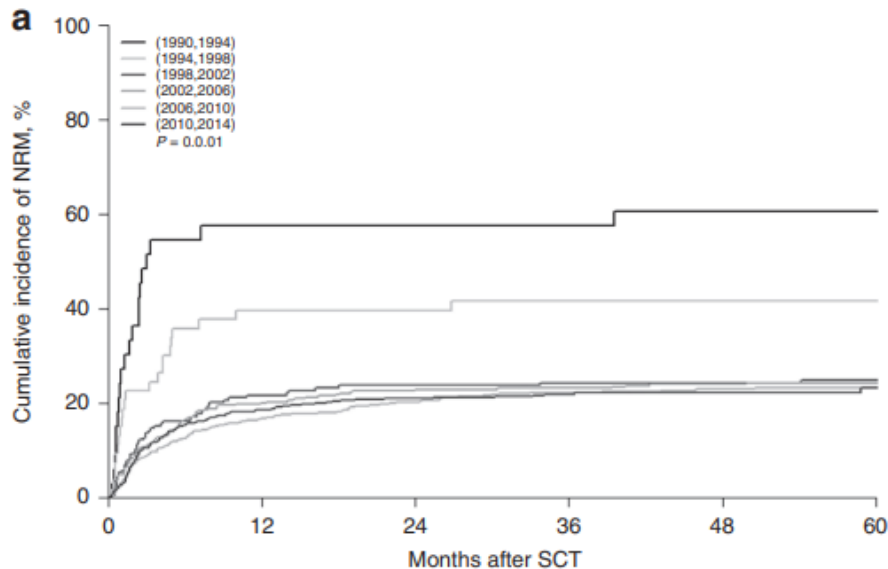
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UND ONKOLOGISCHES ZENTRUM

# Allogenic TX in R/R Hodgkin Lymphoma

EBMT retrospective analysis of 2204 patients from 1990 to 2014:

- Number increased over time including Haplo-TX
- RIC > MAC in last decade
- More chemosensitive disease before TX



**Teresa Mages**  
**Sandro Wagner**  
**Dominik Kiem**  
**Marie Mayer**  
**Lukas Weiss**  
**Richard Greil**  
**Alexander Egle**

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Hämatologische / Hämostaseologische  
Ambulanz C4 EG

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## Unseren Patienten



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