



Lymphome de Hodgkin avancé en 1[°]ligne



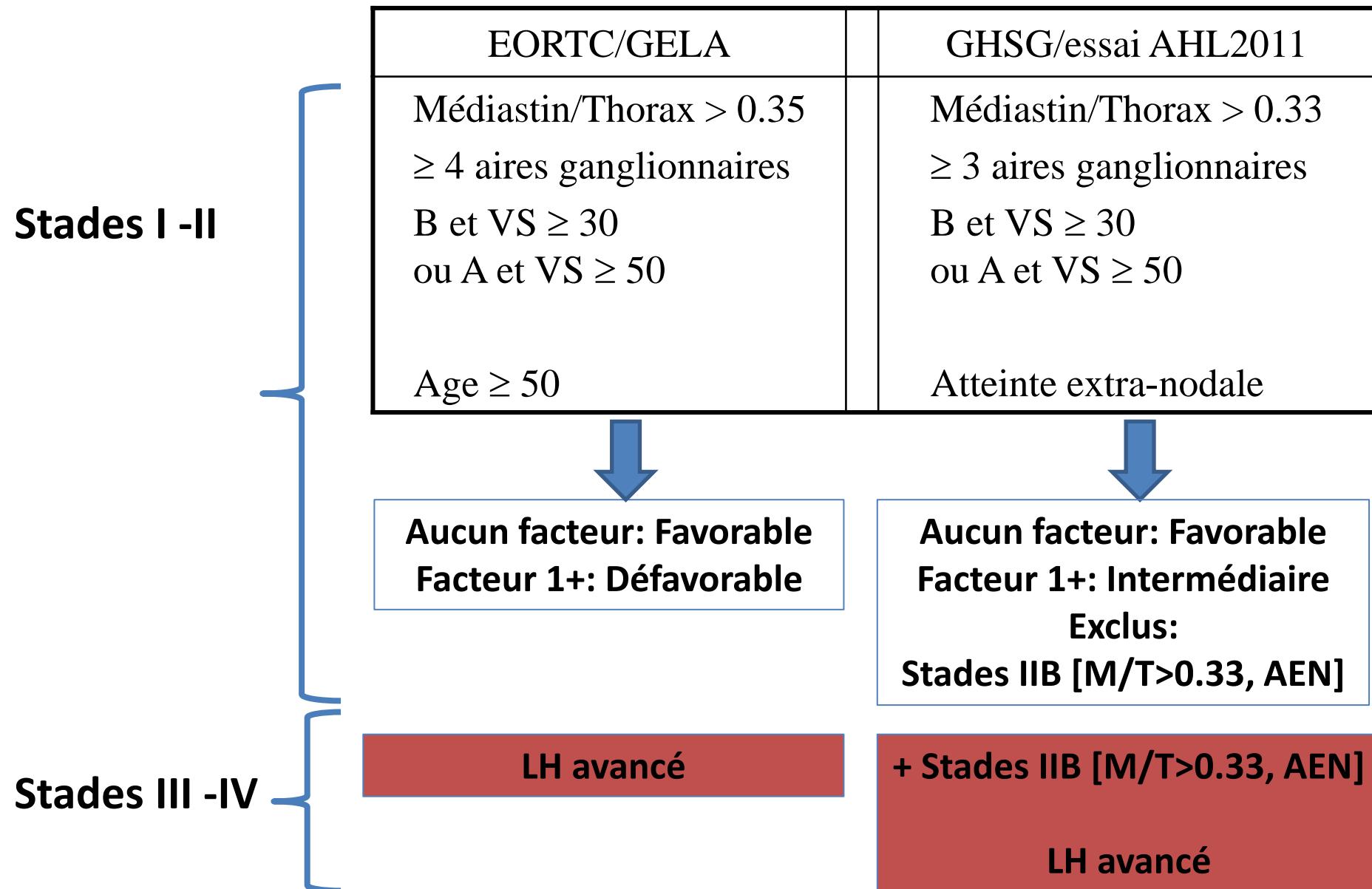
Centre Hospitalier Universitaire Dijon

Cédric Rossi MD, PhD
Hématologie clinique
INSERM UMR 1231
CHU Dijon Bourgogne – France



Luc Fornecker MD, PHD
Hématologie Clinique
INSERM UMR S_1113
CHU Strasbourg-France

Stratification



La TEP modifie-t-elle la prise en charge initiale?

| | | n | Δ Stade (%) | Δ management (%) |
|------------------|--------|-----|-------------|------------------|
| Shah (2000) | LNH/LH | 29 | - | 31 |
| Raannani (2005) | LNH/LH | 103 | 36 | 45 |
| Hernandez (2006) | LNH/LH | 47 | 23 | 15 |
| Naumann (2004) | LH | 88 | 20 | 18 |
| Hutchings (2006) | LH | 30 | - | 33 |
| Rigacci (2007) | LH | 186 | 16 | - |

Schémas de polychimiothérapie: les 2 champions

| ABVD regimen | Dose | D1 | D15 |
|--------------|----------------------------|----|-----|
| Doxorubicin | 25 mg/m ² (IV) | X | X |
| Bleomycin | 10 mg/m ² (IV) | X | X |
| Vinblastine | 6 mg/m ² (IV) | X | X |
| Dacarbazine | 375 mg/m ² (IV) | X | X |

1975

1993

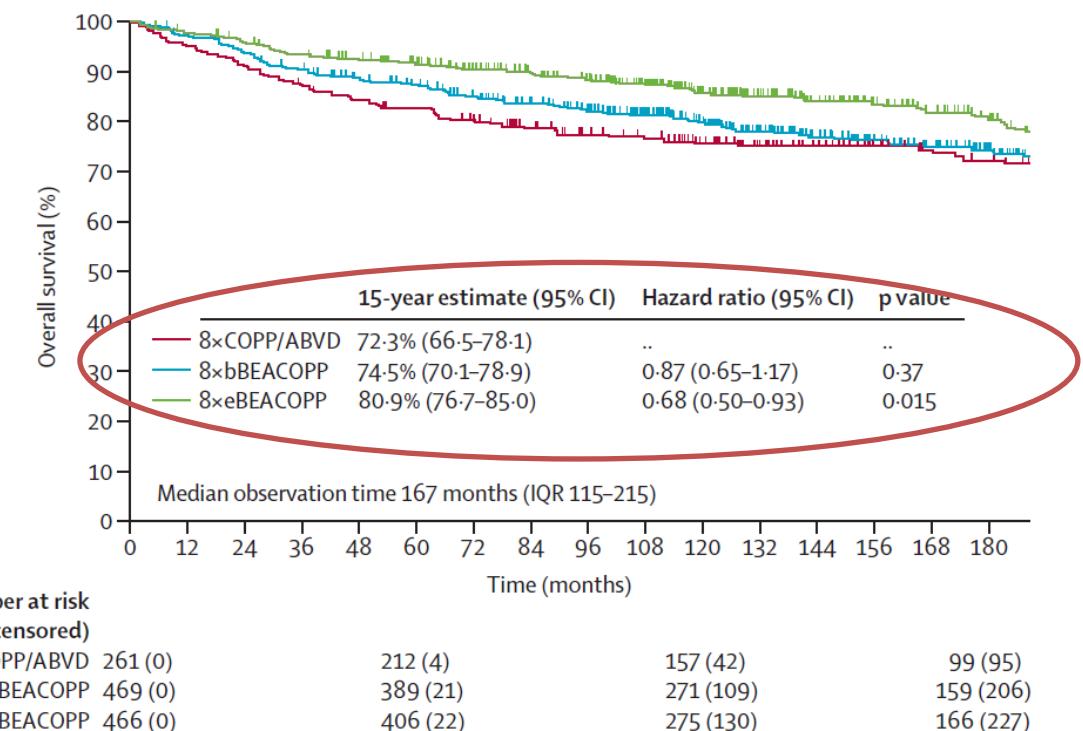
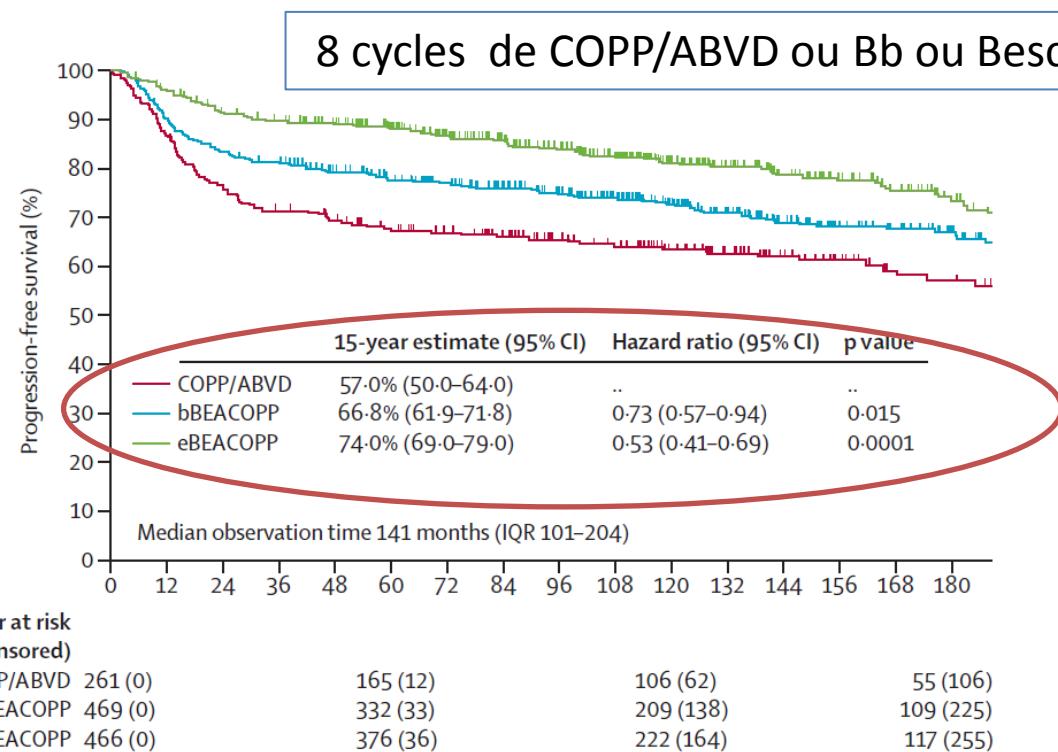
ABVD

- Contrôle de la maladie insuffisant pour 25 à 30 % des pts

| | n | CR | 5y-PFS | Follow-up |
|-------------------|-----|-----|--------|-----------|
| Gordon JCO 2013 | 404 | 73% | 74% | 77 months |
| Chisesi JCO 2011 | 126 | 89% | 78% | 86 months |
| Viviani NEJM 2011 | 166 | 76% | 73% | 61 months |
| Federico JCO 2009 | 102 | 84% | 68% | 41 months |
| Hoskin JCO 2009 | 261 | 67% | 76% | 52 months |

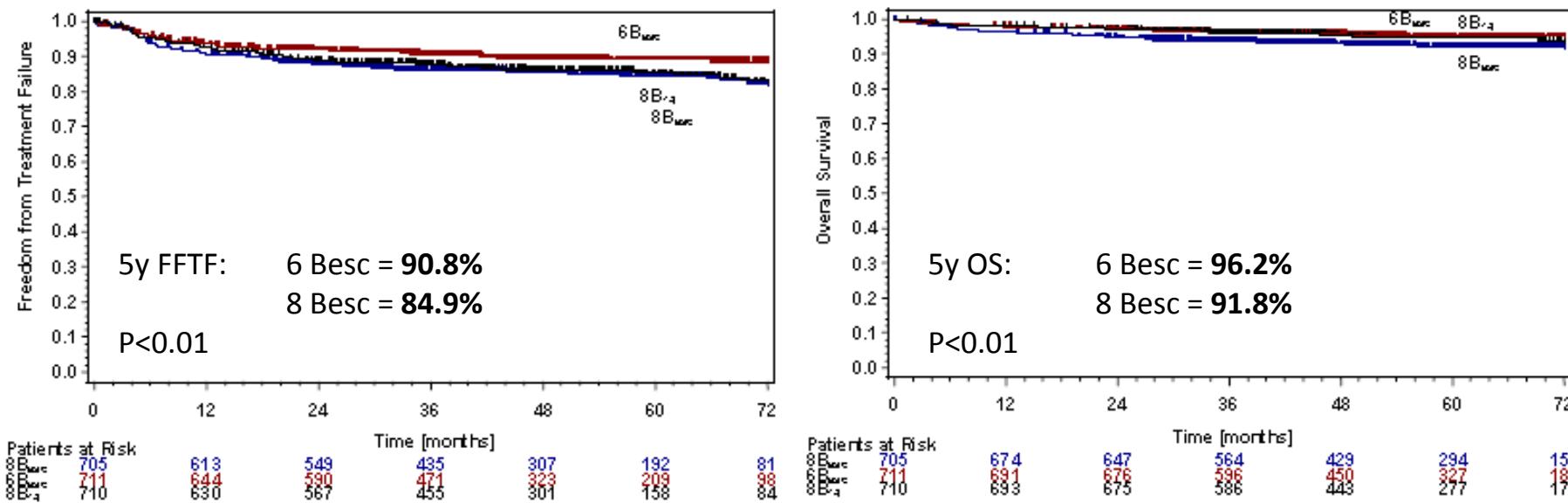
- Toxicité
 - Pulmonaire
 - Mayo clinic (n = 141): 18% des patients
 - MSKCC (n = 152): 22% d'arrêt précoce de la bleomycine
 - Hoskin et al (UK) : 10% de toxicité pulmonaire g>3
 - RATHL: Réduction de DLCO moyenne = 11% après 6 ABVD
= 4.3% après 2 ABVD + 4 AVD

BEACOPP: HD9 à 15 ans



| | 8×COPP/ABVD plus RT (n=261) | 8×bBEACOPP plus RT (n=469) | 8×eBEACOPP plus RT (n=466) |
|-------------------------------------------|-----------------------------|----------------------------|----------------------------|
| Second primary malignant neoplasm* | | | |
| Acute leukaemia or MDS | 1 (<1%) | 8 (2%)† | 15 (3%) |
| Non-Hodgkin lymphoma or myeloma | 8 (3%) | 12 (3%) | 8 (2%) |
| Solid tumour | 10 (4%) | 28 (6%) | 27 (6%) |
| Total | 19 (7%) | 48 (10%) | 50 (11%) |
| 10-year cumulative incidence (95% CI) | 5.2% (2.4-8.0) | 7.6% (5.0-10.2) | 6.5% (4.1-8.9) |
| 15-year cumulative incidence (95% CI) | 7.2% (3.7-10.7) | 13.0% (9.1-16.9) | 11.4% (7.6-15.1) |
| Standardised incidence ratio (95% CI) | 2.0 (1.2-3.2) | 2.6 (1.9-3.4) | 2.6 (1.9-3.4) |

BEACOPP: HD15



| Causes of death - N (%) | BEACOPPesc x 8 (N=705) | BEACOPPesc x 6 (N=711) |
|---------------------------------|------------------------|------------------------|
| Total | 53 (7.5) | 33 (4.6) |
| Hodgkin lymphoma | 13 (1.8) | 11 (1.5) |
| Toxicity of chemo | 15 (2.1) | 6 (0.8) |
| 2nd Neoplasia | 13 (1.8) | 5 (0.7) |
| Toxicity of salvage treatment | 2 (0.3) | 2 (0.3) |
| Other | 10 (1.4) | 9 (1.3) |

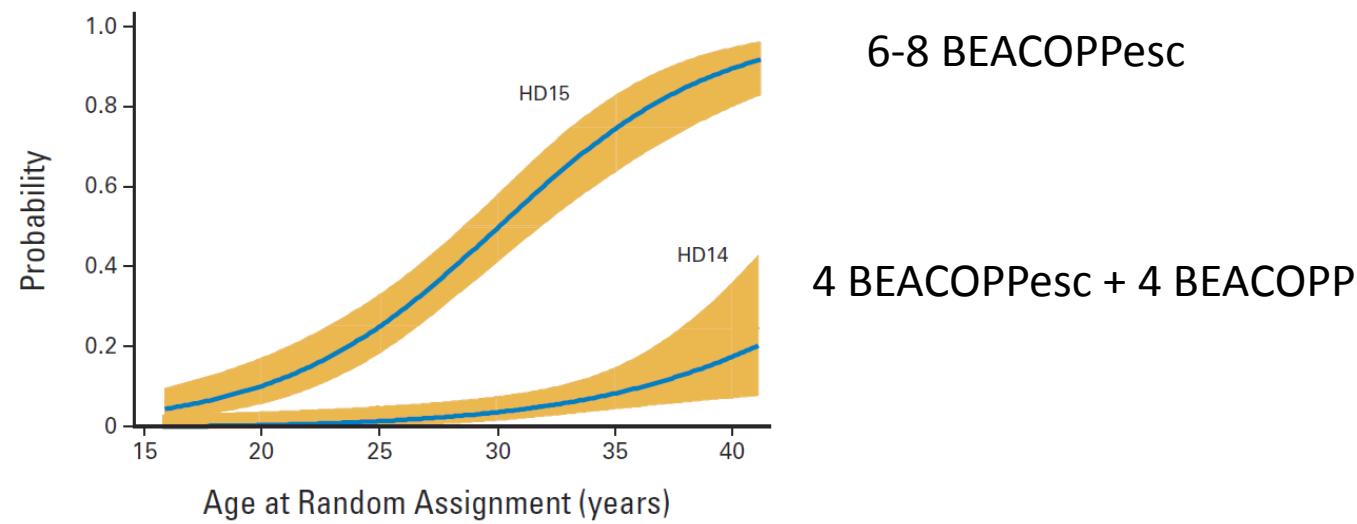
BEACOPPesc : Fertilité

- Hommes

90% Azoospermie après 8 x BEACOPPesc

Sienawski, Ann Oncol, 2008

- Femmes: Aménorrhée 4 ans après fin Chimio

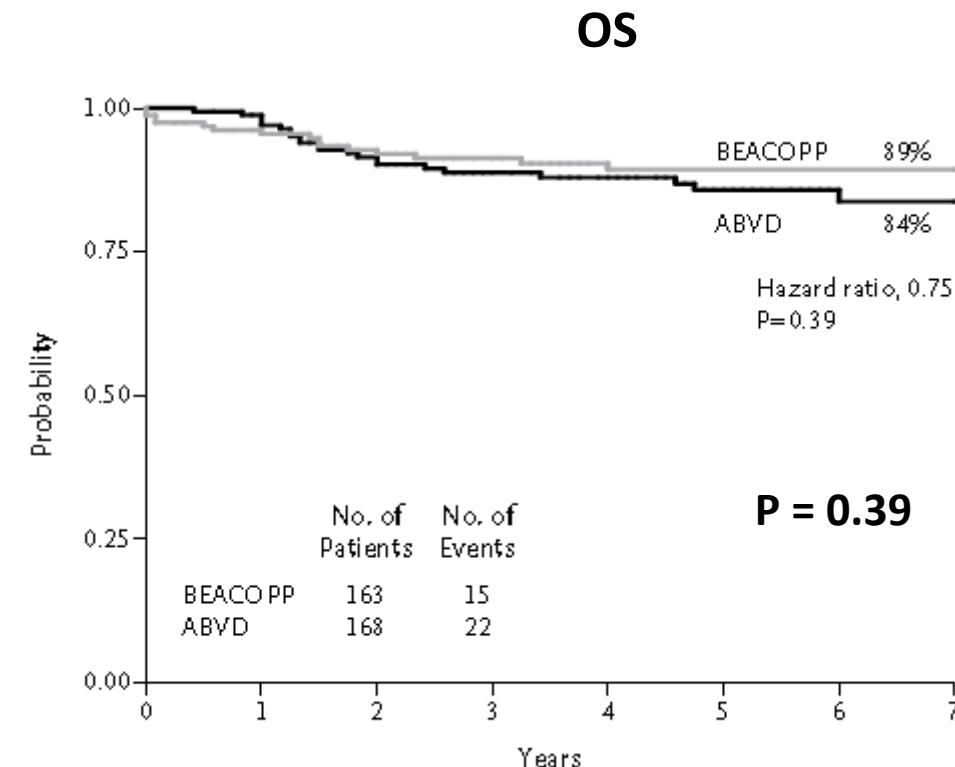
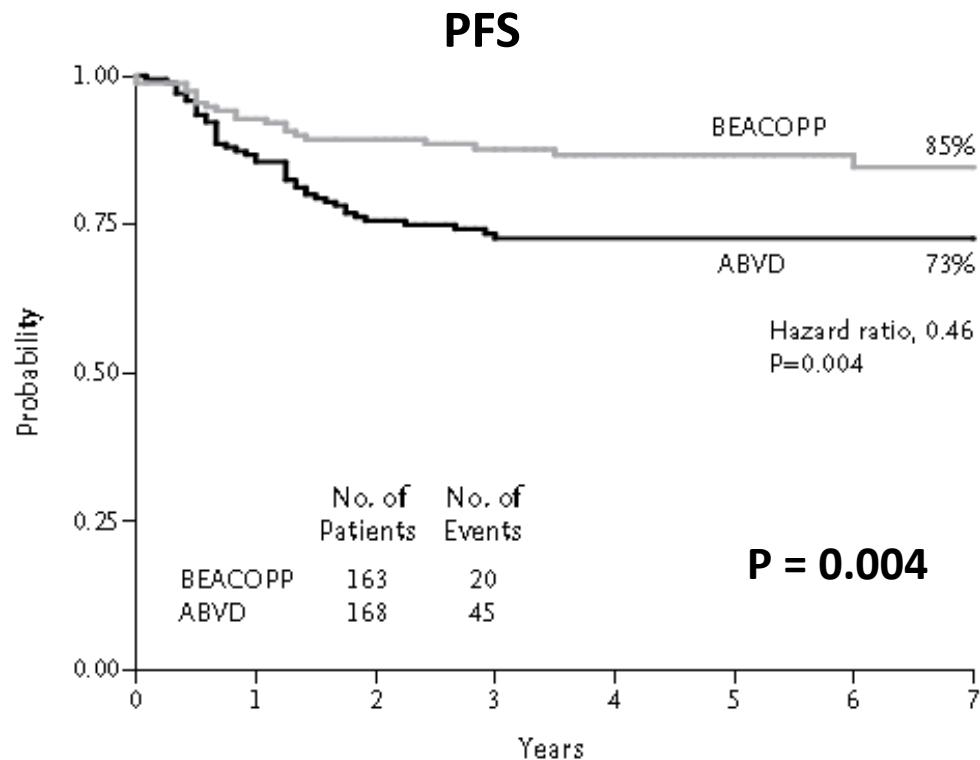


Behringer K, JCO, 2013

BEACOPP vs ABVD

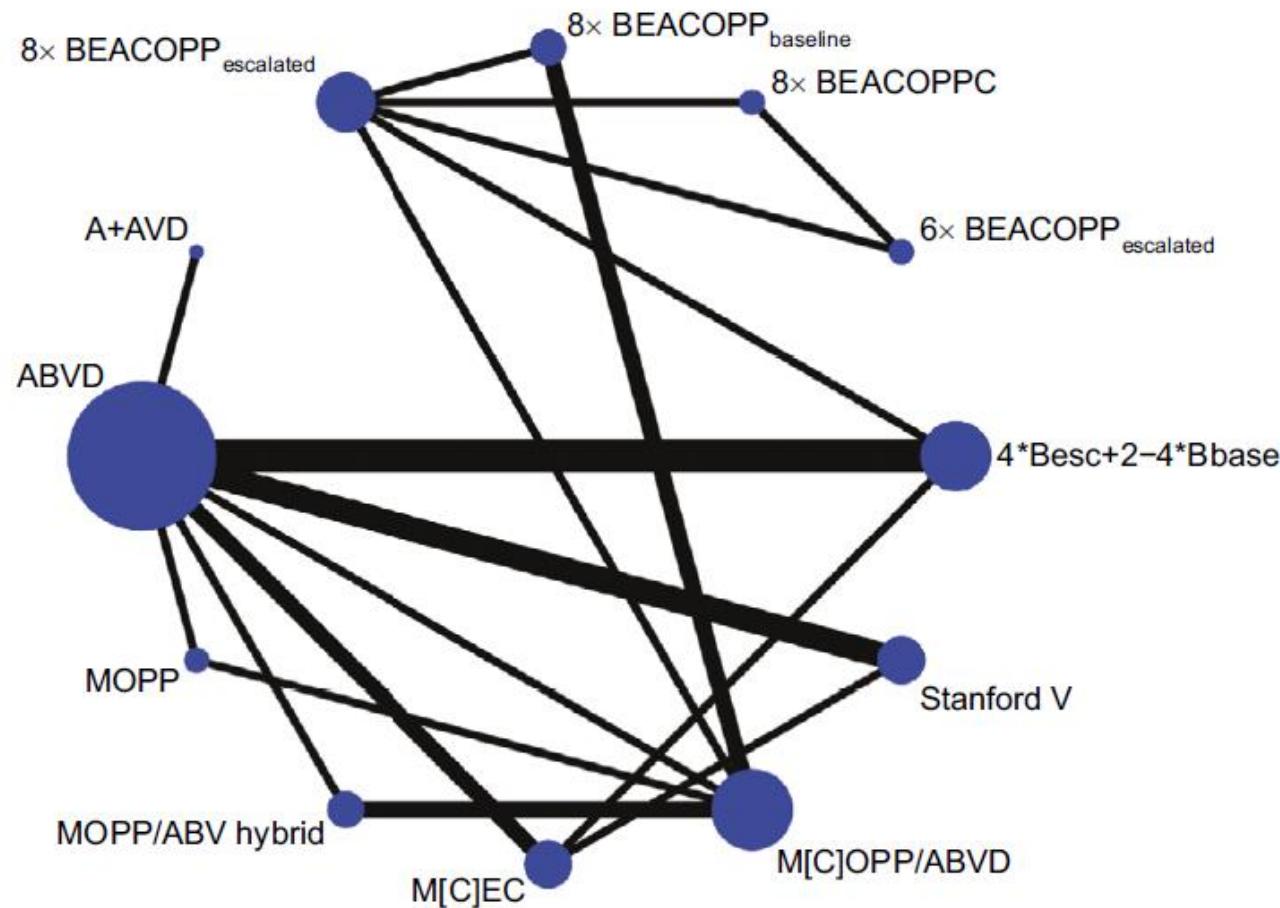
Stage IIB- IV
BEACOPP [esc x 4 + Baseline x 2 ou 4] vs ABVD

Median FU = 61 months



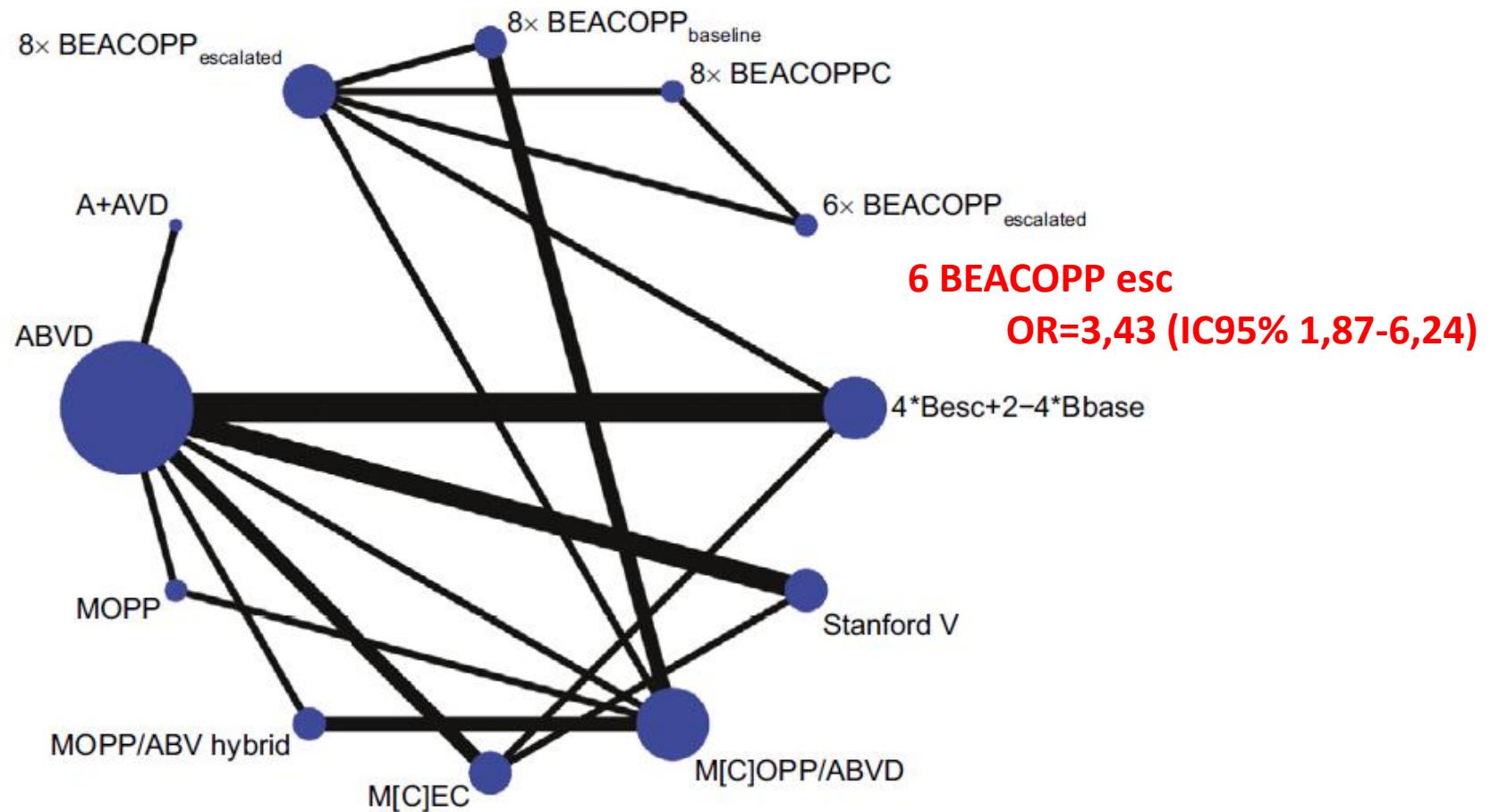
BEACOPP vs ABVD

Représentation des comparaisons de différents schémas de traitement



BEACOPP vs ABVD

Représentation des comparaisons de différents schémas de traitement



Les enjeux à l'ère de la TEP: formes avancées

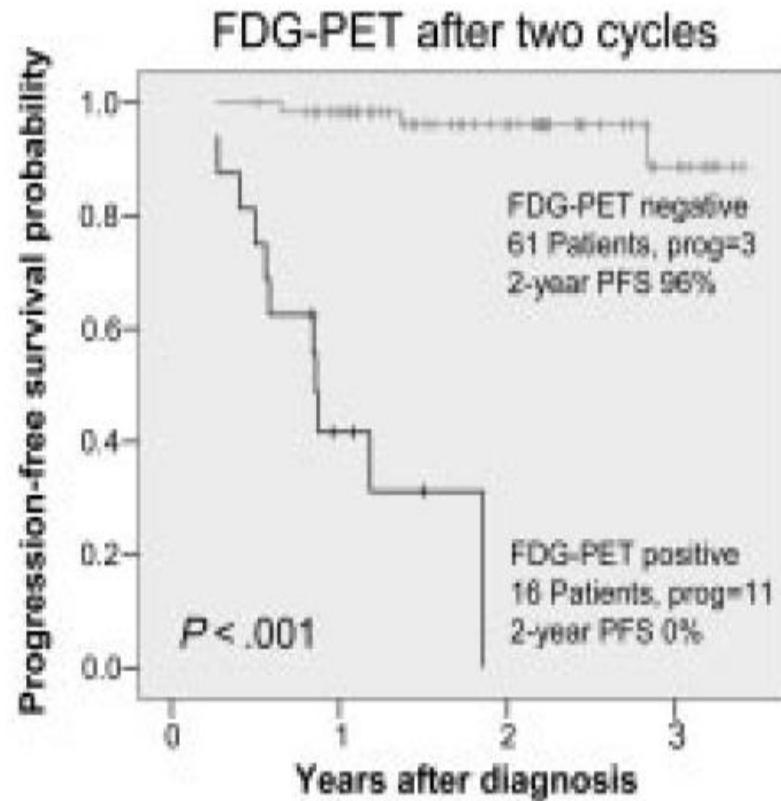
- **ABVD guérit 70 à 75% des patients**
=> Améliorer le contrôle tumoral en identifiant les pts relevant d'un traitement plus intense?
- **BEACOPPesc guérit 85% des patients mais toxicités tardives**
=> Limiter la toxicité en maintenant le contrôle tumoral?

Les enjeux à l'ère de la TEP: formes avancées

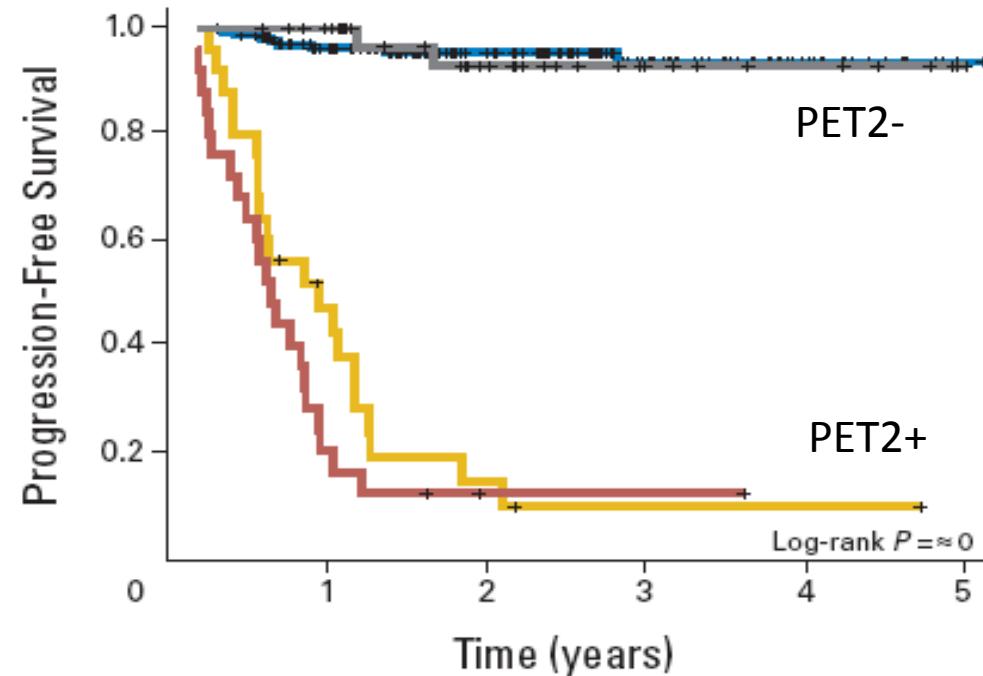
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=> Limiter la toxicité en maintenant le contrôle tumoral?

Peut-on identifier les patients requérant du BEACOPPescaladé ?

La TEP précoce



Huchting M, Blood 2006; 107: 52



Gallamini A, JCO 2007; 25: 3746

2 approches limitant l'exposition au BEACOPPesc

- **Réserver le BEACOPPesc aux mauvais répondeurs**

Escalade des pts TEP2+ après ABVD

- Inconvénients:
 - Dose intensité insuffisante pour les maladies les plus résistantes / sélection de clones résistants
 - VPP < VPN TEP2
- Avantage: tolérance ABVD

- **Désescalade des pts TEP2- après BEACOPPesc pour tous**

- Inconvénient: % TEP2- après BEACOPPesc?
- Avantage: VPN > VPP TEP2

3 essais ABVD puis escalade des TEP2 pos

| | Nb pts | PFS | OS | % TEP2 pos |
|------------------------------------|--------|----------------------------------------------------------------|---------------------------------------------------------------|--------------|
| RATHL (Johnson et al NEJM 2016) | 1214 | PFS à 3 ans: - des TEP 2 pos: 67,5% - des TEP 2 neg: 86% | OS à 3 ans: - des TEP 2 pos: 87,8% - des TEP 2 neg: 97% | 16% (DS 4-5) |
| Press JCO 2016 | 336 | PFS à 2 ans : - des TEP 2 pos: 64% - des TEP 2 neg: 82% | - | 18% (DS=4-5) |
| HD 0607 (Gallamini et al JCO 2018) | 1000 | PFS à 2 ans : - des TEP 2 pos: 66% - des TEP 2 neg: 89% | - | 19,6% |

18TLO1387

Articles

Emilia

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THELANCETONCOLOGY-D-18-01387R2

S1470-2045(18)30784-8

Embargo: January 15, 2019—23:30 (GMT)

Doctopic: Primary Research

Linked to 18-1847

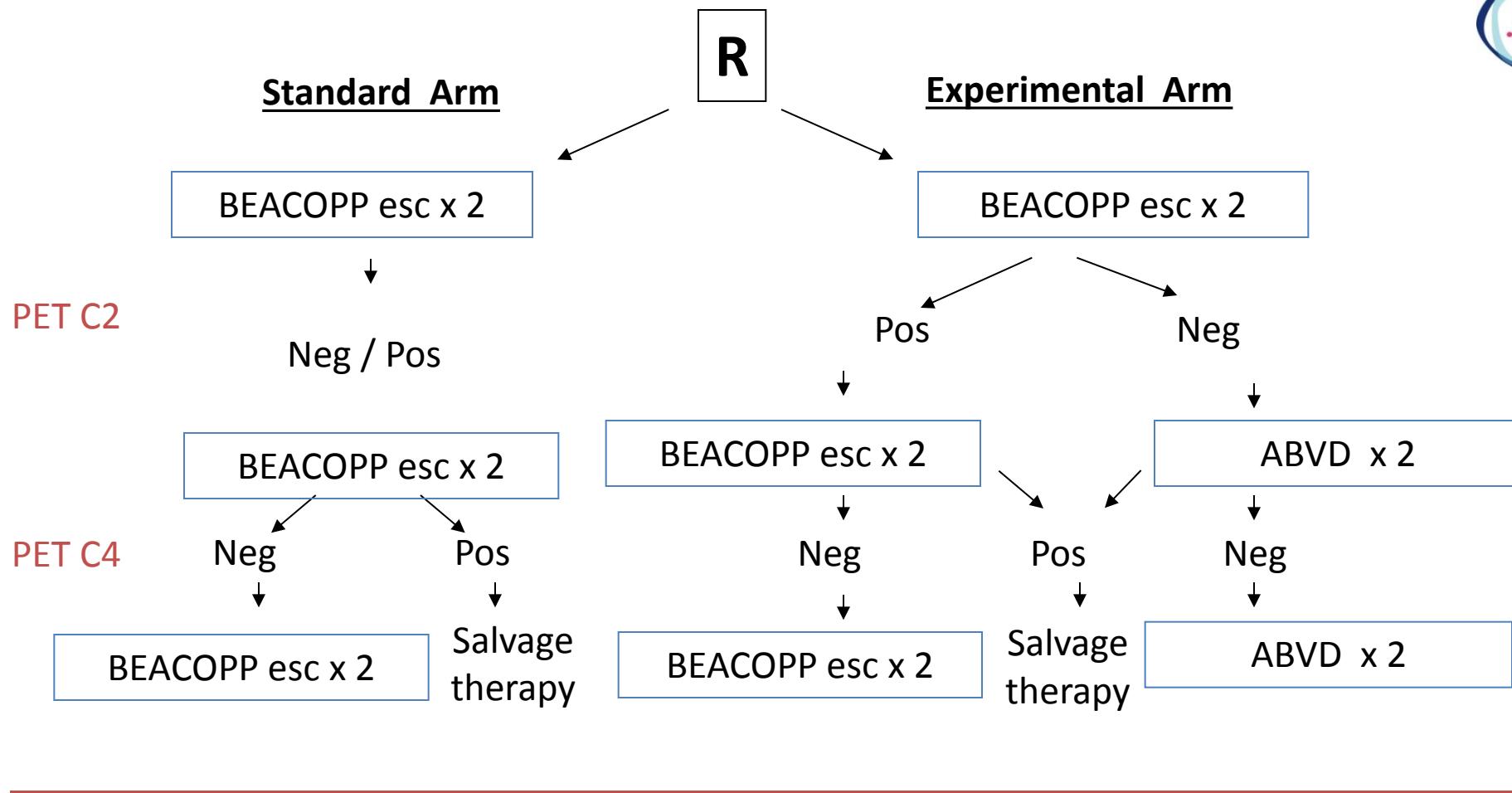
PET-adapted treatment for newly diagnosed advanced Hodgkin lymphoma (AHL2011): a randomised, multicentre, non-inferiority, phase 3 study



René-Olivier Casasnovas, Reda Bouabdallah, Pauline Brice, Julien Lazarovici, Hervé Ghesquieres, Aspasia Stamatoullas, Jehan Dupuis, Anne-Claire Gac, Thomas Gastinne, Bertrand Joly, Krimo Bouabdallah, Emmanuelle Nicolas-Virelizier, Pierre Feugier, Franck Morschhauser, Richard Delarue, Hassan Farhat, Philippe Quittet, Alina Berriolo-Riedinger, Adrian Tempescul, Véronique Edeline, Hervé Maisonneuve, Luc-Matthieu Fornecker, Thierry Lamy, Alain Delmer, Peggy Dartigues, Laurent Martin, Marc André, Nicolas Mounier, Alexandra Traverse-Glehen, Michel Meignan

-

AHL 2011



AHL 2011: caractéristiques des patients

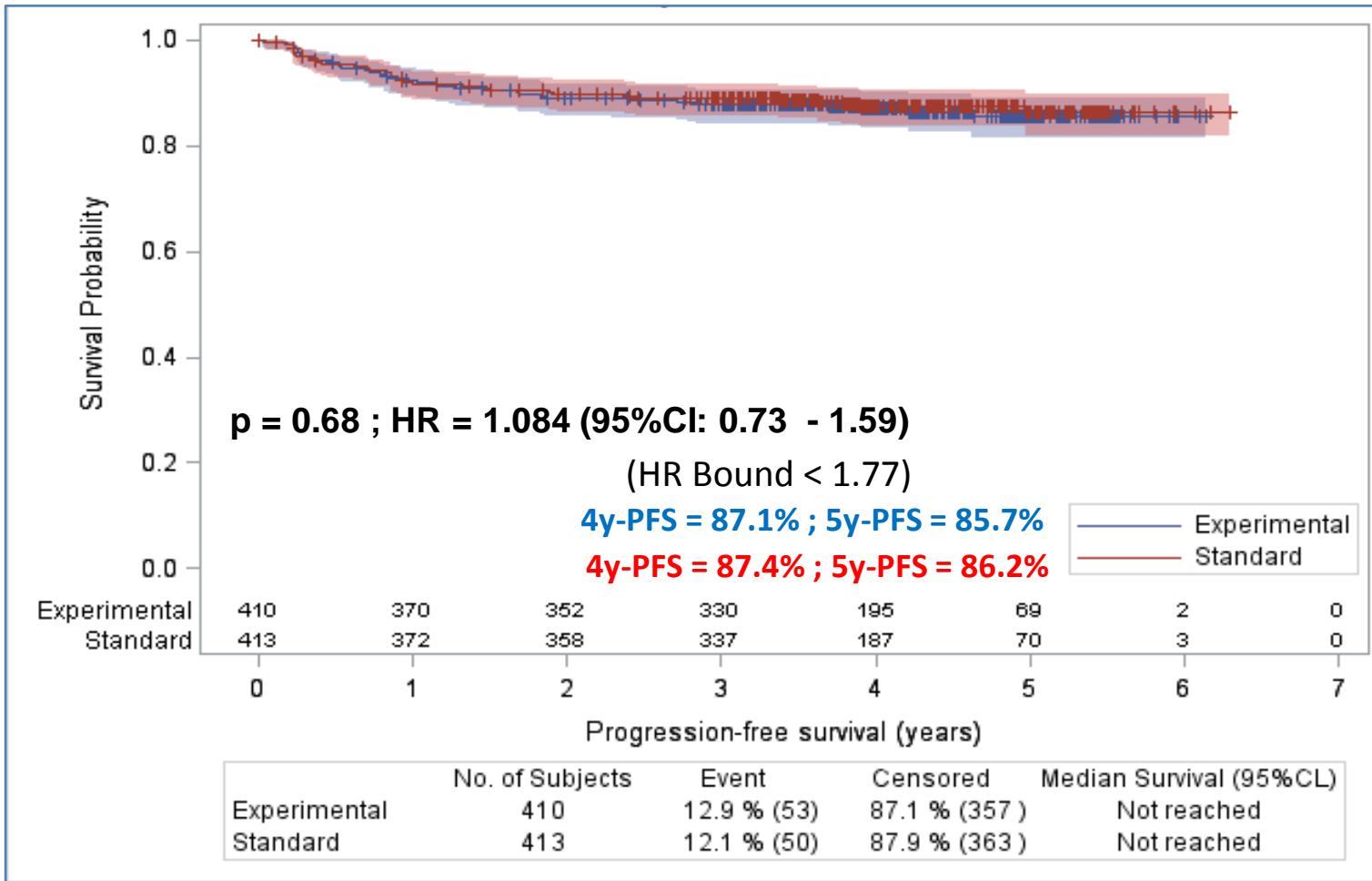
| | Standard arm | | Experimental arm | | All | |
|------------------------------|--------------|--------------|------------------|------------|---------|--------------|
| | N = 413 | | N = 410 | | N = 823 | |
| Median age (range) | | 31 (16 – 60) | | 29 (16-60) | | 30 (16 – 60) |
| Male (n - %) | 263 | 64% | 253 | 62% | 516 | 63% |
| ECOG (n - %) | | | | | | |
| 0 | 203 | 49% | 193 | 47% | 396 | 48% |
| 1 | 177 | 44% | 184 | 45% | 361 | 45% |
| 2 | 27 | 7% | 31 | 8% | 58 | 7% |
| B symptoms (n - %) | 282 | 68% | 278 | 68% | 560 | 68% |
| Ann Arbor stage (n - %) | | | | | | |
| I | 0 | 0 | 2 | 0.5% | 2 | 0.2% |
| II | 44 | 11% | 52 | 13% | 96 | 12% |
| III | 114 | 28% | 115 | 28% | 229 | 28% |
| IV | 255 | 62% | 241 | 59% | 496 | 60% |
| Stage IIB (n - %) | 42 | 10% | 45 | 13% | 87 | 11% |
| M/T \geq 0.33 | 41 | 98% | 45 | 100% | 86 | 99% |
| Extra nodal localization | 6 | 14% | 4 | 9% | 10 | 12% |
| Bone marrow involved (n - %) | 33 | 8% | 32 | 8% | 65 | 8% |
| IPS group (n - %) | | | | | | |
| 0-2 | 160 | 39% | 183 | 45% | 343 | 42% |
| \geq 3 | 250 | 61% | 225 | 55% | 475 | 58% |

AHL 2011: résultats TEP 2 (central review)

| | Standard arm n = 413 | Experimental arm n = 410 | All n = 823 |
|-----------------|-------------------------|-----------------------------|----------------|
| PET2 | | | |
| Evaluable | 398 | 96% | 397 |
| Negative | 349 | 88% | 346 |
| Positive | 49 | 12% | 51 |
| | | | |
| | | | |

AHL 2011: PFS selon le bras de traitement

(Primary endpoint – ITT population)



Median follow-up = 50.4 months

BEACOPP x 6

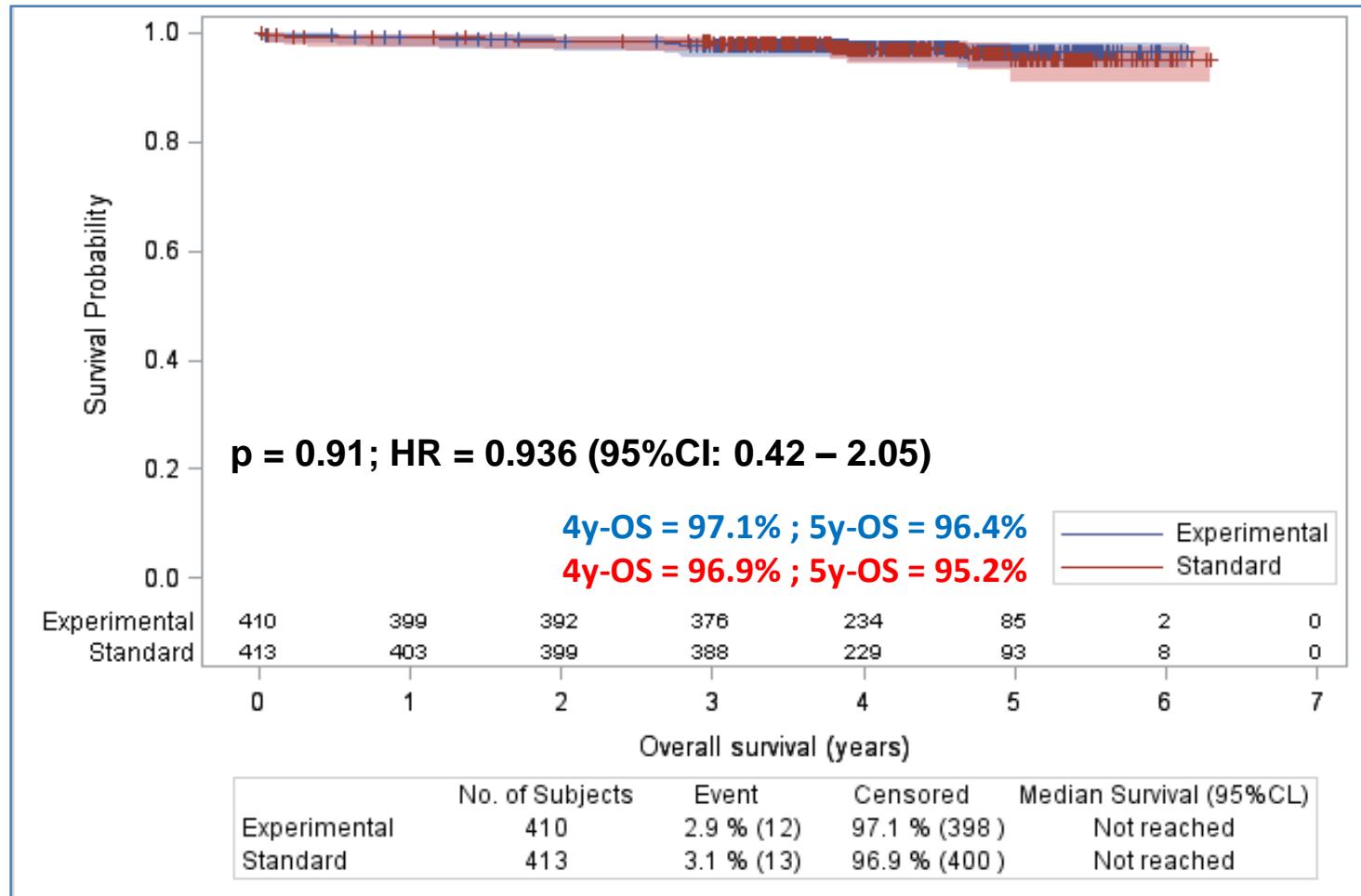
vs

BEACOPP x 6 (PET2+)

BEACOPP x 2 + ABVD x 4 (PET2-) (84%)



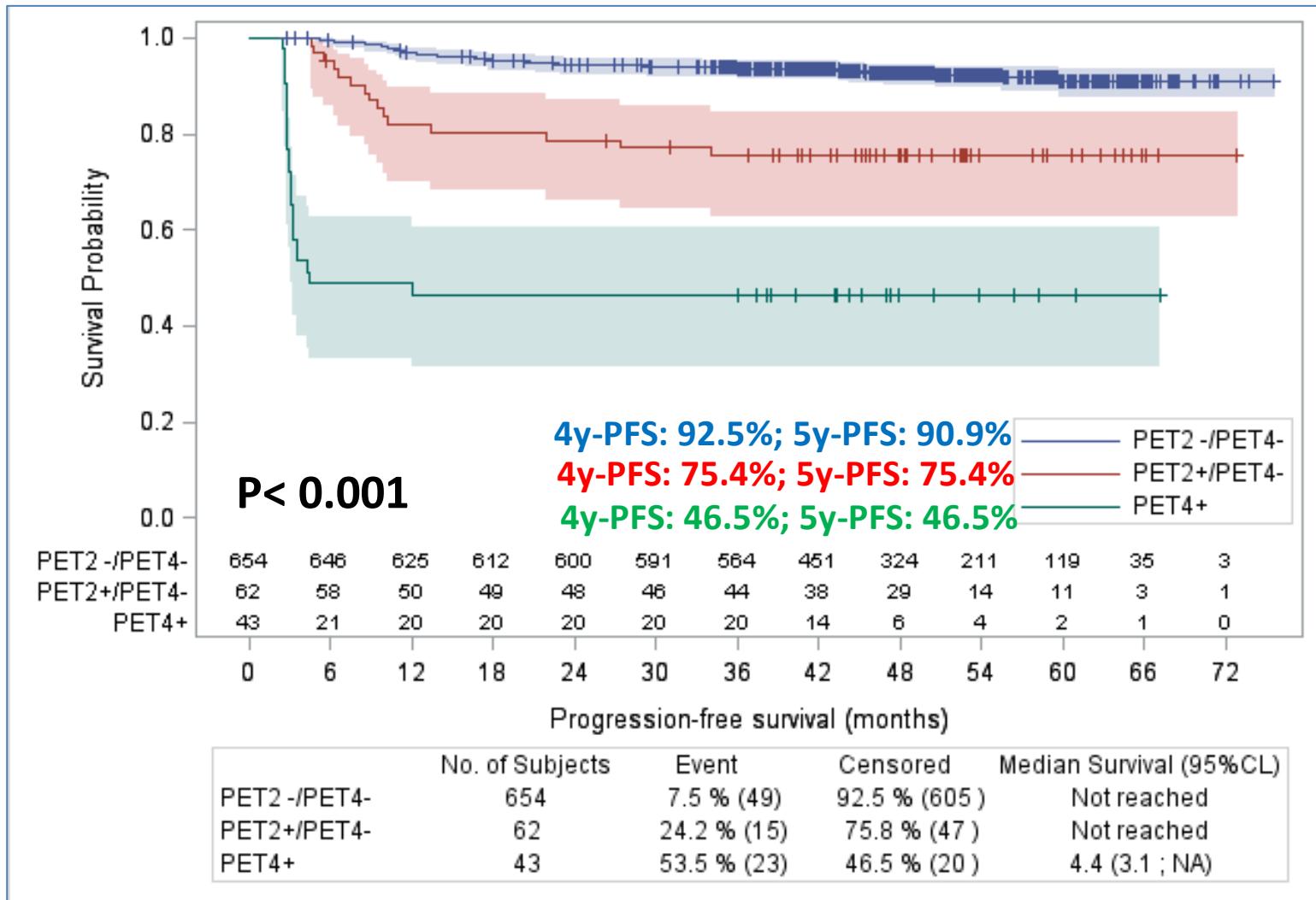
AHL 2011: OS according to treatment arm



AHL 2011: TEP 2 et 4 (central review)

| | Standard arm n = 413 | | Experimental arm n = 410 | | All n = 823 |
|-----------------|-------------------------|------------|-----------------------------|------------|----------------|
| PET2 | | | | | |
| Evaluable | 398 | 96% | 397 | 97% | 795 |
| Negative | 349 | 88% | 346 | 87% | 695 |
| Positive | 49 | 12% | 51 | 13% | 100 |
| PET4 | | | | | |
| Evaluable | 383 | 93% | 376 | 92% | 759 |
| Negative | 356 | 93% | 360 | 96% | 716 |
| Positive | 27 | 7% | 16 | 4% | 43 |

AHL 2011: PFS selon la stratégie TEP-guidée



n = 654 (86%)
 n = 64 (8%)

n = 43 (6%)

AHL 2011: Facteurs influençant la PFS

| Risk factors | n (%) | 4y-PFS % (95%CI) | Univariate analysis | | Multivariate analysis | |
|------------------|-------------|---------------------|---------------------|--------------|-----------------------|---------------|
| | | | HR | p | HR | p |
| PET2/PET4 | PET2-/PET4- | 654 (79%) | 92.5 (90.1-94.3) | | | |
| | PET2+/PET4- | 62 (7.5%) | 75.4 (62.5-84.4) | 3.588 | <0.0001 | 3.316 |
| | PET4+ | 43 (5.2%) | 46.5 (31.2-60.4) | 13.14 | <0.0001 | 12.968 |
| IPS | 0-2 | 343 (42%) | 91.9 (88.4-94.4) | | | |
| | ≥3 | 475 (58%) | 83.7 (79.9-86.9) | 1.915 | 0.0025 | 1.6 |

AHL 2011: Effets indésirables

| | Standard Arm | | PET-driven arm | | p |
|--------------------------------------|--------------|-----|----------------|-----|--------|
| | n | % | n | % | |
| Patients with AE of any grade | 412 | 100 | 407 | 100 | NS |
| Patients with AE Grade ≥3 | 402 | 98 | 394 | 97 | NS |
| AE grade ≥3 | | | | | |
| Blood and lymphatic system disorders | 400 | 97 | 388 | 95 | NS |
| Anemia | 286 | 69 | 114 | 28 | <0.001 |
| Leukopenia | 381 | 92 | 367 | 9 | NS |
| Neutropenia | 359 | 87 | 366 | 9 | NS |
| Febrile neutropenia | 145 | 35 | 93 | 23 | <0.001 |
| Thrombocytopenia | 271 | 66 | 163 | 40 | <0.001 |
| Infections and infestations | 78 | 19 | 43 | 11 | <0.001 |
| Sepsis | 29 | 7 | 15 | 4 | 0.04 |
| Lung infection | 12 | 3 | 4 | 1 | NS |
| Other | 48 | 12 | 28 | 7 | 0.02 |
| Gastro-intestinal disorders | 41 | 10 | 41 | 10 | NS |

AHL 2011: Impact sur la Fertilité

- A dedicated study is ongoing ,testing:
 - Female:
 - AMH, inhibin B, 17-beta-oestradiol, FSH, LH levels
 - Male
 - Spermogram
 - FSH, testosterone
 - All:
 - Fertility history including spontaneous pregnancy, medical assisted procreation
 - Fertility preservation procedure
- To date:
 - 73 Pregnancies : **n=28 (6.8%) in Standard and 45 (11%) in the PET-driven arms ($p = 0.036$)**
 - Medical assisted procreation : 6 (21%) vs 6 (7%) in Standard and PET-driven arms respectively

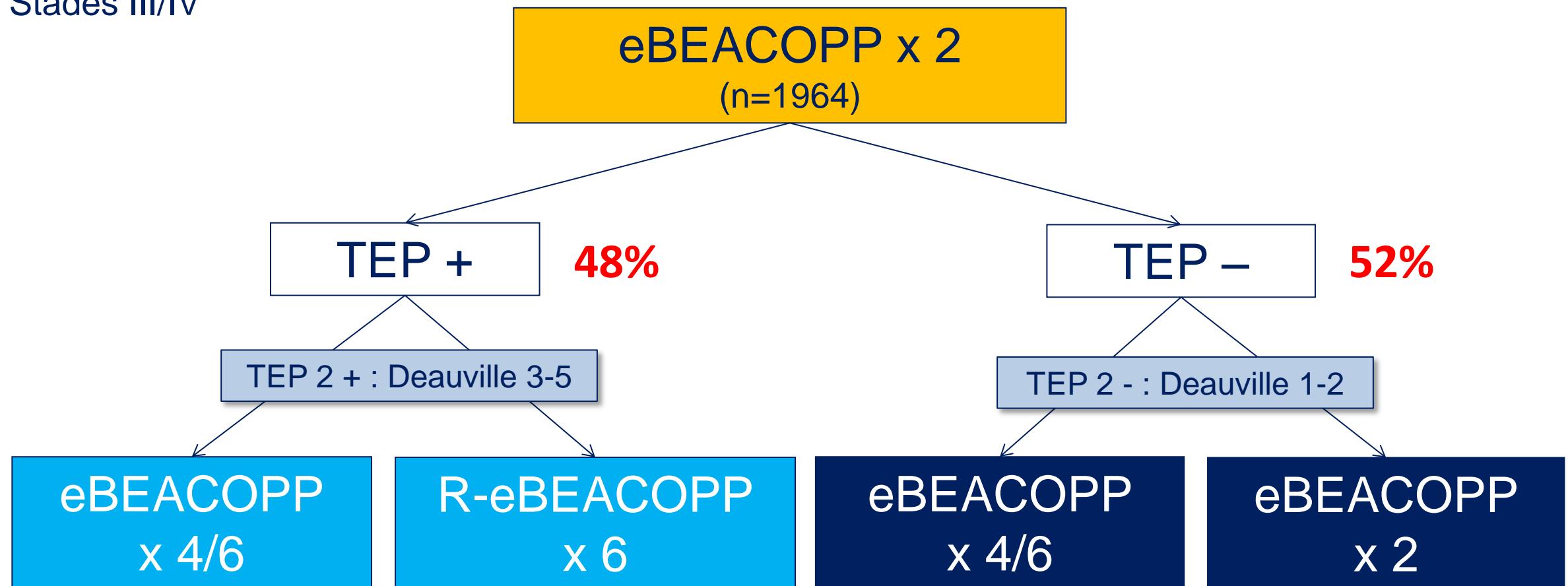
Autres approches

- ▶ Réduire le nombre de cycles de BEACOPP : **HD18**
- ▶ Escalade thérapeutique si TEP2 positive après ABVD : **RATHL**
- ▶ Incorporer les nouvelles drogues dès la 1^{ère} ligne :
 - **Brentuximab vedotin : BrECADD & Echelon 1**
 - **Nivolumab : Checkmate 205 (Cohorte D)**

Essai HD18

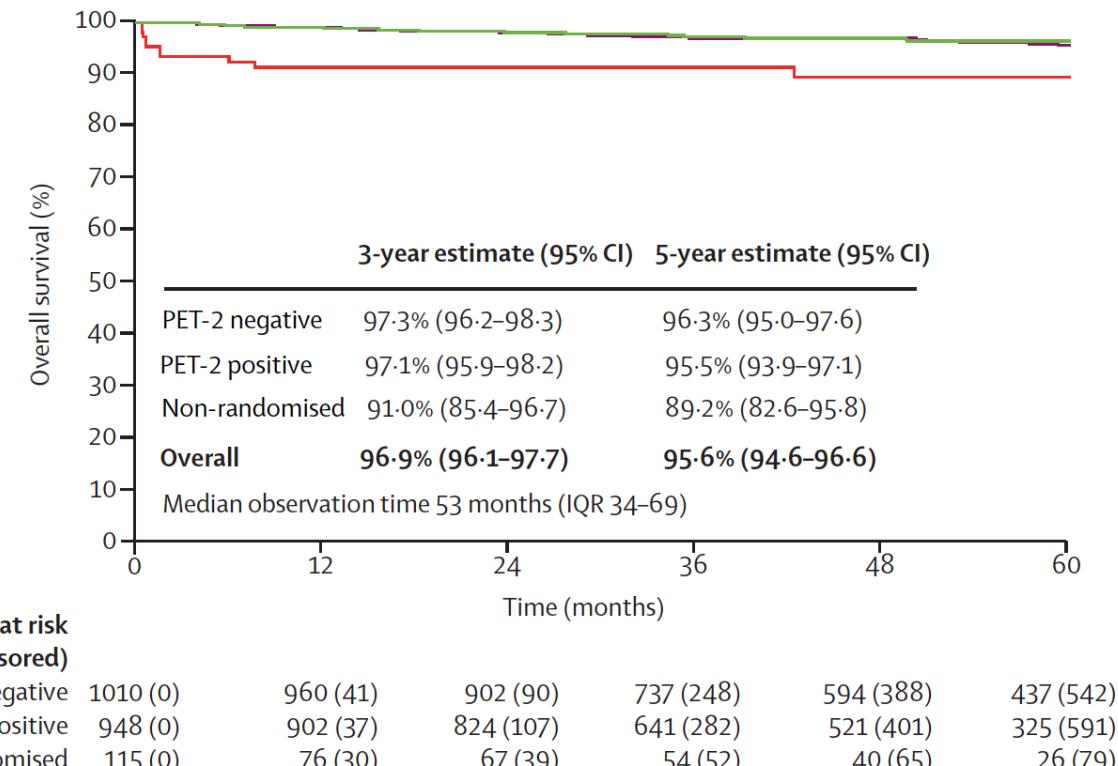
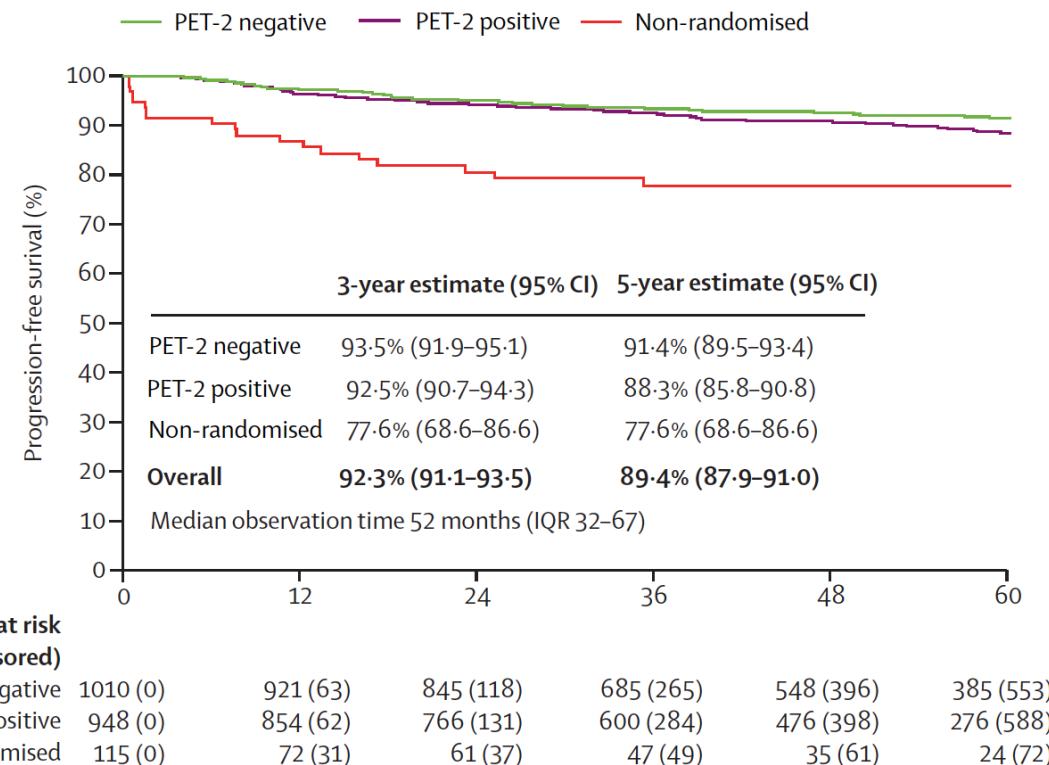
Stades IIB avec FR (bulk, extranodal)

Stades III/IV



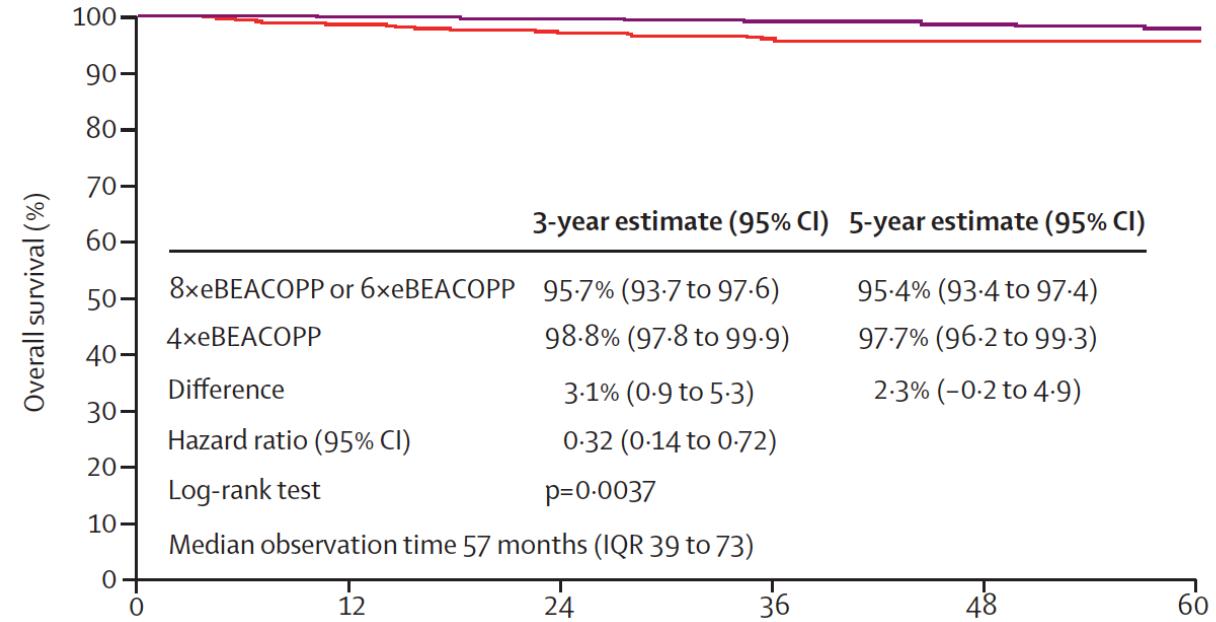
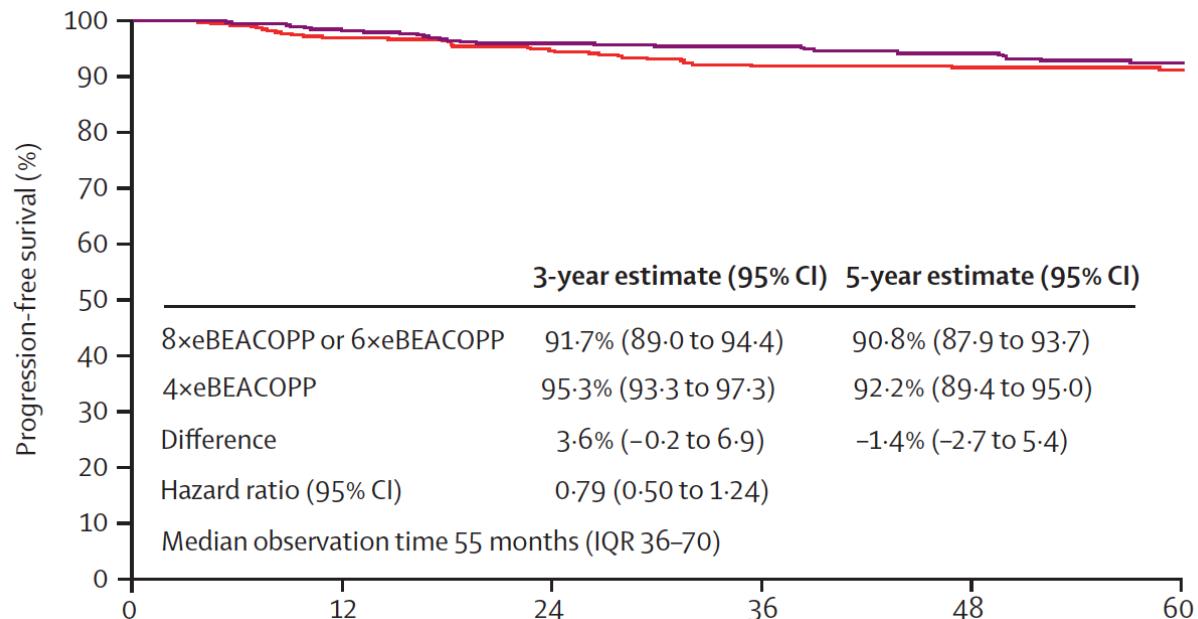
Essai HD18

Rôle pronostique de la TEP 2 : DS 1-2 vs 3-5



Essai HD18

Patients TEP 2 négative (DS 1-2)

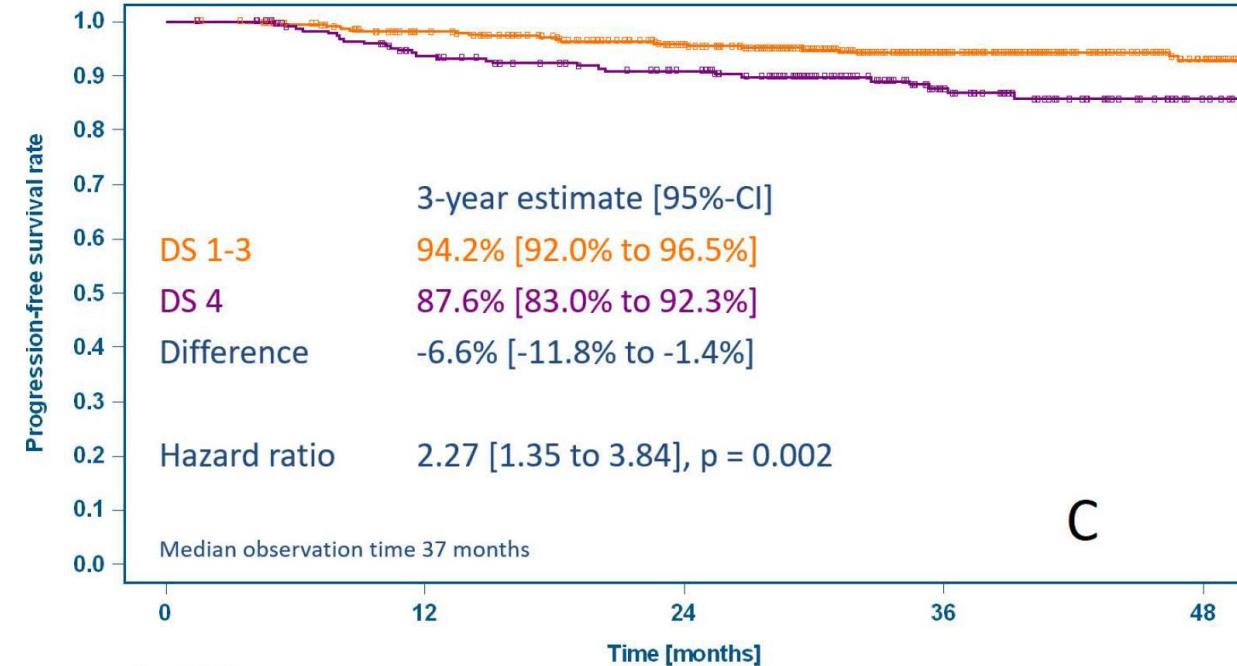
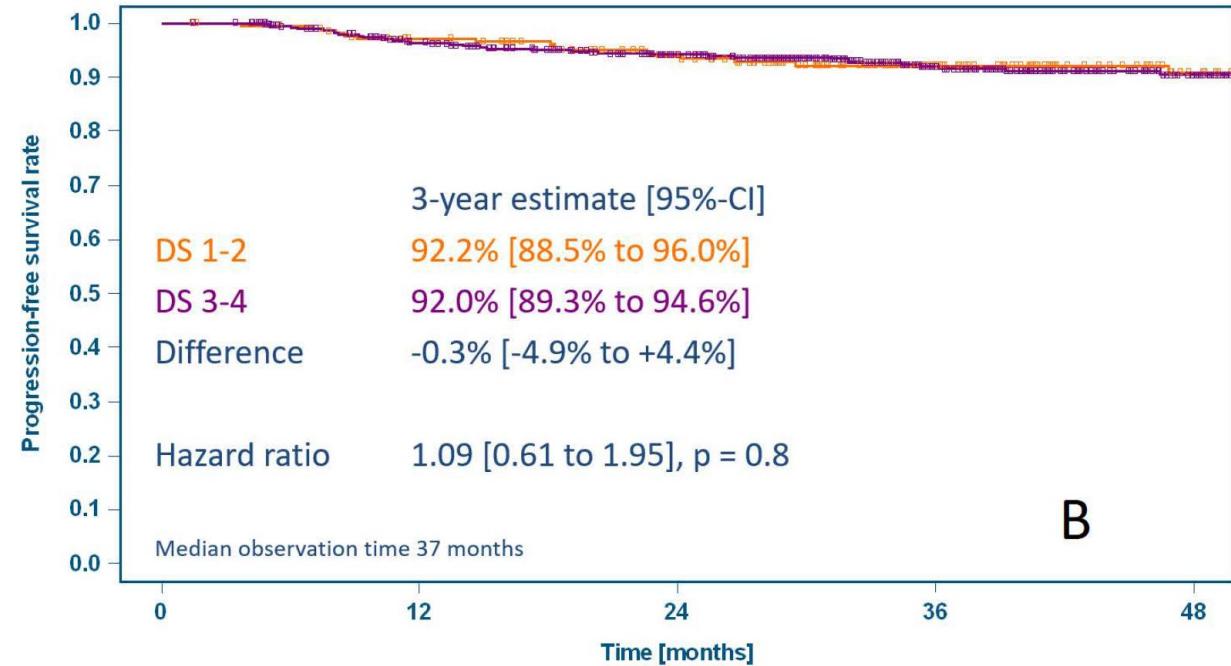


Essai HD18

| | PET-2-positive cohort | | PET-2-negative cohort | |
|-----------------------------------------------------|-------------------------|---------------------------|-----------------------------------------|-------------------------|
| | 8 × eBEACOPP (n=217) | 8 × R-eBEACOPP (n=217) | 8 × eBEACOPP or 6 × eBEACOPP (n=504) | 4 × eBEACOPP (n=501) |
| Causes of death | | | | |
| Hodgkin's lymphoma | 1 (<1%) | 1 (<1%) | 3 (1%) | 4 (1%) |
| Toxicity of study treatment | 1 (<1%) | 3 (1%) | 6 (1%) | 0 |
| Toxicity of salvage therapy | 3 (1%) | 4 (2%) | 2 (<1%) | 2 (<1%) |
| Second malignancy | 2 (1%) | 2 (1%) | 11 (2%) | 1 (<1%) |
| Other disease* | 2 (1%) | 2 (1%) | 1 (<1%) | 1 (<1%) |
| Accident or suicide | 0 | 2 (1%) | 0 | 1 (<1%) |
| Unclear | 0 | 0 | 2 (<1%) | 0 |
| Any event | 9 (4%) | 14 (6%) | 25 (5%) | 9 (2%) |
| Second malignancies | | | | |
| Acute myeloid leukaemia or myelodysplastic syndrome | 5 (2%) | 4 (2%) | 8 (2%) | 2 (<1%) |
| Non-Hodgkin's lymphoma | 3 (1%) | 2 (1%) | 5 (1%) | 8 (2%) |
| Solid tumour | 2 (1%) | 8 (4%) | 5 (1%) | 3 (1%) |
| Any event | 10 (5%) | 8 (4%) | 18 (4%) | 13 (3%) |
| 5-year cumulative incidence estimate† | 4.0% (1.3–6.7) | 3.5% (0.7–6.3) | 3.8% (1.9–5.7) | 3.3% (1.4–5.3) |

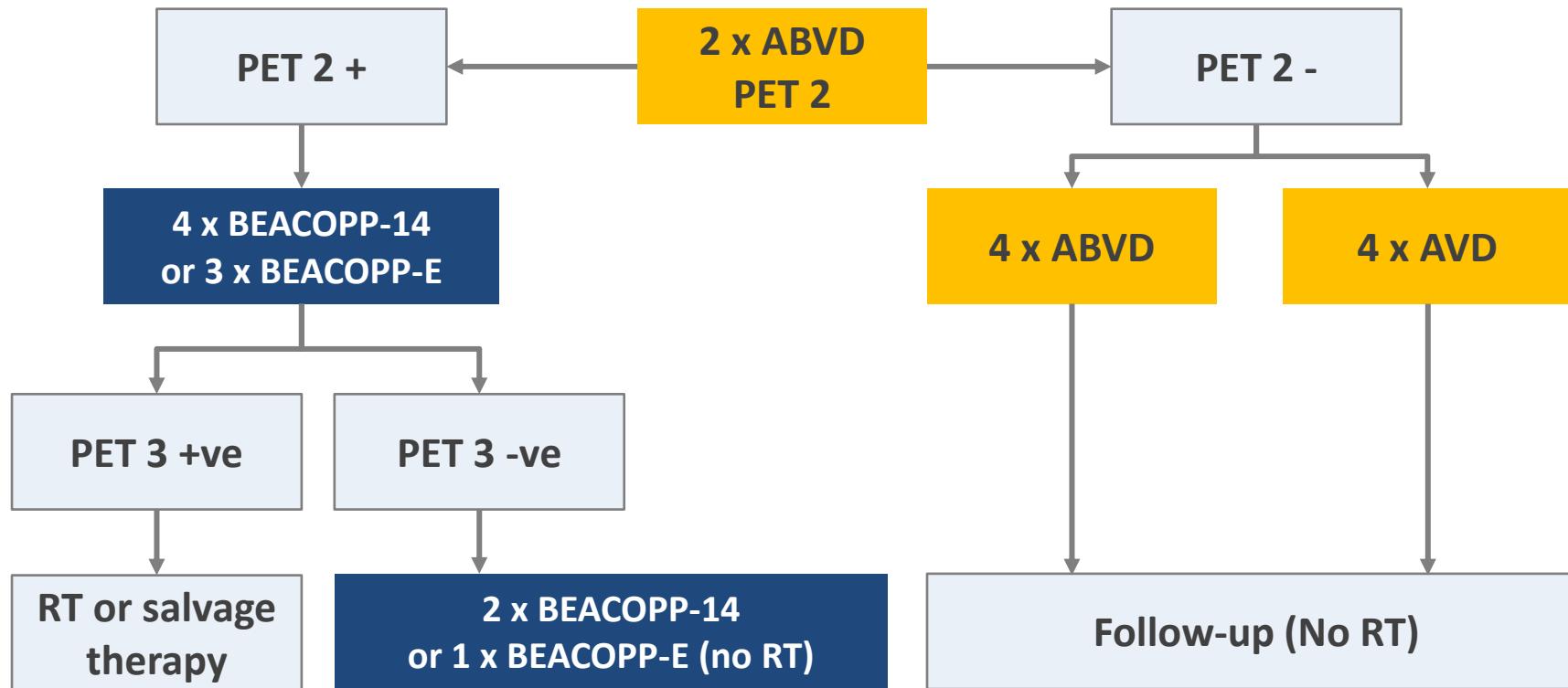
Essai HD18

Rôle pronostique de la TEP 2 : DS 1-3 vs 4



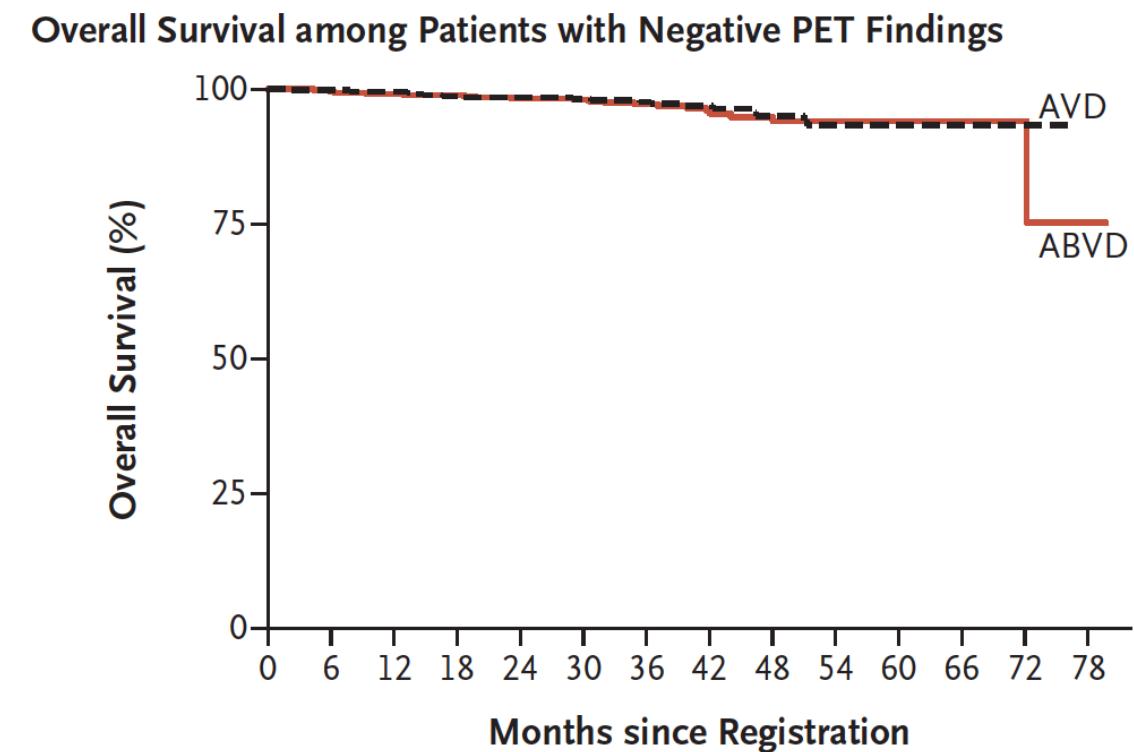
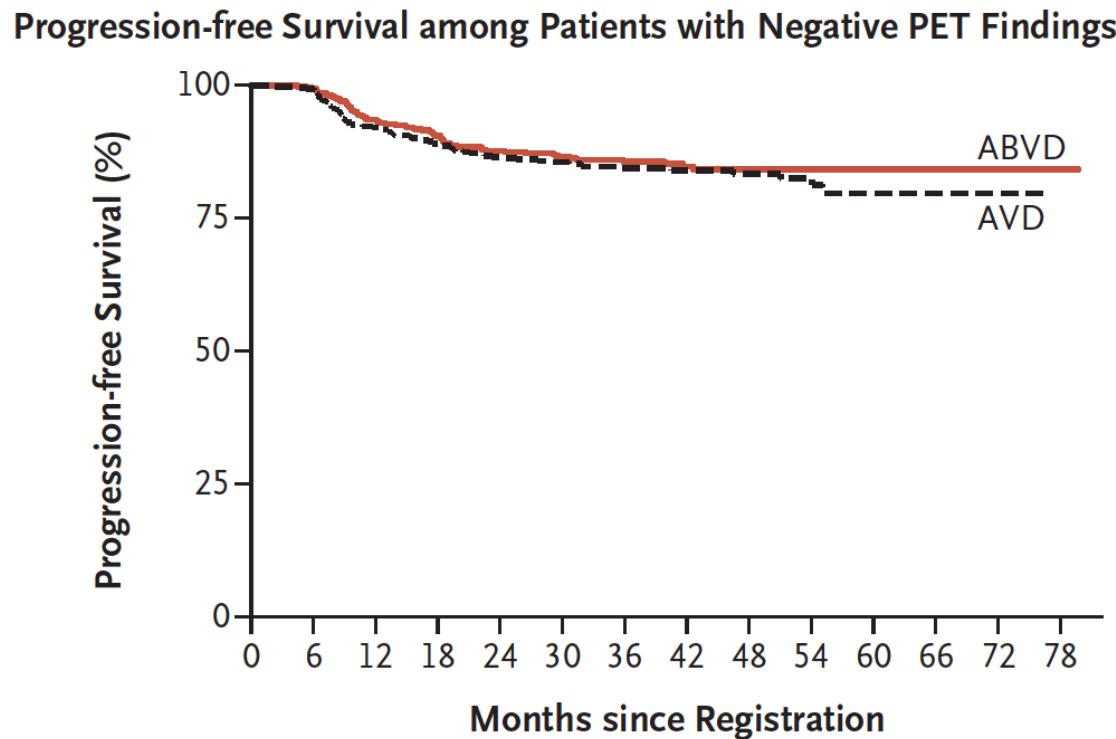
Patients traités par 6 cycles de eBEACOPP

Essai RATHL



- Stades II / III / IV : 41% / 31% / 28%
- IPS > 3 : 17%

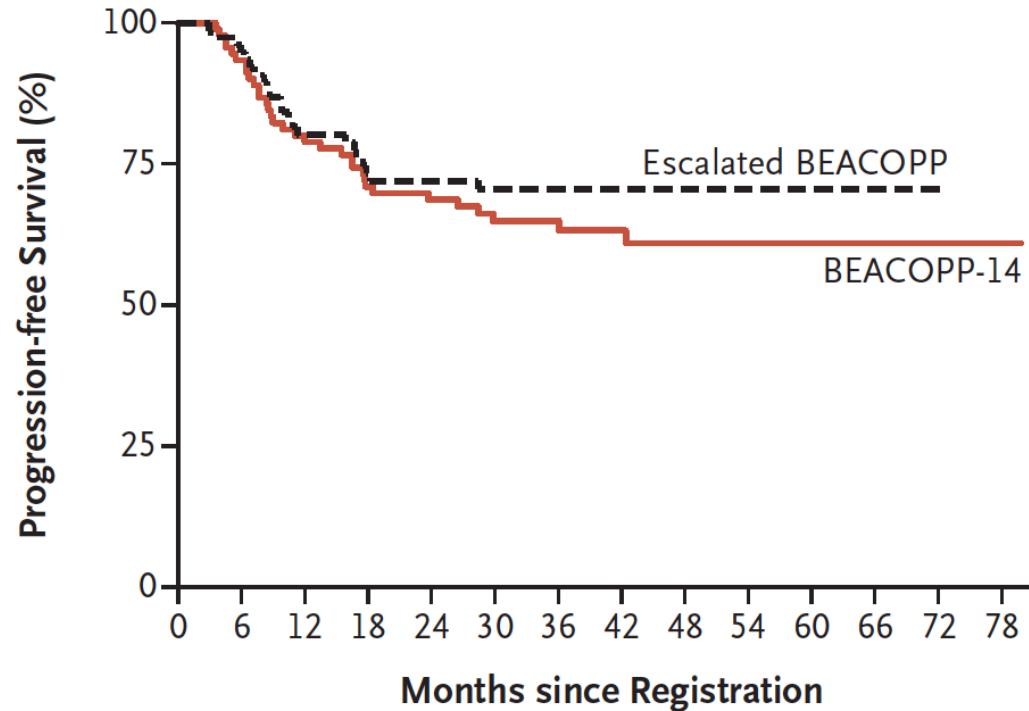
Essai RATHL



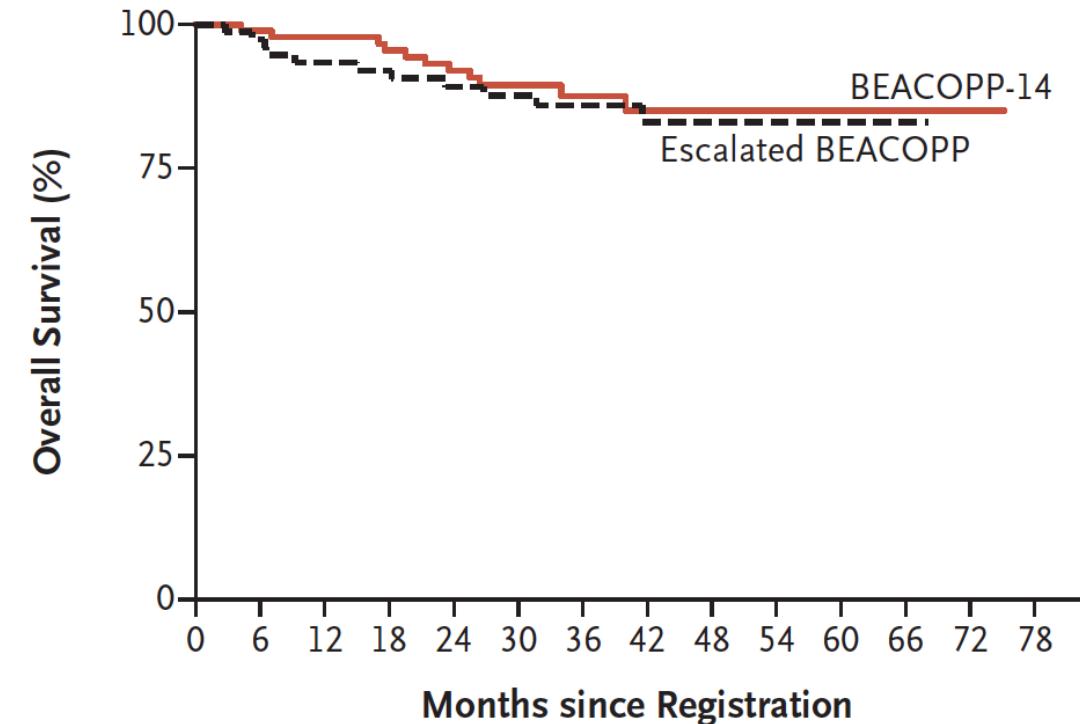
3y-PFS : 85.7% vs 84.4%
HR=1.13, 95% CI 0.81-1.57, p=0.48

Essai RATHL

Progression-free Survival among Patients with Positive PET Findings



Overall Survival among Patients with Positive PET Findings

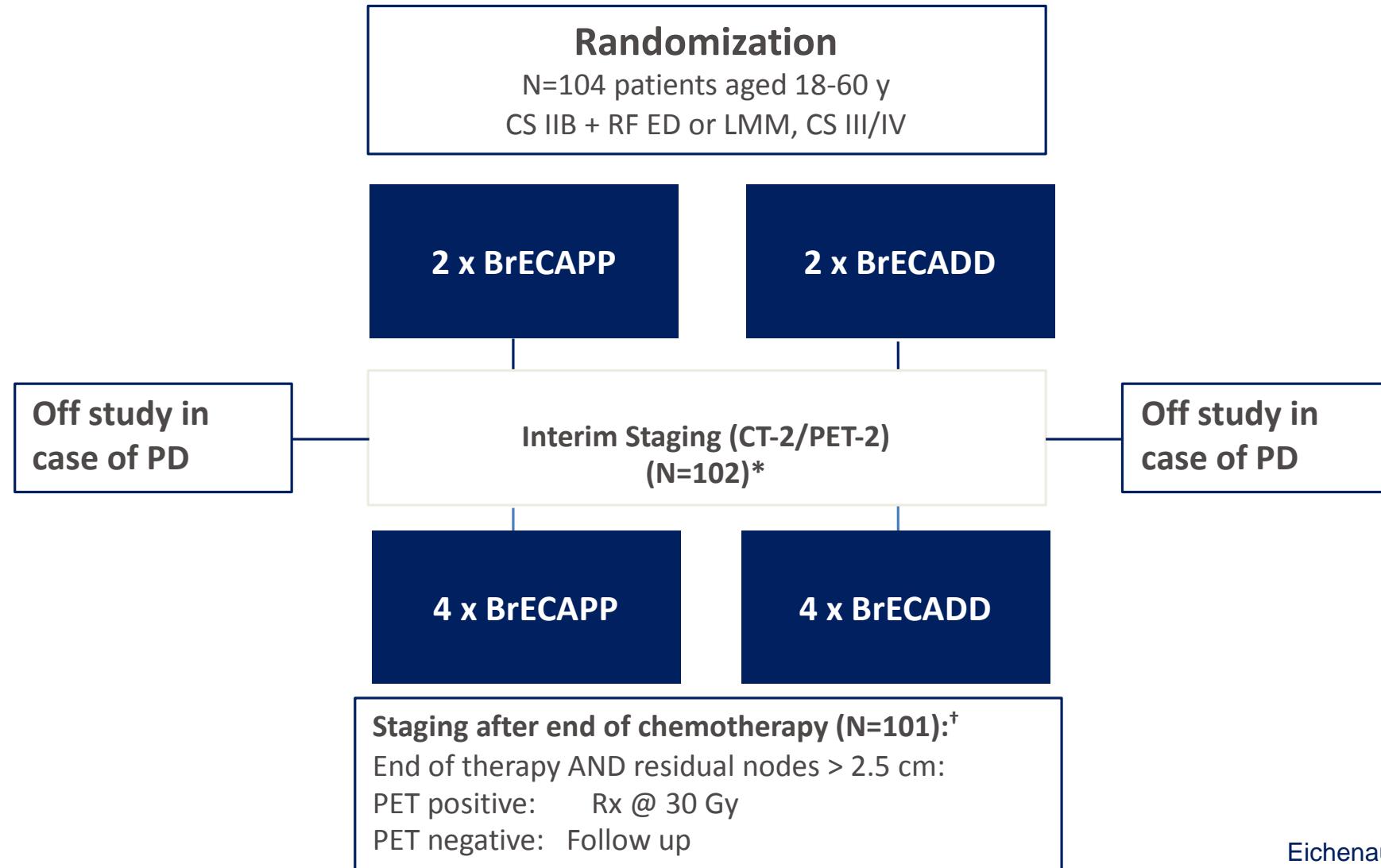


3y-PFS : 67.5%
3y-OS : 87.8%

Schémas BrECADD/BrECAPP

| Drug | Day | eBEACOPP | BrECADD | BrECAPP |
|---------------------------------------|------------|----------|------------|------------|
| Bleomycin (mg/m ²) | 8 | 10 | – | – |
| Etoposide (mg/m ²) | 1–3 | 200 | 150 | 200 |
| Doxorubicin (mg/m ²) | 1 | 35 | 40 | 35 |
| Cyclophosphamide (mg/m ²) | 1 | 1250 | 1250 | 1250 |
| Vincristine (mg/m ²) | 8 | 1.4 | – | – |
| Brentuximab vedotin (mg/kg) | 1 | – | 1.8 | 1.8 |
| Procarbazine (mg/m ²) | 1–7 | 100 | – | 100 |
| Dacarbazine (mg/m²) | 2–3 | – | 250 | – |
| Prednisone (mg) | 1–14 | 40 | – | 40 |
| Dexamethasone (mg) | 1–4 | – | 40 | – |

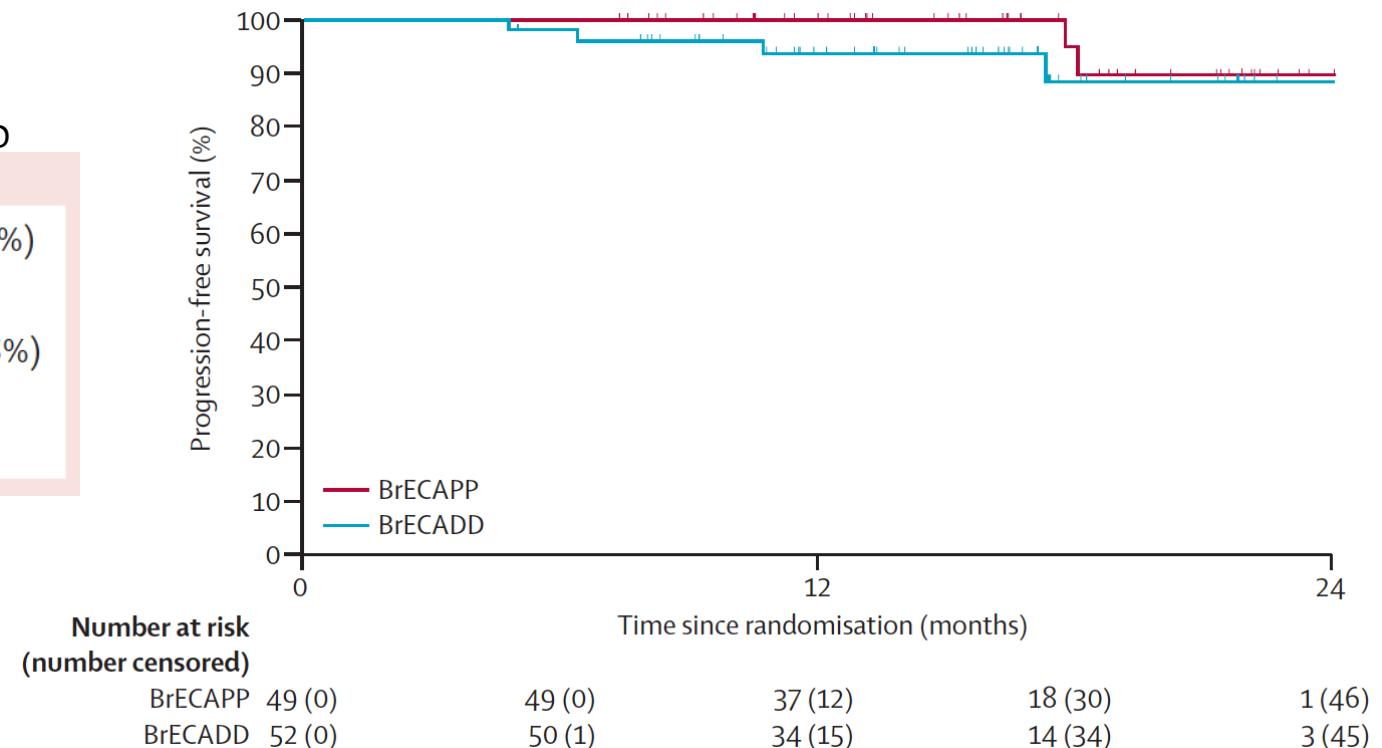
Schémas BrECADD/BrECAPP



Schémas BrECADD/BrECAPP

Complete response to chemotherapy

| | BrECAPP | BrECADD |
|-------------------------------------------------------------------------------------------|-------------|-------------|
| No (further treatment recommended by CREP) | 7/49 (14%) | 6/52 (12%) |
| Yes (CR or PR <2·5 cm [local investigator] or no indication for further treatment [CREP]) | 42/49 (86%) | 46/52 (88%) |

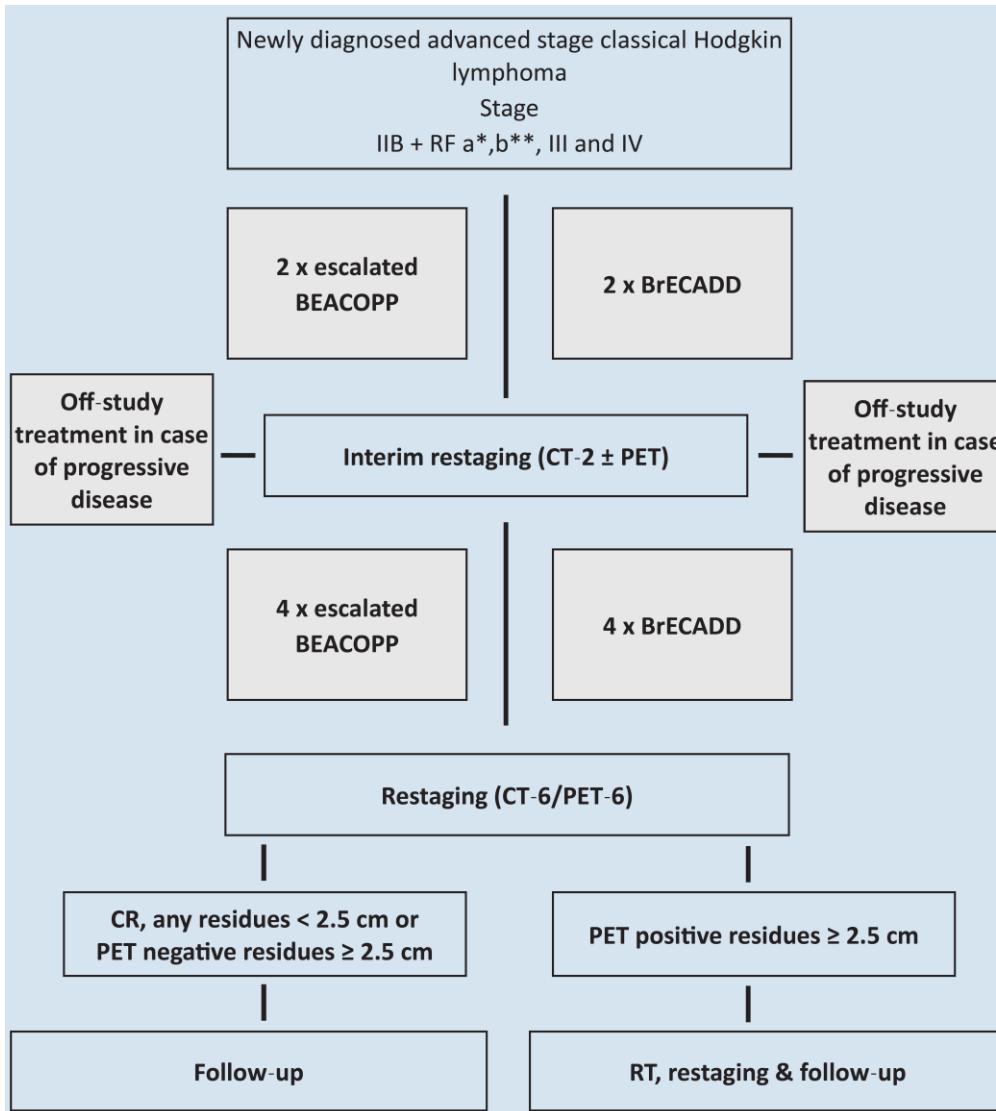


18mo-PFS : 95% (BrECAPP) & 89% (BrECADD)

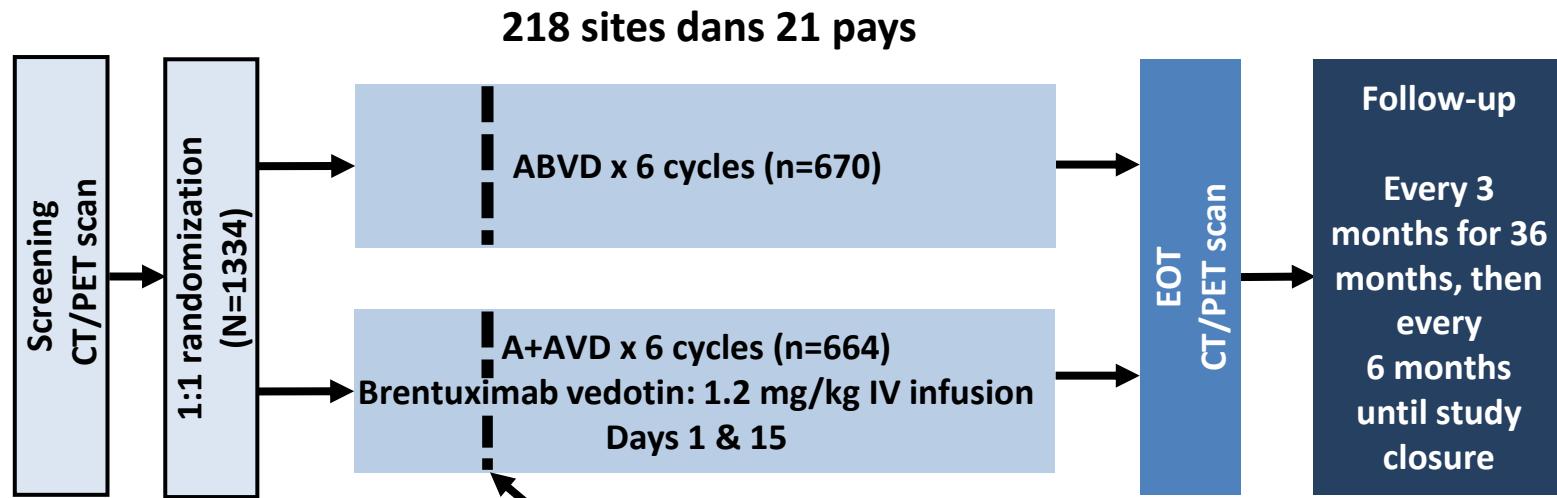
Schémas BrECADD/BrECAPP

| | BrECAPP (n=50) | | | BrECADD (n=52) | | |
|--------------------------------|----------------|----------|----------|----------------|----------|----------|
| | Grade 1-2 | Grade 3 | Grade 4 | Grade 1-2 | Grade 3 | Grade 4 |
| Any toxic effect | 2 (4%) | 7 (14%) | 40 (80%) | 3 (6%) | 5 (10%) | 41 (79%) |
| Haematological toxic effect | 2 (4%) | 6 (12%) | 40 (80%) | 4 (8%) | 4 (8%) | 41 (79%) |
| Anaemia | 25 (50%) | 19 (38%) | 3 (6%) | 29 (60%) | 18 (35%) | 0 |
| Thrombocytopenia | 12 (24%) | 12 (24%) | 20 (40%) | 17 (32%) | 12 (23%) | 15 (29%) |
| Leukopenia | 5 (10%) | 4 (8%) | 40 (80%) | 8 (15%) | 3 (6%) | 41 (79%) |
| Drug fever | 4 (8%) | 1 (2%) | 0 | 2 (4%) | 0 | 0 |
| Infection | 7 (14%) | 3 (6%) | 1 (2%) | 5 (10%) | 7 (13%) | 1 (2%) |
| Renal or urinary toxic effect* | 0 | 0 | 0 | 3 (6%) | 0 | 0 |
| Hepatobiliary toxic effect* | 4 (8%) | 3 (6%) | 1 (2%) | 6 (12%) | 1 (2%) | 0 |
| Nervous system, sensory | 15 (30%) | 1 (2%) | 0 | 18 (35%) | 0 | 0 |
| Nervous system, motor | 1 (2%) | 0 | 0 | 0 | 0 | 0 |
| Heart | 0 | 0 | 0 | 0 | 0 | 0 |
| Mucositis | 10 (20%) | 2 (4%) | 0 | 7 (13%) | 2 (4%) | 0 |
| Gastrointestinal tract | 11 (22%) | 2 (4%) | 1 (2%) | 16 (31%) | 0 | 0 |
| Urogenital tract | 2 (4%) | 0 | 0 | 2 (4%) | 1 (2%) | 0 |
| Respiratory tract | 5 (10%) | 0 | 0 | 8 (15%) | 0 | 0 |

Essai HD21 (en cours)



Essai Echelon 1



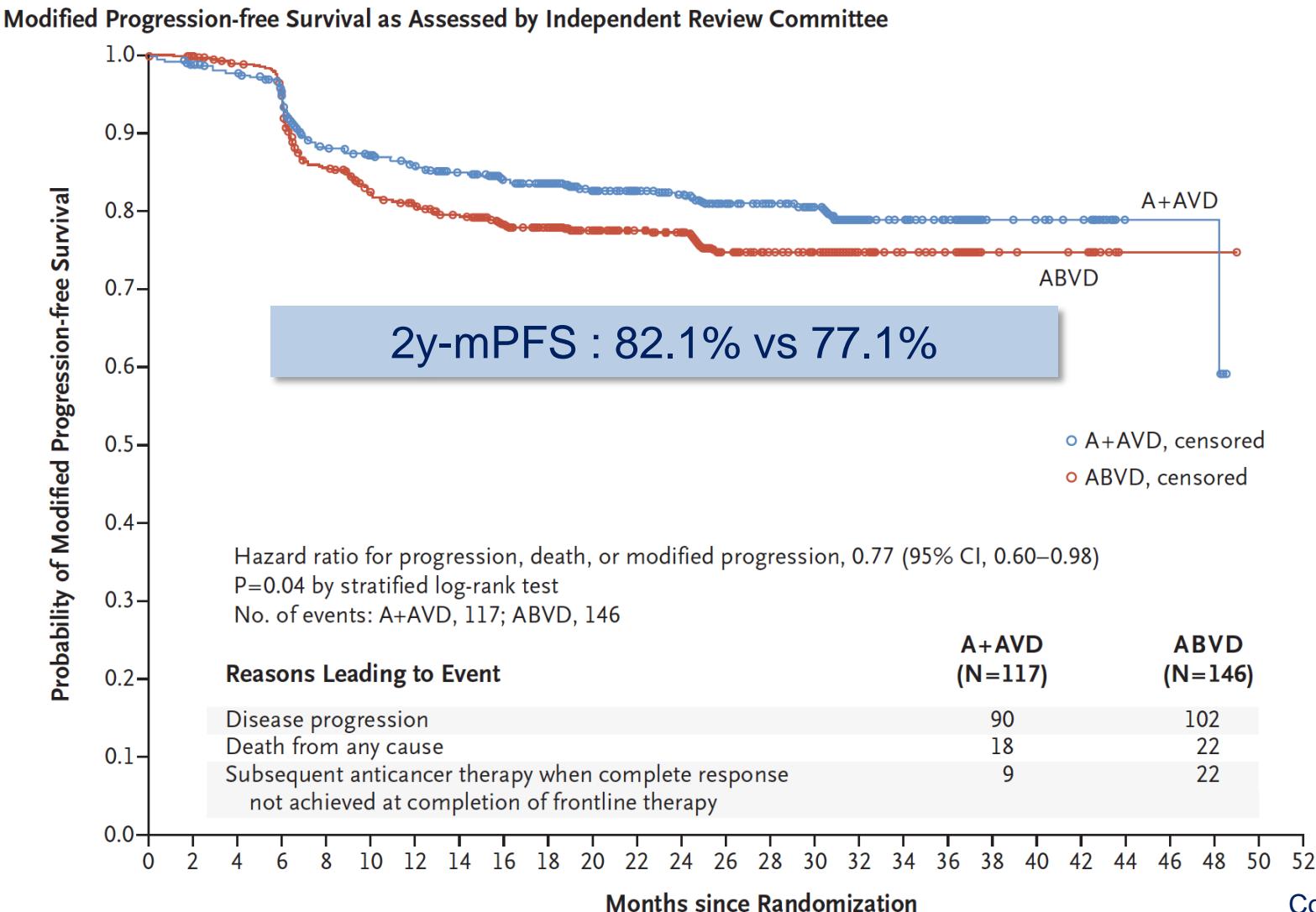
Inclusion criteria

- CHL stage III or IV
- ECOG PS 0, 1 or 2
- Age ≥ 18 years
- Measurable disease
- Adequate liver and renal function

End-of-Cycle-2 PET scan
• Deauville 5; could receive alternate therapy per physician's choice (not a modified PFS event)

Objectif principal : PFS modifiée
(comprenant les TEP DS 3-5 avec un traitement complémentaire)

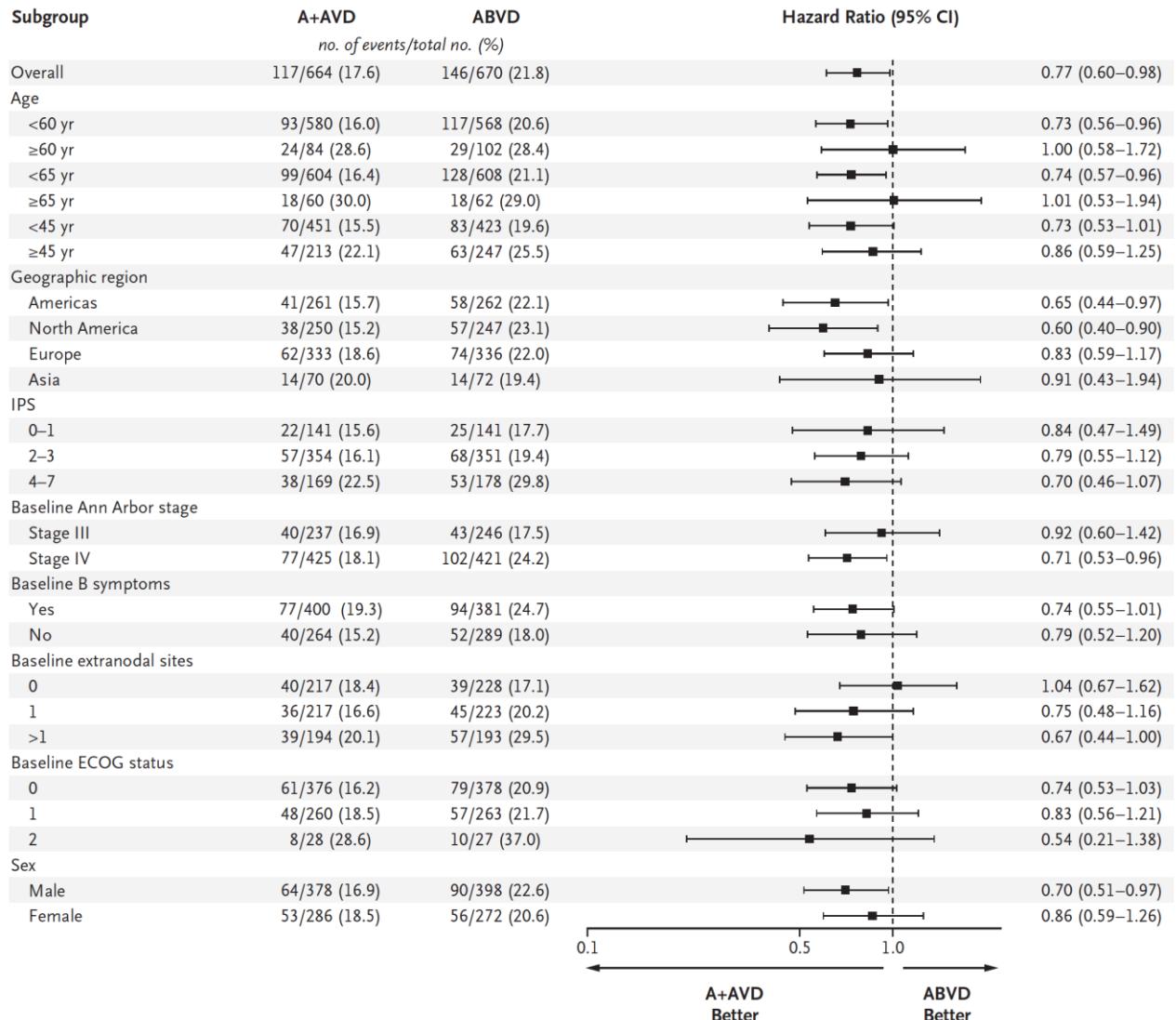
Essai Echelon 1



Essai Echelon 1

| Patients with event, n (%) | A+AVD N=664 | ABVD N=670 | p-value [†] |
|------------------------------------------------------------------|----------------|---------------|----------------------|
| CR rate* at end of randomized regimen | 488 (73) | 472 (70) | 0.22 |
| ORR* at end of randomized regimen | 569 (86) | 553 (83) | 0.12 |
| PET Deauville score 1 or 2 after completion of frontline therapy | 563 (85) | 537 (80) | 0.03 |
| PET Deauville score 1, 2, or 3 after cycle 2 | 588 (89) | 577 (86) | 0.18 |
| PET Deauville score 4, or 5 after cycle 2 | | | |
| 4 | 26 (4) | 28 (4) | |
| 5 | 21 (3) | 30 (4) | |
| Unavailable | 29 (4) | 35 (5) | |

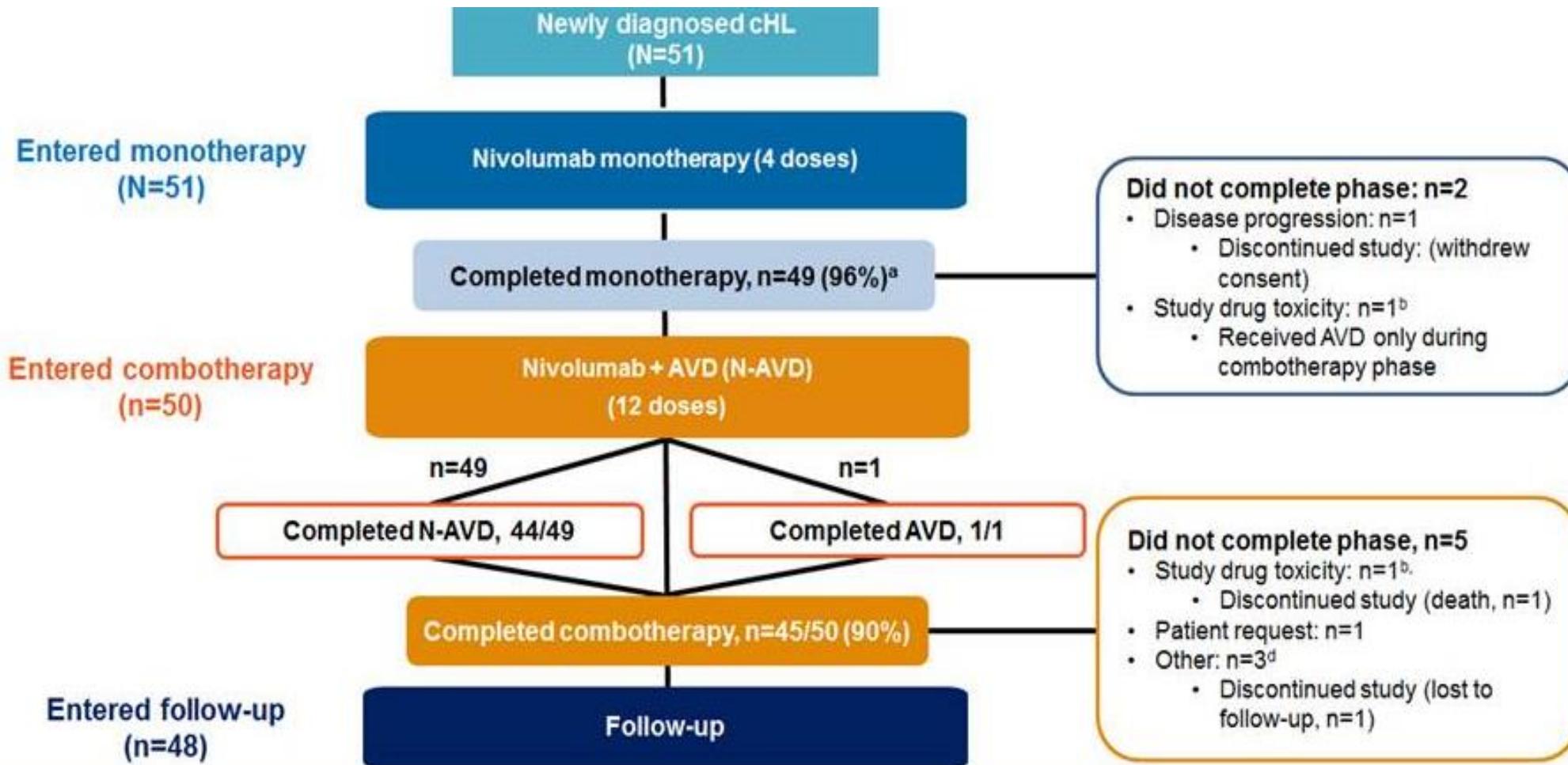
Essai Echelon 1



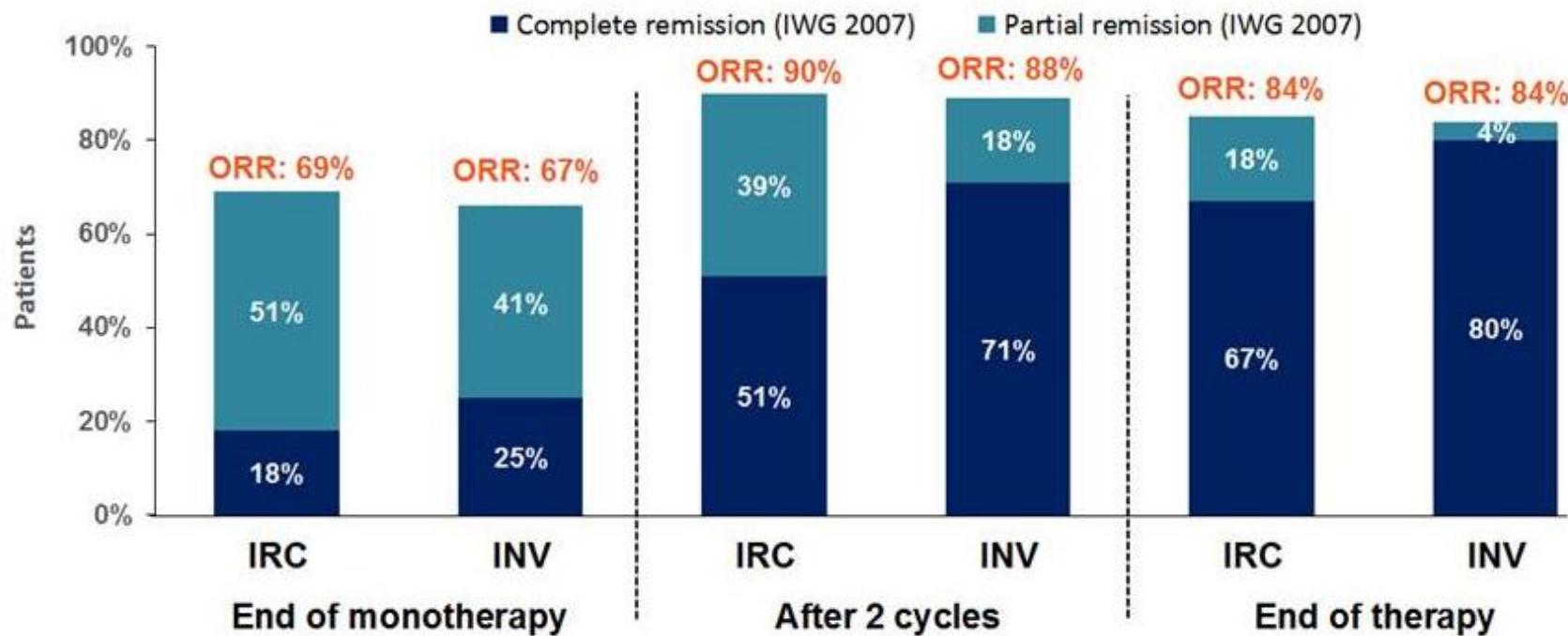
Essai Echelon 1

| Common adverse events, %* | A+AVD (N=662) | | ABVD (N=659) | |
|-------------------------------|---------------|-----------|--------------|-----------|
| | Any grade | Grade ≥3 | Any grade | Grade ≥3 |
| Neutropenia | 58 | 54 | 45 | 39 |
| Constipation | 42 | 2 | 37 | <1 |
| Vomiting | 33 | 3 | 28 | 1 |
| Fatigue | 32 | 3 | 32 | 1 |
| Peripheral sensory neuropathy | 29 | 5 | 17 | <1 |
| Diarrhea | 27 | 3 | 18 | <1 |
| Pyrexia | 27 | 3 | 22 | 2 |
| Peripheral neuropathy | 26 | 4 | 13 | <1 |
| Abdominal pain | 21 | 3 | 10 | <1 |
| Stomatitis | 21 | 2 | 16 | <1 |
| Febrile neutropenia | 19 | 19 | 8 | 8 |

Checkmate 205 – Cohorte D



Checkmate 205 – Cohorte D



- At end of therapy, ORR per investigator for the ITT population was 84%, with 80% of patients achieving CR
- Five patients were non-evaluable at end of therapy

Conclusions

- ▶ Les stratégies TEP-guidées permettent de réduire l'exposition au BEACOPP pour les patients TEP 2 négative après 2 cycles de BEACOPP
- ▶ **Importance des critères utilisés pour l'interprétation de la TEP**
- ▶ Le pronostic des patients avec une TEP 2 positive reste insatisfaisant : nouvelles stratégies d'intensifications thérapeutiques précoces ?
- ▶ La place des nouvelles drogues en 1^{ère} ligne reste à préciser