



La **desescalada** del tratamiento individualizado en Linfoma de Hodgkin mejora los resultados generales

“Desescalando en Cuenca”

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Declaración de Conflictos de Intereses

Categoría	
Empleado	
Consultor	<i>Roche, Janssen, Takeda, Teva Ivax, Abbvie, Bristol Myers Squibb, Novartis, Raffo, Elea, Sandoz, Astra Zeneca, Biotoscana, Biostatera.</i>
Propiedad accionaria	
Fondos de Investigación	
Honorarios por conferencia	<i>Roche, Bristol Myers Squibb, Takeda, MSD, Raffo, Knight, Elea</i>
Formar parte del grupo de oradores	
Formar parte del comité asesor	
Otros	

Desescalar/Des-escalar

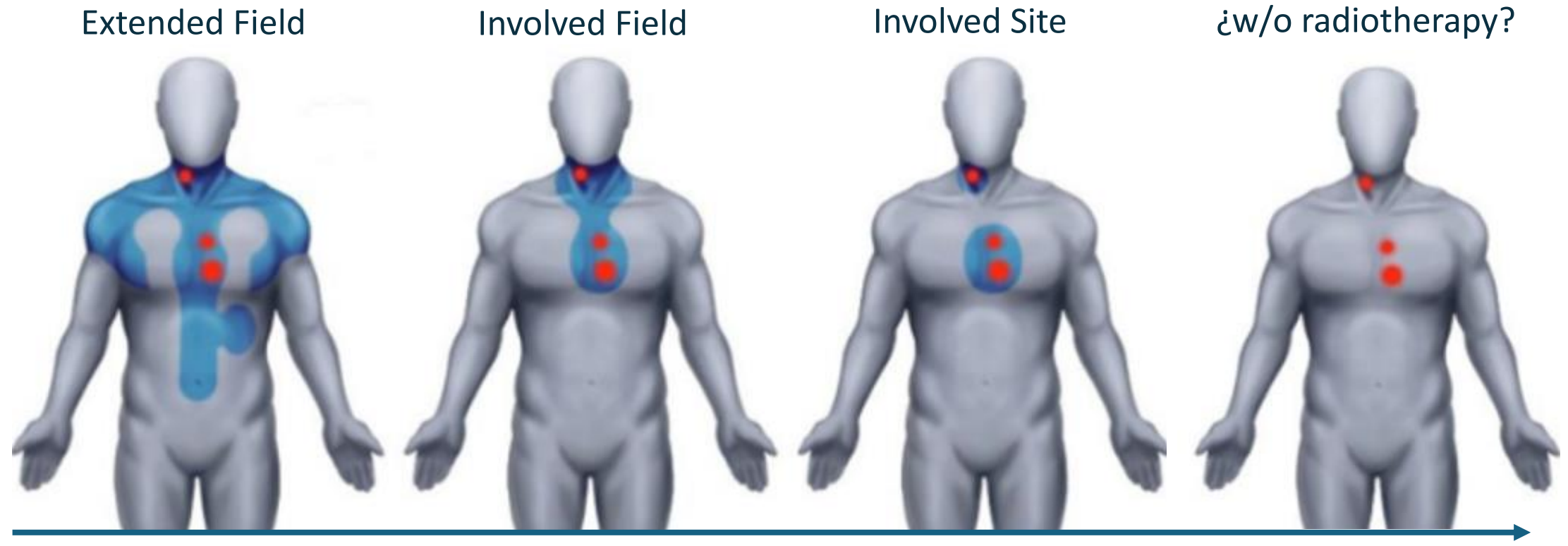


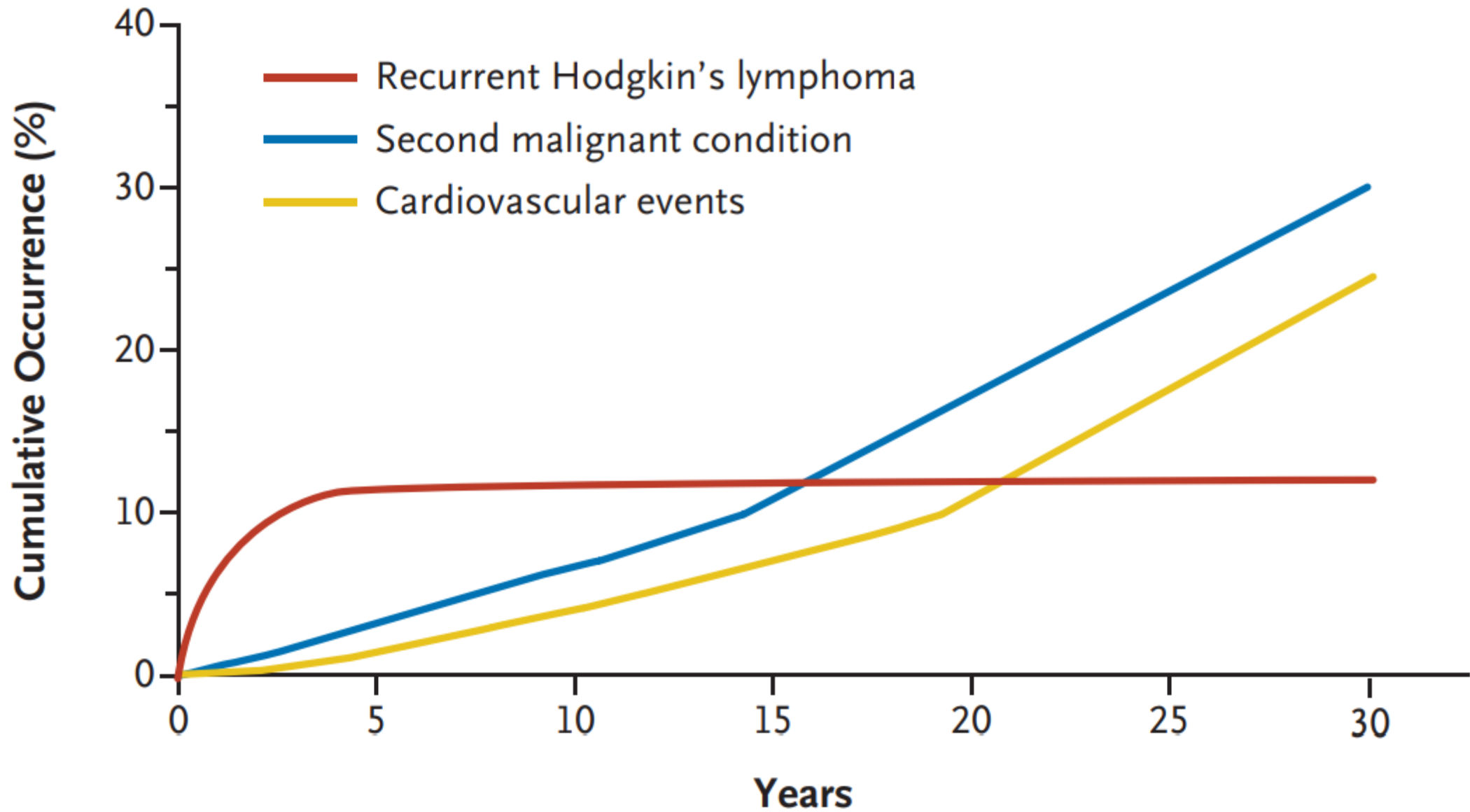


Desescalar/des-escalar:

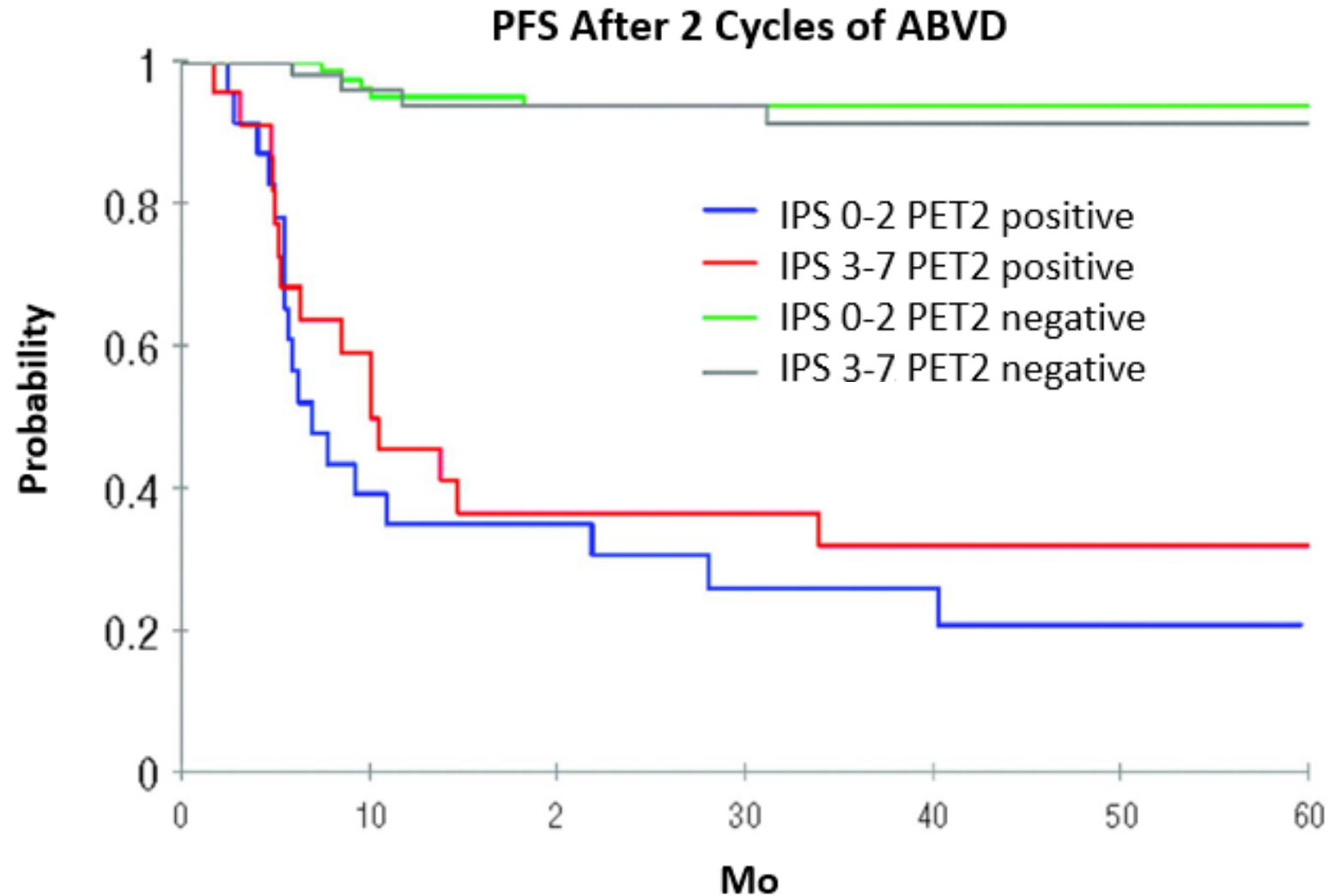
- Disminuir la intensidad del tratamiento con el propósito de reducir la toxicidad del mismo, sin afectar la efectividad.

“Des-escalando” la Radioterapia y su toxicidad





Valor predictivo del PET interino

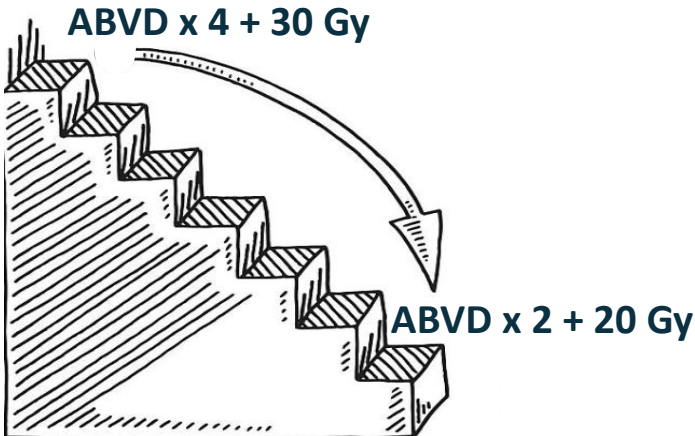


← ¿Desescalar?

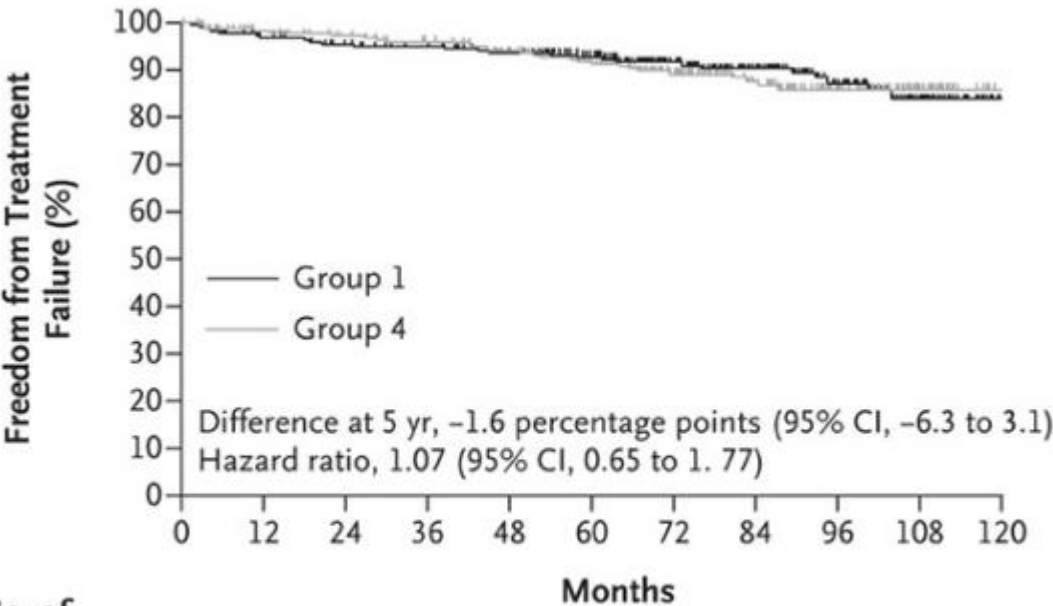
← ¿Escalar?

Primera línea en LHc temprano favorable
(I-IIA, no voluminoso)

HD10: ABVD x 2 + 20 Gy

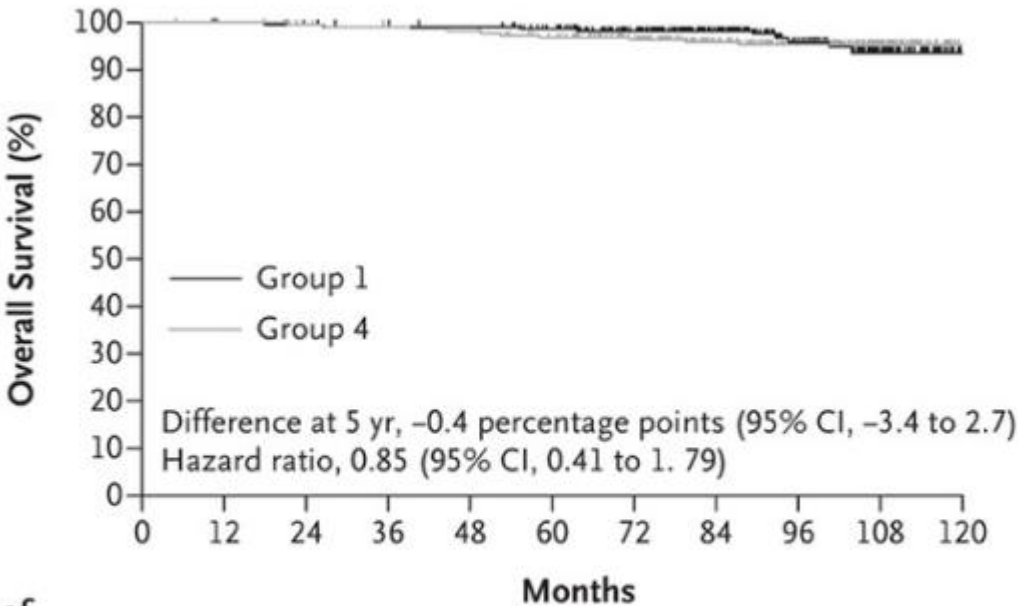


Comparison of Groups 1 and 4



No. of
Patients
at Risk

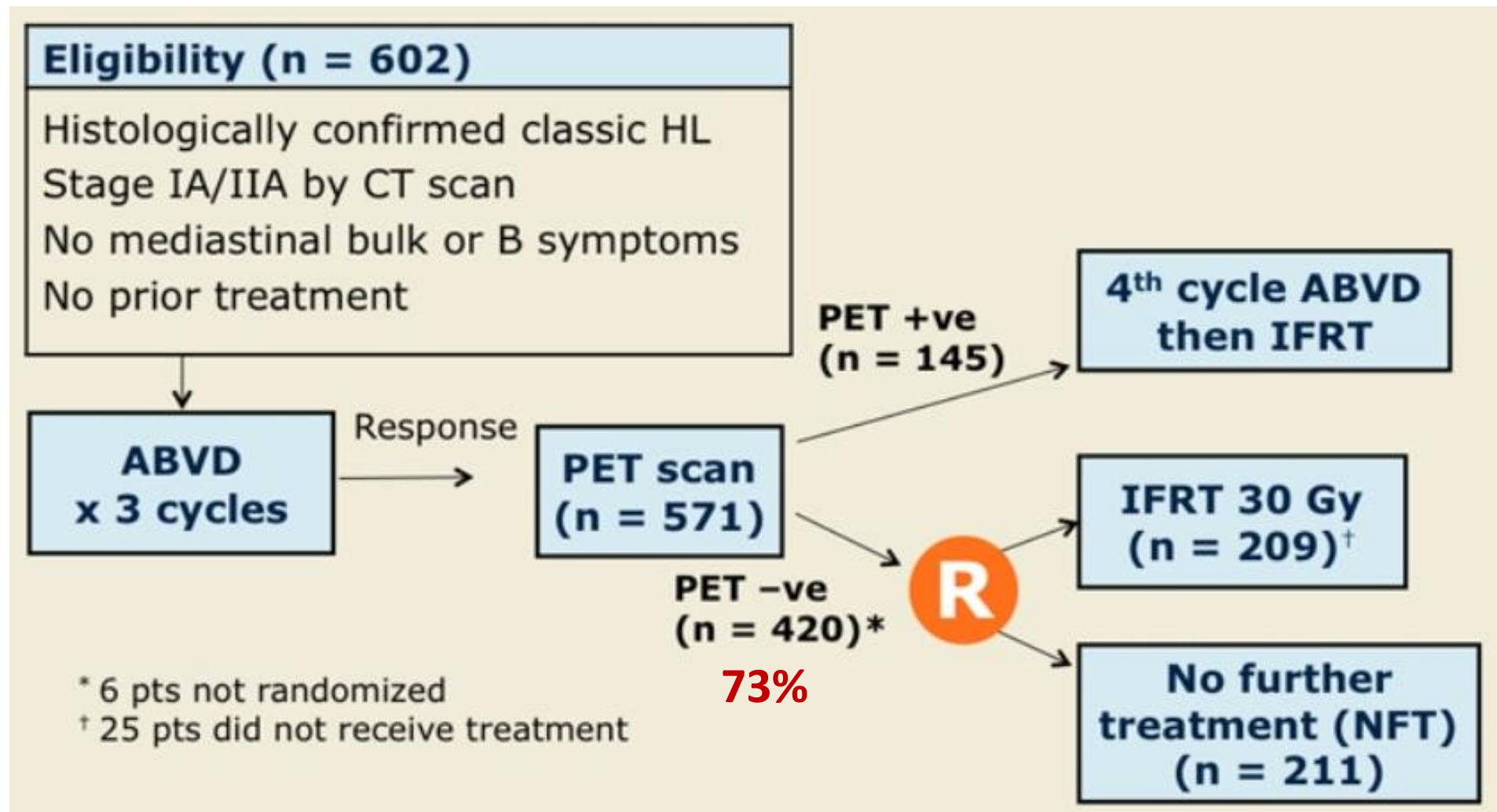
Group 1	298	277	264	255	239	217	167	121	74	35	3
Group 4	299	275	265	252	239	199	151	110	66	28	4



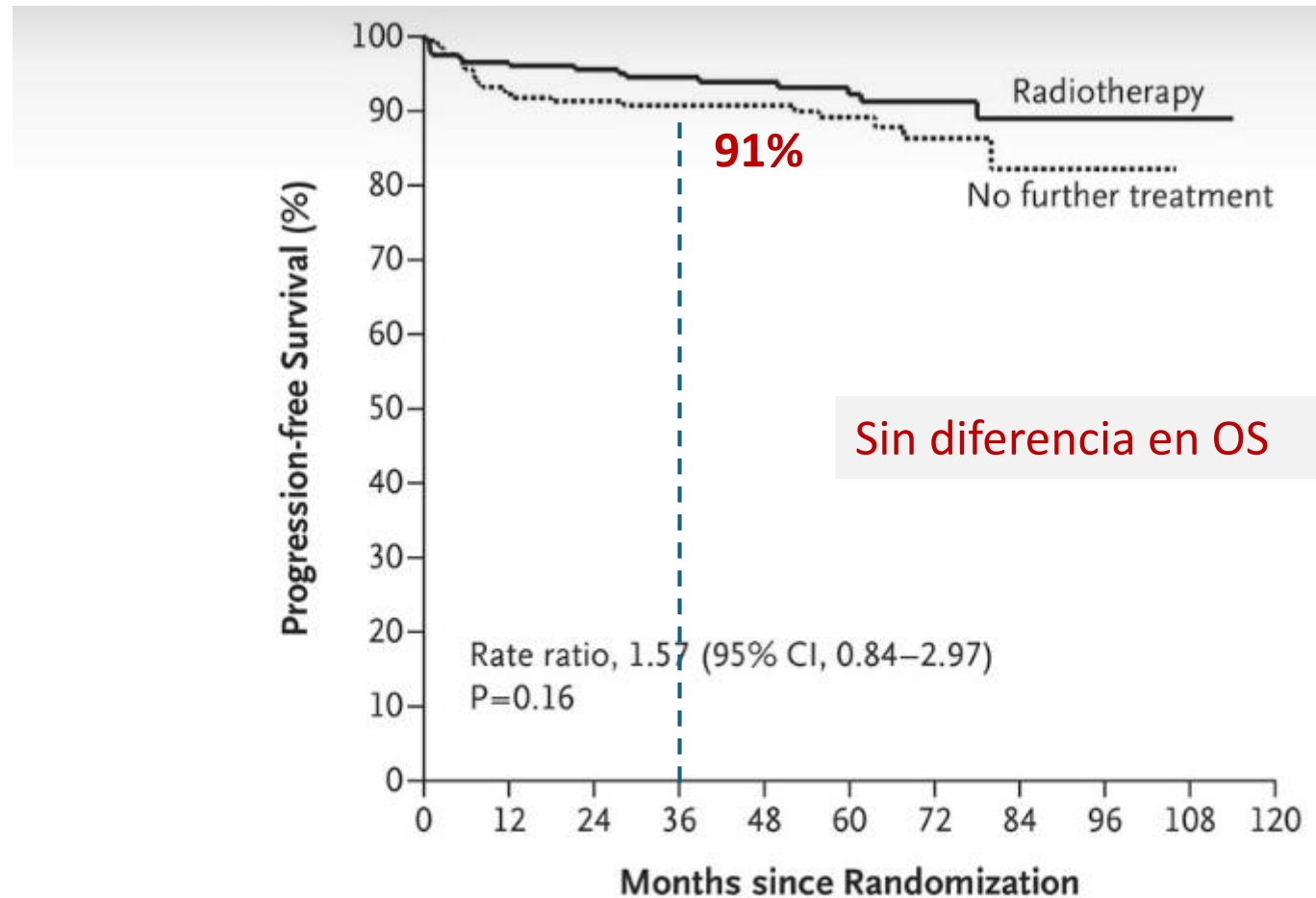
No. of
Patients
at Risk

Group 1	298	293	289	286	283	271	240	182	116	63	12
Group 4	299	298	293	289	285	273	241	182	122	64	16

RAPID trial y otros (H10F y HD16)

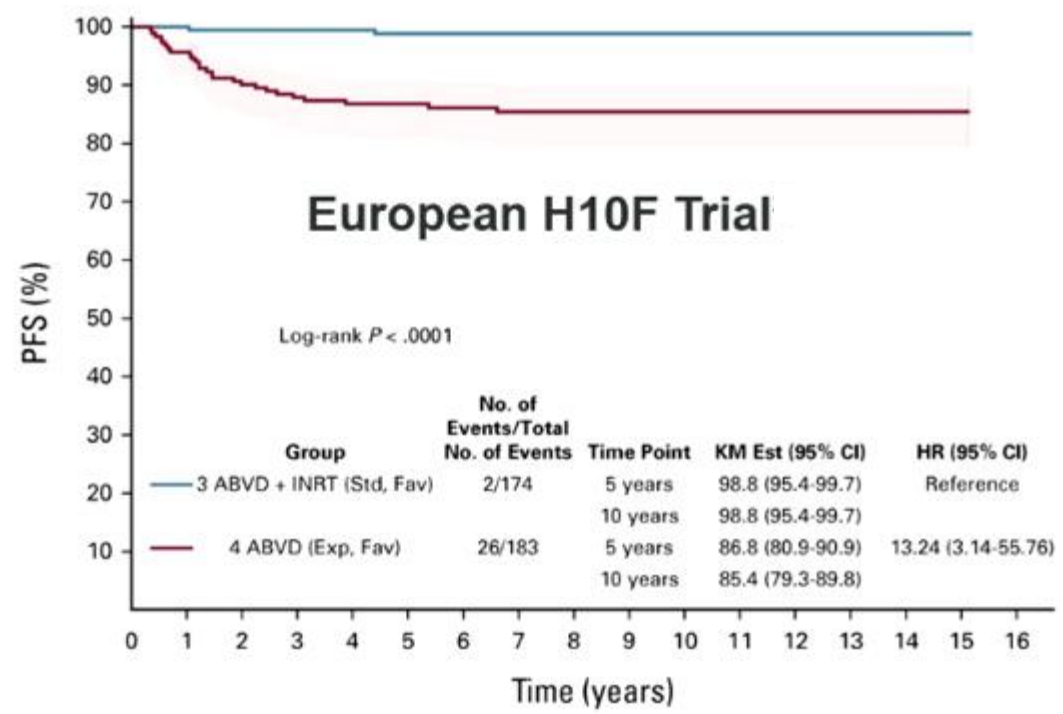


RAPID trial



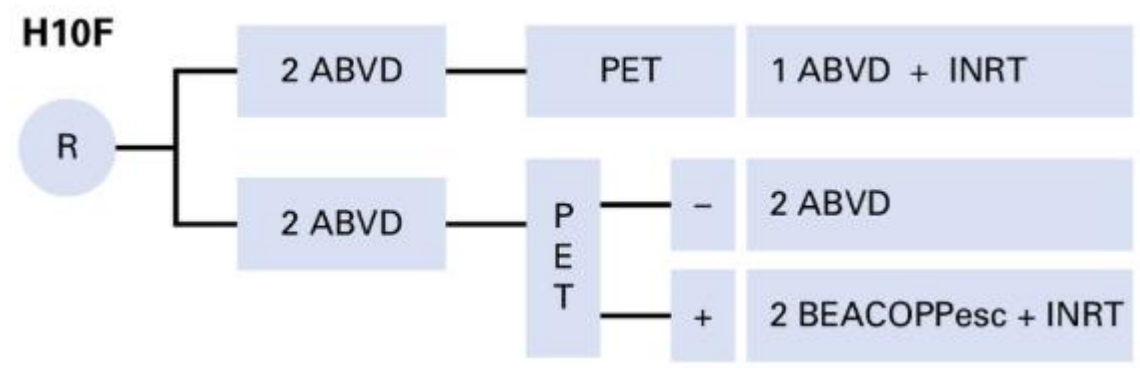
Se necesita irradiar a 30 ptes para sumar una curación más

H10F. Early-stage Favorable HL. 10 yrs follow up

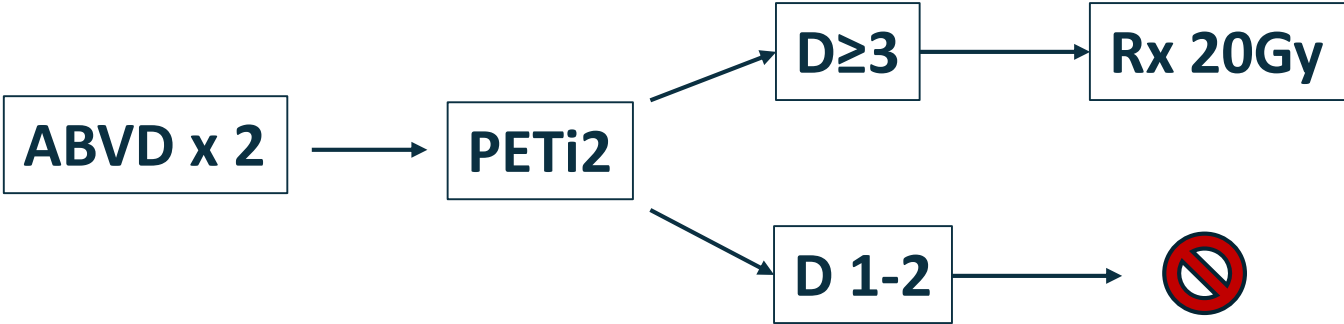


No. at risk:

3 ABVD + INRT (Std, Fav)-	174	172	168	132	105	74	32	7	0
4 ABVD (Exp, Fav)-	183	163	154	130	107	74	30	3	0



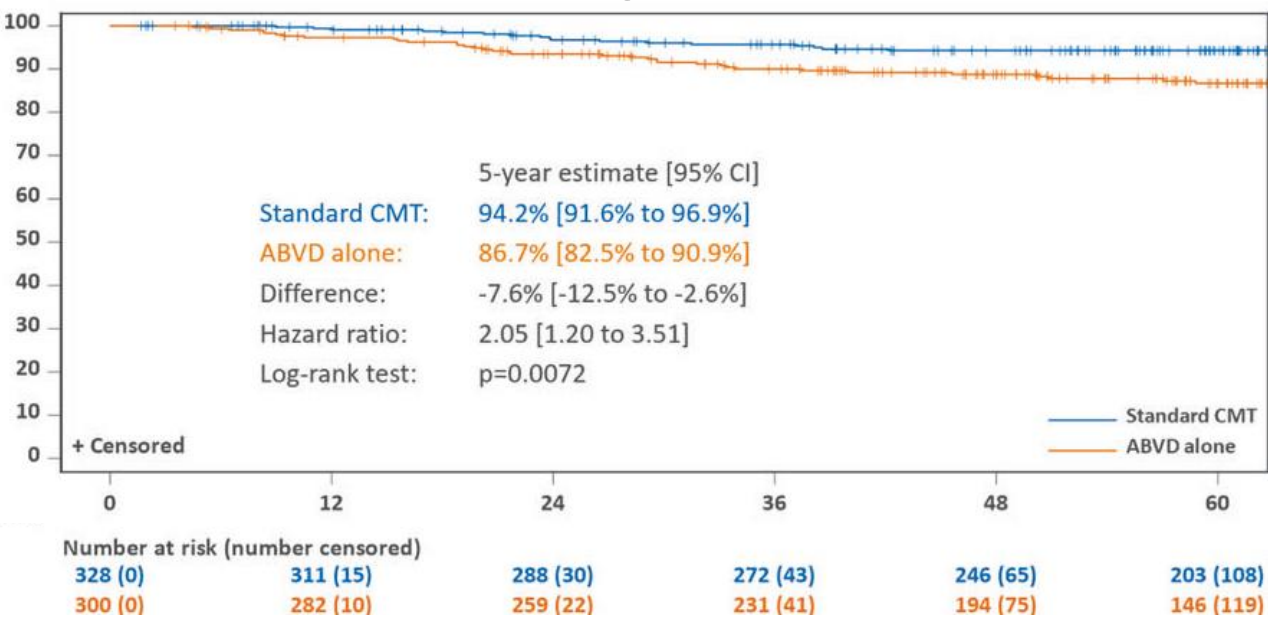
HD16. Early-stage Favorable HL. 5 yrs follow up



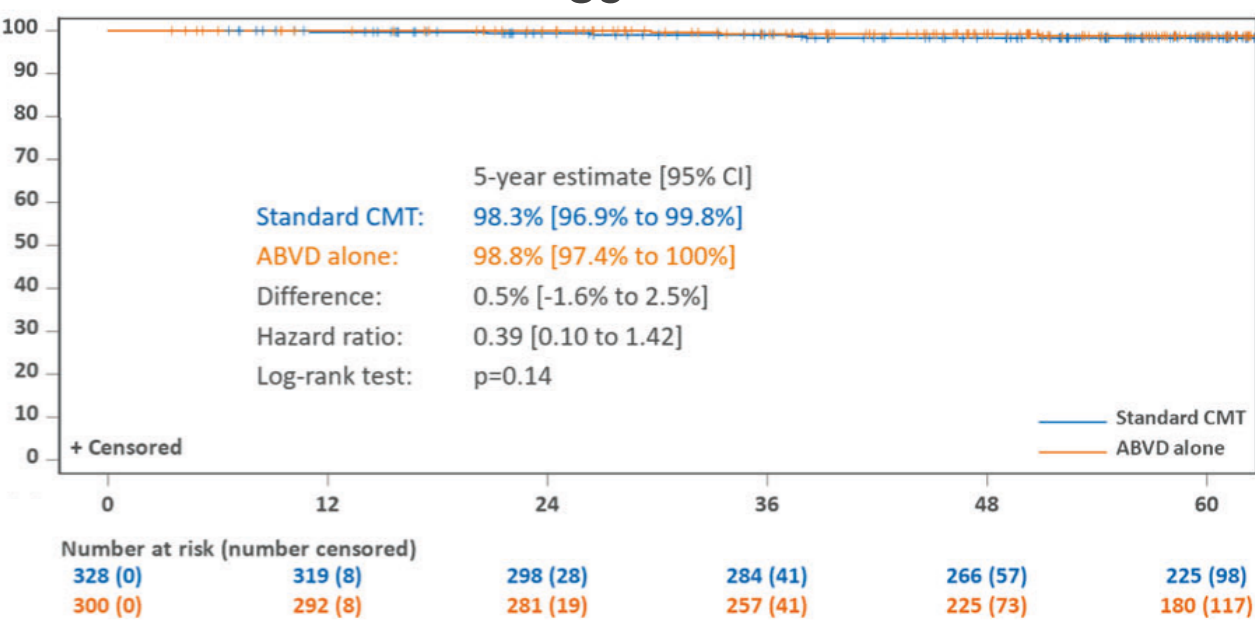
Standard CMT

ABVD alone

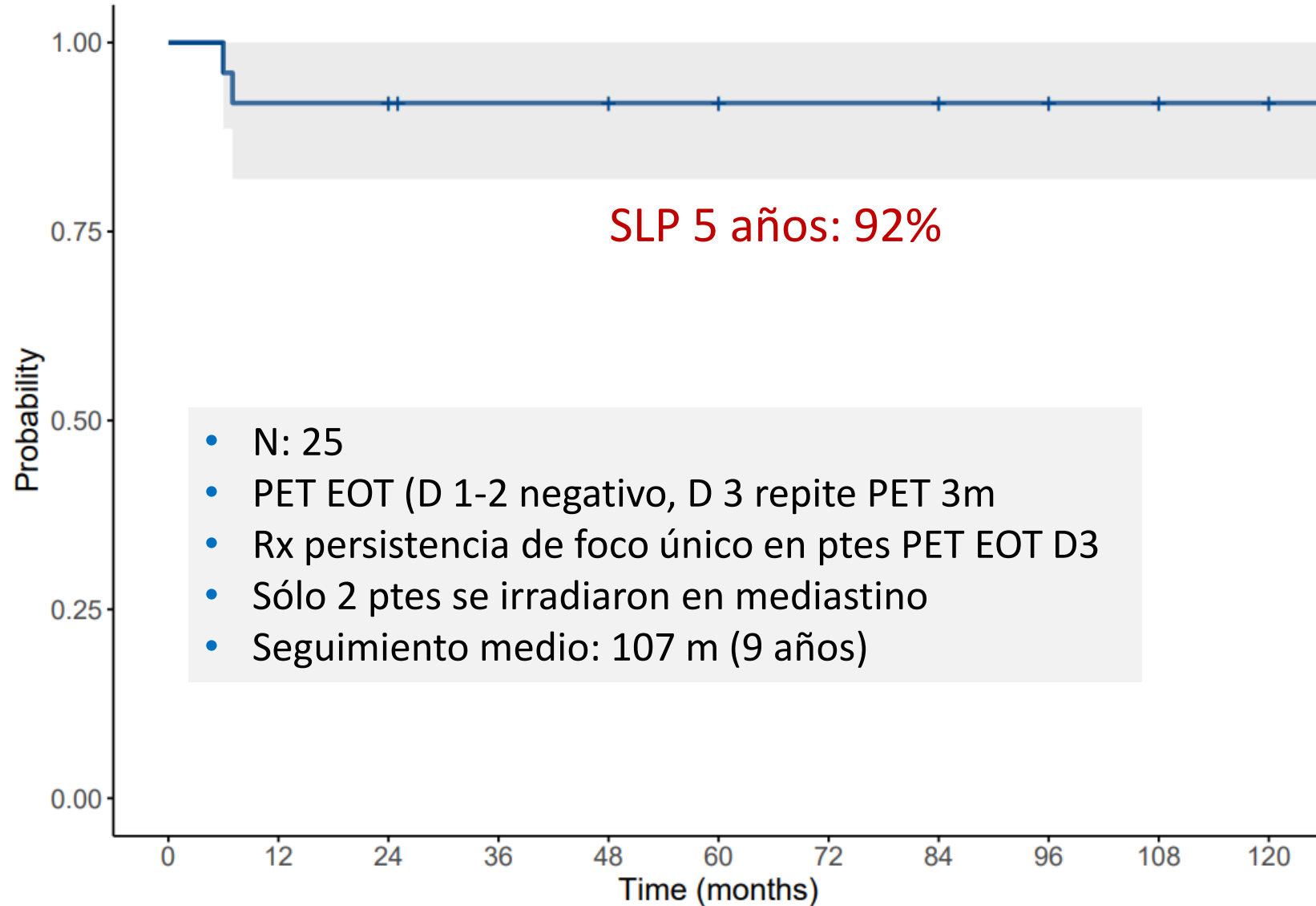
PFS

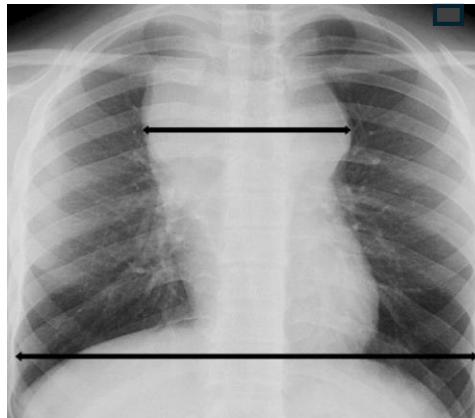


OS



SLP en LH temprano favorable ABVD x 3 (RAPID)

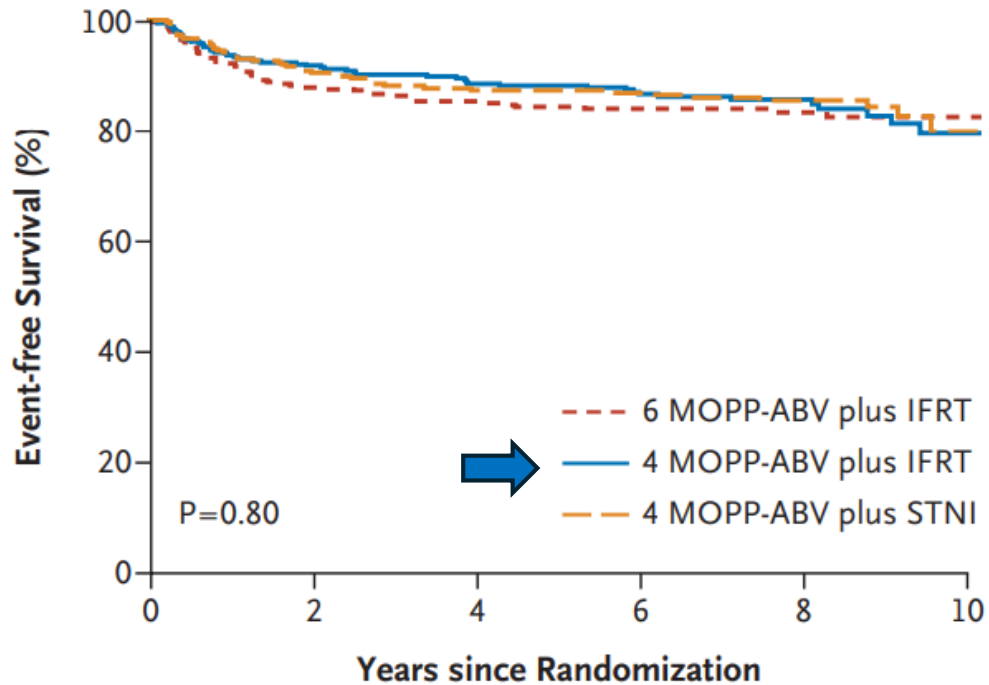




Primera línea en LHc temprano desfavorable
(I-IIB y/o voluminoso)

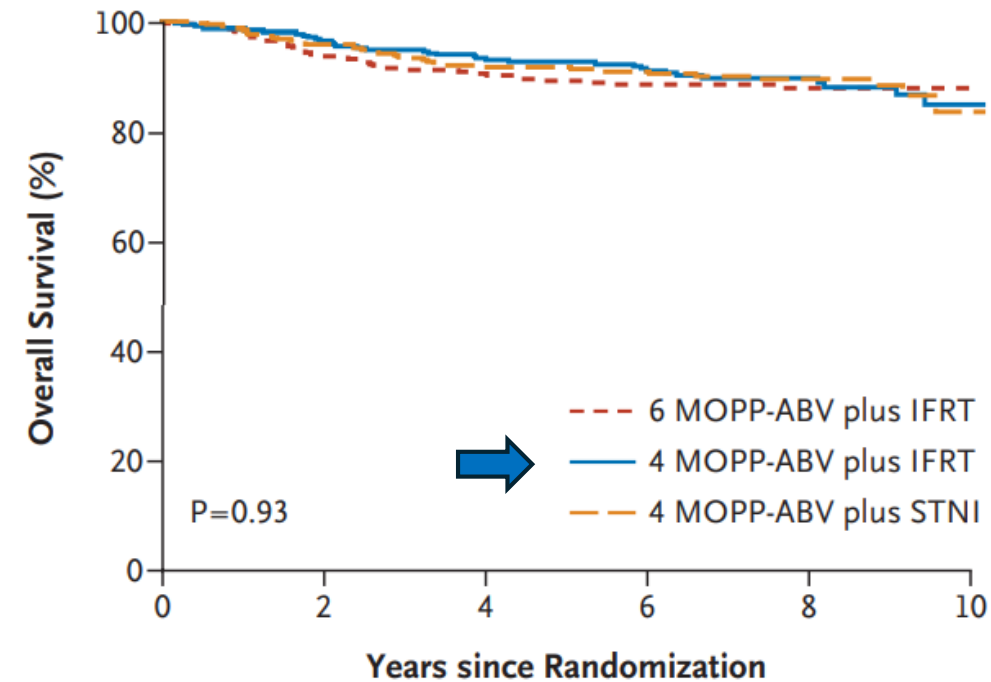
H8-U trial. LH temprano desfavorable

SNTI



No. at Risk

6 MOPP-ABV plus IFRT	336	283	258	206	114	21
4 MOPP-ABV plus IFRT	333	297	270	216	112	30
4 MOPP-ABV plus STNI	327	288	265	215	118	18



No. at Risk

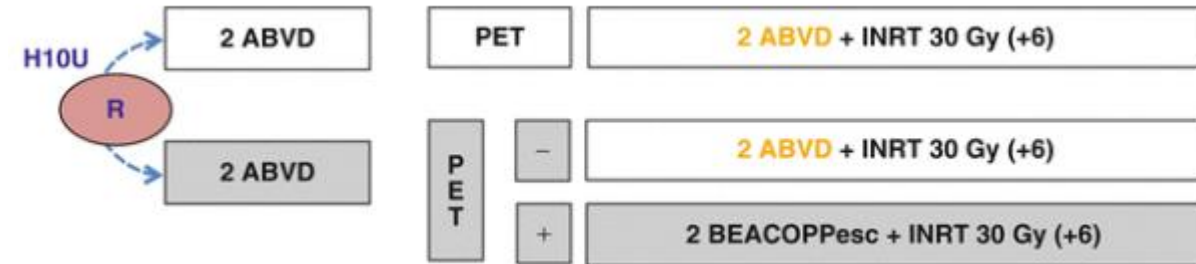
6 MOPP-ABV plus IFRT	336	303	276	219	119	21
4 MOPP-ABV plus IFRT	333	312	283	228	120	33
4 MOPP-ABV plus STNI	327	303	277	223	119	18

LHc Temprano desfavorable



National
Comprehensive
Cancer
Network®

NCCN Guidelines Version 2.2025 Hodgkin Lymphoma (Age 18–60 years)



Stage I/II
Unfavorable
CHL
(B symptoms
or bulky
mediastinal
disease
or >10 cm
adenopathy)

ABVD
x 2
cycles

Restage
with
FDG-PET/
CT

Deauville
1–3

Combined modality therapy

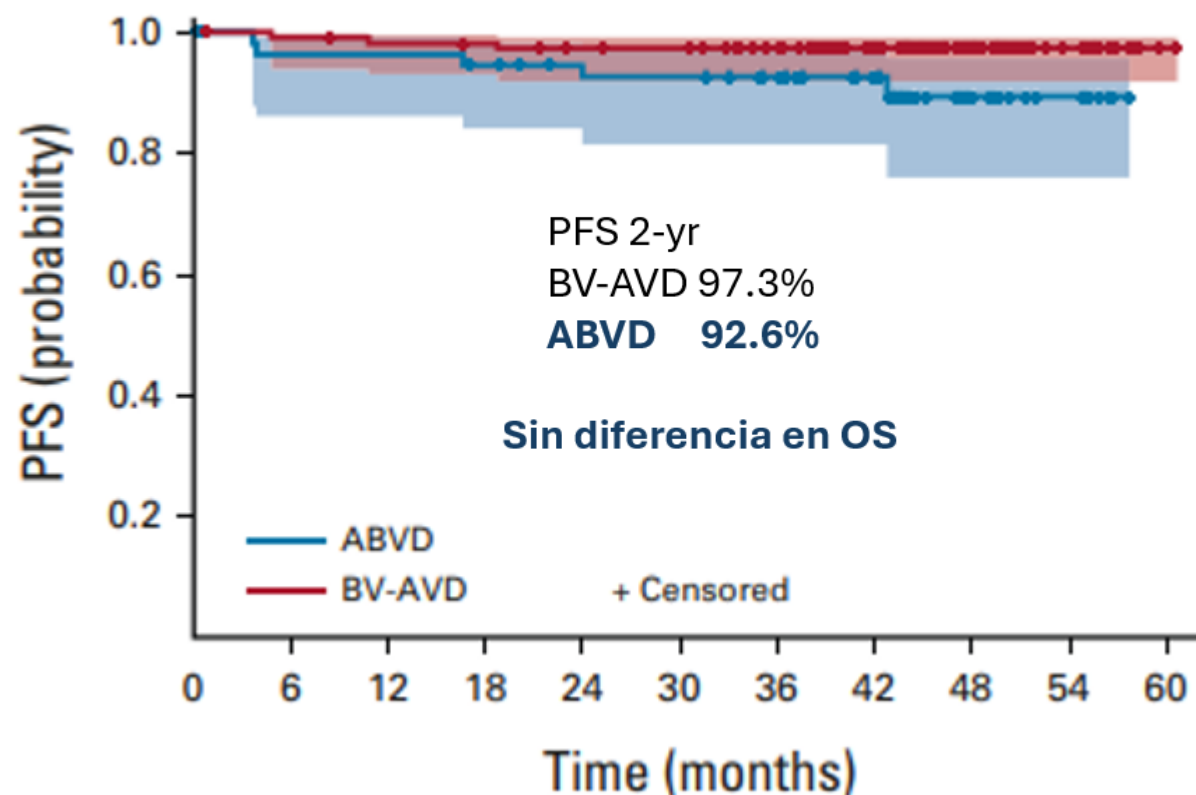
ABVD x 2 cycles + ISRT 30 Gy (adapted from H10U)

Chemotherapy alone

AVD x 4 cycles (adapted from RATHL)

ULHB

LHc Temprano desfavorable



NCCN Guidelines Version 2.2025 Hodgkin Lymphoma (Age 18–60 years)

Stage I/II
Unfavorable
CHL^P
(B symptoms
or bulky
mediastinal
disease
or >10 cm
adenopathy)

Nivolumab-AVD x4 cycles^r + ISRT
30 Gy^t (B symptoms and/or bulky
disease, adapted from NIVAHL)⁶

or

Brentuximab vedotin (BV)-AVD +
G-CSF x4 cycles^r + ISRT 30 Gy^t
(adapted from BREACH)⁷

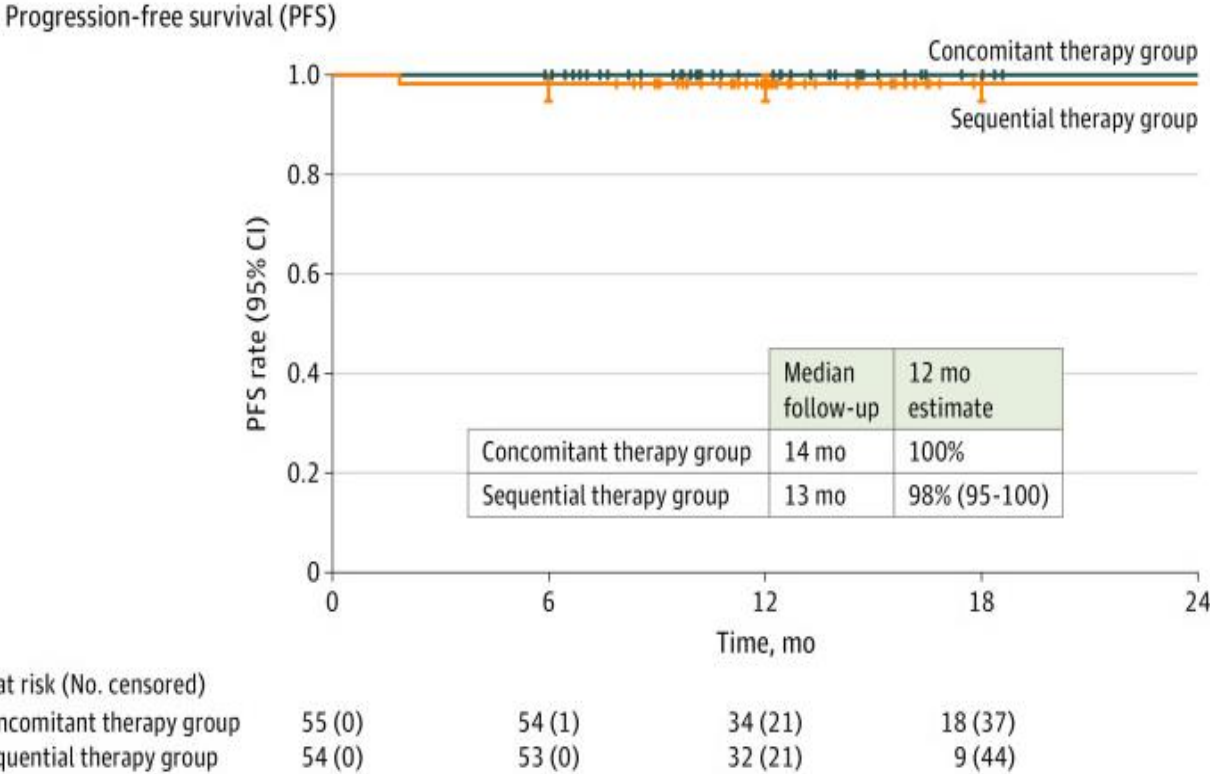
or

BrECADD + G-CSF x 2 cycles^r
(Bulky disease and either B
symptoms or extranodal disease,
ages 18-61, adapted from HD21)⁸

LHc Temprano desfavorable



**NCCN Guidelines Version 2.2025
Hodgkin Lymphoma (Age 18–60 years)**



**Stage I/II
Unfavorable
CHL^P
(B symptoms
or bulky
mediastinal
disease
or >10 cm
adenopathy)**

**Nivolumab-AVD x4 cycles^r + ISRT
30 Gy^t (B symptoms and/or bulky
disease, adapted from NIVAHL)⁶**

or

**Brentuximab vedotin (BV)-AVD +
G-CSF x4 cycles^r + ISRT 30 Gy^t
(adapted from BREACH)⁷**

or

**BrECADD + G-CSF x 2 cycles^r
(Bulky disease and either B
symptoms or extranodal disease,
ages 18-61, adapted from HD21)⁸**

NIVAHL trial

¿Se puede evitar la radioterapia?

Paul Bröckelmann

para mí ▼

Dear Germán,

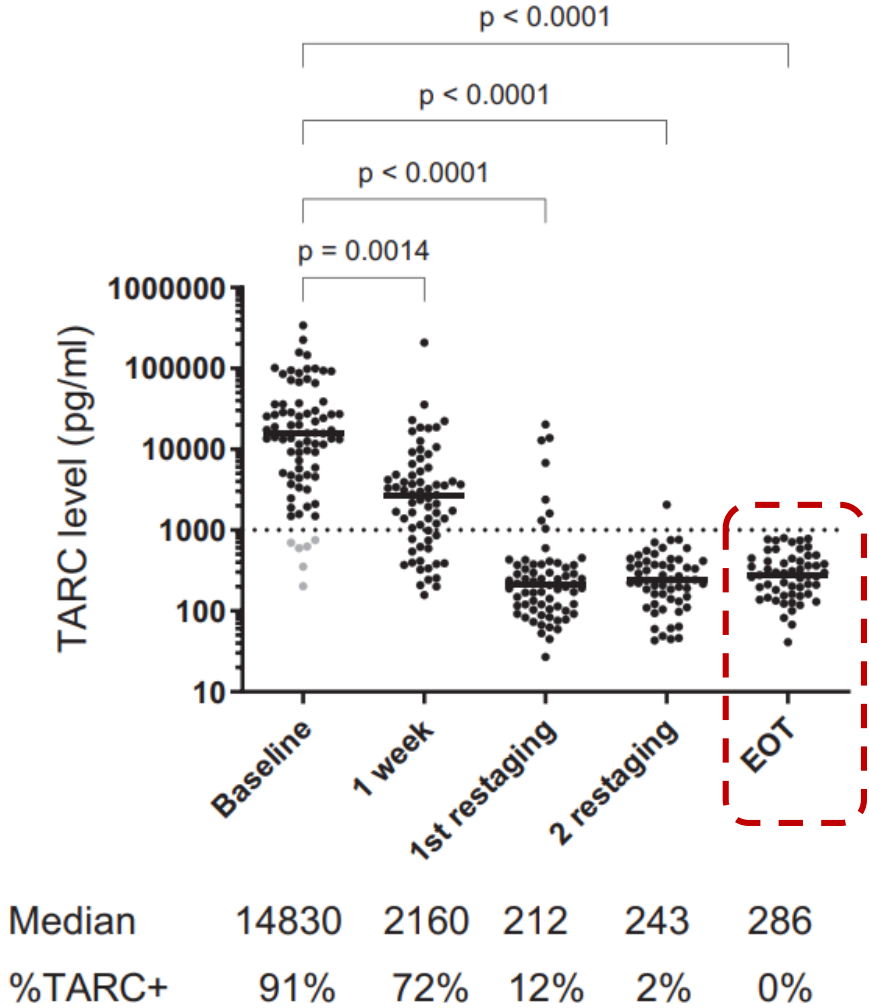
thank you for reaching out regarding the NIVAHL-based treatment of your patient. We dont have any data to support omission of radiotherapy in case of PET-negative CMR after 4x N-AVD, since all patients received 30Gy IS-RT in NIVAHL. If you want to deviate from this evidence in an individual case (which could be well justified in a young female patient with extensive RT field), you might find our recent study, showing TARC negativity in all patients after 4x N-AVD prior to RT encouraging: <https://pubmed.ncbi.nlm.nih.gov/40862220/>, since it suggests not only PET-negativity but also resolution of measurable cHL by this well established soluble biomarker.

Thymus and Activation Regulating Chemokine (TARC, or CCL17)

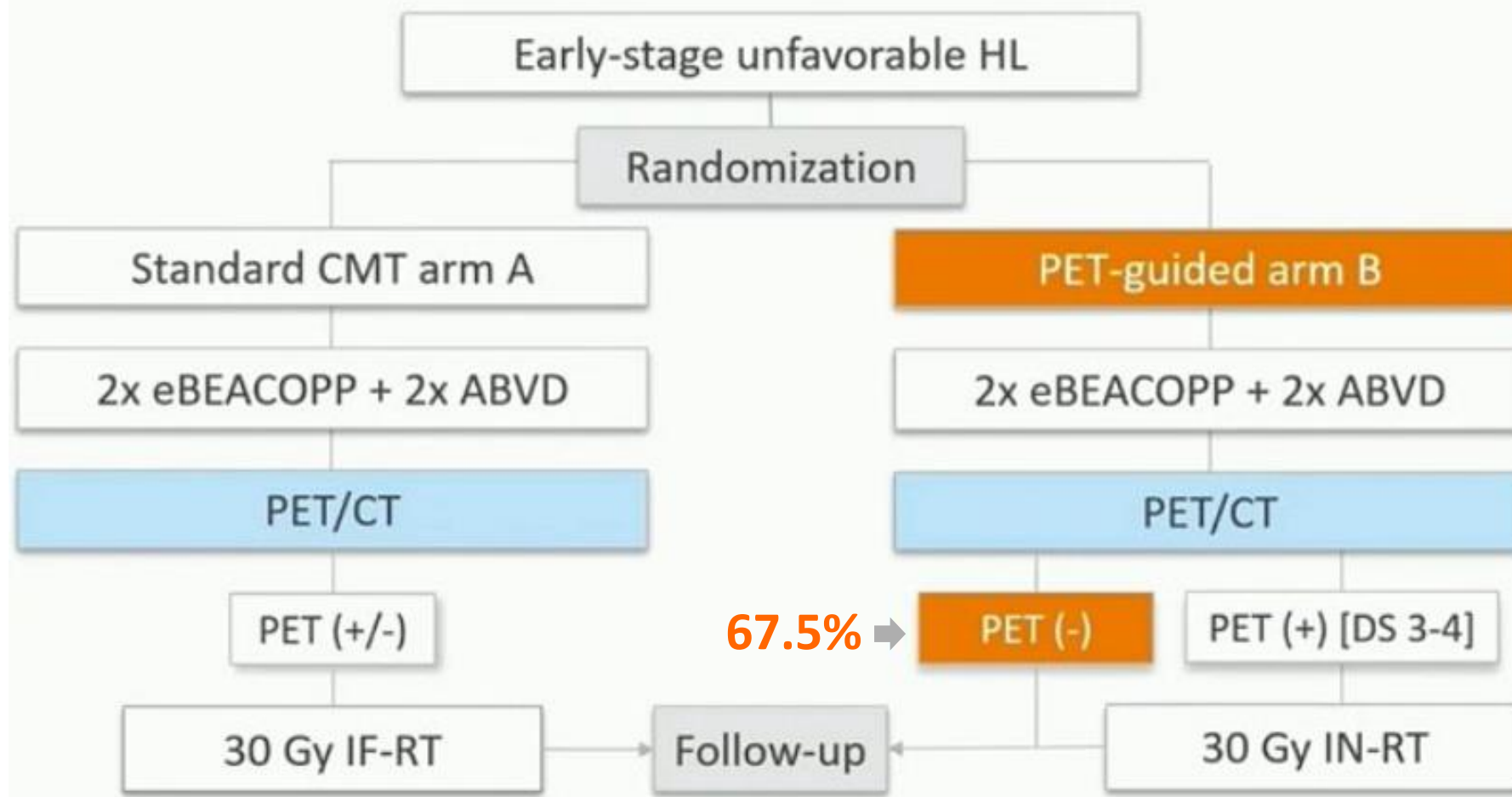
NIVAHL trial

Serum TARC dynamics

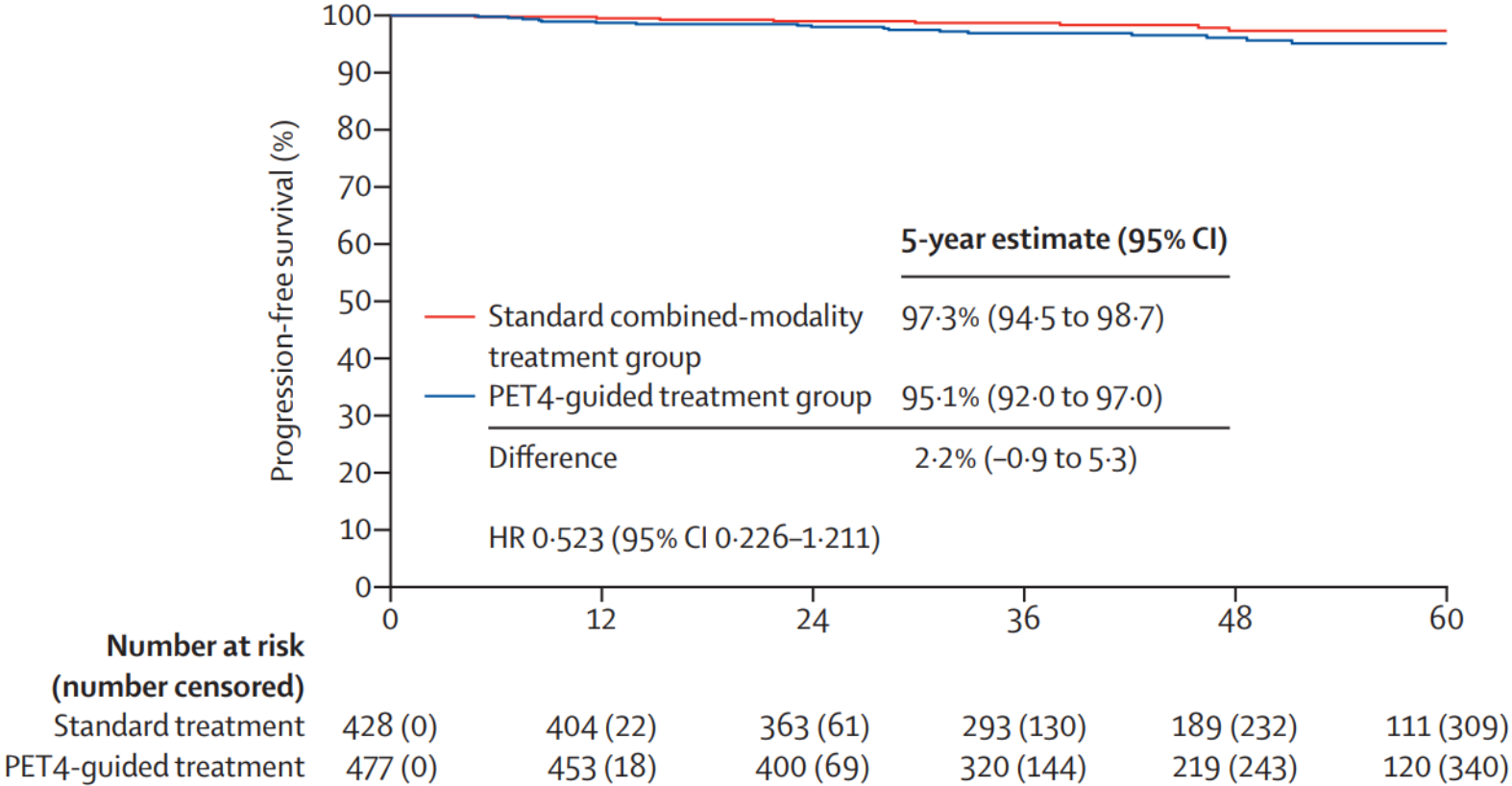
TARC:
by ELISA (R&D Systems,
USA, Human CCL17/TARC
Quantikine Elisa Kit



HD17 Trial Design



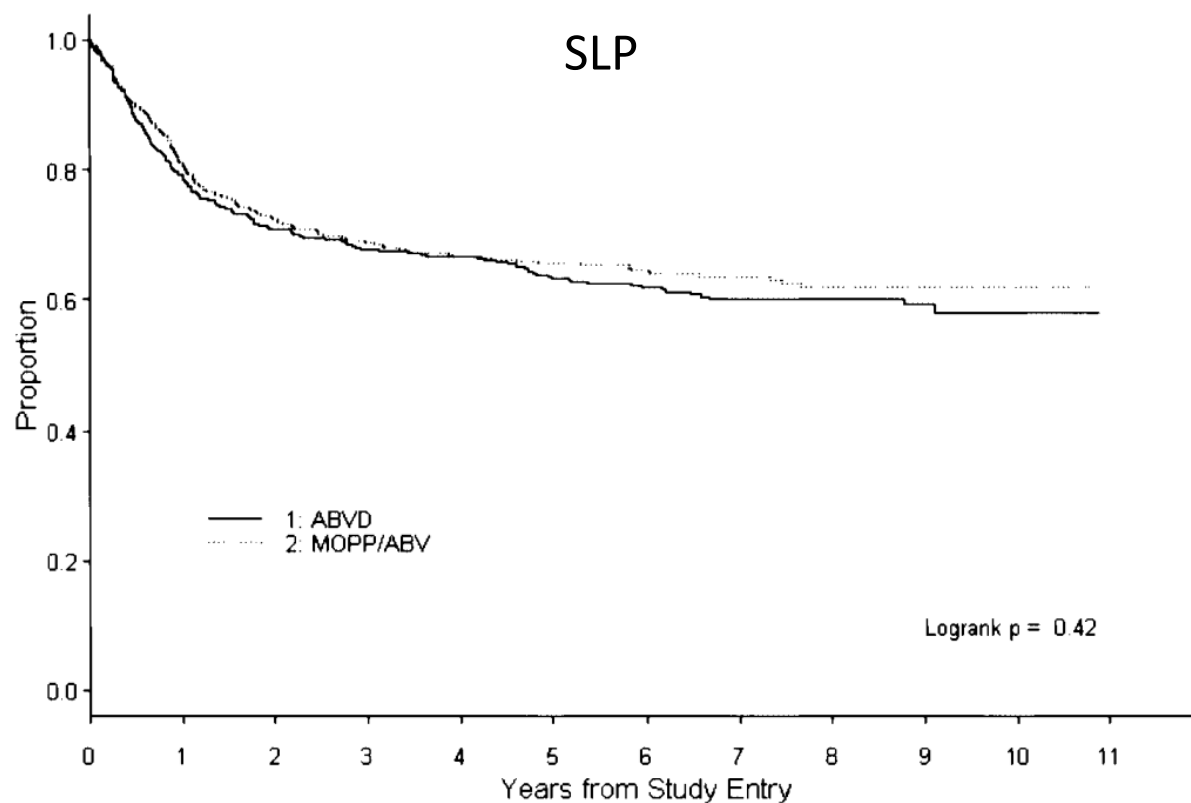
HD17 trial



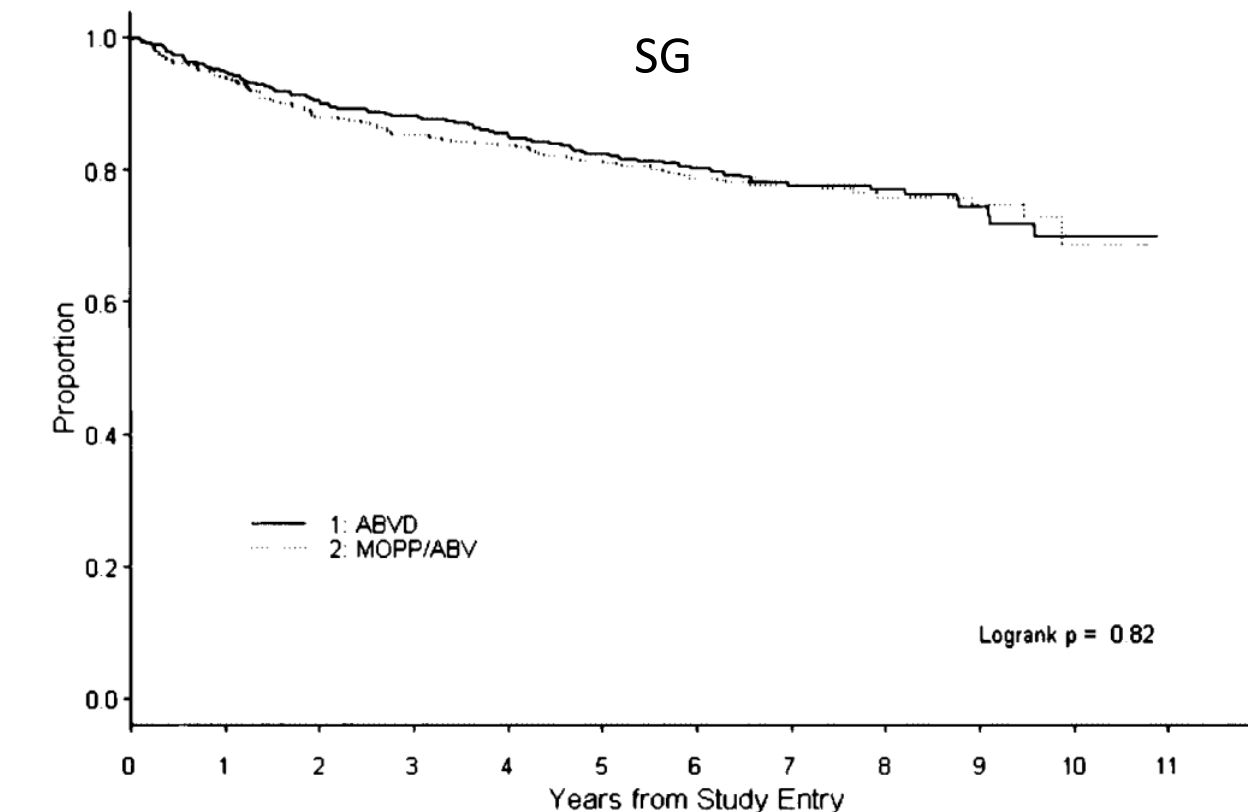
Primera línea en LHc avanzado (III-IV)

CALGB 8952 Trial. LH avanzado 1L

ABVD vs ~~MOPP/ABV~~ (8 ciclos)

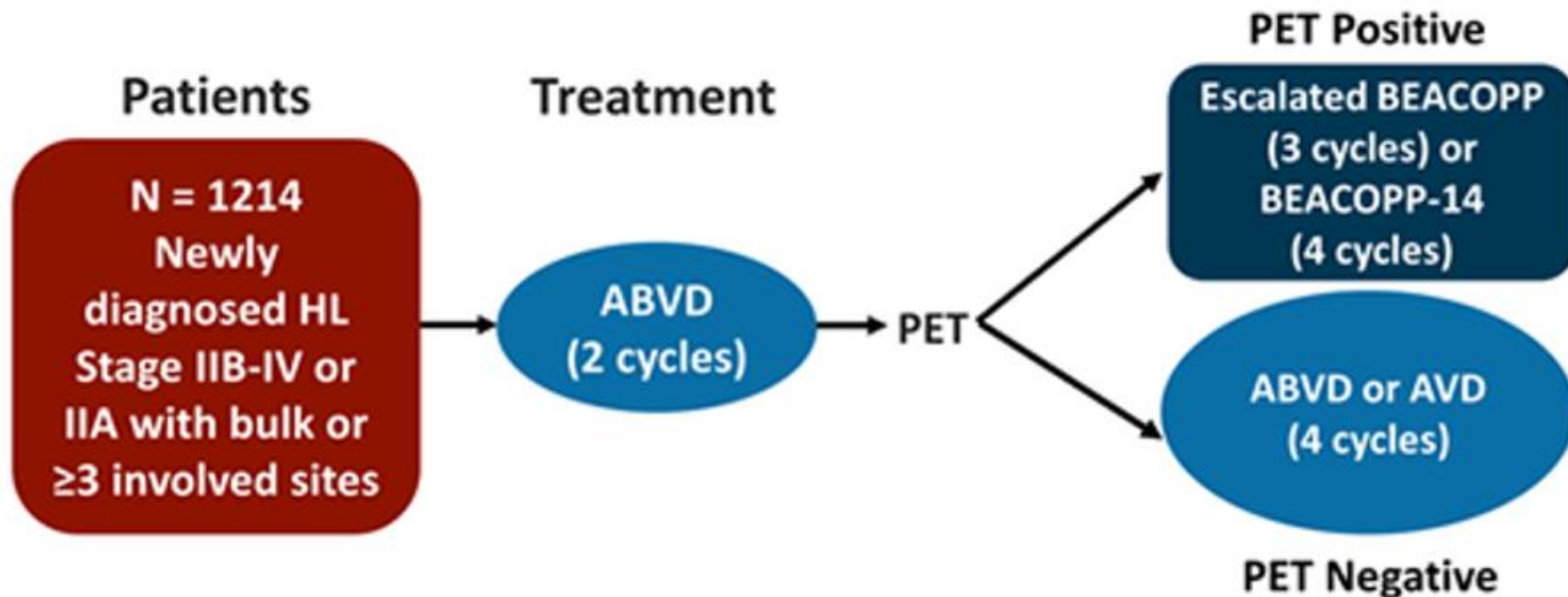


At Risk 1: 433 338 305 291 281 243 186 141 92 60 13
2: 419 338 300 283 270 245 192 139 90 53 9



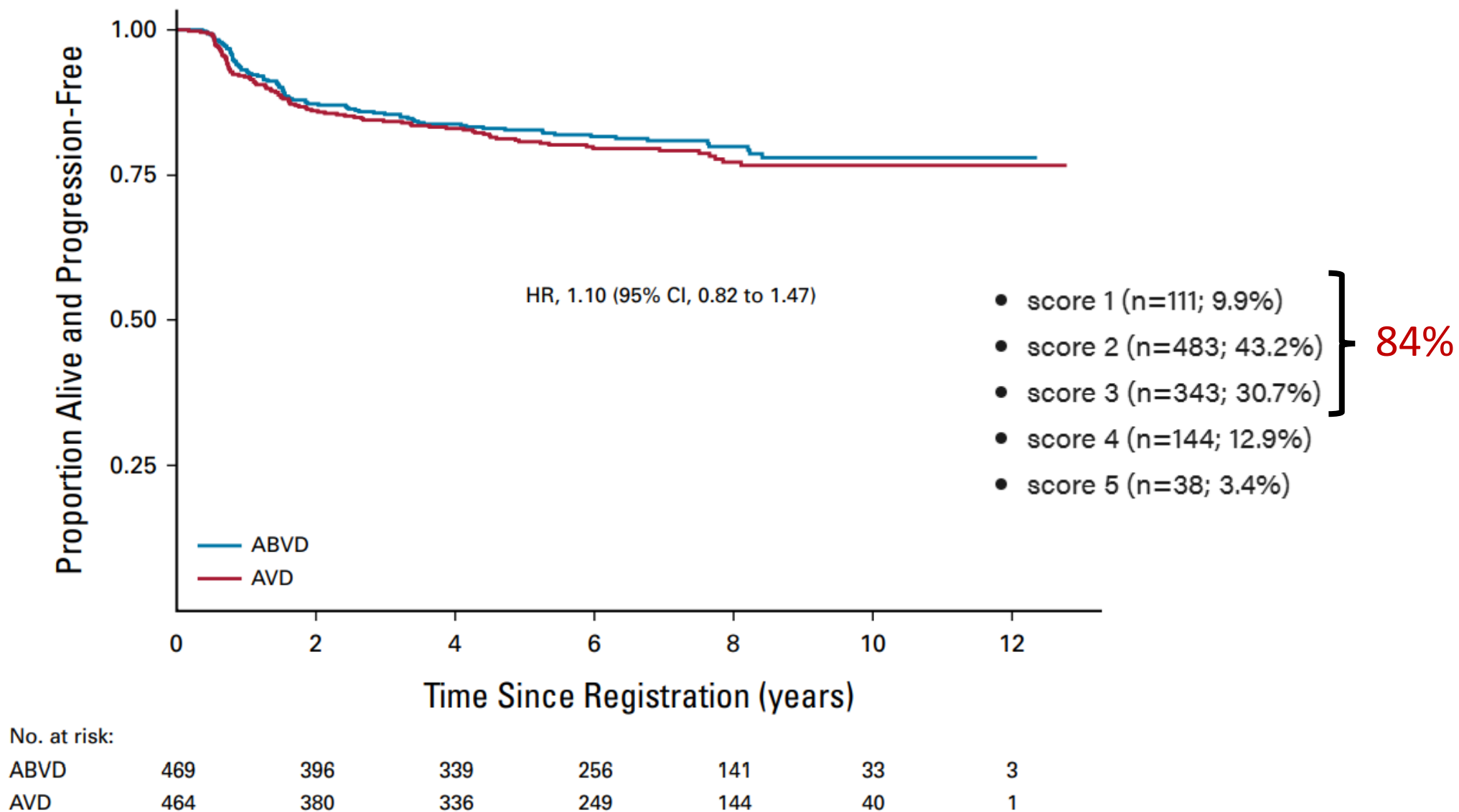
At Risk 1: 433 409 390 379 358 317 243 182 115 69 14
2: 419 392 363 349 337 303 229 167 110 66 10

RATHL: Response-adapted Treatment in Hodgkin Lymphoma FDG-PET

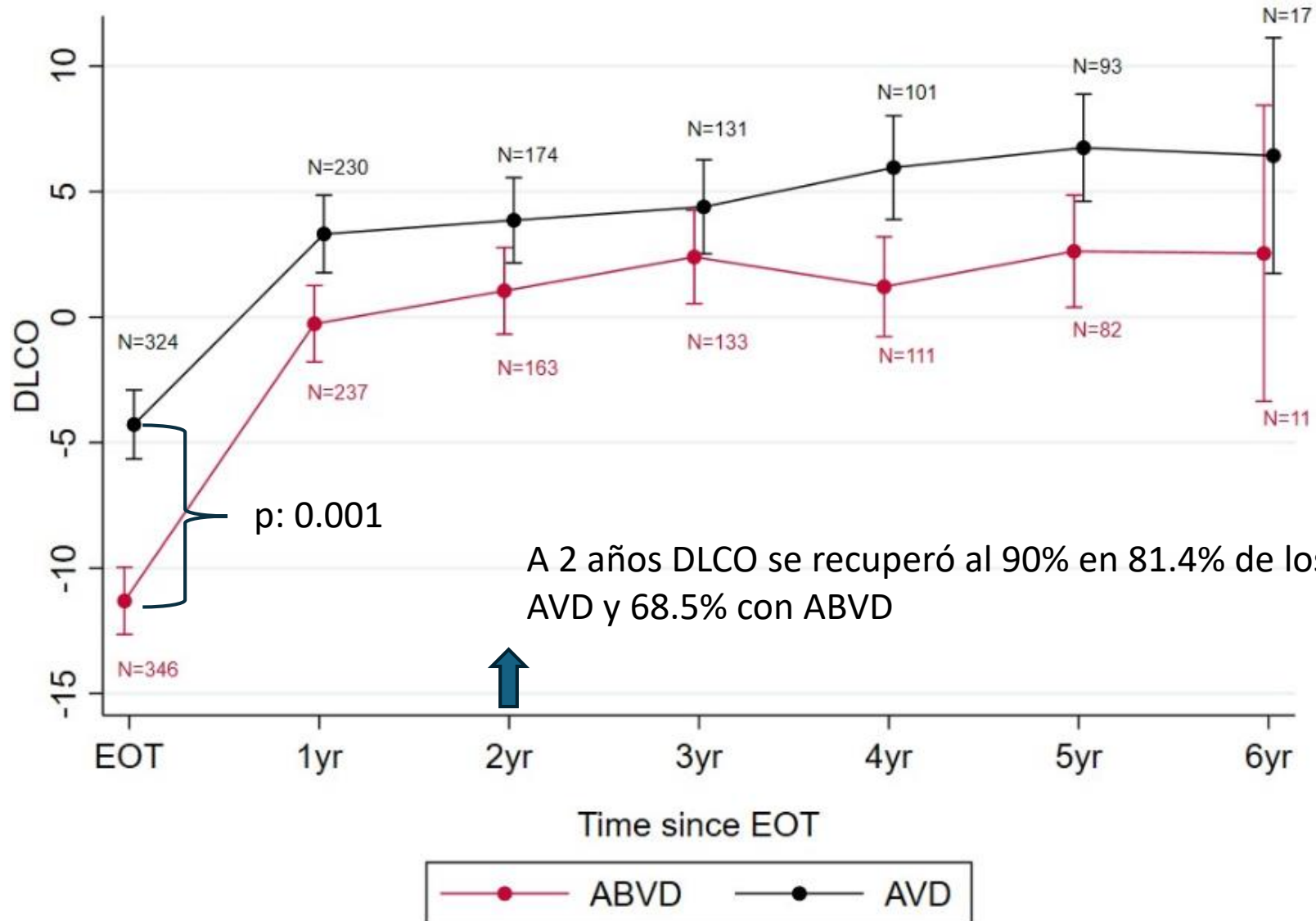


Outcomes	ABVD or AVD	eBEACOPP or BEACOPP-14
3 y PFS, %	85	68
3-y OS, %	97	86

RATHL: PFS 7 años

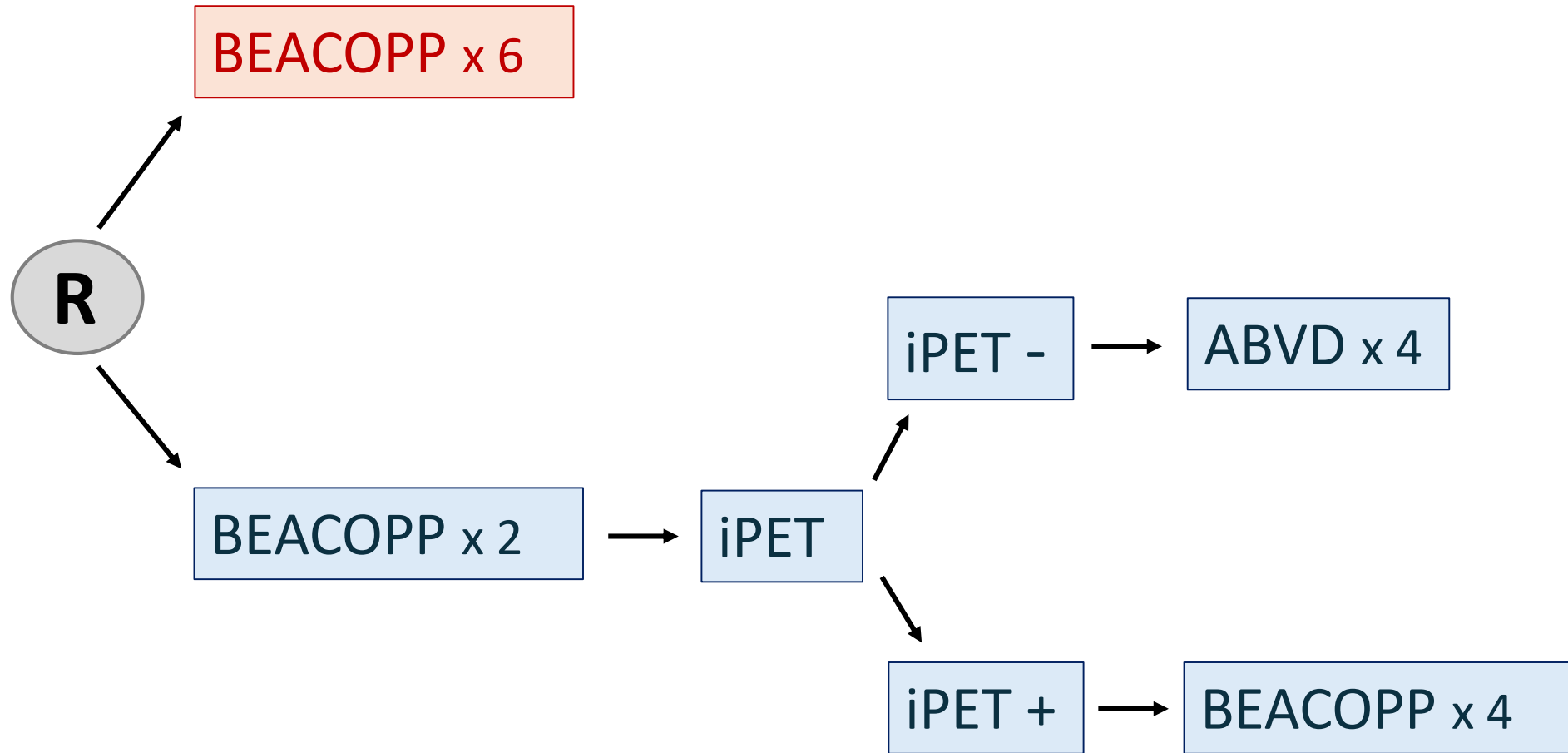


RATHL. Toxicidad pulmonar

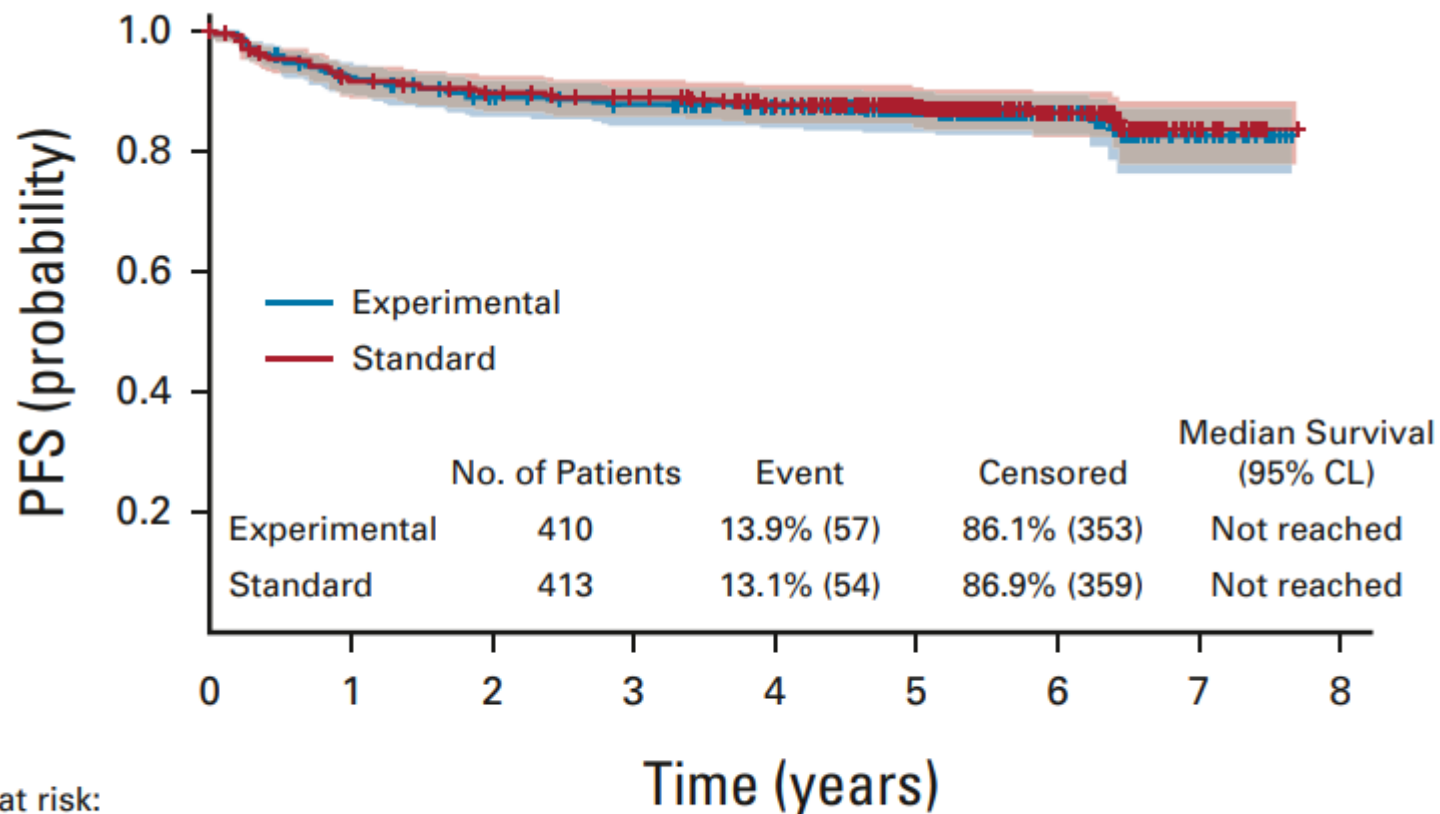


~~ABVD x 6~~

AHL2011 trial



AHL2011 trial

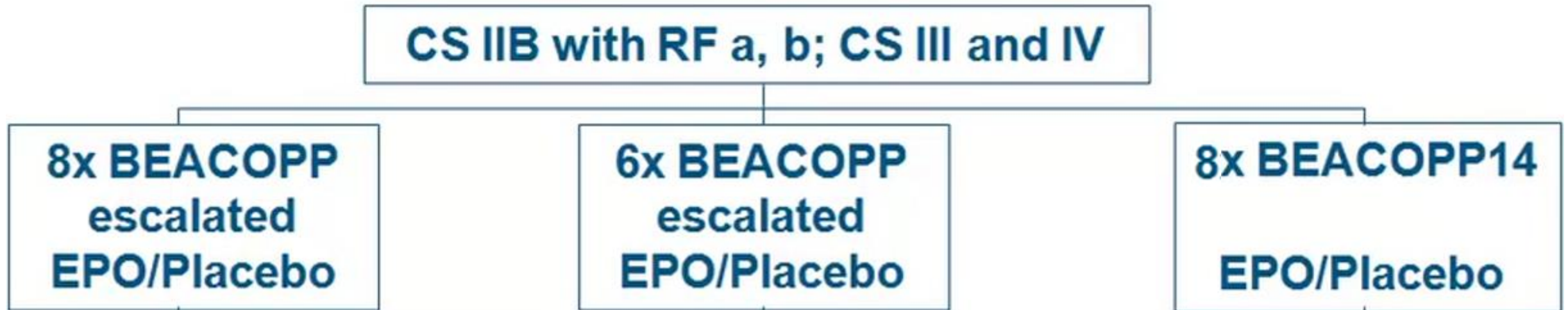


SLP 5 años:
 PET 2+/PET 4 – **75.4%**
 PET 4 + **46%**

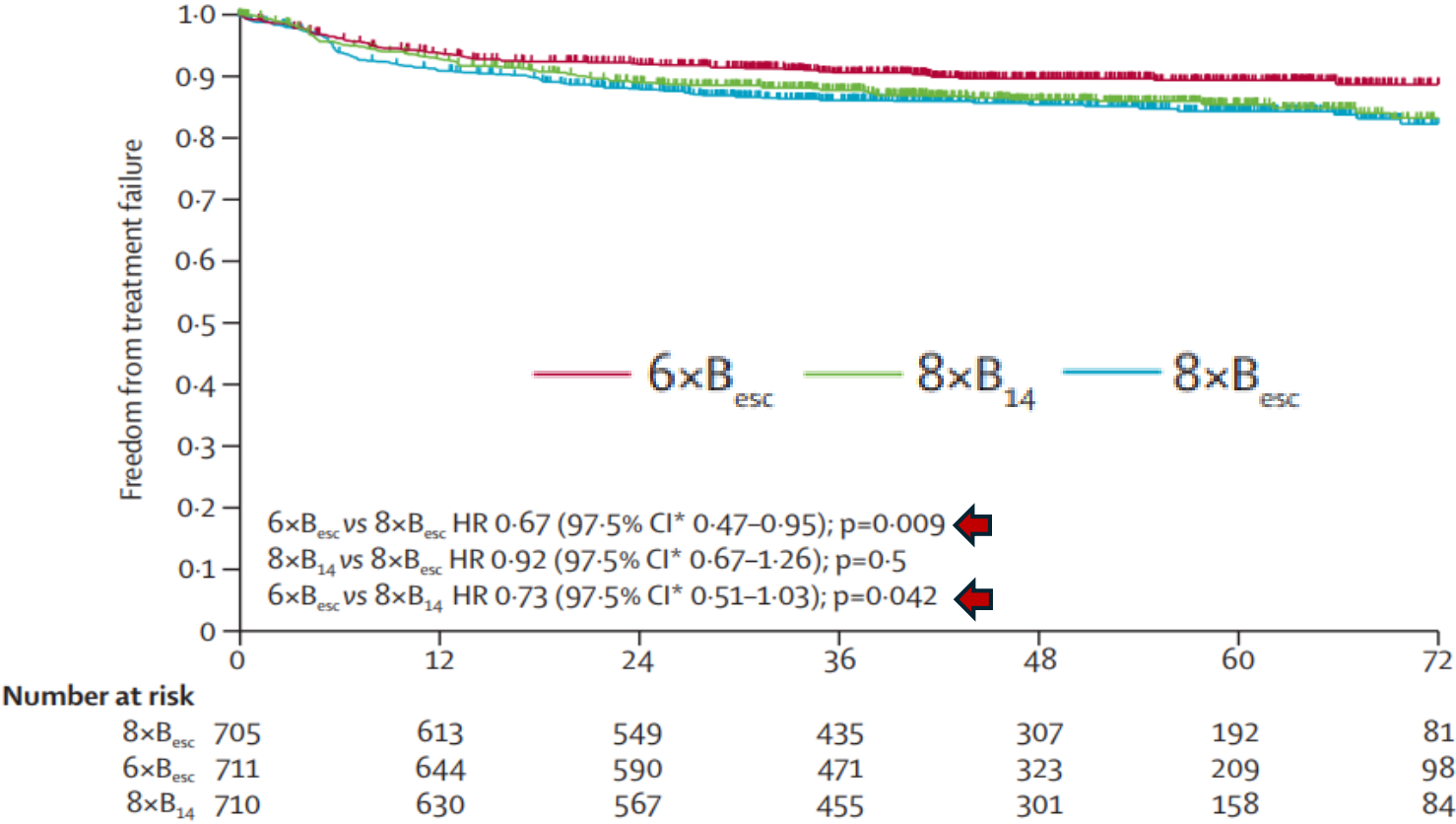
No. at risk:

	410	372	353	343	325	233	96	22	0
Experimental	410	372	353	343	325	233	96	22	0
Standard	413	372	359	351	331	244	102	24	0

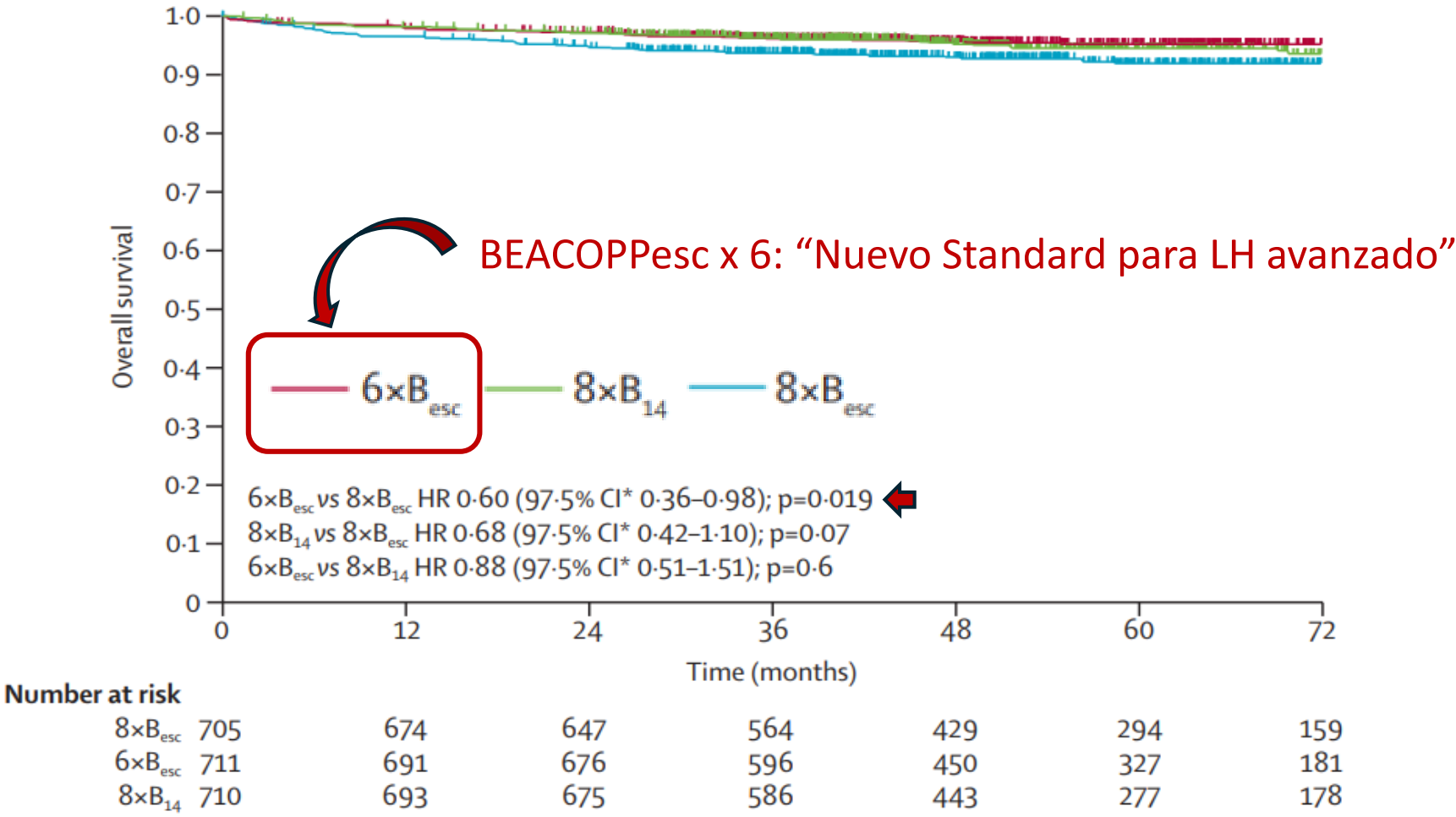
HD15 trial



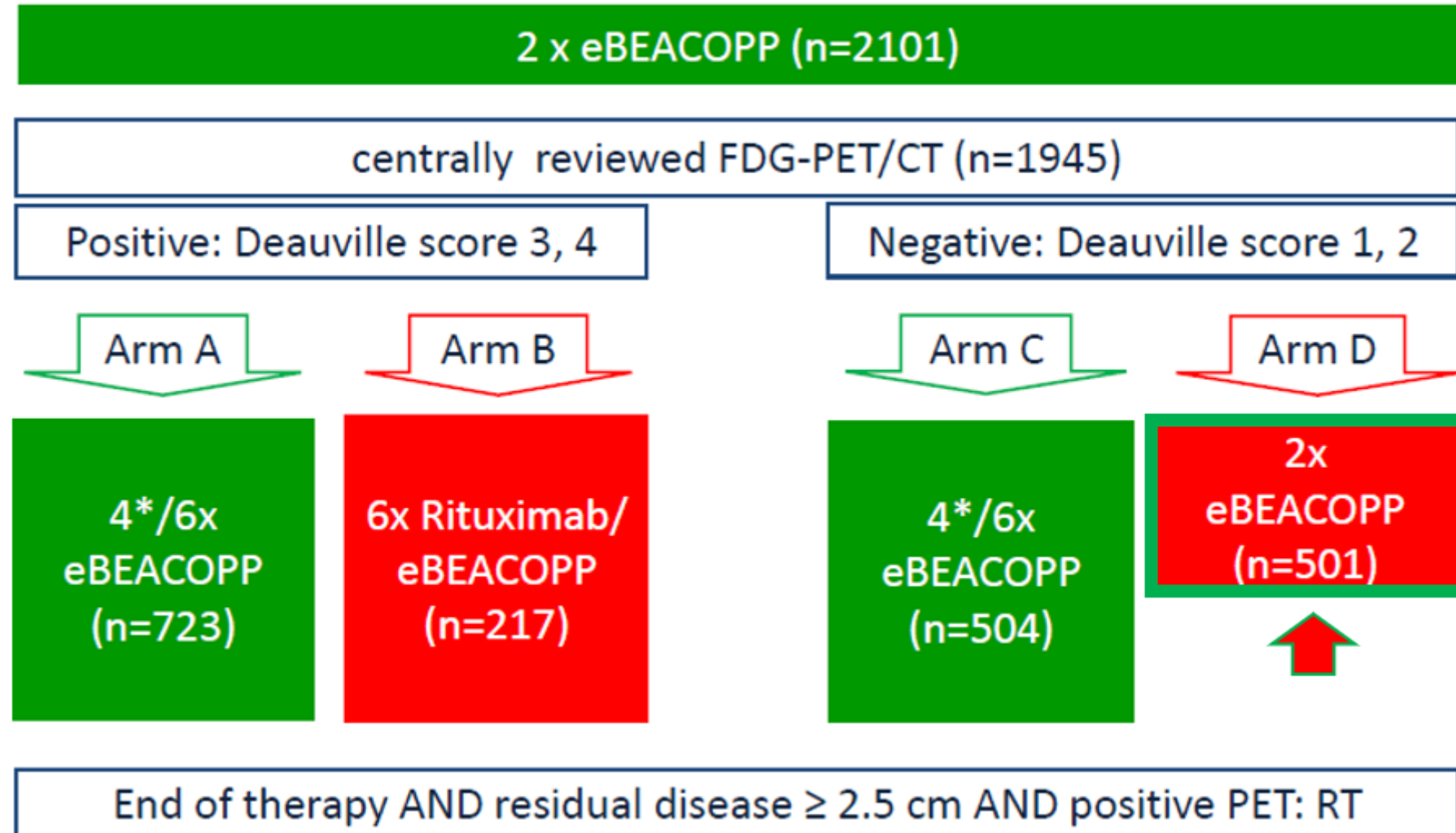
HD15 trial. PFS/FFTF



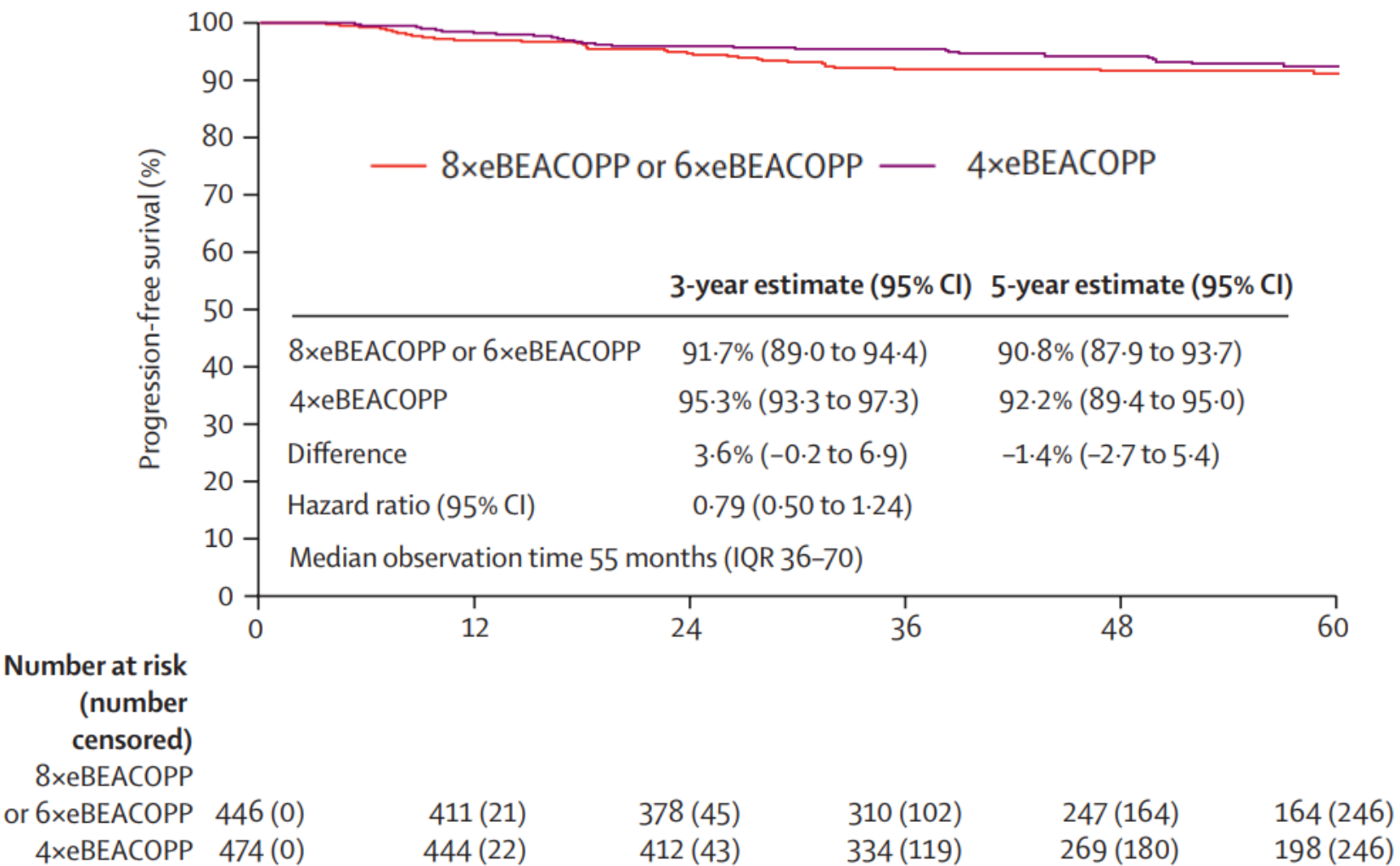
HD15 trial. OS



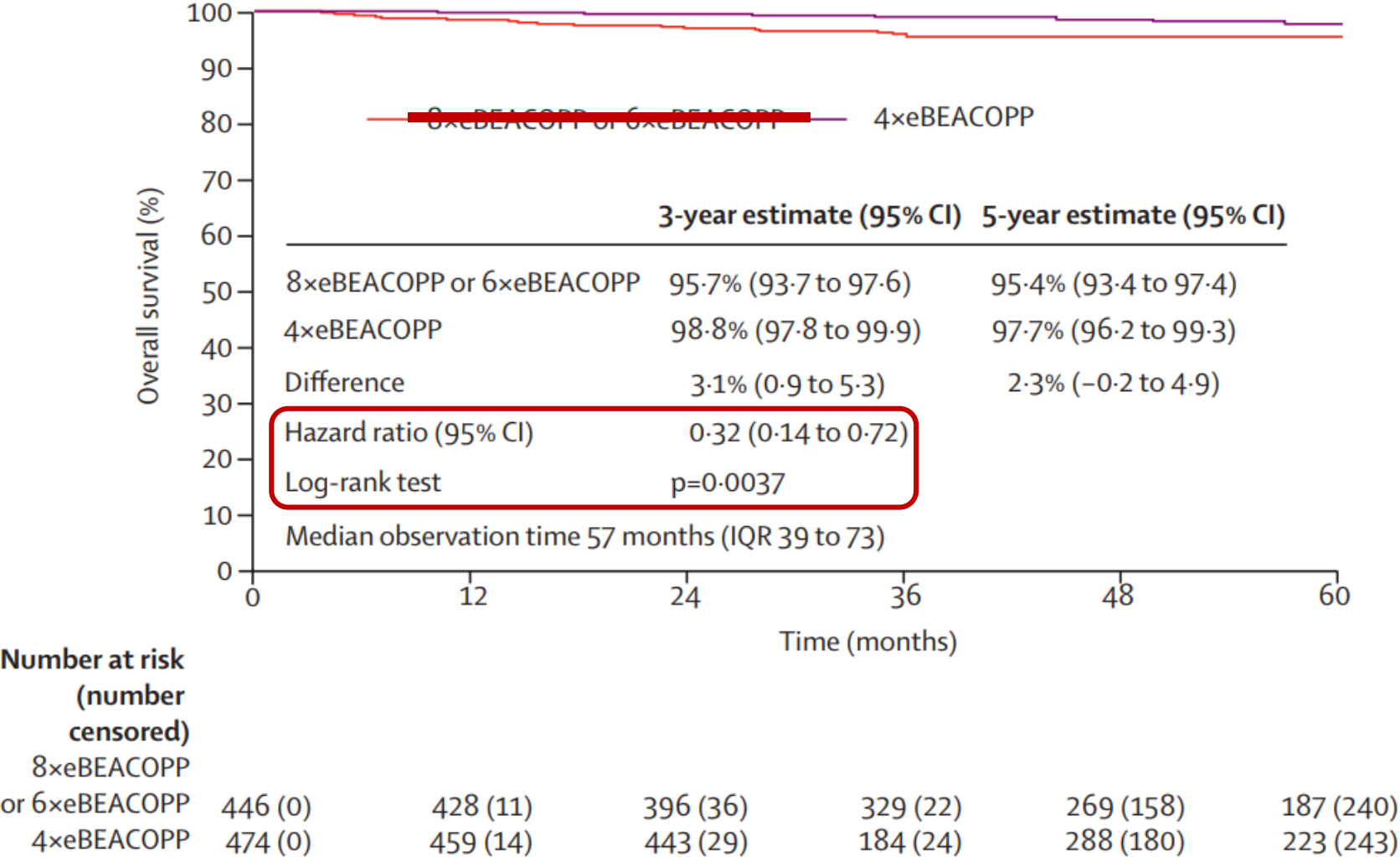
HD18. LHc avanzado 1L



HD18. SLP 6-8 ciclos vs 4 ciclos

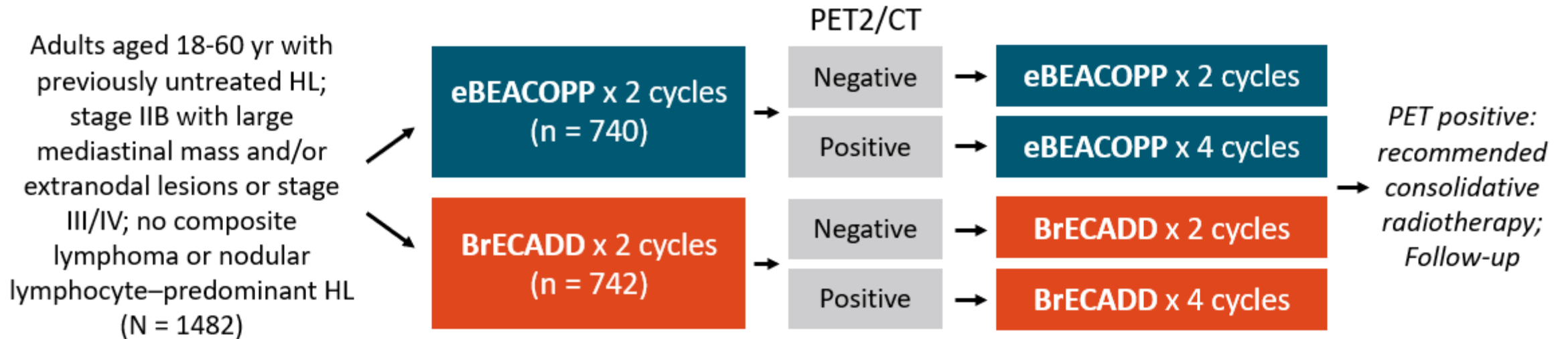


HD18. SG 6-8 ciclos vs 4 ciclos



HD21: BrECADD vs eBEACOPP

- Randomized, noninferiority phase III study



- Primary endpoint:** PFS, treatment-related morbidity
- Secondary endpoints:** CR, OS, EFS, gonadal toxicity, safety

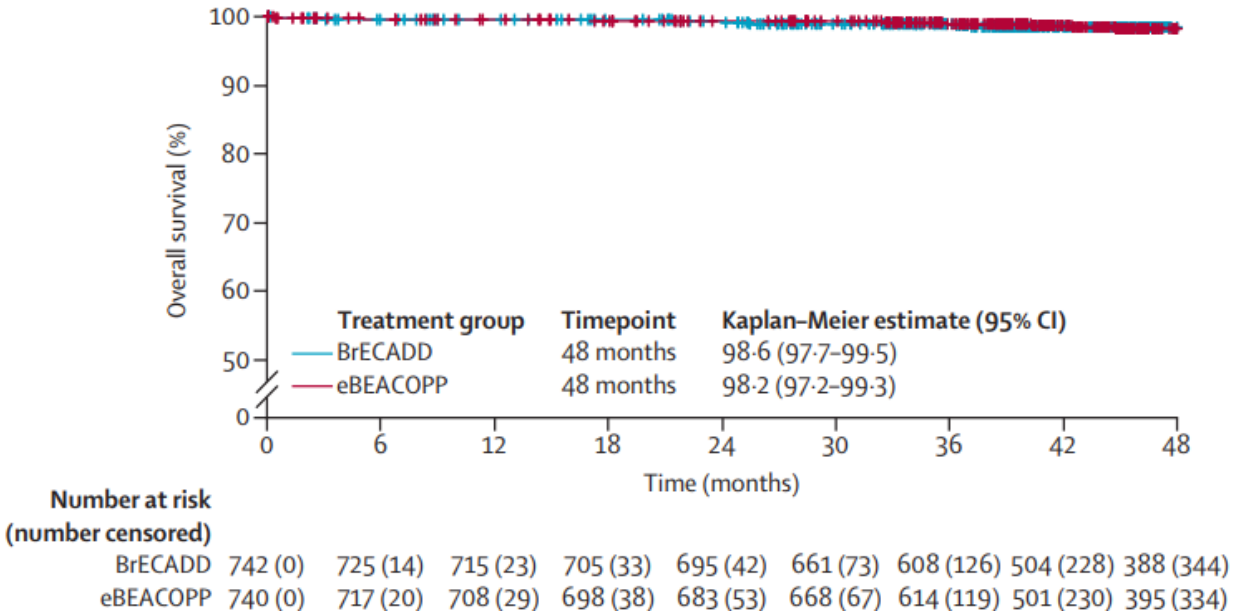
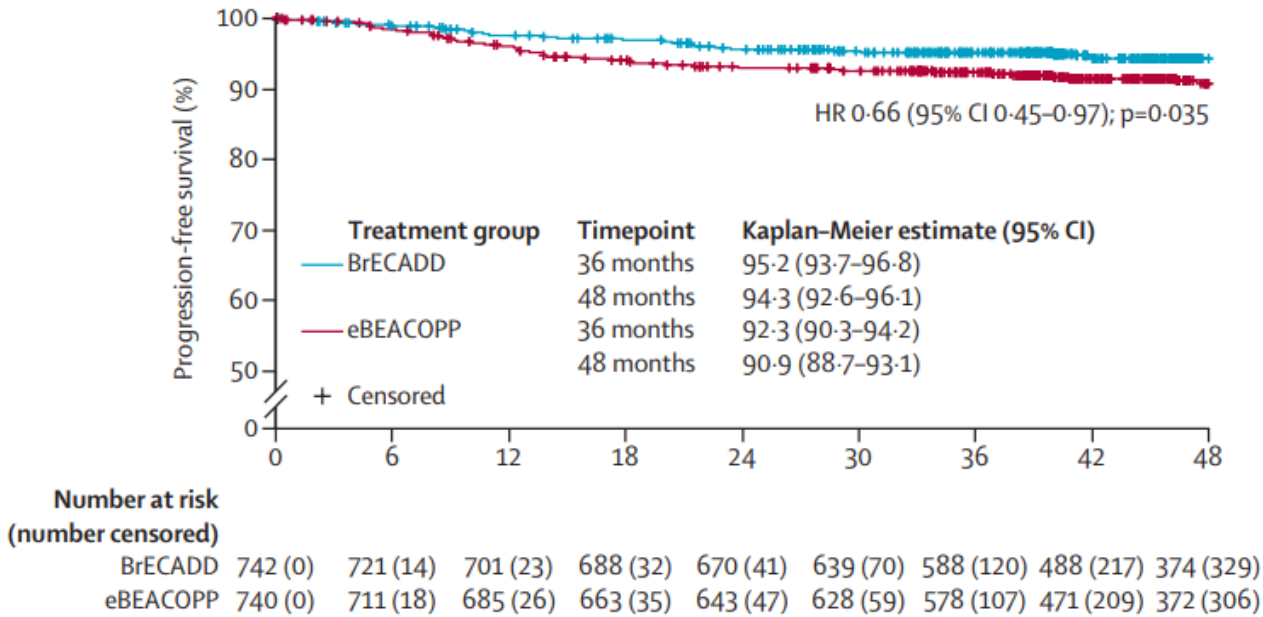
HD21: BrECADD vs eBEACOPP

BrECADD x 4-6 ciclos c/21 días

- 1) BV 1.8 mg/kg (Max 180 mg) D0
- 2) Etopósido 150 mg/m² D1-3
- 3) Ciclofosfamida 1250 mg/m² D1
- 4) Doxorrubicina 40 mg/m² D1
- 5) Dacarbacina 250 mg/m² D2-3
- 6) Dexametasona 40 mg D1-4

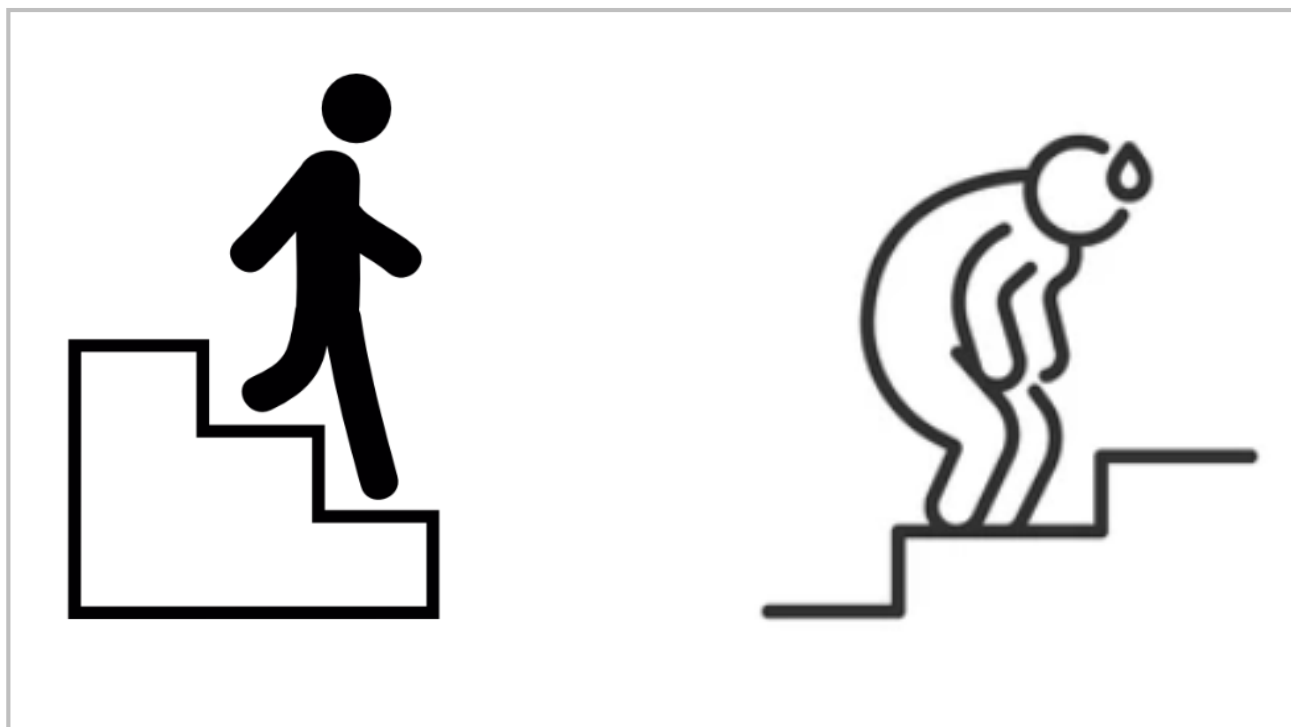
	eBEACOPP	BrECADD
Anemia ≥G3	59%	30%
Trombocitopenia ≥G3	72%	55%
Neutropenia febril ≥G3	21%	28%
Transf GR/Plt	53/34%	24/17%
NP sensitiva	49%	39%

HD21: BrECADD vs ~~eBEACOPP~~



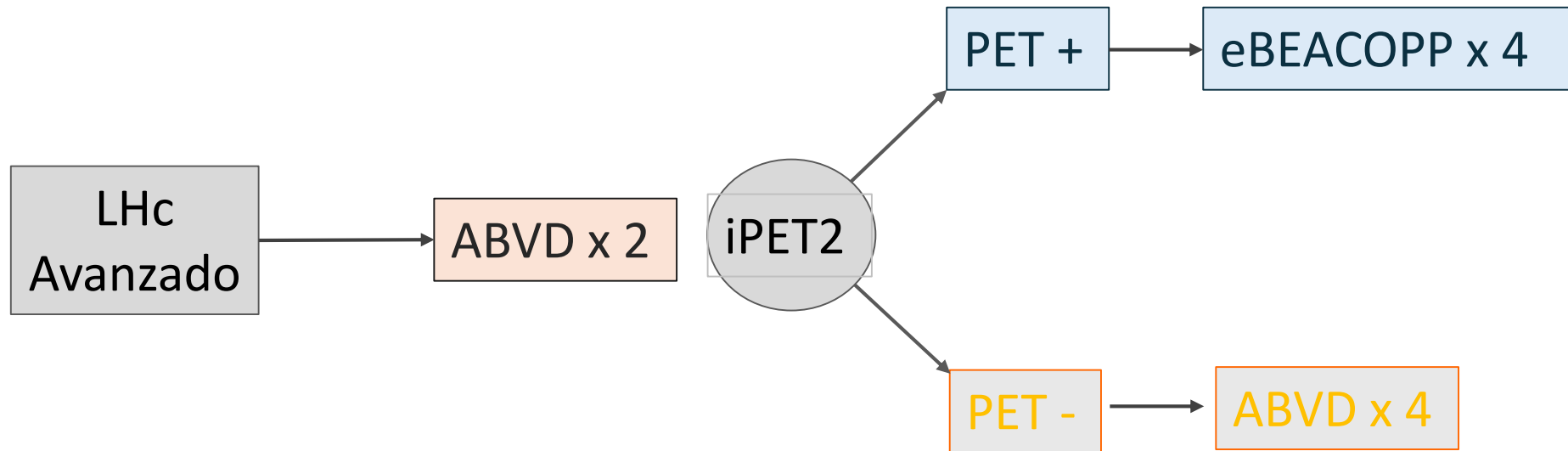
Linfoma de Hodgkin

¿Es más “fácil” des-escalar que escalar?



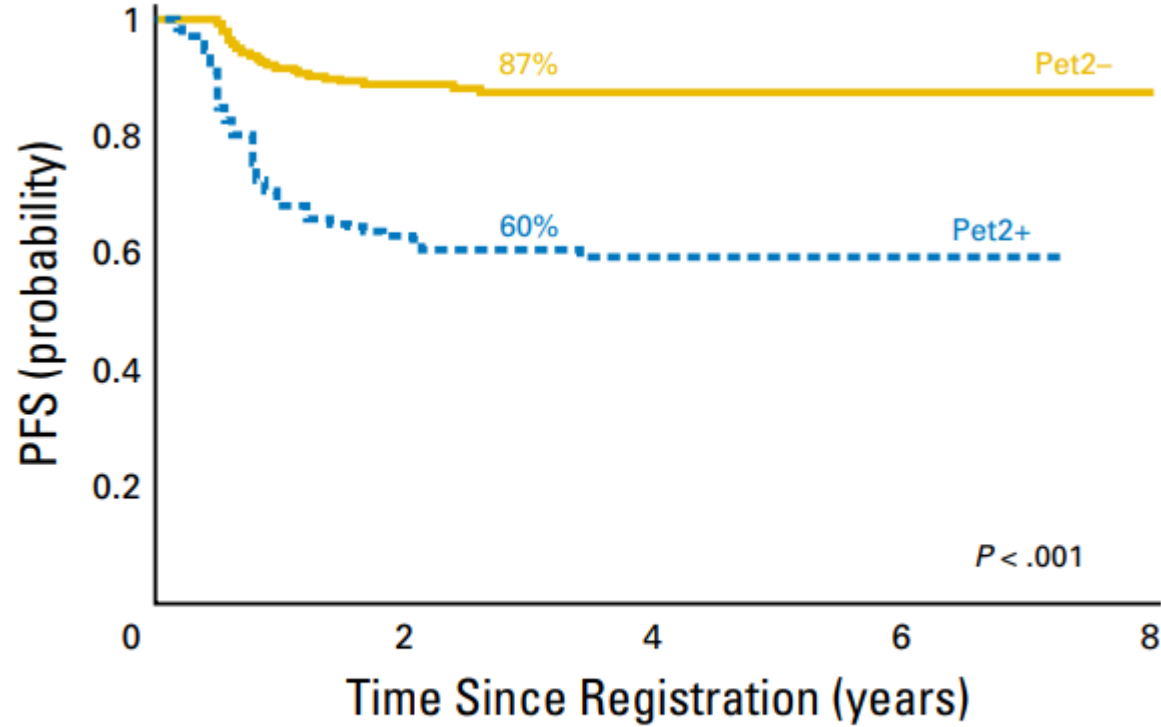


HD 0607 trial

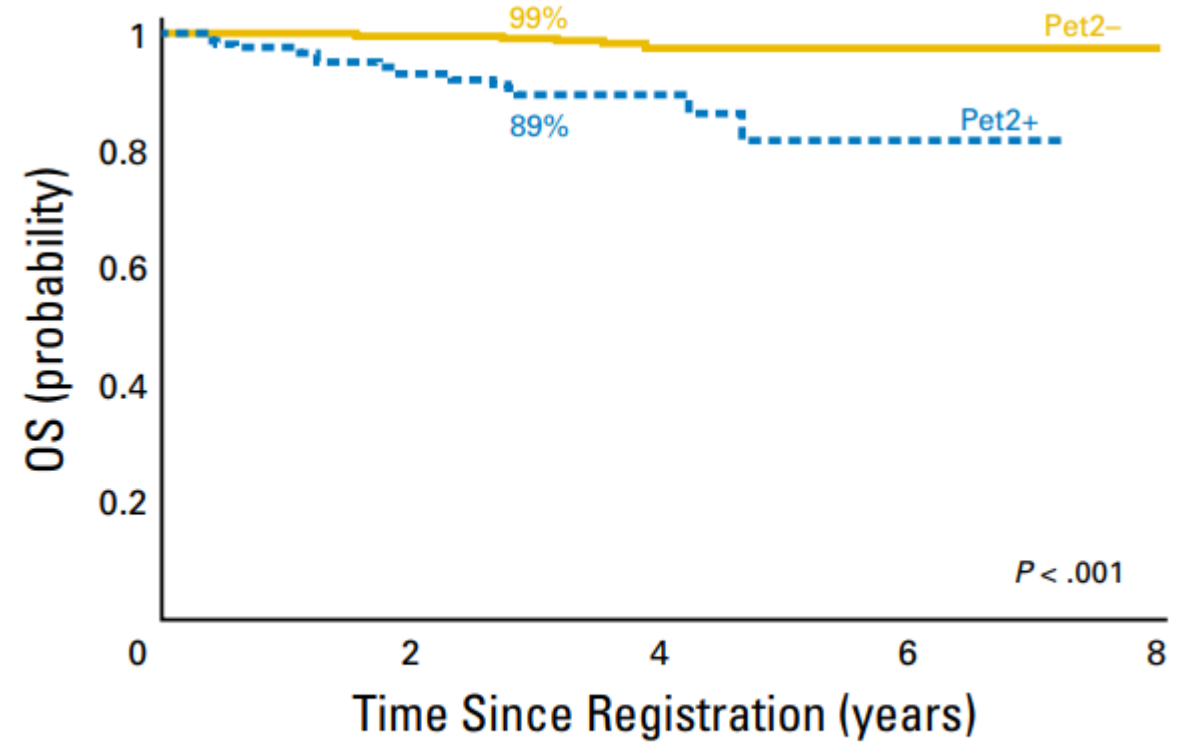




HD 0607 trial



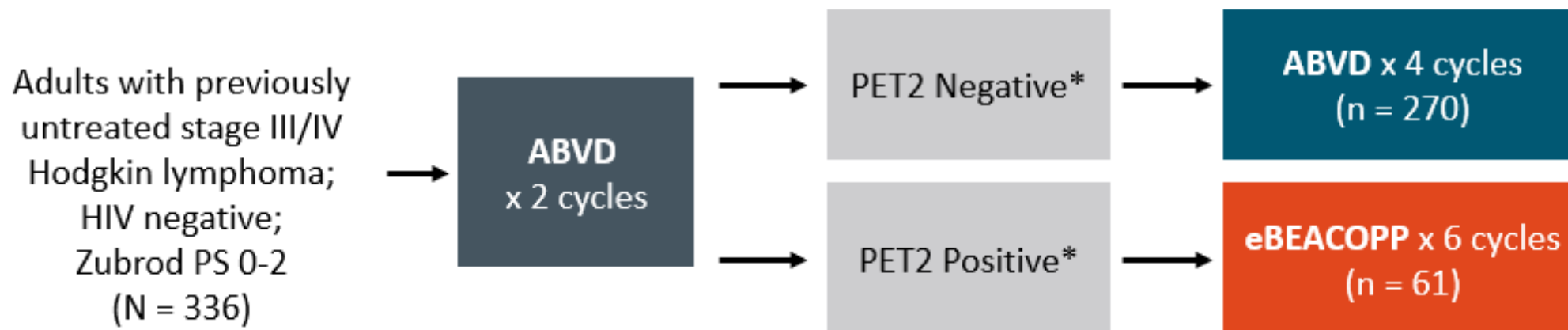
No. at risk	Events		Events		Events		Events		Events	
Pet2-	630	73	528	8	147	0	40	0	0	0
Pet2+	150	53	83	4	26	0	4	0	0	0



No. at risk	Events		Events		Events		Events		Events	
Pet2-	630	3	583	9	169	0	42	0	0	0
Pet2+	150	10	116	4	37	2	4	0	0	0

S0816 trial

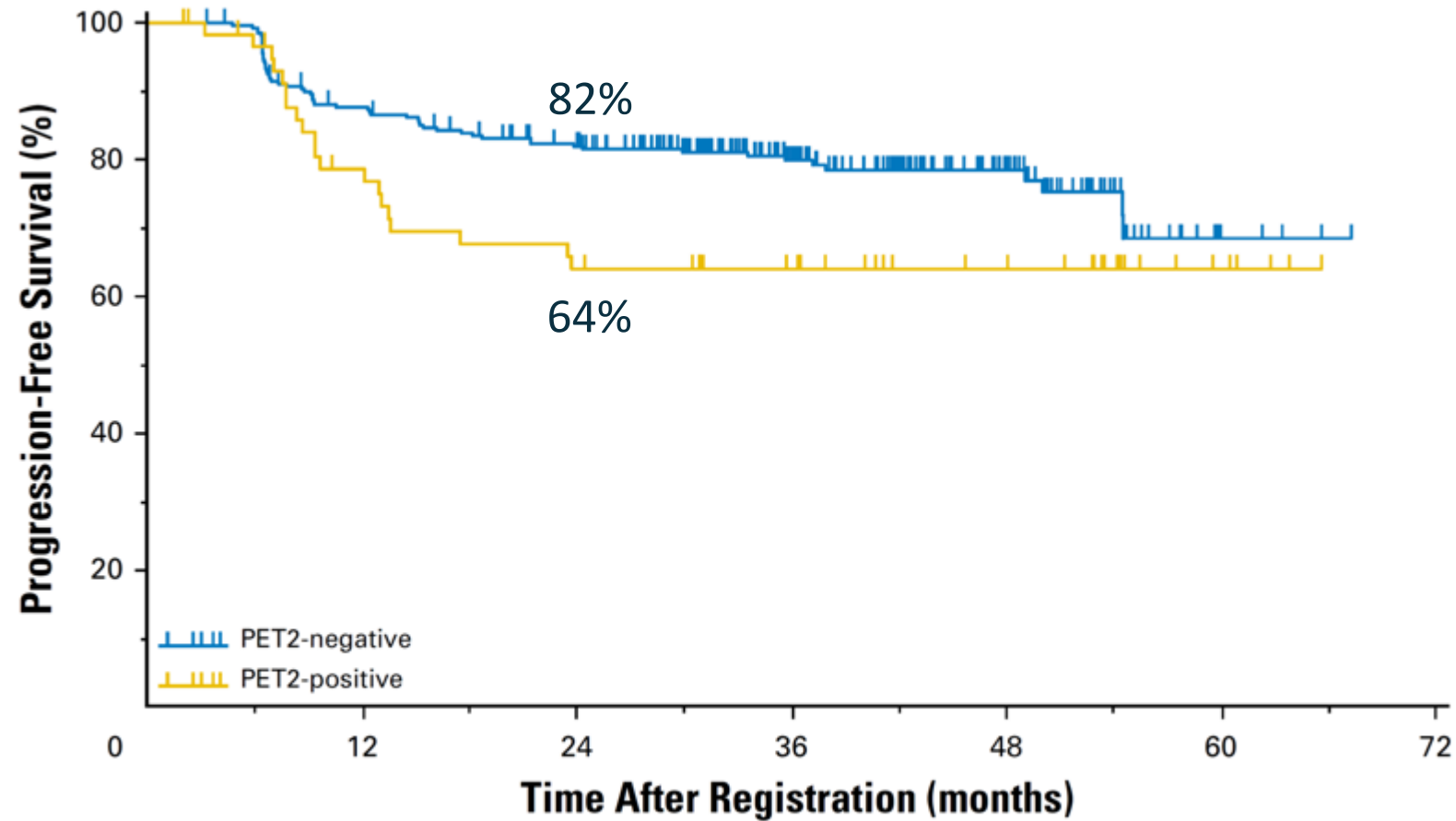
- PET-Guided, multicenter phase II study



*PET Negative if Deauville ≤ 3 , PET Positive if Deauville ≥ 4 .

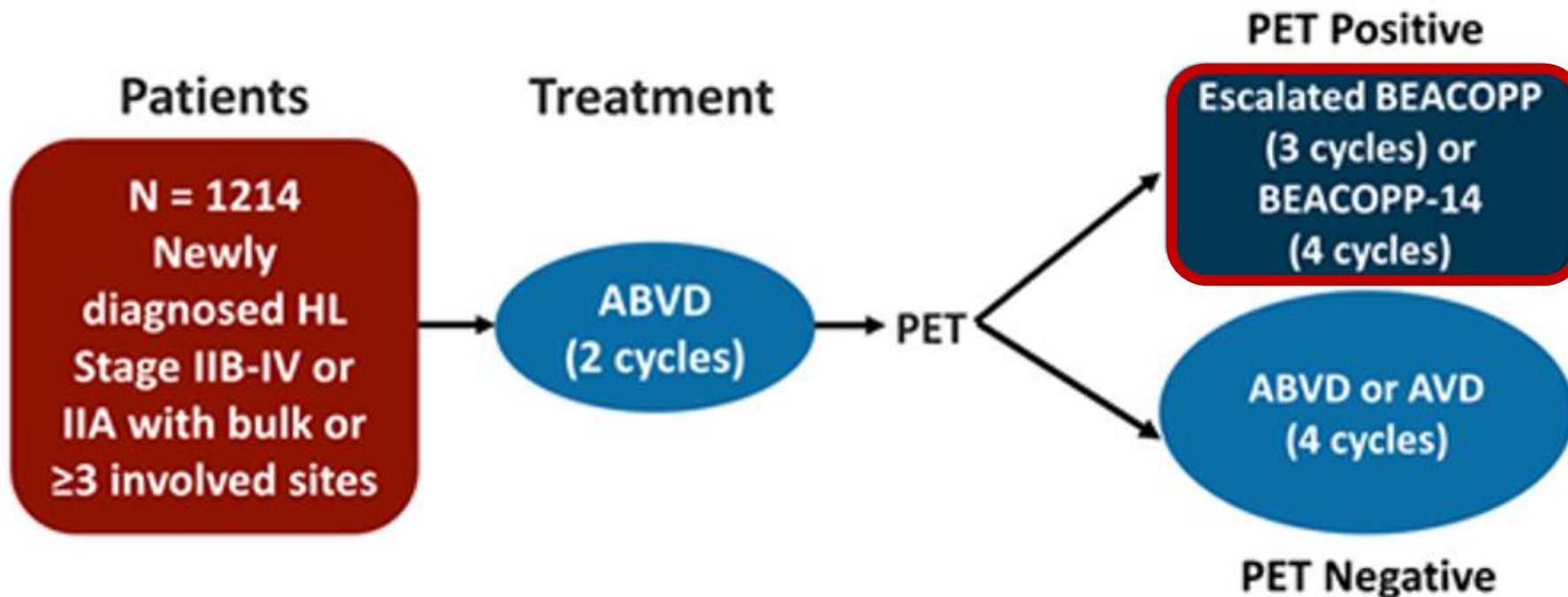
- Primary endpoint:** 2-Yr PFS
- Secondary endpoints:** OS, CR, and PR rates

S0816 trial



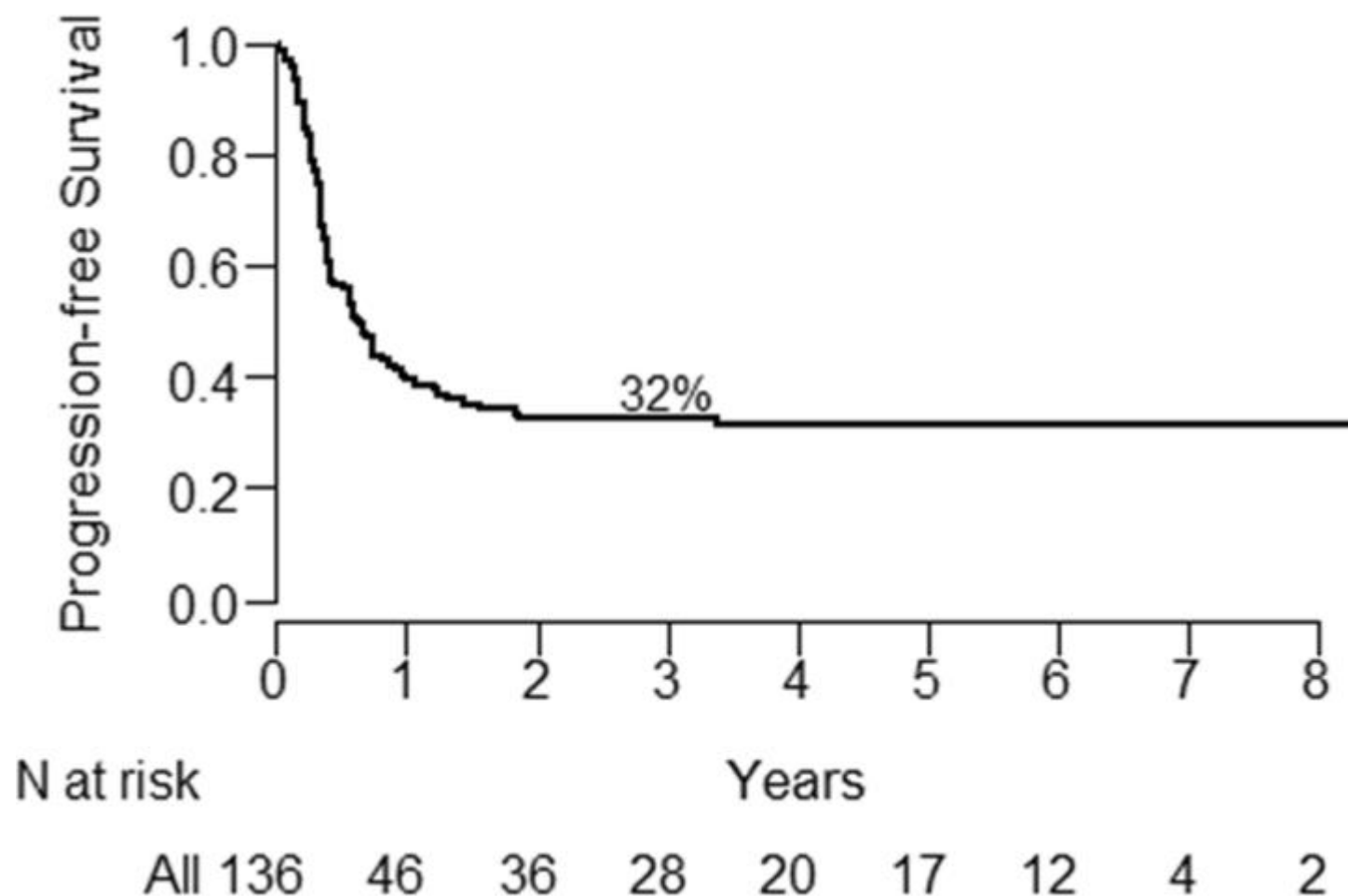
	Patients at Risk	Failed	2-Year Estimate
PET2-negative	271	58	82%
PET2-positive	60	20	64%

RATHL: Response-adapted Treatment in Hodgkin Lymphoma FDG-PET



Outcomes	ABVD or AVD	eBEACOPP or BEACOPP-14
3 y PFS, %	85	68
3-y OS, %	97	86

Deauville score 5 post 2 ABVD (Datos de RATHL, HD0607 y S0816)





Conclusiones

- En los últimos 30 años hemos podido “des-escalar” en todas las etapas de la enfermedad conservando la efectividad. Hoy los tratamientos tienen mucho menos toxicidad temprana y alejada.
- En tempranos favorables la utilización de radioterapia post PETi negativo es debatible y debería ser consensuado con el pte
- En temprano desfavorable quizás se pueda evitar la radioterapia con esquemas acortados (N-AVD x 4, BV-AVD x 4, BrECADD x 2) luego de un PET EOT negativo, pero no hay evidencia sólida. El uso de esquemas de estadios avanzados (Ej RATHL) no requeriría radioterapia.



Conclusiones (cont)

- En estadios avanzados hay evidencia para des-escalar con esquemas a base de ABVD (RATHL) y BrECADD (HD18 y HD21) con iPET 2 negativo.
- El Score Deauville para des-escalar no ha sido definido (D 2 vs D 3)
- La efectividad de escalar con iPET2 positivo es sólo parcial.
- Los ptes con score Deauville 5 en iPET2 deberían ser considerado refractarios primarios y actuar en consecuencia.



ii Muchas Gracias Gell Cuenca25 !!

