



Traitements Médicaux Périopératoires

DES île de France 12 Mai 2023

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Unité d'oncologie thoracique, Service de Pneumologie, Hôpital Cochin, AP-HP

Equipe "cancer, immune control and escape » Inserm U1138

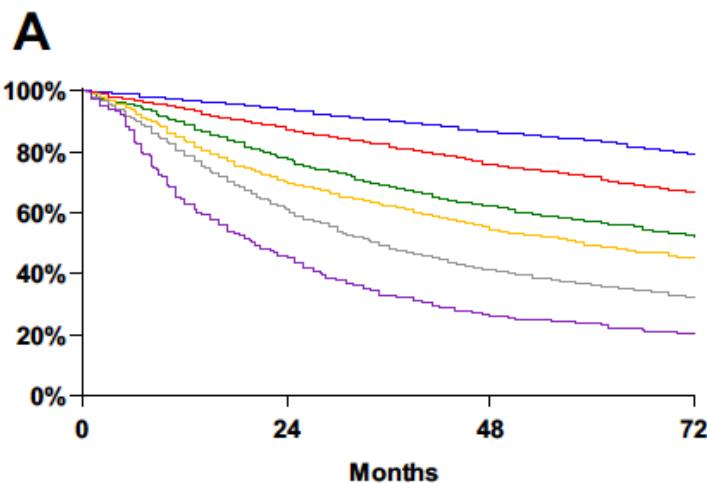
Université de Paris

Liens d'intérêt

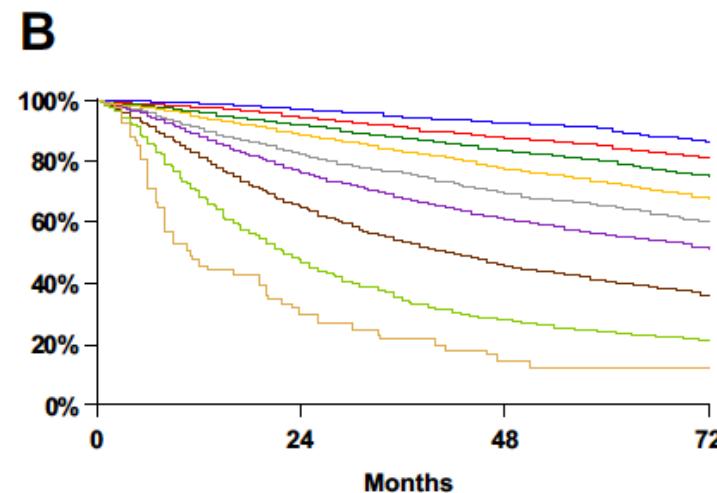
- Activité de conseil ou honoraires au cours des deux dernières années pour les sociétés suivantes : Astra-Zeneca, BMS, MSD, Novartis, Roche, Lilly

Pronostic des stades localisés

7^{ème} édition



8^{ème} édition



Les stades localisés *les études de phase 3*

Adjuvant
Chemotherapy
OS benefit

2004



2014
MAGRIT
adjuvant
vaccine
trial

2016
ECOG 1505
adjuvant
angiogenesis
inhibition

OS Benefit asco 23

Adjuvant
Osimertinib
DFS benefit

2020

**Neo adjuvant Nivolumab CT
CM816 cPR EFS benefit**

**Adjuvant atezolizumab
IMpower 010 DFS benefit**

**Adjuvant pembrolizumab
Keynote 091 DFS benefit**

**Neo adjuvant Pembro CT & pembro
KN 671 cPR EFS benefit**

**Neo adjuvant Durva CT & Durva
Aegan cPR EFS benefit**

**Neo adjuvant Toripa CT & Toripa
NeoTorch cPR EFS benefit**

Chimiothérapie adjuvante

Cisplat 100mg/m²
vindeſine et mitomycine

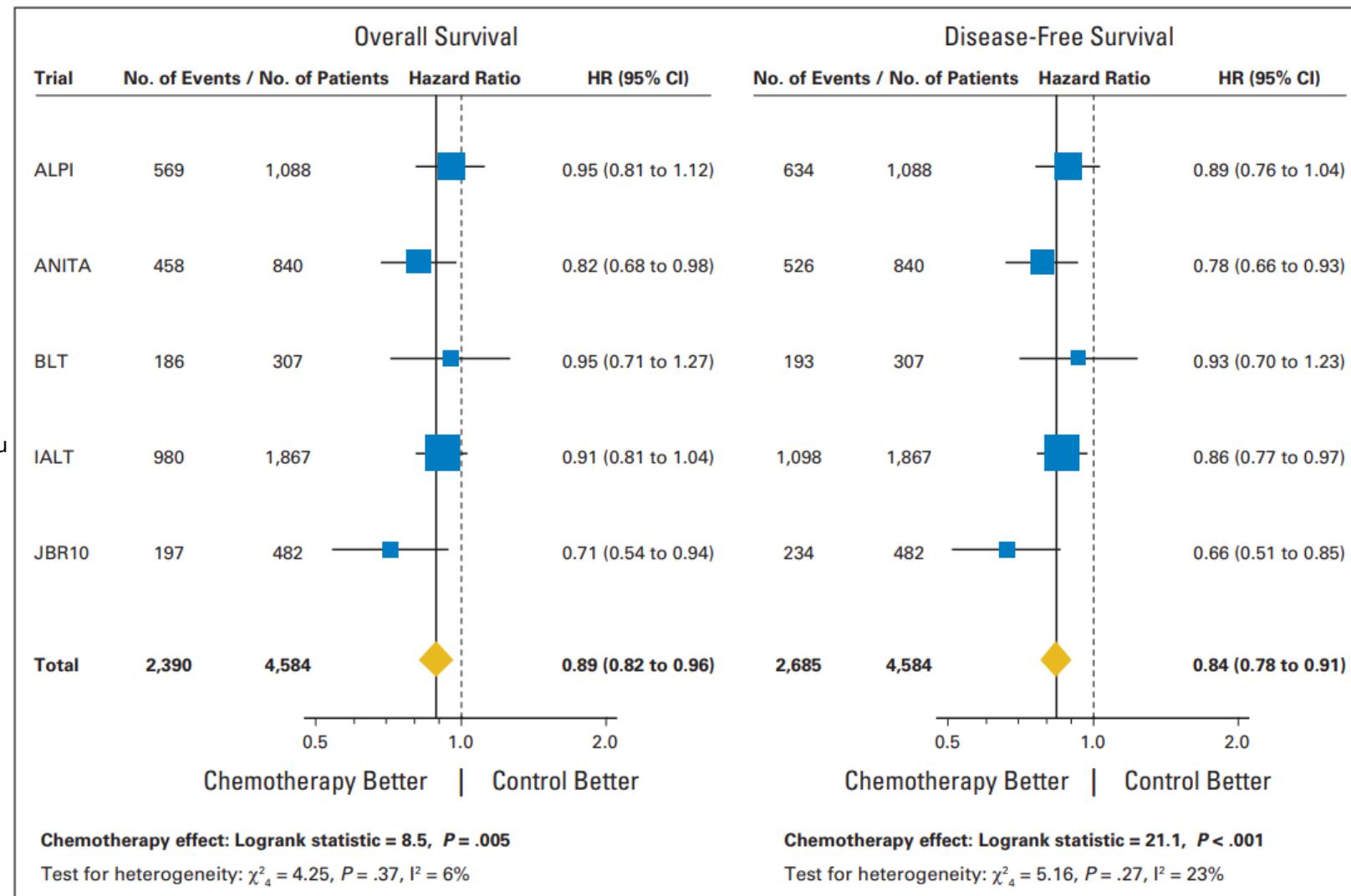
Cisplat 100mg/m²
Vinorelbine 30mg/m²

Cisplat 50-80mg/m² - Vino
30mg/m² ou videsine ou
mitomycine

Cisplat 80-120mg/m² x3-4 -
+Videsine ou Vinblastine ou
Vinorelbine (30mg/m²) ou
Etoposide

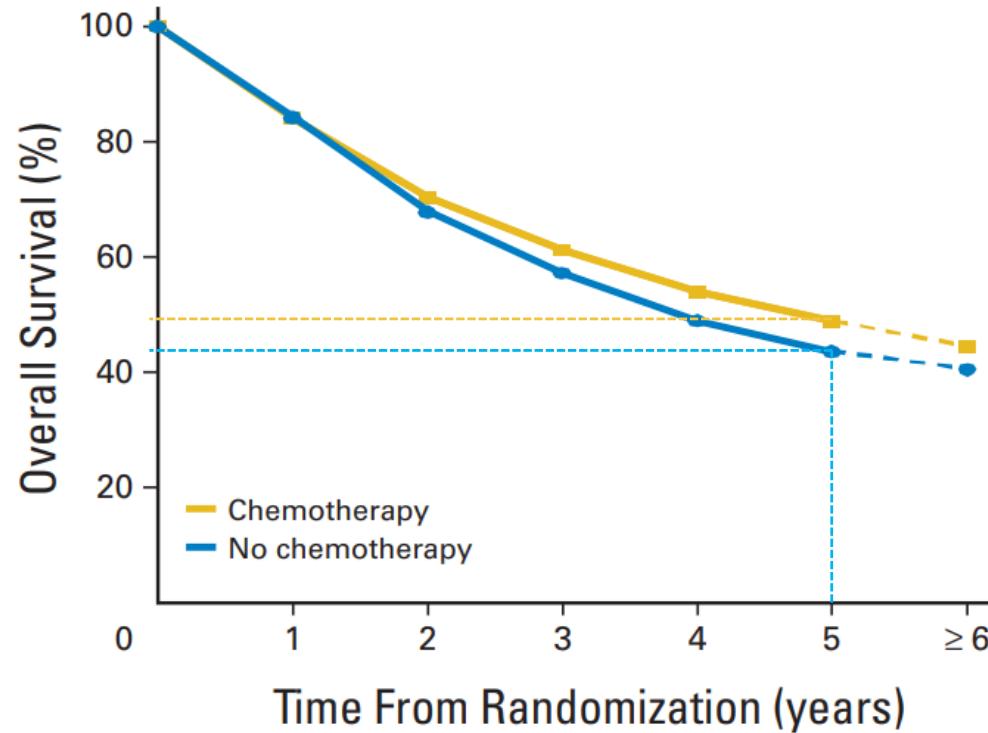
Cisplat 50mg/m² x4 -
Vino 25mg/m² x16

HR 0,89
95% CI 0,82 – 0,96
p=0,005

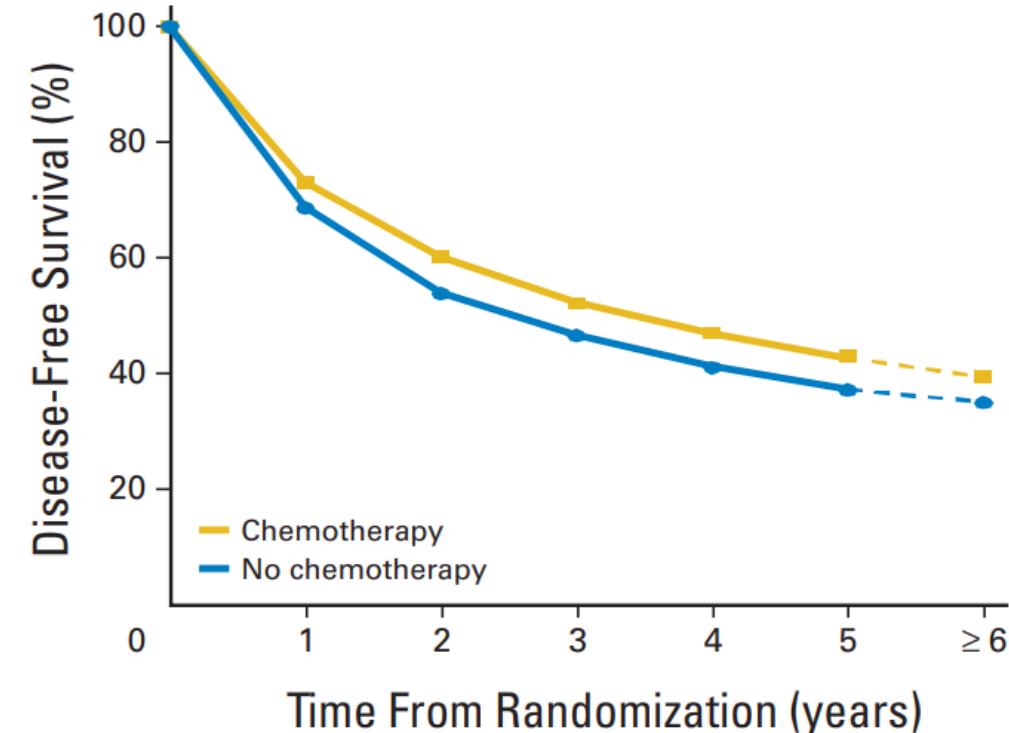


Chimiothérapie adjuvante

A



B



Deaths / person years
by period

Control
Chemotherapy

Years 0-3

966 / 5,155

Years 4-5

239 / 1,668

Years ≥ 6

49 / 720

Events / person years
by period

Control
Chemotherapy

Years 0-3

1,222 / 4,341

Years 4-5

163 / 1,396

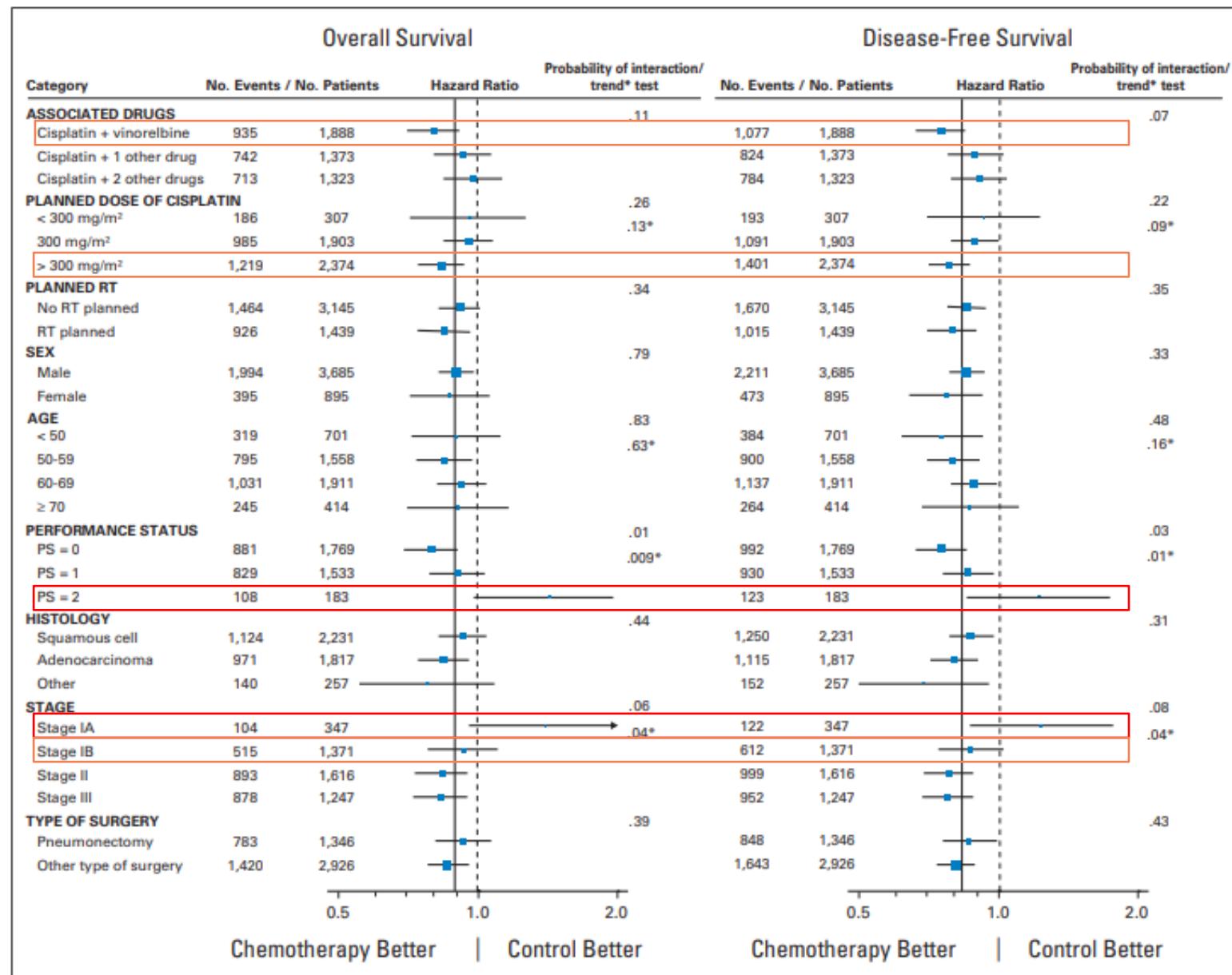
Years ≥ 6

35 / 610

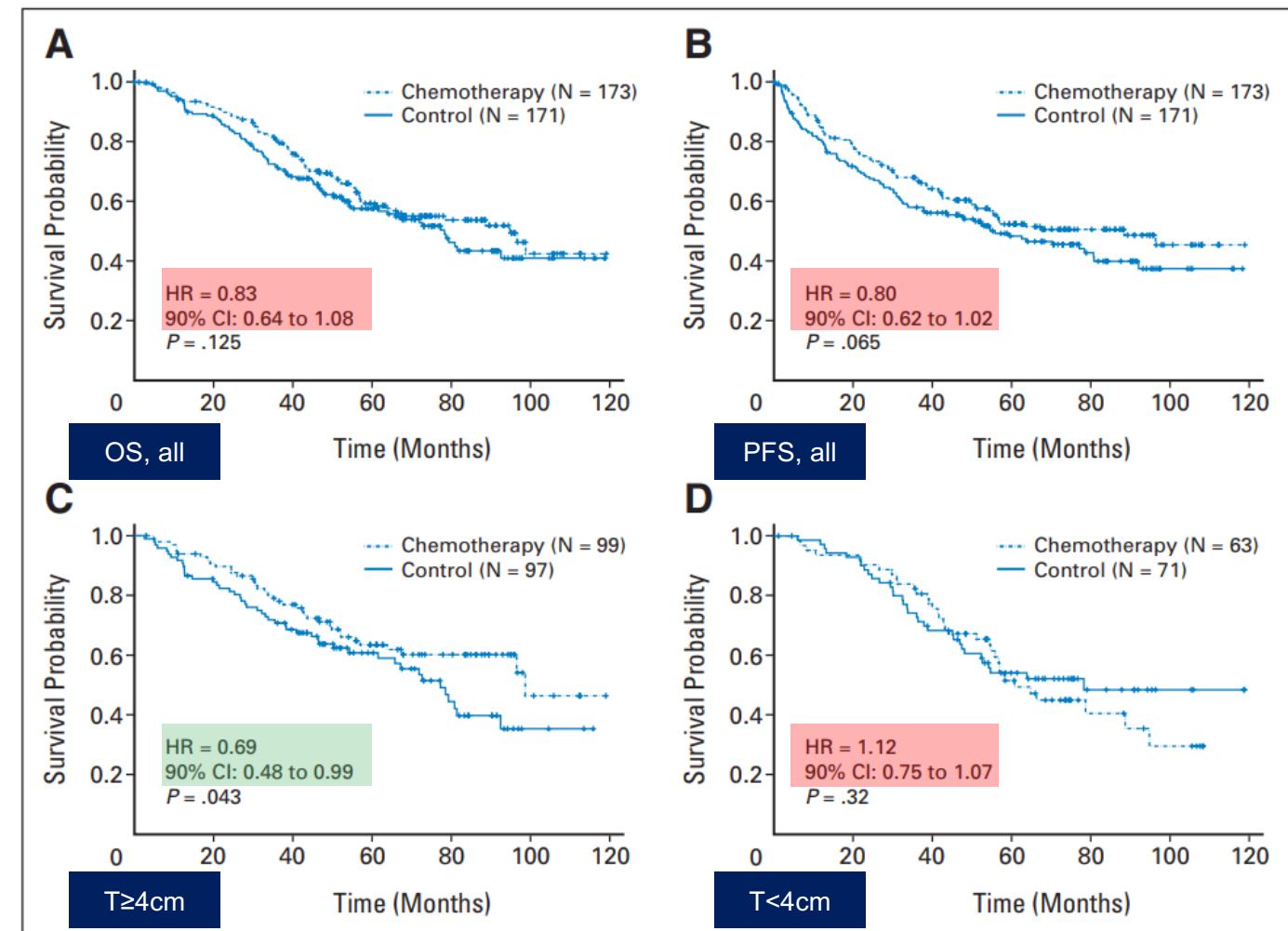
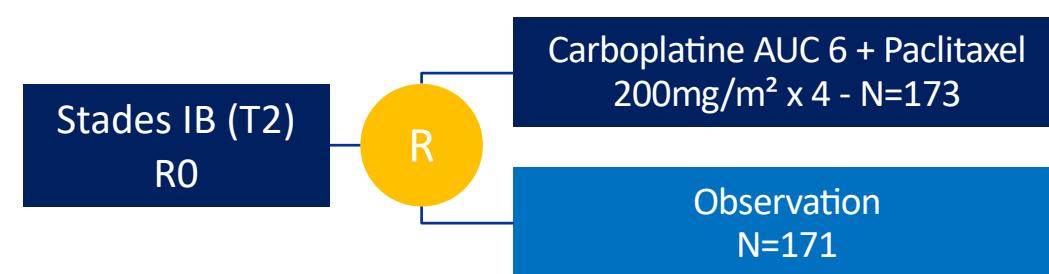
+5% à 5 ans

Pignon JP et al, J Clin Oncol 2008

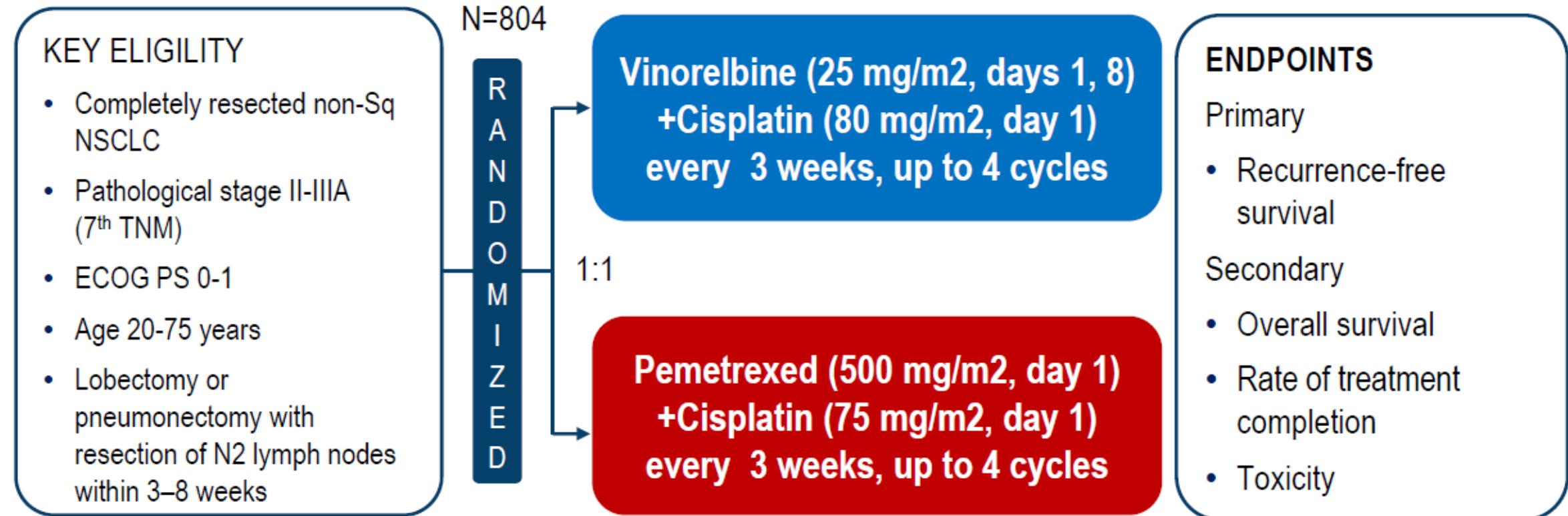
Chimiothérapie adjuvante



Chimiothérapie adjuvante



Chimiothérapie adjuvante

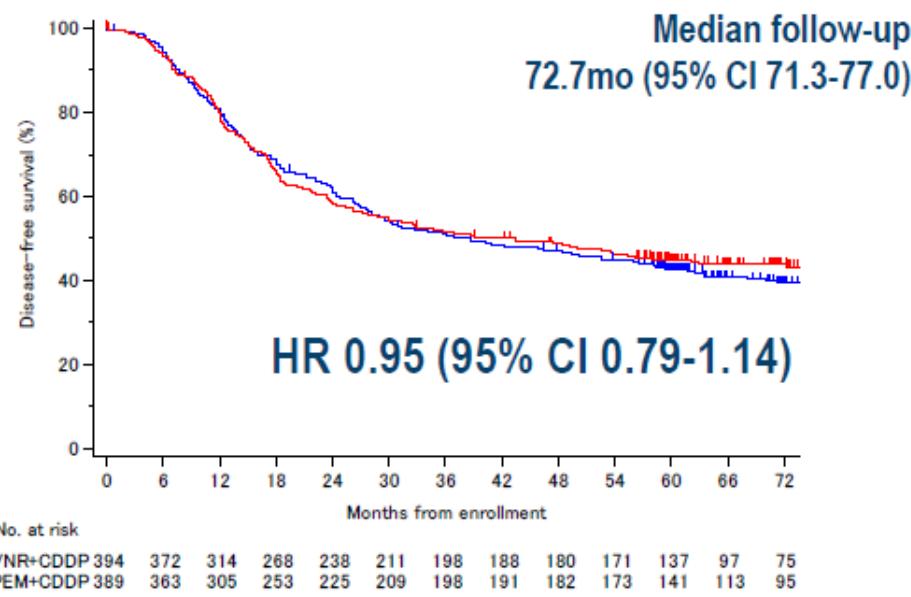


Chimiothérapie adjuvante

RFS and OS: 5-year follow-up

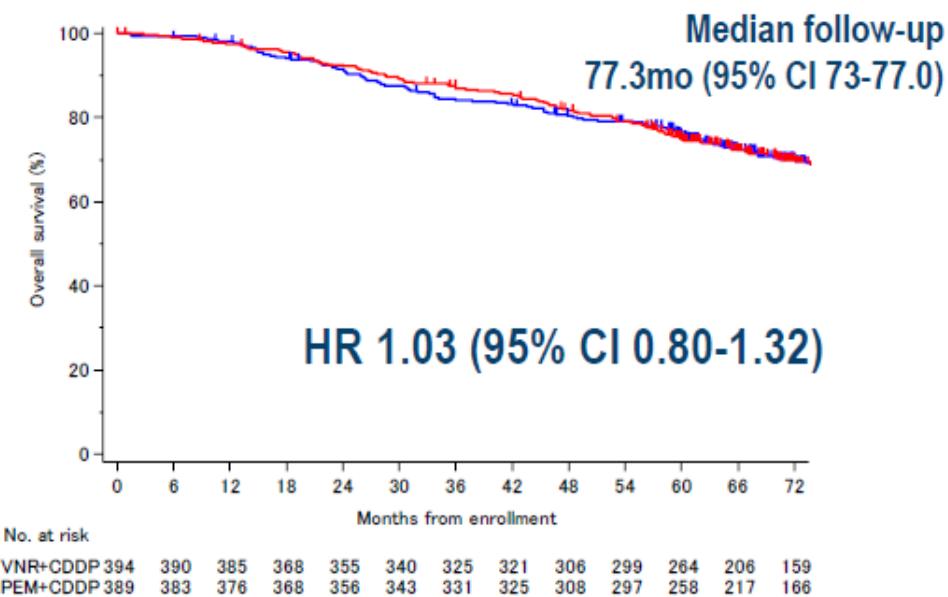
RFS assessed by investigators

	VNR+CDDP (n=394)	PEM+CDDP (n=389)
Number of events	236	220
Median RFS (95%CI)	37.5 mo (28.9-52.6)	43.4 mo (29.0-59.7)
3-year RFS (95%CI)	51.0% (49.5-74.9%)	51.6% (46.5-56.4%)
5-year RFS (95%CI)	42.6% (37.7-47.5 %)	44.9% (39.8-49.8%)

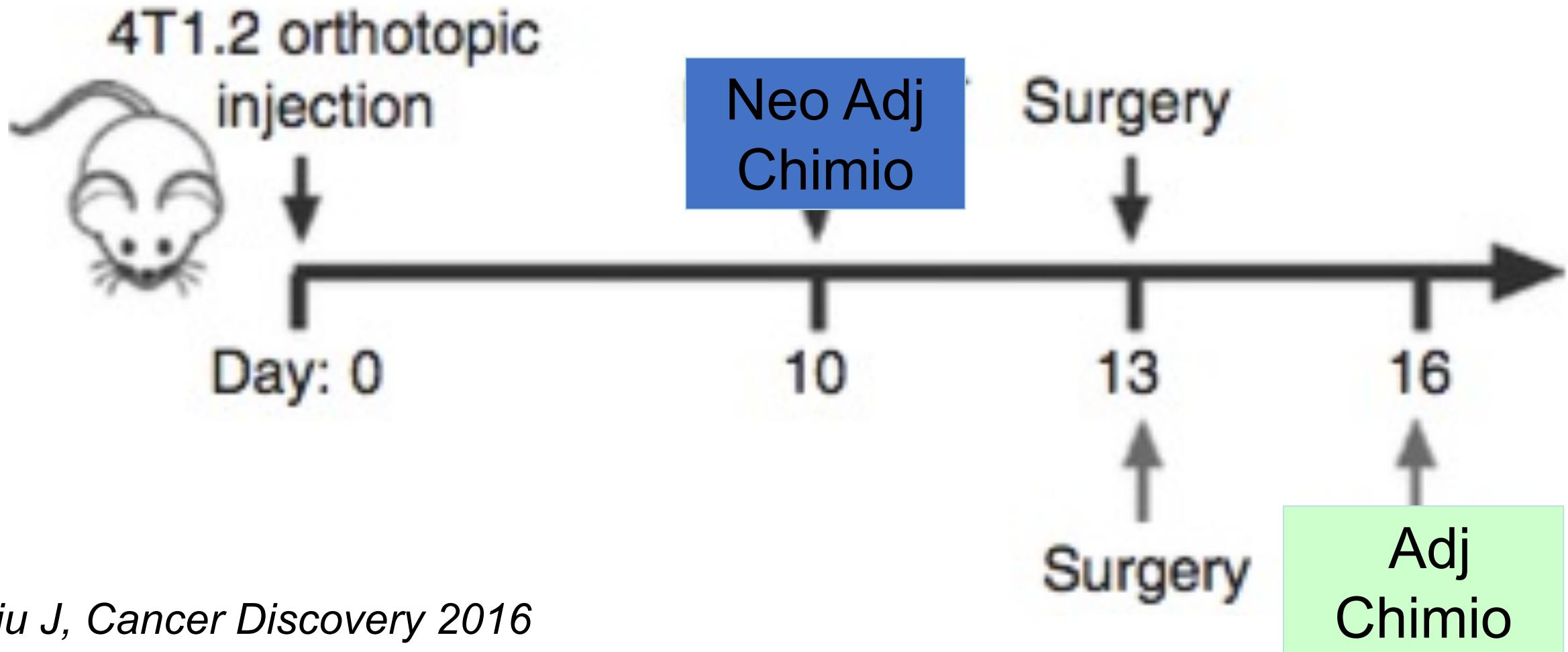


Overall survival

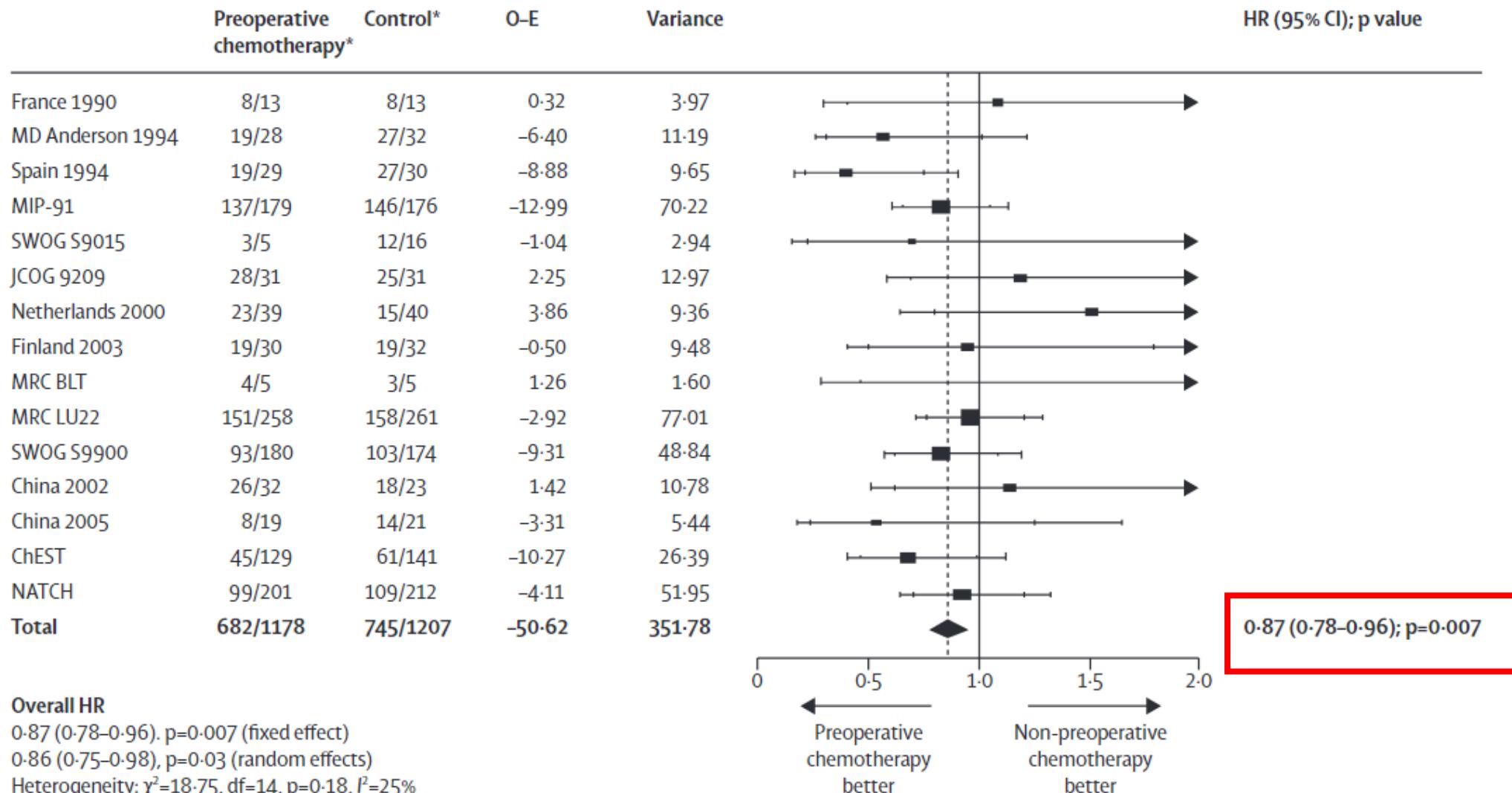
	VNR+CDDP (n=394)	PEM+CDDP (n=389)
Number of events	119	123
Median OS (95%CI)	Not reached (NR-NR)	Not reached (NR-NR)
3-year OS (95%CI)	84.1% (80.0-87.3%)	87.0% (83.2-90.0%)
5-year OS (95%CI)	75.6% (71.0-79.6%)	75.0% (70.3-79.0%)



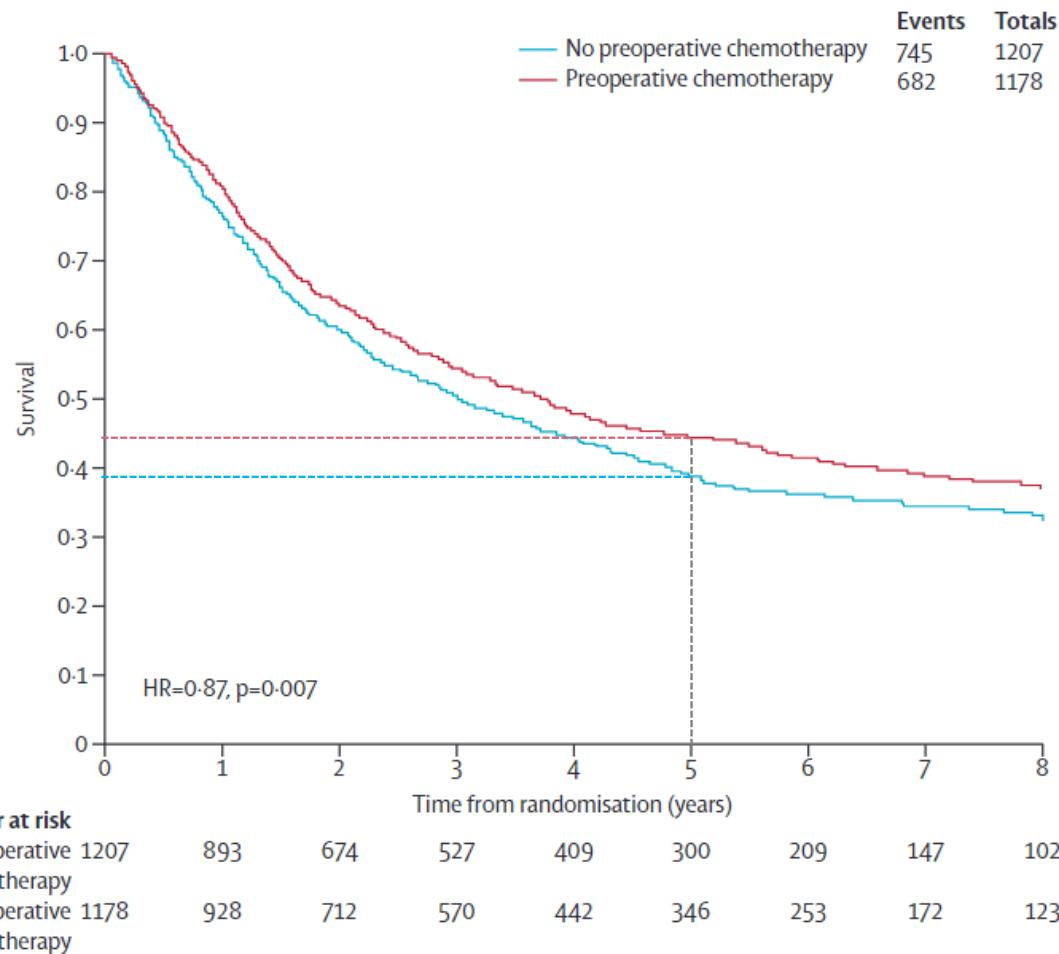
Modèles murins : chimiothérapie



Chimiothérapie néo-adjuvante



Chimiothérapie néo-adjuvante



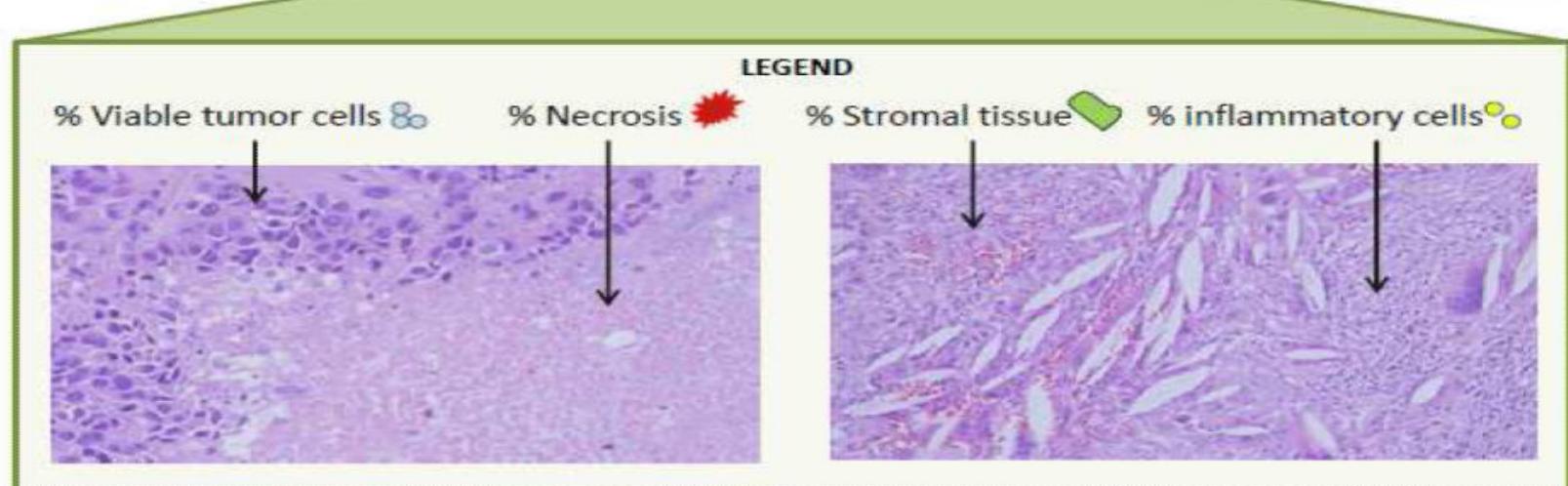
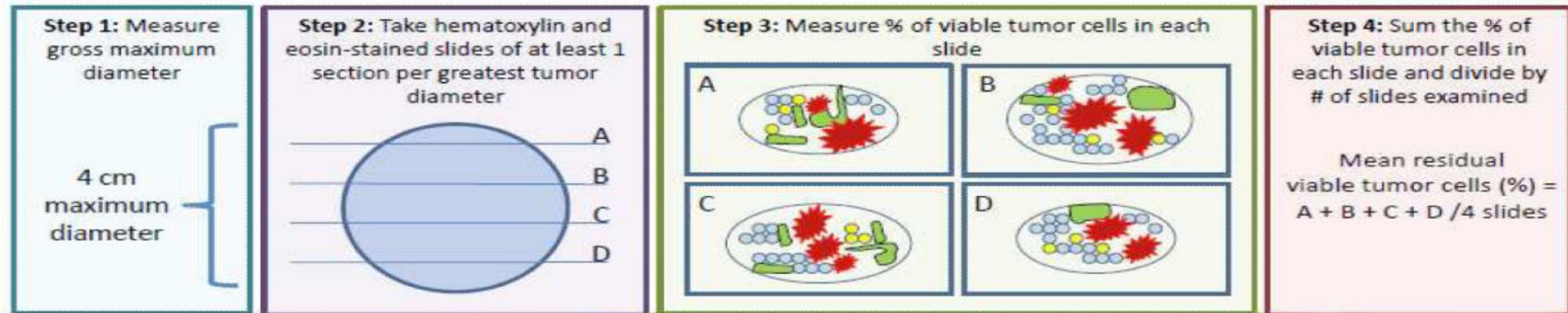
+5% à 5 ans

	Number of trials	Number of deaths/patients	Hazard ratio (95%CI), p value
Survival by planned chemotherapy schedule (n=15 trials)			
Preoperative chemotherapy only	10	1045/1883	0.90 (0.80-1.02), 0.09
Preoperative and postoperative chemotherapy (to responders)	5	382/502	0.78 (0.64-0.95), 0.02
Survival by number of preoperative chemotherapy cycles (n=14 trials)			
2 cycles	6	418/576	0.89 (0.74-1.08), 0.25
3 cycles	8	1002/1799	0.85 (0.75-0.96), 0.01
Survival by chemotherapy regimen (n=14 trials)			
Platinum plus second generation chemotherapy	7	543/694	0.86 (0.72-1.02), 0.08
Platinum plus third generation chemotherapy	6	801/1540	0.85 (0.74-0.97), 0.02
Non-platinum chemotherapy	1	38/62	0.95 (0.50-1.79), 0.87
Survival by the number of chemotherapy agents (n=15 trials)			
Non platinum single agent regimen	1	38/62	0.95 (0.50-1.79), 0.87
Doublet regimen	9	907/1702	0.88 (0.78-1.01), 0.06
Triplet regimen	5	475/611	Fixed effect 0.83 (0.69-1.00), 0.05; random effects 0.79 (0.53-1.18), 0.25
Survival by chemotherapy regimen and number of chemotherapy agents (n=14 trials)			
Non-platinum single agent regimen	1	38/62	0.95 (0.50-1.79), 0.87
Platinum second generation, doublet	2	68/83	1.08 (0.66-1.76), 0.76
Platinum second generation, triplet	5	475/611	Fixed effect 0.83 (0.69-1.00), 0.05; random effects 0.79 (0.53-1.18), 0.25
Platinum third generation, doublet	6	801/1540	0.85 (0.74-0.97), 0.02
Survival by cisplatin or carboplatin regimen (n=12 trials)			
Cisplatin-based	7	830/1289	0.83 (0.72-0.95), 0.01
Carboplatin-based	5	492/905	0.90 (0.75-1.07), 0.23

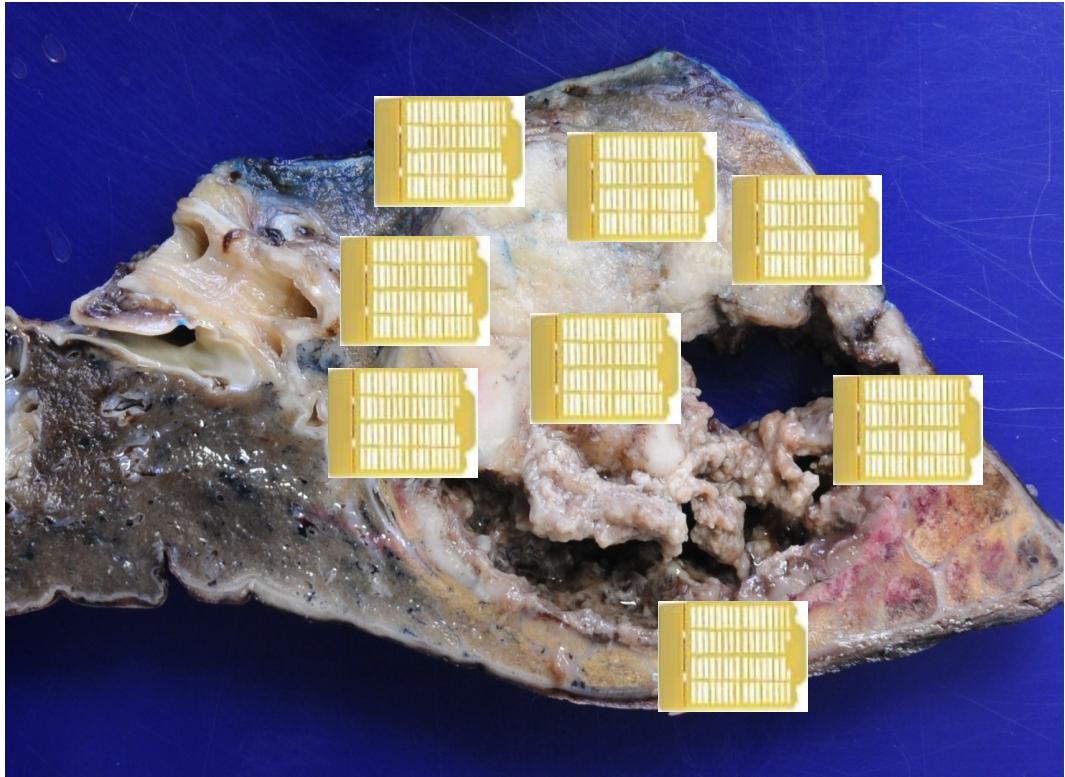
Chimiothérapie néo- ou adjuvante ?

- Contre :
 - mauvais staging initial
 - possibilité de progression
 - métanalyses
- Pour :
 - faisabilité; toxicité acceptable
 - amélioration de la resecabilité ?
 - introduction plus précoce d'un tt systémique pour traiter les micro-métastases
 - meilleure compliance que la CT adjuvante
 - évaluation de la réponse : réponse histologique

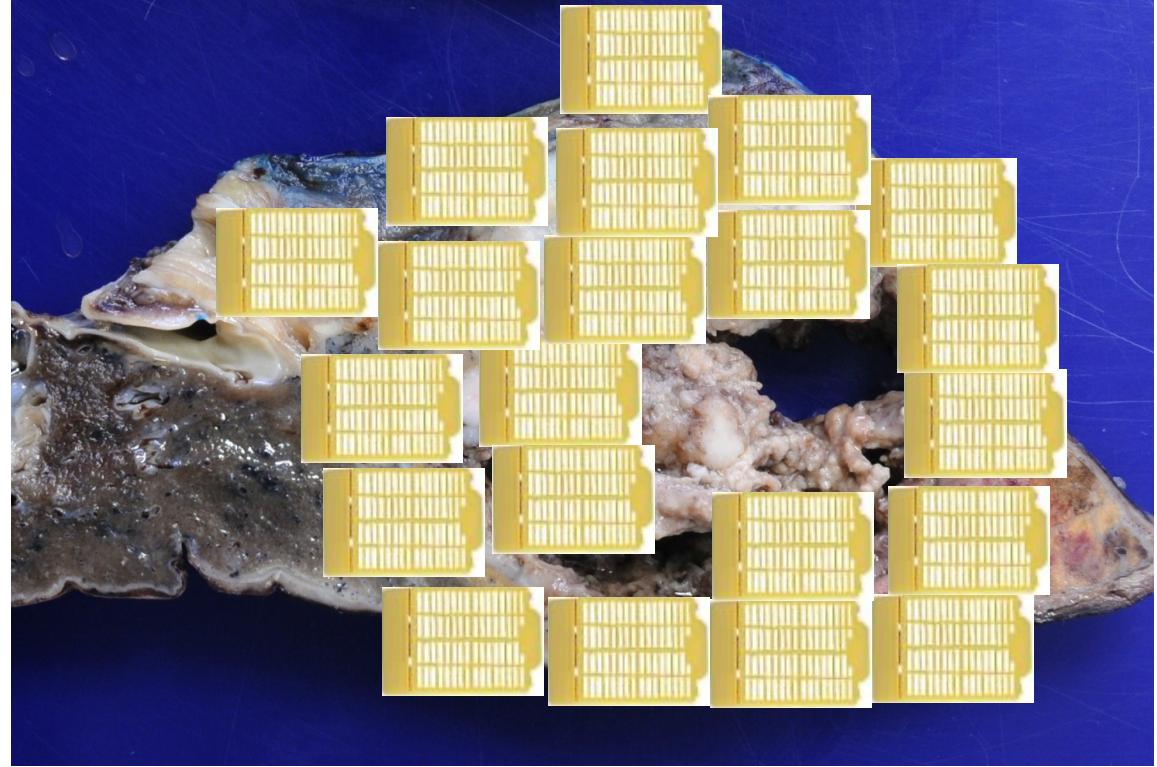
Qu'est ce que la réponse histologique ?



Qu'est ce que la réponse histologique ?



Tumor + edge = 8 cm.
<8 paraffin blocks

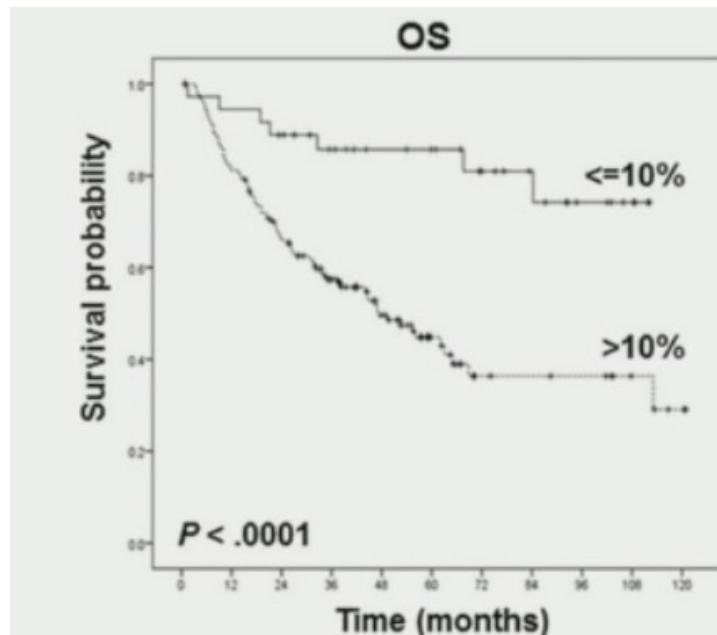


All tumor + edge N
=very high

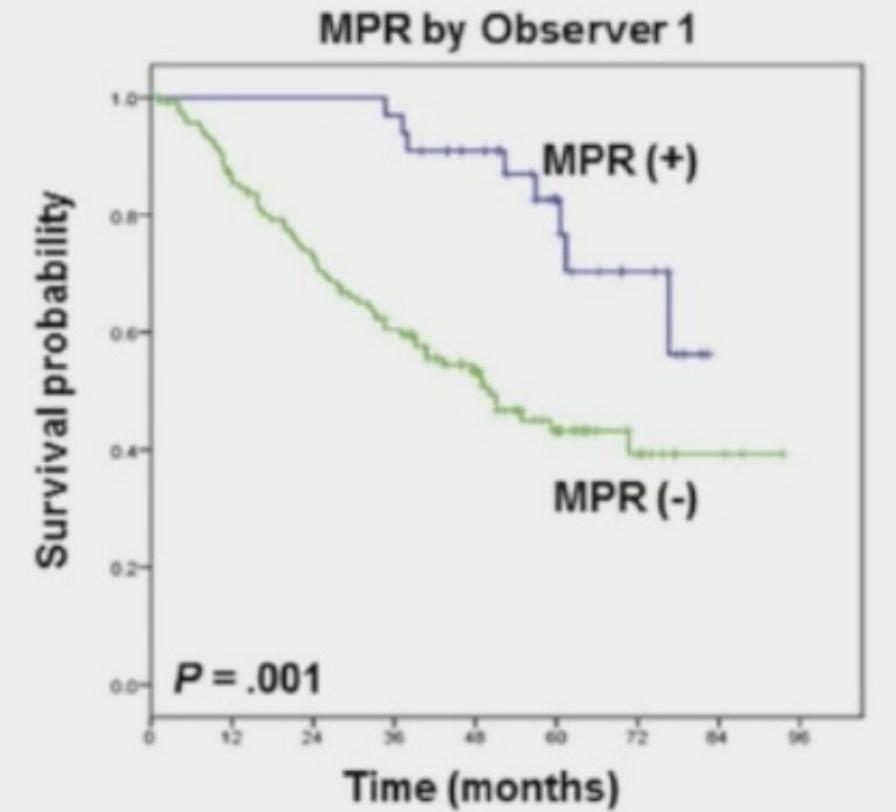
Chimiothérapie néoadjuvante : réponse histologique majeure et survie globale ?

MPR is shown to predict OS in neoadjuvant chemotherapy and chemo/VEGF lung cancer trials (Pataer, JTO 2012, Weissferdt et al Clin Lung Cancer 2020, Chafft JTO 2014)

It is not yet known if the same stands true for IO



Pataer, JTO 2012



Weissferdt et al Clin Lung Cancer 2020

Association linéaire entre réponse histologique majeure et survie globale

réponse histologique et risque de décès

Percentage of residual viable tumor following neo-adjuvant chemotherapy	Hazard Ratio for death
1-10%	1.00
11-30%	2.51 (95% CI 0.91-6.96)
31-50%	3.39 (95% CI 1.40-8.22)
51-70%	4.57 (95% CI 1.98-10.52)
71-100%	4.78 (95% CI 2.06-11.11)

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OS benefit

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2014

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vaccine
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2016

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adjuvant
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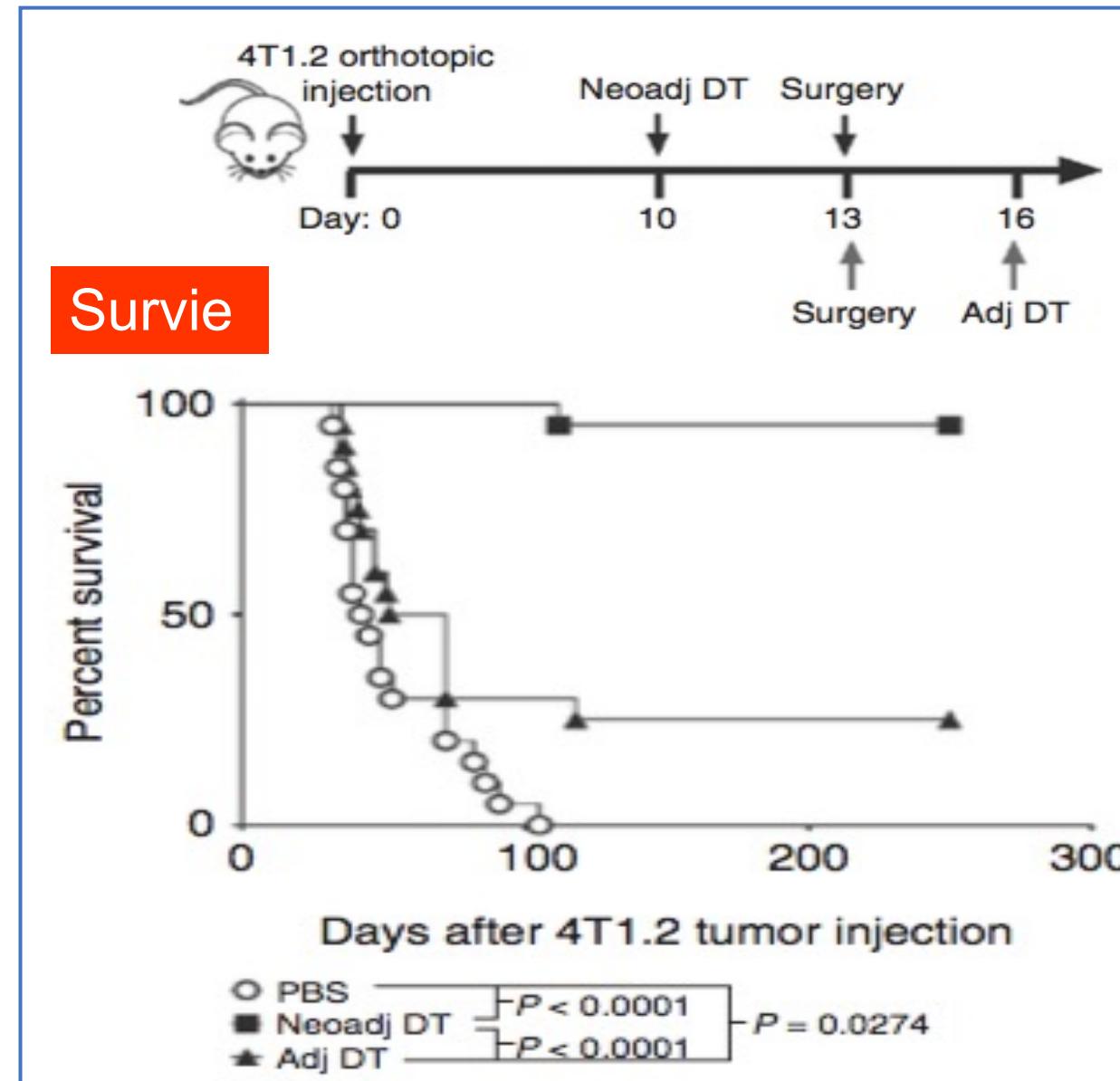
Neo adjuvant Pembro CT & pembro
KN 671 cPR EFS benefit

Neo adjuvant Durva CT & Durva
Aegan cPR EFS benefit

Neo adjuvant Toripa CT & Toripa
NeoTorch cPR EFS benefit

Immunothérapie néo- ou adjuvante rationnel préclinique

- Présence d'une forte charge antigénique et relargage de néo antigènes par les cellules tumorales : meilleure stimulation du système immunitaire
- Système immunitaire de l' hôte indemne



Liu J, Cancer Discovery 2016

Bakos, Journal of Immunotherapy of Cancer 2018

Phase 2 : Immunothérapie néoadjuvante

Ph 2 studies	Stage	Delay to surgery	First objective	Operated (%) R0 (n)	MPR /pCR	90-Day mortality	PD-L1 w/ MPR
Forde P (n=22)	IB-IIIA	4 wks after 1 st dose	MPR	21 (95%) 20 R0	45% 15%	NR	no
LCMC3 (n=180) n=101 interim	IB-IIIB	4 wks after 1 st dose	% pts with delayed surgery	159 (88%) 145 R0	19% 5%	NR	no
Neostar (n=44) arm A (n=23)	IA-IIIA	3 wks	MPR	22 (96%) 22 R0	19% 10%	0	yes
IFCT Ionesco (n=50)	IB-IIIA	2 to 14 days	R0	43 (86%) 41 R0	19% 7%	4 (9%)	no
Princeps (n=30)	I – IIIA (>2 cm)	4 wks	Safety (2 mo post atezo)	30 (100%) 29 R0	14% 0%	0 (30-day)	yes
Sintilimab (n=40)	IA-IIIB	2 to 14 days	Safety	37 (92.5%) 36 R0	40% 16%	NR	yes (stromal cells)
Reuss JITC (n=9)	IA-III	2 to 4 wks 6 wks	Safety	6 (67%) NR R0	33% 33%	1 ARDS	yes
Neostar (n=44) arm B (n=21)	IA-IIIA	3 wks 6 wks	MPR	17 (81%) 17 R0	44% 38%	0	yes

Phase 2 : Immunothérapie néoadjuvante

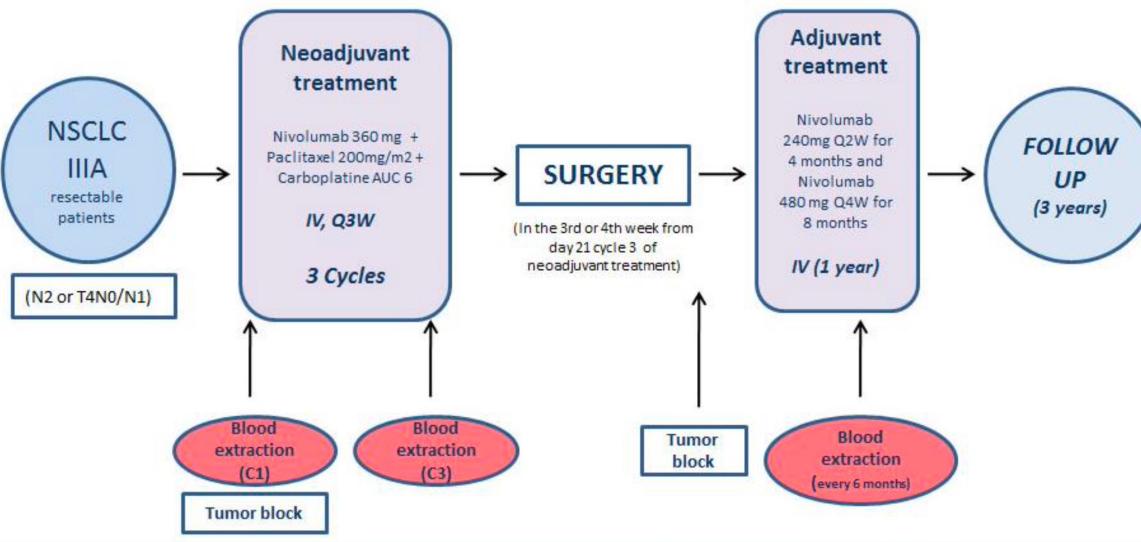
Ph 2 studies	Stage	Delay to surgery	First objective	Operated (%)	MPR /pCR	90-Day ...	PD-L1 w/ ...
Forde P (n=22)	IB-IIIA	4 wks after 1 st dose	MPR				
LCMC3 (n=180) n=101 interim	IB-IIIB	4 wks after 1 st dose	% pts with delayed surgery				
Neostar (n=44) arm A (n=23)	IA-IIIA	3 wks	MPR				
IFCT Ionesco (n=50)	IB-IIIA	2 to 14 days	R0				
Princeps (n=30)	I – IIIA (>2 cm)	4 wks	Safety (2 mo post atezo)				
Sintilimab (n=40)	IA-IIIB	2 to 14 days	Safety				
Reuss JITC (n=9)	IA-III	2 to 4 wks 6 wks	Safety				
Neostar (n=44) arm B (n=21)	IA-IIIA	3 wks 6 wks	MPR	17 (81%) 17 R0	44% 38%	0	yes

Multi / monocentrique
 Petits effectifs
Objectifs principaux
 réponse histologique vs patients opérés
 Mortalité à 90 jours
 Type histologique C épidermoïde
 Comorbidités
 Tabac
 Tumeurs proximales
 Pneumonectomie
Nombre de cycles
 Délais entre le dernier cycle et la chirurgie

Ph 2 studies	Stage	Delay to surgery	First objective	Operated (%) R0 (n)	MPR pCR	90-Day mortality	PD-L1 w/ MPR
Réponse histologique				21 (95%)	45%	NR	no
Faisabilité de la chirurgie				20 R0	15%		
Réponse histologique associée à la survie				159 (88%)	19%	NR	no
				145 R0	5%		
				22 (96%)	19%	0	yes
				22 R0	10%		
IFCT Ionesco (n=50)	IB-IIIA	2 to 14 days	R0	43 (86%)	19%	4 (9%)	no
				41 R0	7%		
Princeps	I – IIIA	4 wks	Safety (2 mo post)	30 (100%)	14%	0 (30-day)	yes
				29 R0	0%		
L'immunothérapie néoadjuvante impacte-t-elle la chirurgie?				37 (92.5%)	40%	NR	yes (stromal cells)
				36 R0	16%		
◆ Complexité de la chirurgie ?				6 (67%)	33%	1 ARDS	yes
◆ Flare-up médiastinal				NR R0	33%		
◆ Effets indésirables immuns				17 (81%)	44%	0	yes
arm II B (n=24)		6 wks		17 R0	38%		

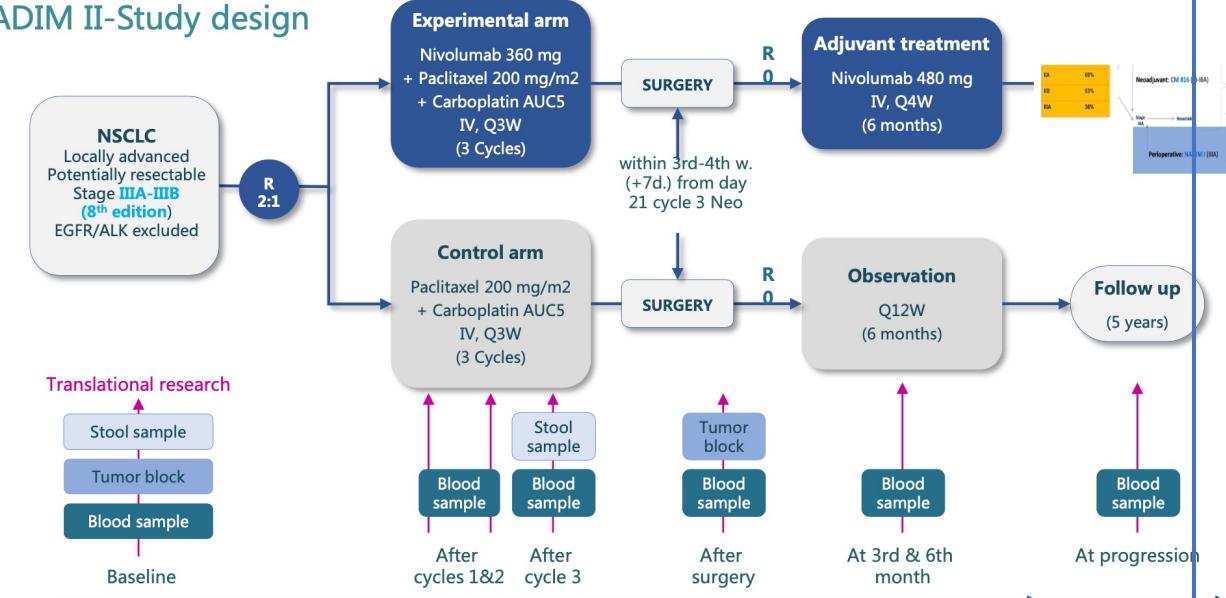
Phase 2 : Chimio Immuno néoadjuvante NADIM trial puis NADIM 2 trial

NADIM: Study design & Flow-chart



46 patients

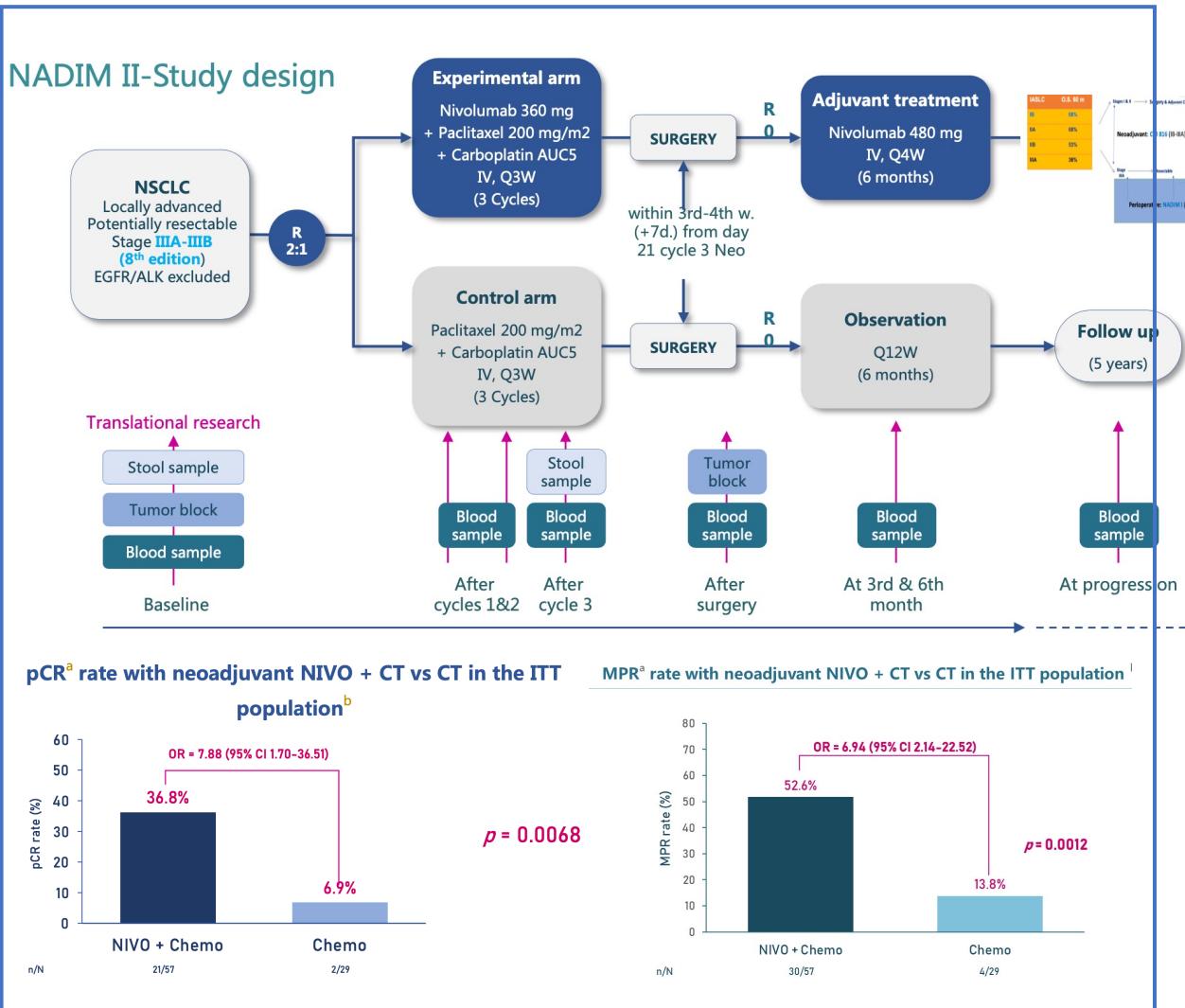
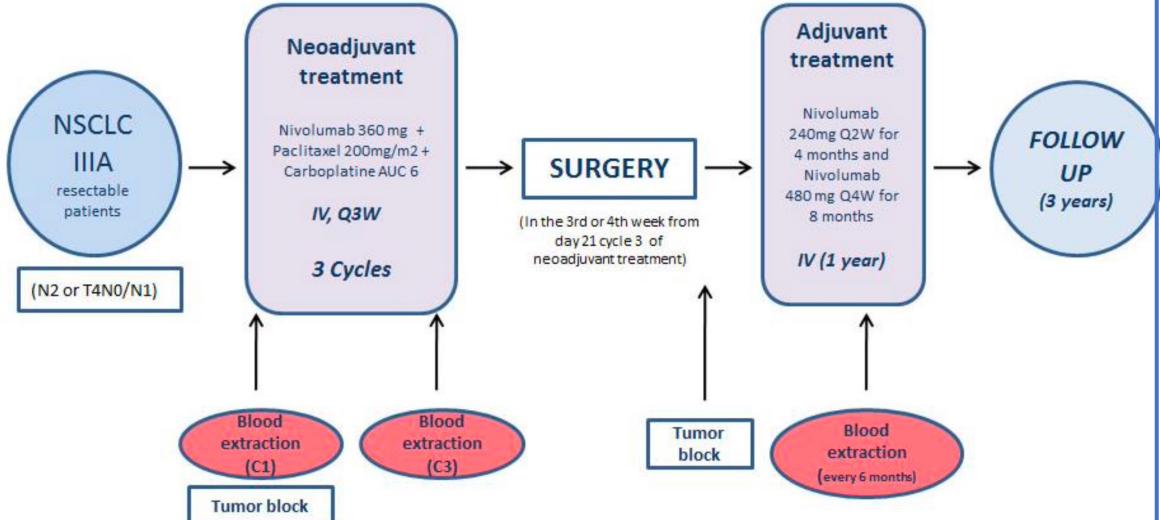
NADIM II-Study design



86 patients

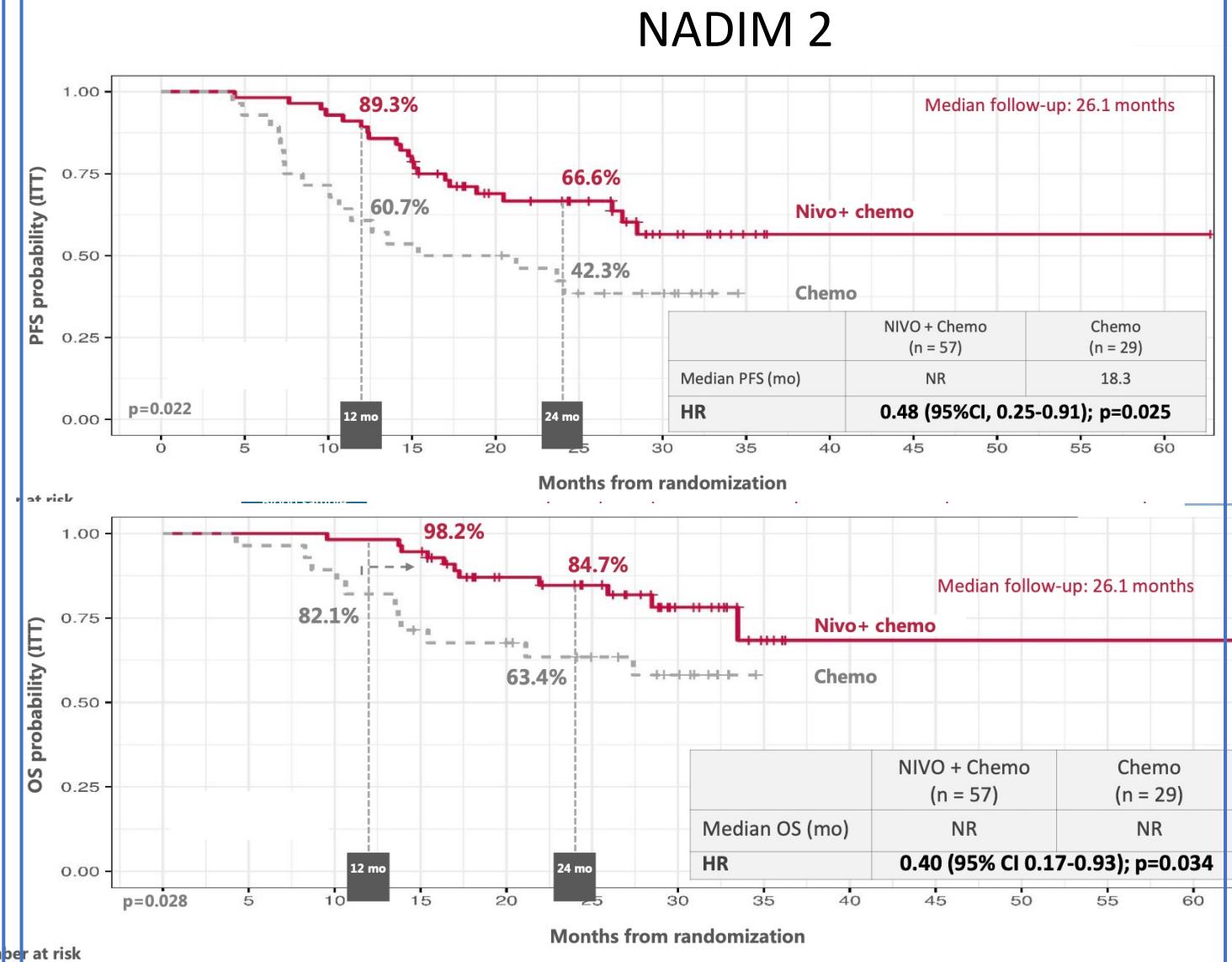
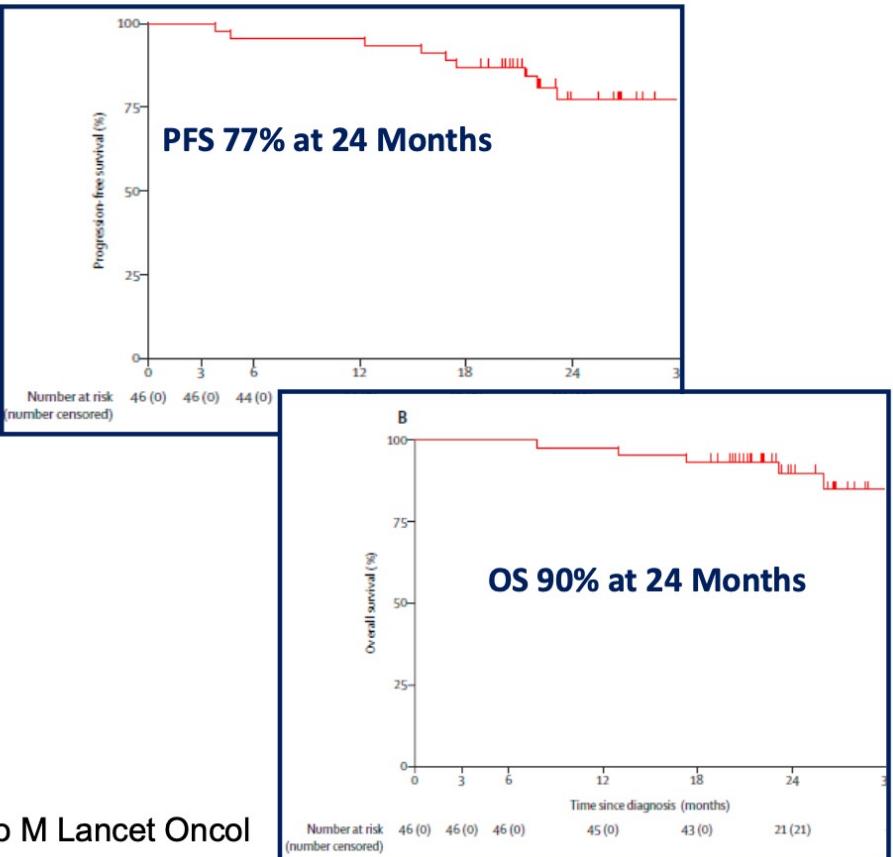
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NADIM: Study design & Flow-chart



Phase 2 : Chimio Immuno néoadjuvante NADIM trial puis NADIM 2 trial

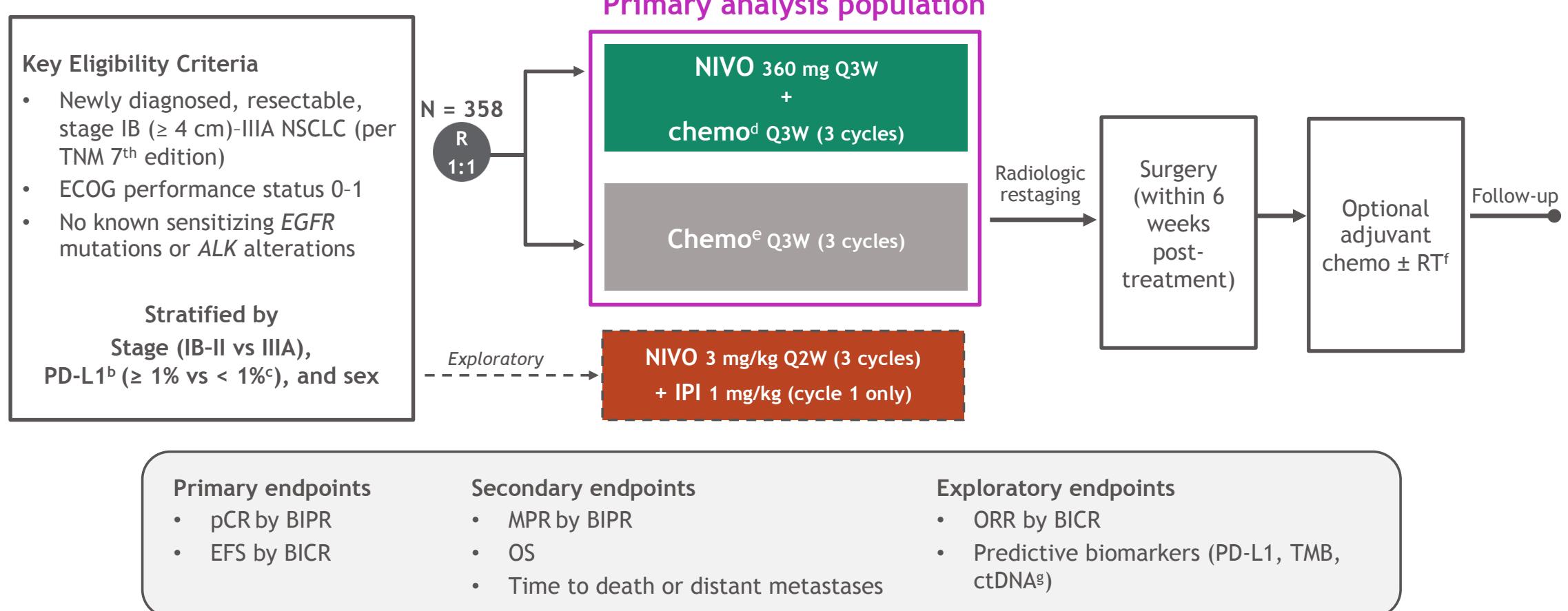
NADIM



Phase 3 : Chimio Immuno néoadjuvante versus chimiothérapie

Sponsor	NCT#	stage	Treatment	Primary end point	N
CM 816	02998528	IB-IIA	Nivo/Ipi vs. Nivo/Chemo vs. Chemo	EFS pCR	350
IMPOWER 030	03456063	II-IIIB	Atezolizumab + chemo vs chemo+Placebo	MPR EFS	450
KN 671	03425643	IIB-IIIA	Pembro/chemo vs chemo	EFS, OS	786
Agean	03800134	IIA-IIIB	Durva/Chemo vs. Chemo	MPR EFS	800
Neotorch	04158440	II -III	Toripalumab/chemo vs. Chemo	MPR EFS	404

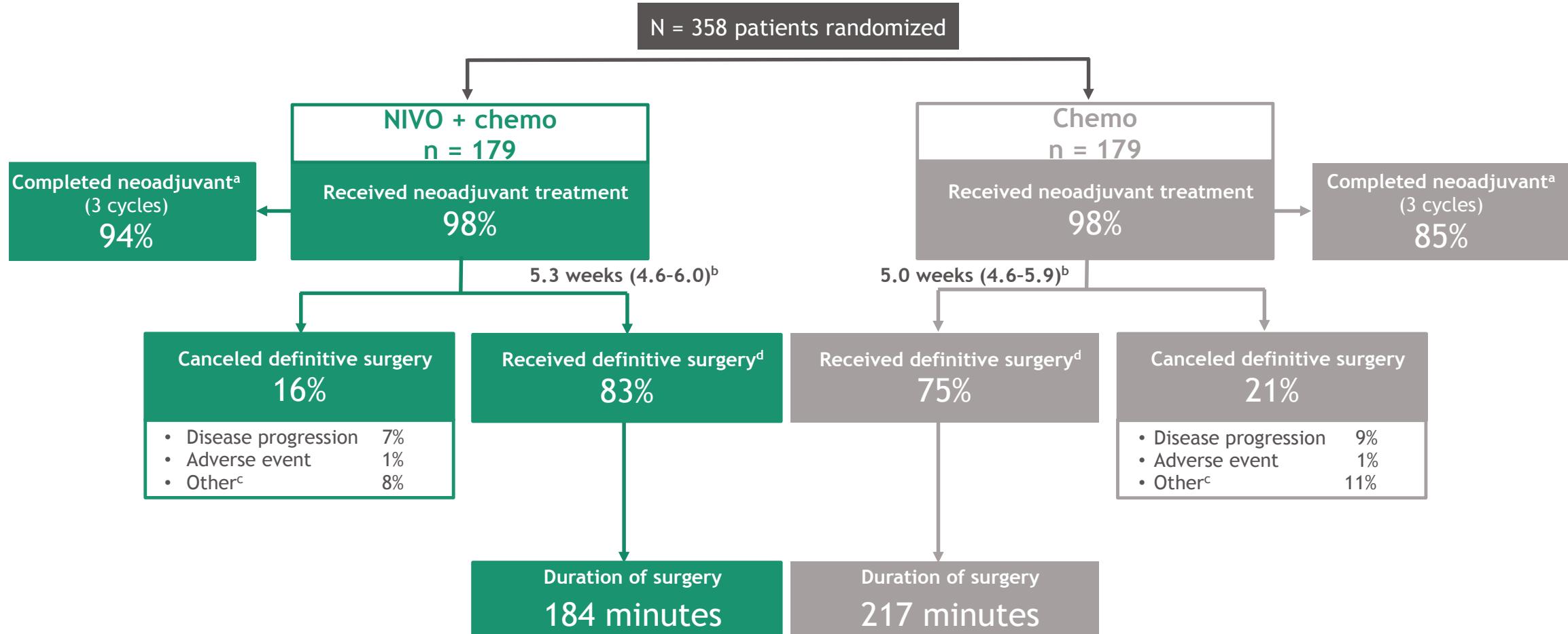
CheckMate-816 : Neoadjuvant immunotherapy



Database lock: September 16, 2020; minimum follow-up: 7.6 mo for NIVO + chemo and chemo arms.

^aNCT02998528; ^bDetermined by the PD-L1 IHC 28-8 pharmDx assay (Dako); ^cIncluded patients with PD-L1 expression status not evaluable and indeterminate; ^dNSQ; pemetrexed + cisplatin; paclitaxel + carboplatin; SQ: gemcitabine + cisplatin; paclitaxel + carboplatin; ^eVinorelbine + cisplatin, or docetaxel + cisplatin, or gemcitabine + cisplatin (SQ only), or pemetrexed + cisplatin (NSQ only) or paclitaxel + carboplatin; ^fPer HCP choice; ^gPerformed using tumor-guided personalized ctDNA panel (ArcherDX PCM).

CheckMate-816 : Neoadjuvant immunotherapy



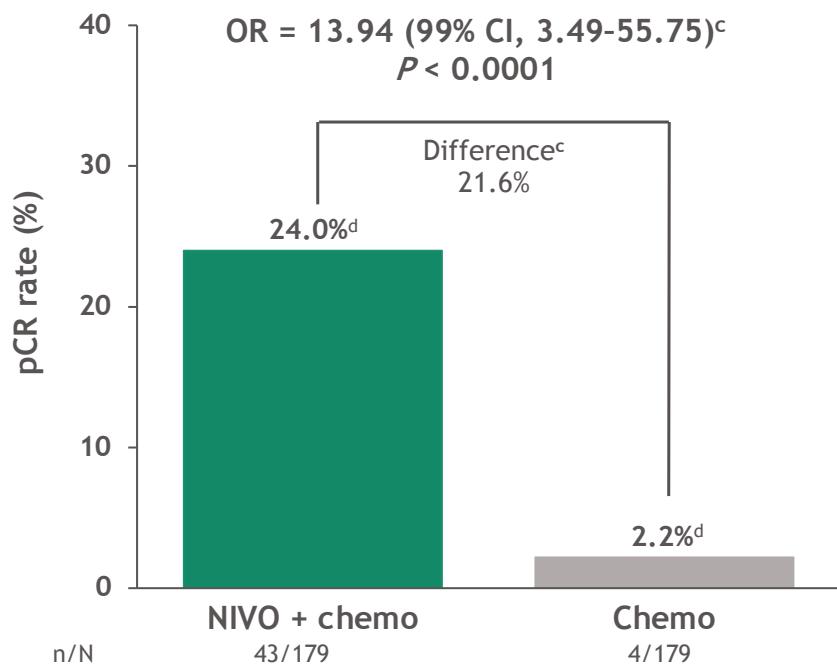
^aAdditional reasons for patients being off neoadjuvant treatment: study drug toxicity (6% in the NIVO + chemo and 7% in the chemo arm), disease progression (1% in each arm), and other reasons (7% in the chemo arm only; this included AEs unrelated to study drug, patient request to discontinue treatment, patient withdrew consent, and patient no longer meeting study criteria); ^bMedian (IQR) time from last dose to definitive surgery; ^cOther reasons included patient refusal, unresectability, and poor lung function; ^dPatients with definitive surgery not reported: NIVO + chemo, 1%; chemo, 3%.

Forde et al. AACR 2021; Spicer et al. ASCO 2021

CheckMate-816

Primary endpoint: pCR

Primary endpoint: ypT0N0 (ITT)^b



- pCR rate in the NIVO + IPI arm was 20.4% (95% CI, 13.4-29.0)

CM-816: Exploratory Biomarker data

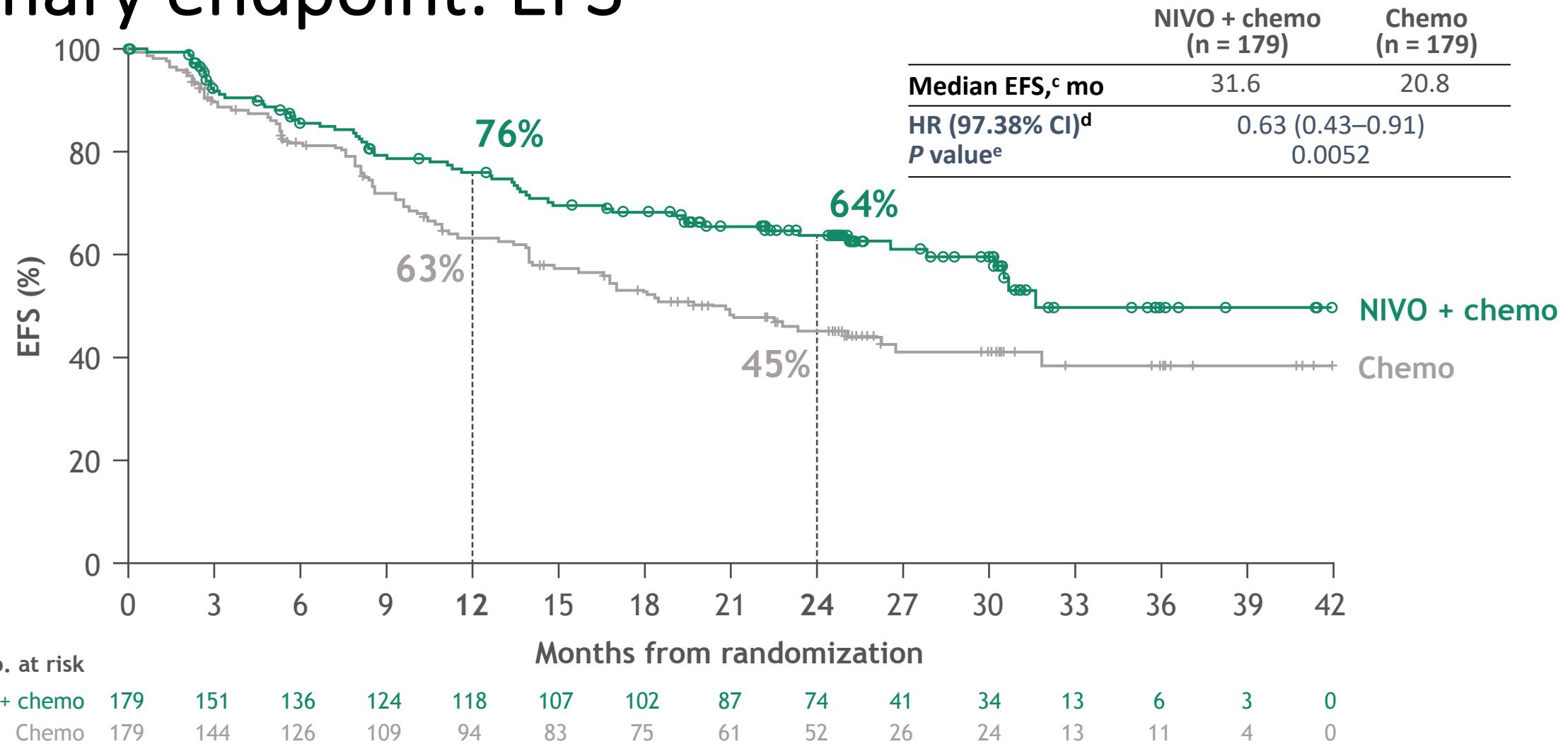
- pCR rates favored N+CT across PD-L1 levels, although higher rates were observed in the Chemo arm for PD-L1 ≥ 1% and ≥ 50% expression.
- PD-L1 expression as expected (49.7% pts with ≥1%; 22.3% pts with ≥50%)
- For comparison, in BR31: 57.8% pts with ≥1%; 24.1% pts with ≥50%)

	pCR ^a rate, %		Unweighted pCR difference
	NIVO + chemo (n = 179)	Chemo (n = 179)	
PD-L1 < 1% (n = 155)	17	3	-14%
PD-L1 ≥ 1% (n = 178)	33	2	-31%
PD-L1 1-49% (n = 98)	24	0	-24%
PD-L1 ≥ 50% (n = 80)	45	5	-40%
TMB < 12.3 mut/Mb (n = 102)	22	2	-20%
TMB ≥ 12.3 mut/Mb (n = 76)	31	3	-28%

^aper BIPR; pCR: 0% residual viable tumor cells in both primary tumor (lung) and sampled lymph nodes; ^bITT principle: patients who received at least one dose of study treatment and had evaluable tumor tissue; ^cstratified Cochran-Mantel-Haenszel method; ^dpCR rates 95% CI: NIVO + chemo, 18.0-31.0; chemo, 0.6-5.6; ^ePatients who underwent surgery

CheckMate-816

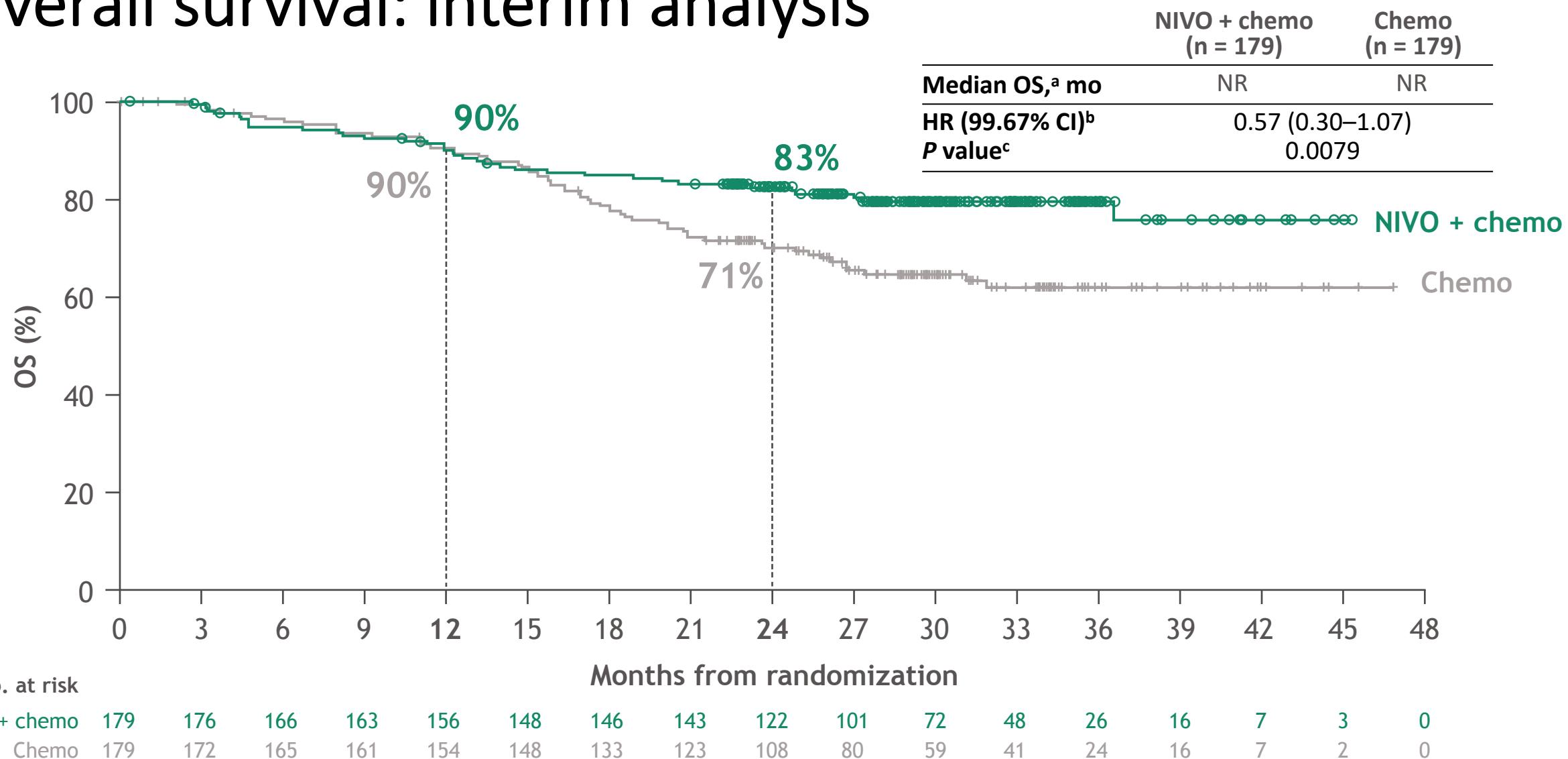
Primary endpoint: EFS



^aPer BICR; ^bEFS defined as the time from randomization to any progression of disease precluding surgery, progression or recurrence of disease after surgery, progression for patients without surgery, or death due to any cause; patients with subsequent therapy were censored at the last evaluable tumor assessment on or prior to the date of subsequent therapy; ^c95% CI = 30.2-NR (NIVO + chemo) and 14.0-26.7 (chemo); ^d95% CI = 0.45-0.87; ^eThe significance boundary at this interim analysis was 0.0262.

CheckMate-816

Overall survival: interim analysis



Minimum follow-up: 21 months; median follow-up, 29.5 months.

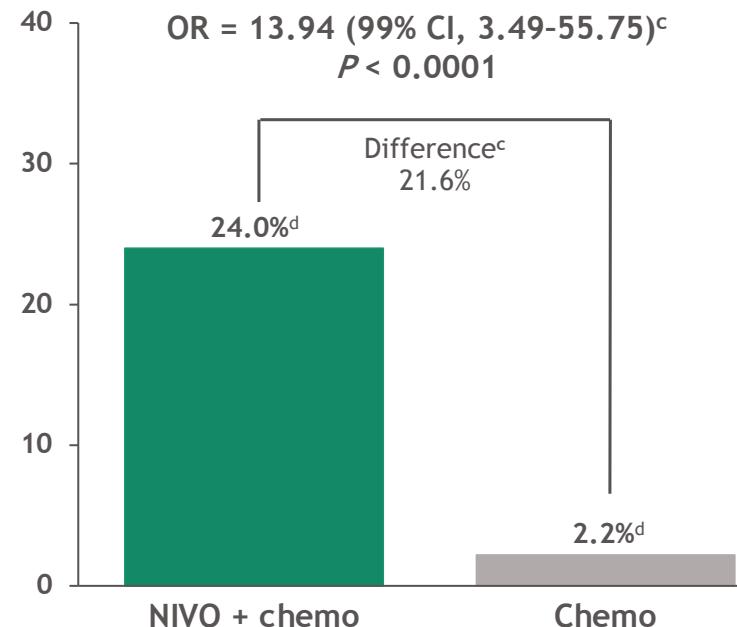
^a95% CI = NR-NR (NIVO + chemo) and NR-NR (chemo); ^b95% CI = 0.38–0.87; ^cSignificance boundary for OS (0.0033) was not met at this interim analysis.

Autres études de phase 3 : réponse histologique complète

CheckMate-816

Nivolumab-CT (3 cycles)
& Surveillance

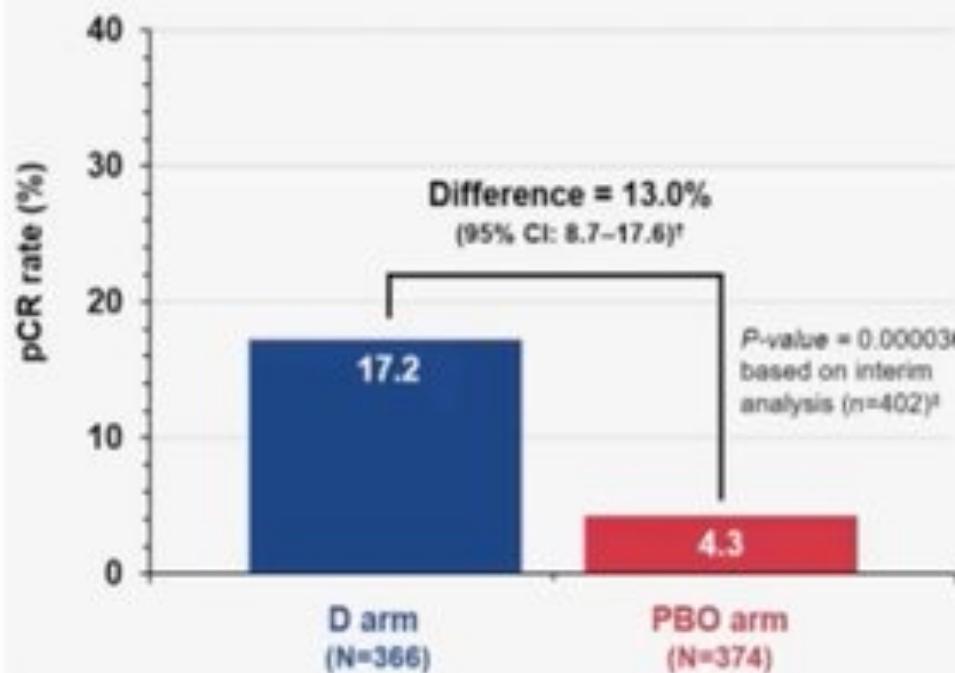
Primary endpoint: ypT0N0 (ITT)^b



Aegan

Durvalumab-CT (4 cycles)
& Durva

pCR (central lab)



Neotorch

Toripalumab CT (3 + 1 cycles)
& Toripa

Toripalimab + Chemo (N=202) Placebo + Chemo (N=202)

50 (24.8)	2 (1.0)
19.0, 31.3	0.1, 3.5
23.7 (17.6, 29.8)	<0.0001

pCR assessed by BIPR

n (%)

95% CI

Stratified analysis

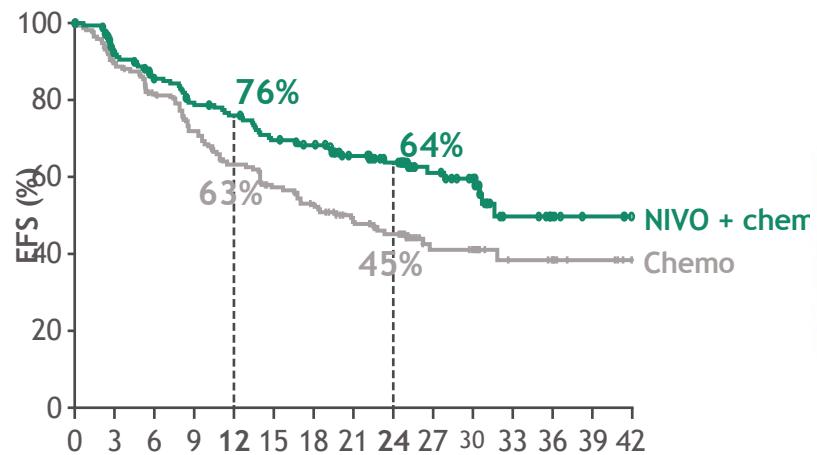
Difference between arms (95% CI)

P value

Autres études de phase 3 : survie sans évènement

CheckMate-816

Nivolumab-CT (3 cycles)
& Surveillance



NIVO + chemo
(n = 179)

Median EFS,^c mo

31.6

Chemo
(n = 179)

20.8

HR (97.38% CI)^d

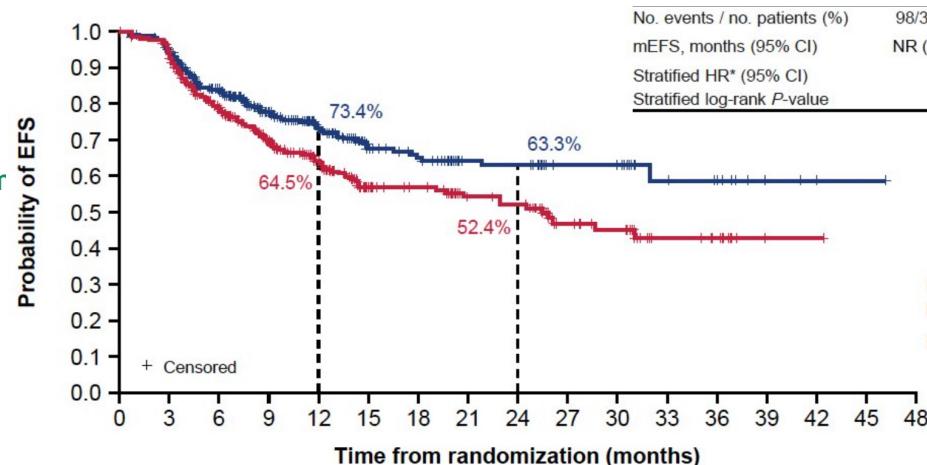
0.63 (0.43–0.91)

P value^e

0.0052

Aegan

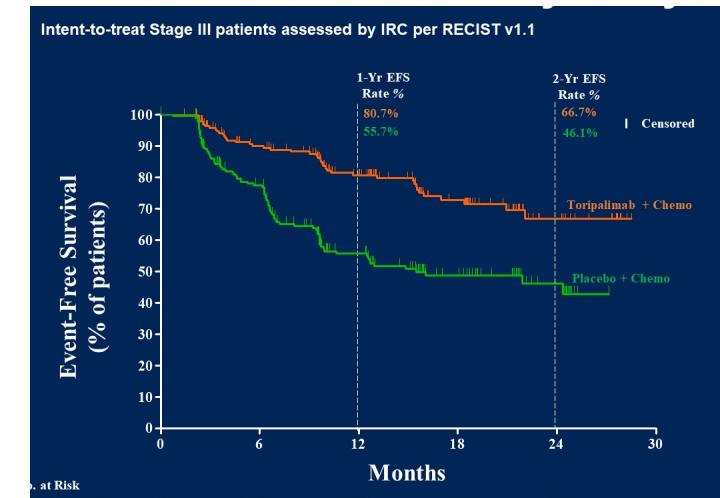
Durvalumab-CT (4 cycles)
& Durva



		D arm	PBO arm
No. events / no. patients (%)		98/366 (26.8)	138/374 (36.9)
mEFS, months (95% CI)		NR (31.9–NR)	25.9 (18.9–NR)
Stratified HR* (95% CI)			0.68 (0.53–0.88)
Stratified log-rank P-value			0.003902

Neotorch

Toripalumab CT (3 + 1 cycles)
& Toripa



No. of Events/
No. of Patients

Median EFS
mo (95% CI)

Toripalimab + Chemo 43/202 NE (NE, NE)
Placebo + Chemo 87/202 15.5 (9.9, NE)

Median follow-up: 18.25 months

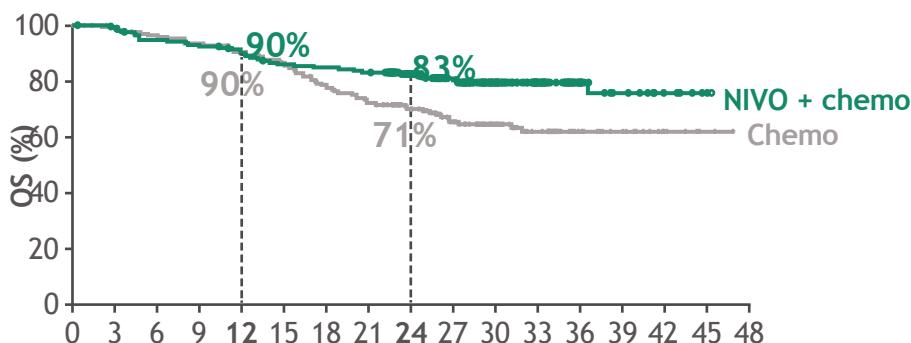
HR 0.40 (95%CI 0.271, 0.572)

nominal P<0.0001

Autres études de phase 3 : survie globale

CheckMate-816

Nivo CT 3 cycles
& Surveillance



NIVO + chemo (n = 179) Chemo (n = 179)

Median OS, ^a mo	NR	NR
HR (99.67% CI) ^b	0.57 (0.30–1.07)	
P value ^c	0.0079	

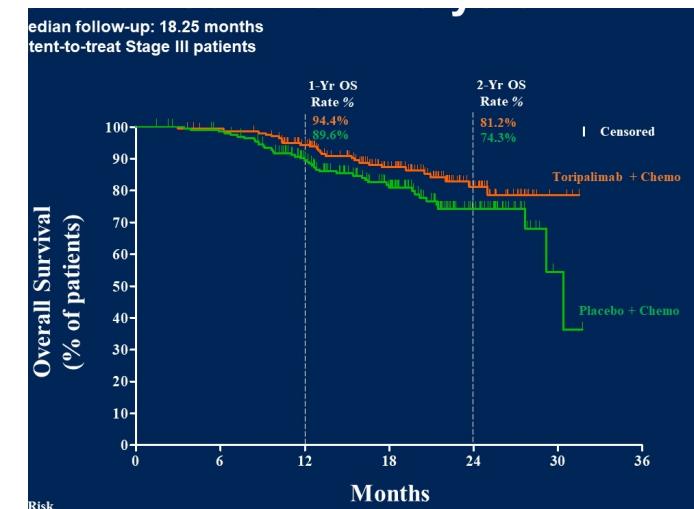
Aegan

Durvalumab CT 4 cycles
& Durva



Neotorch

Toripalumab CT 4 cycles
& Toripa CT 1 cycle & Toripa



No. of Events/ No. of Patients	Median EFS mo (95% CI)
Toripalimab + Chemo 28/202	NE (NE, NE)
Placebo + Chemo 48/202	30.4 (29.2, NE)

HR 0.62 (95% CI 0.381, 0.999)
nominal P=0.0502

Phase 3 : ICI monothérapie versus placebo/BSC situation adjuvante

Trial	NCT	Drug	Stage	Target Accrual	Phase	Endpoint
PEARLS	NCT02504372	S with or without CT → Pembrolizumab vs Placebo	IB-IIIA	1080	III	DFS
BR31	NCT02273375	S with or without CT → Durvalumab vs Placebo	IB-IIIA	1360	III	DFS, DFS in PD-L1 positive
ANVIL	NCT02595944	S with or without CT → Nivolumab vs Observation	IB-IIIA	903	III	DFS, OS
IMpower010	NCT02486718	S with CT → Atezolizumab vs Best Supportive Care	IB-IIIA	1280	III	DFS

S: surgery. CT: adjuvant chemotherapy. DFS: disease free survival.

IMpower 010 : Adjuvant immunotherapy

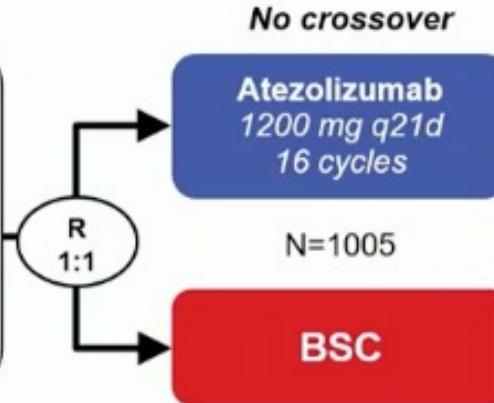
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IMpower010 study design

Completely resected stage IB-IIIA NSCLC per UICC/AJCC v7

- Stage IB tumours ≥ 4 cm
- ECOG PS 0-1
- Lobectomy/pneumonectomy
- Tumour tissue for PD-L1 analysis

1-4 cycles cisplatin + pemetrexed, gemcitabine, docetaxel or vinorelbine
N=1280



Survival follow-up

Stratification factors

- Sex
- Stage (IB vs II vs IIIA)
- Histology
- PD-L1 tumour expression status (TC2/3 and any IC vs TC0/1 and IC2/3 vs TC0/1 and IC0/1)^a

Primary endpoints

- Investigator-assessed DFS tested hierarchically:
 1. PD-L1 TC $\geq 1\%$ (SP263) stage II-IIIA population
 2. All-randomised stage II-IIIA population
 3. ITT (all-randomised stage IB-IIIA) population

Key secondary endpoints

- OS in ITT (all-randomised stage IB-IIIA) population
- DFS in PD-L1 TC $\geq 50\%$ (SP263) stage II-IIIA population
- 3-y and 5-y DFS in all 3 populations

Hierarchical statistical testing

DFS in PD-L1 TC $\geq 1\%$
stage II-IIIA population^b

If positive:

DFS in all-randomized
stage II-IIIA population^b

If positive:

DFS in ITT population^b
(all-randomised stage IB-IIIA)

If positive:

OS in ITT population^b
(all-randomised stage IB-IIIA)

■ Endpoint was met at DFS IA

■ Endpoint was not met at DFS IA, and follow-up is ongoing

□ OS data were immature, and endpoint was not formally tested

Both arms included observation and regular scans for disease recurrence on the same schedule.
IC, tumour-infiltrating immune cells. ^a Per SP142 assay. ^b Two-sided $\alpha=0.05$.

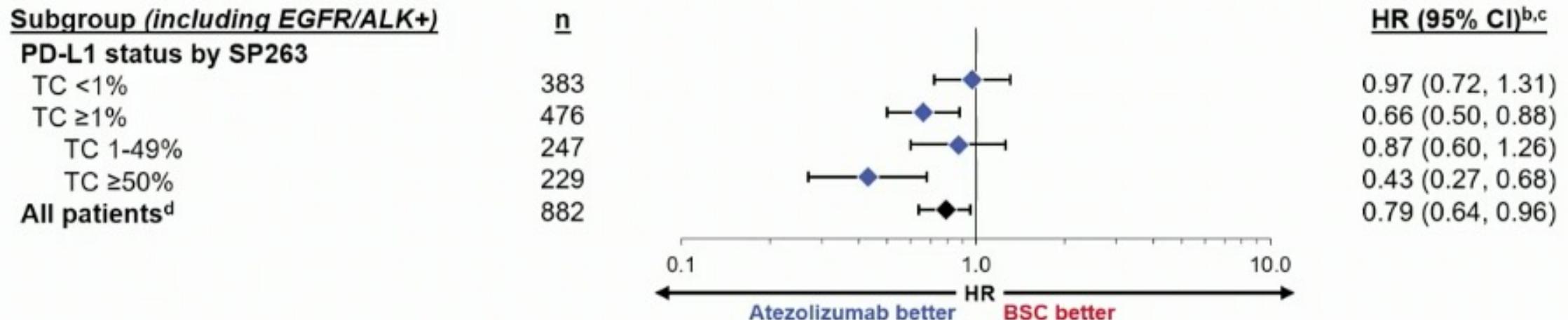
Felip et al. IMpower010 Relapse Patterns.
<https://bit.ly/3mNMSAi> 4

IMpower 010 : Adjuvant immunotherapy

2021 ESMO congress

DFS by PD-L1 status^a

All-randomised stage II-IIIA population (with and without known EGFR/ALK+ disease)



IMpower 010 : Avis de la commission de transparence

Avis de la CT du 14 décembre 2022

Documents : 4

Historique des avis

[TÉLÉCHARGER L'AVIS](#)

ÉCOUTER

AJOUTER À MA SÉLECTION

L'essentiel

Quelle place dans la stratégie thérapeutique ?

Service Médical Rendu (SMR)

Amélioration du service médical rendu (ASMR)

TECENTRIQ (atézolizumab) - Cancer bronchique non à petites cellules (CBNPC)

AVIS SUR LES MÉDICAMENTS - Mis en ligne le 20 janv. 2023



Nature de la demande

Extension d'indication

Nouvelle(s) indication(s).

L'essentiel

Avis défavorable au remboursement en monothérapie dans le traitement adjuvant complet et chimiothérapie à base de platine, des patients adultes atteints d'un cancer non à petites cellules (CBNPC) avec un risque élevé de récidive, dont les tumeurs expriment PD-L1 ≥ 50 % sur les cellules tumorales (TC) et qui ne présentent pas de mutation EGFR muté ou réarrangement du gène ALK (ALK-positif).

Quelle place dans la stratégie thérapeutique ?

L'essentiel

Quelle place dans la stratégie thérapeutique ?

Service Médical Rendu (SMR)

Amélioration du service médical rendu (ASMR)

de chirurgie d'emblée avec resection complète, notamment l'association cisplatine-vinorelbine ou cisplatine-pemetrexed (uniquement dans le CBNPC non-épidermoïde). Il n'est pas recommandé de faire une chimiothérapie adjuvante en cas de stade I.

En l'absence de mutation EGFR, la suite de la prise en charge consiste en une surveillance.

Place du médicament

Prenant en compte :

- les limites méthodologiques majeures associées aux analyses d'efficacité réalisées dans la population finalement retenue pour l'AMM (notamment analyses en sous-groupes, post-hoc, non ajustées pour la multiplicité, sans interaction recherchée, utilisant un critère de stratification différent de ceux utilisés dans la randomisation), ne permettant d'en tirer aucune conclusion formelle ;
- le contexte de situation adjuvante, dans laquelle une proportion estimée entre 37 % et 63 % des patients ne va pas récidiver (quasi équivalent de guérison), sans prise en charge additionnelle ;
- le surcroît de toxicité associé à l'utilisation de TECENTRIQ (atezolizumab), par rapport à la surveillance, dans le contexte de situation adjuvante évoqué ci-dessus ;

la Commission de la Transparence estime que TECENTRIQ (atezolizumab) n'a pas de place dans la stratégie thérapeutique actuelle.

Service Médical Rendu (SMR)

Insuffisant

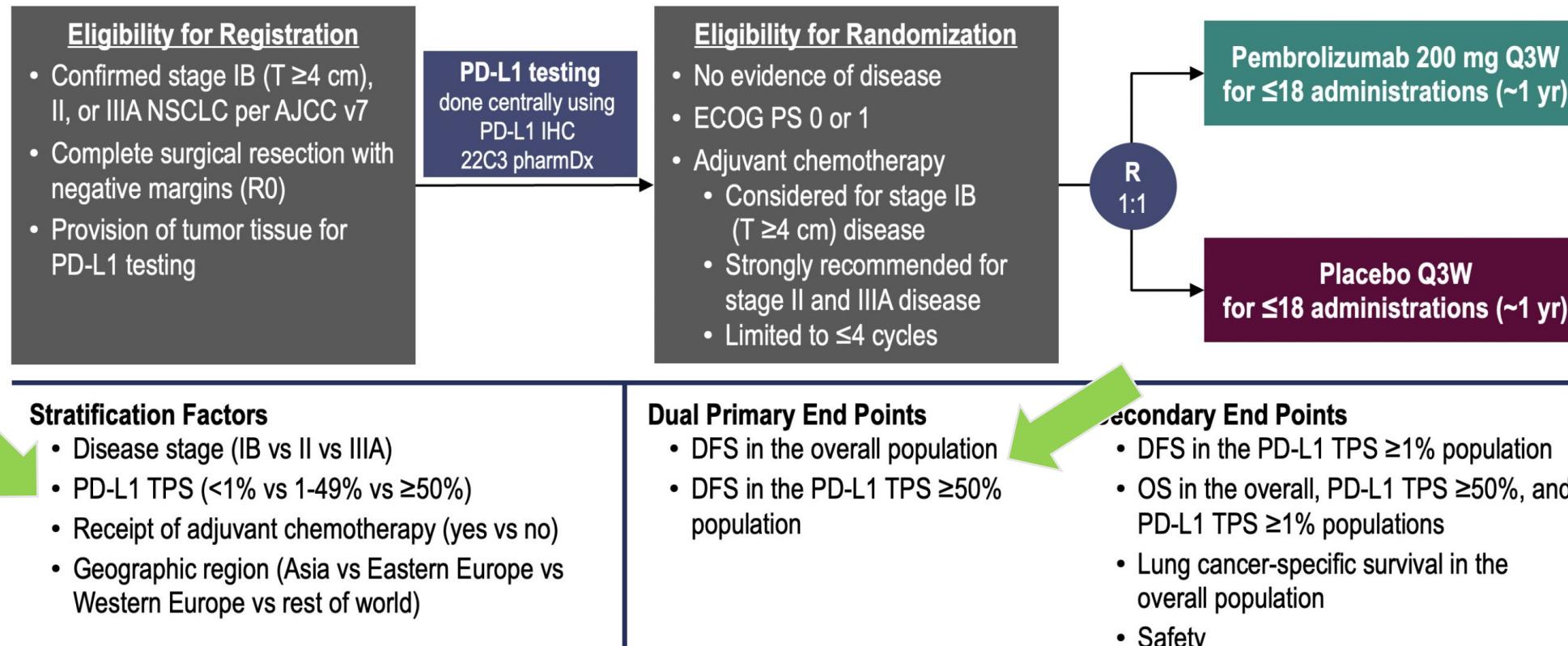
Le service médical rendu par TECENTRIQ (atezolizumab) est insuffisant pour justifier d'une prise en charge par la solidarité nationale dans l'indication de l'AMM.

Amélioration du service médical rendu (ASMR)

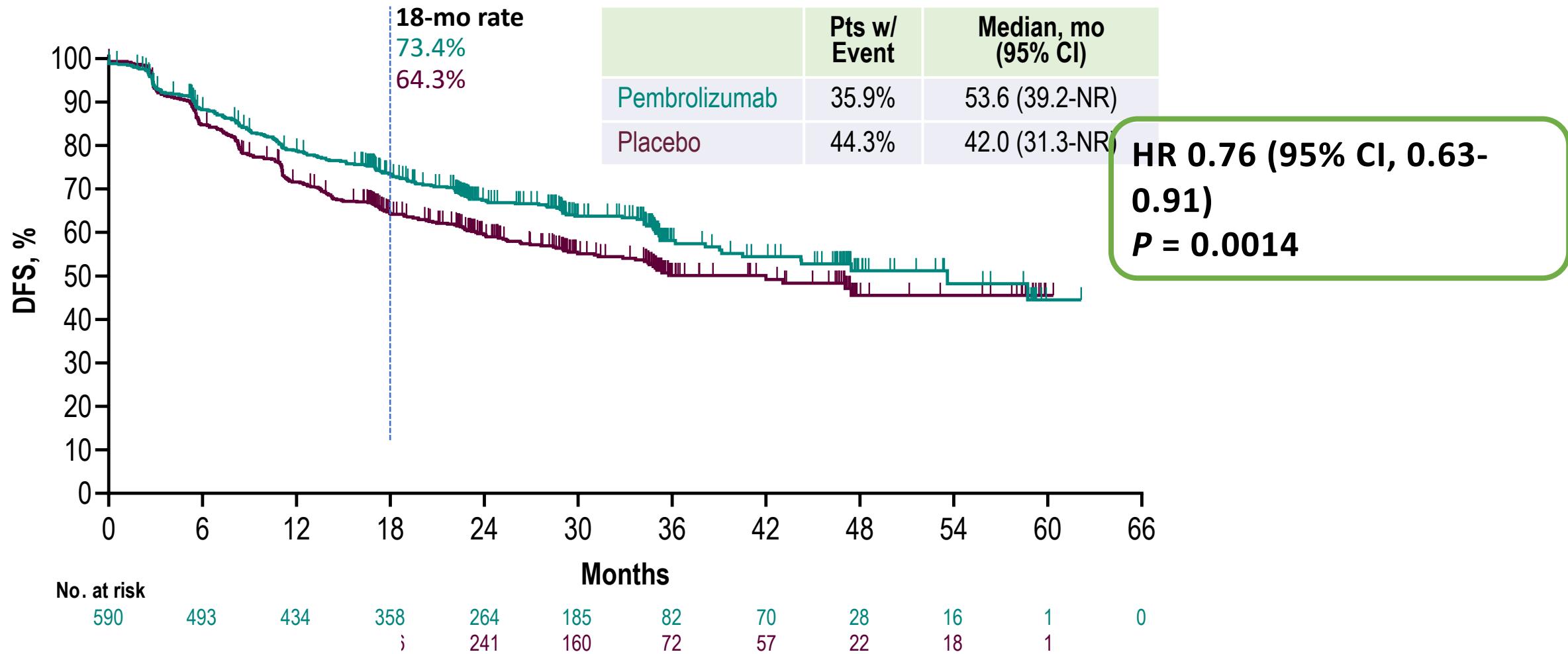
Sans objet

Pearls / Keynote-091 : Adjuvant immunotherapy

Randomized, Triple-Blind, Phase 3 Trial



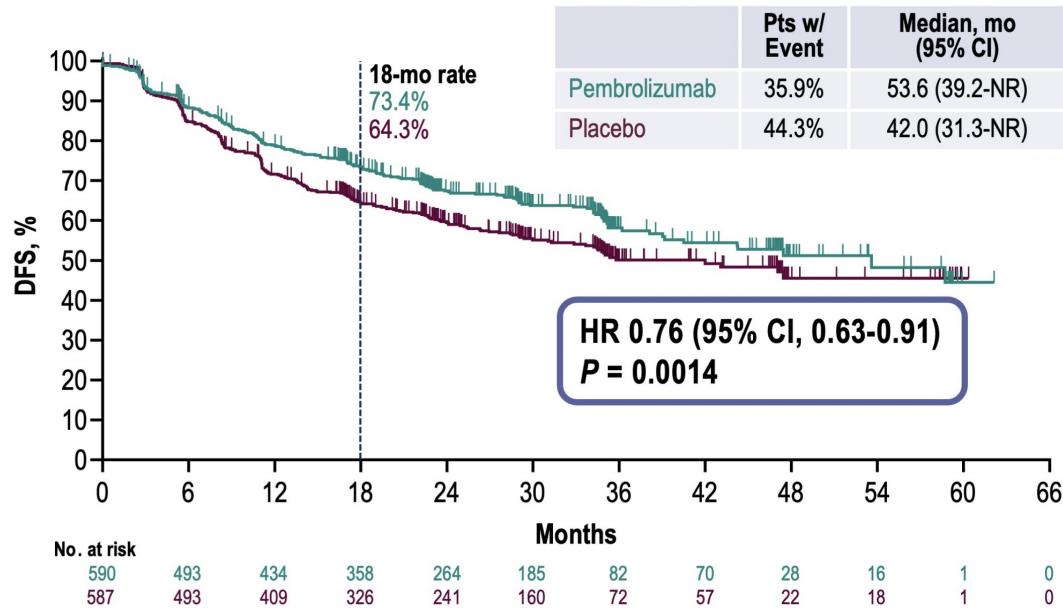
Pearls / Keynote-091 : Adjuvant immunotherapy *survie sans récidive*



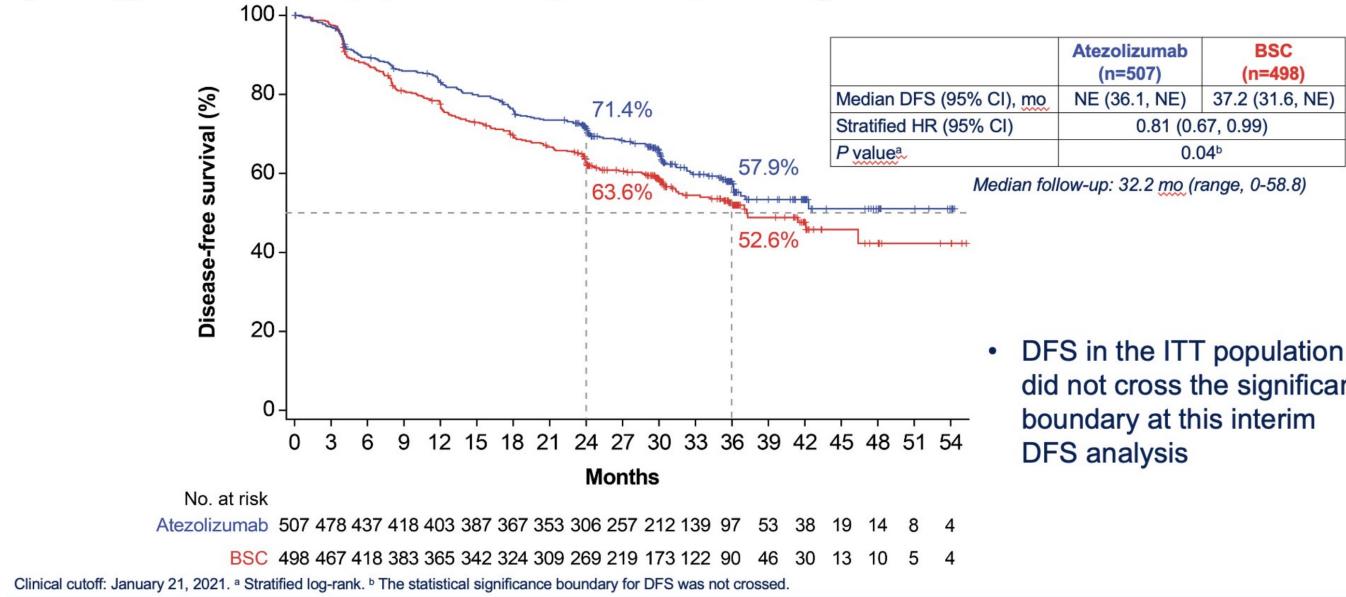
Pearls/Keynote-091 et Impower 010

survie sans récidive

DFS, Overall Population



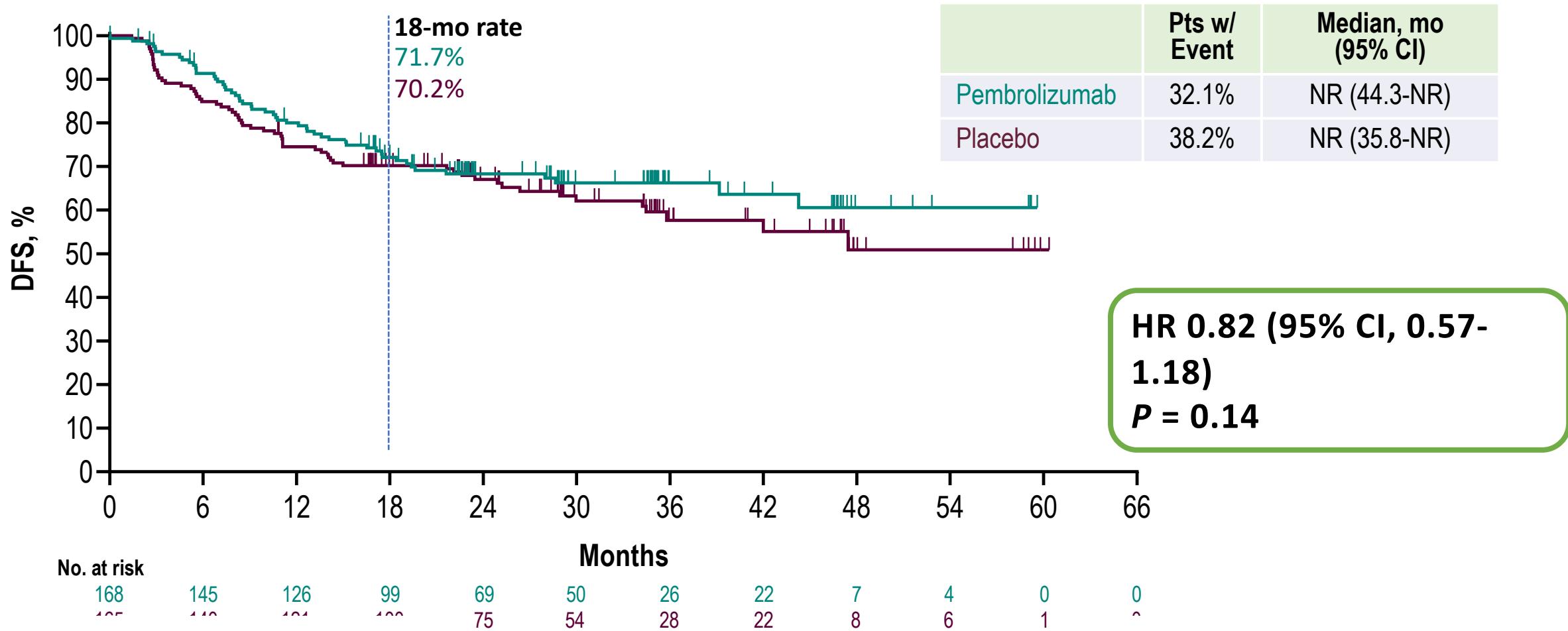
IMpower010: DFS in the ITT population (stage IB-IIIA; primary endpoint)



- DFS in the ITT population did not cross the significance boundary at this interim DFS analysis

Similar HR for DFS in IMpower 010

Pearls / Keynote-091 : Adjuvant immunotherapy *survie sans récidive chez les PDL1 ≥ 50%*



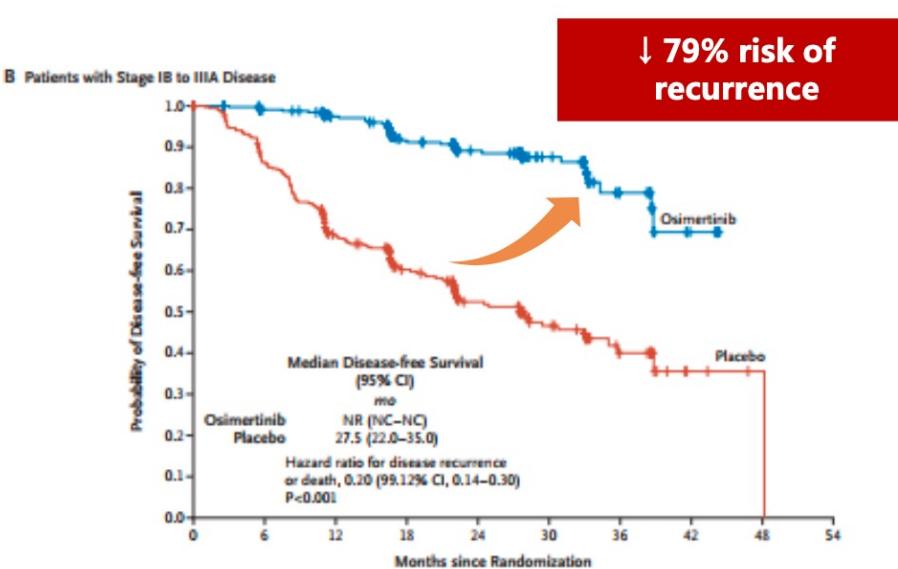
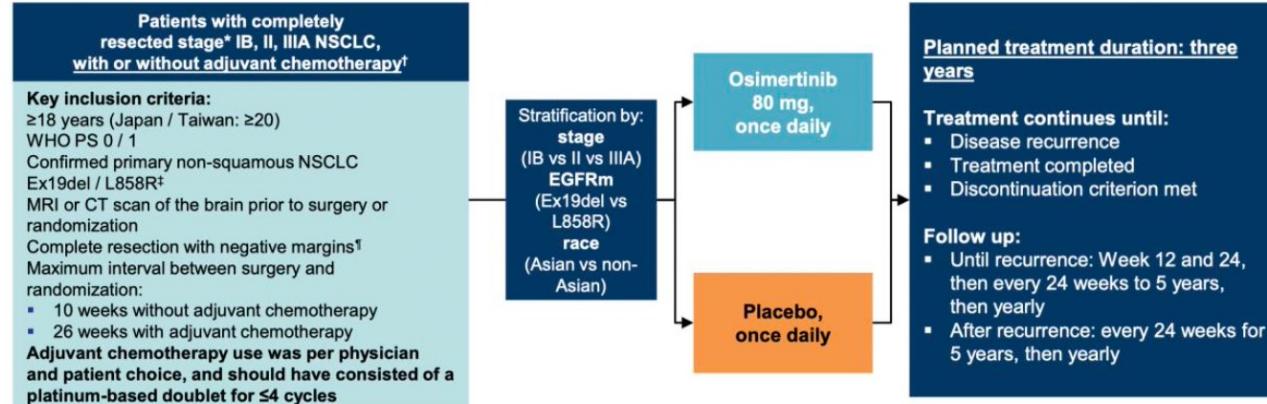
TKI EGFR en adjuvant

TRIALS	STAGE	INTERVENTION	Duration	COMPARASION	DFS	OS
EVAN	IIIA	Erlotinib (n=51)	2 years	Vinorelbine + Cisplatin (n=51)	2-year DFS 81.4% vs. 44.6% RR 1.823, p=0.0054	5-year OS 84.2m vs. 61.1m HR 0.318, 95% CI, 0.15-0.50 <i>Phase II, Small cohort</i>
ADJUVANT	II-IIIA	Gefitinib (n=111)	2 years	Vinorelbine + Cisplatin (n=111)	Median DFS 28.7m vs. 18.0m HR 0.6, p=0.0054	5-year OS 75.5 vs. 62.8 mons HR=0.92, p=0.674 <i>Not significant</i>
IMPACT	II-III	Gefitinib (n=116)	2 years	Vinorelbine + Cisplatin (n=116)	Median DFS 35.9m vs. 25.0m HR 0.92, p=0.63	5-year OS 78.0% vs. 74.6% HR=1.03, p=0.98 <i>Not significant</i>
ADAURA	IB-IIIA	Osimertinib (n=339)	3 years	Placebo (n=343)	Median DFS NR vs. 27.5m HR 0.20, p<0.001	NA

More highly potent EGFR-TKIs at later lines may impact survival and trial of adjuvant Osimertinib is still pending for OS.

TKI EGFR en adjuvant

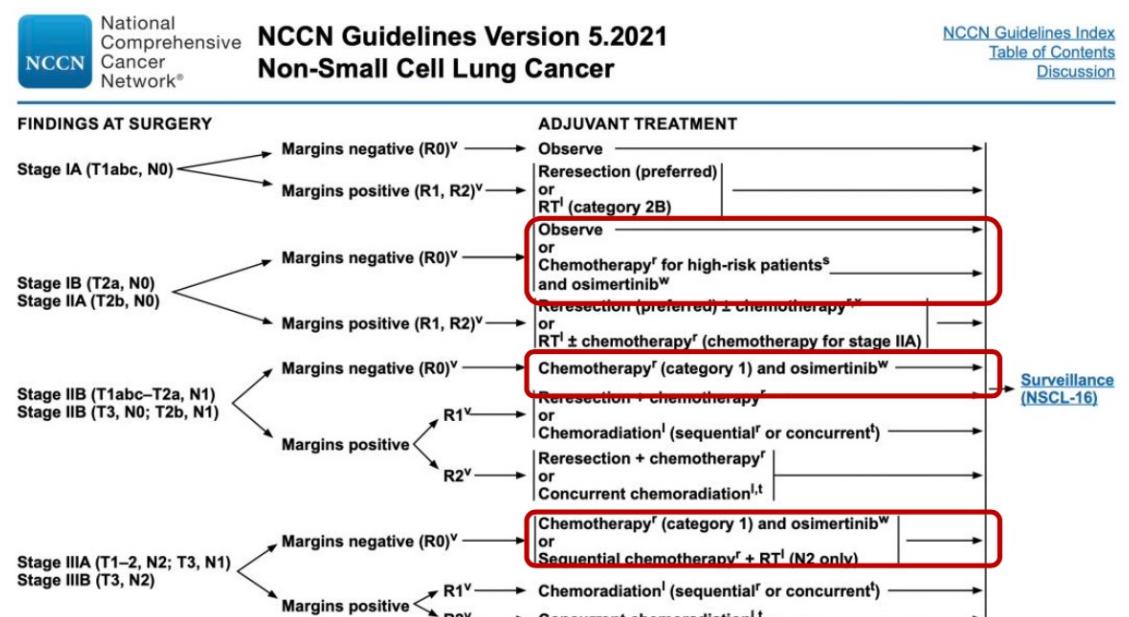
Adjuvant Osimertinib versus Placebo (ADAURA)



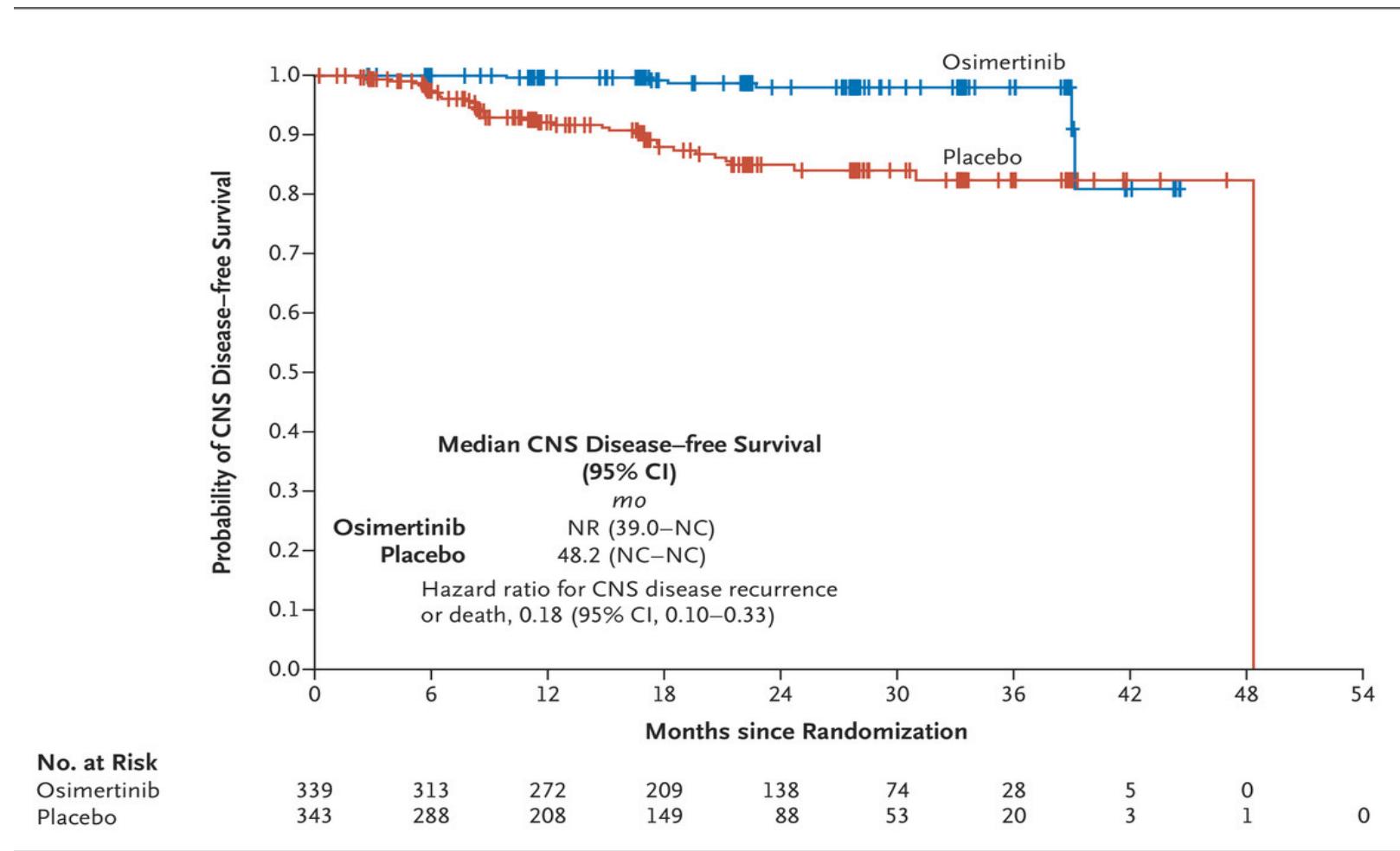
3rd generation EGFR-TKI

Treatment duration: 3 years

With and without chemotherapy



TKI EGFR en adjuvant ADAURA Central Nervous System DFS



TKI EGFR en adjuvant ADAURA

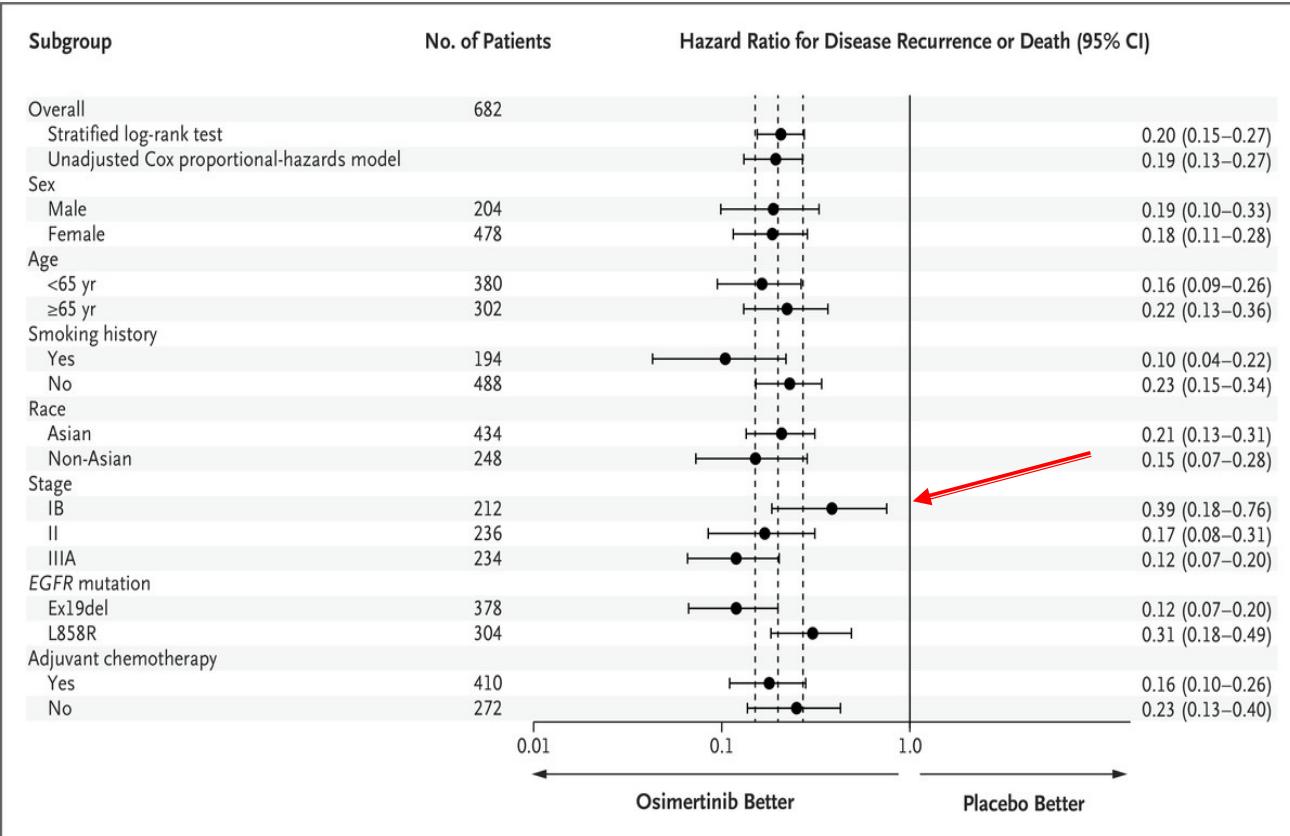


Table 2. Adverse Events.*

Adverse Event	Osimertinib (N=337)			Placebo (N=343)				
	Any Grade	Grade 1	Grade 2	Grade 3	Any Grade	Grade 1	Grade 2	Grade 3
Diarrhea	156 (46)	116 (34)	32 (9)	8 (2)	68 (20)	54 (16)	13 (4)	1 (<1)
Paronychia	85 (25)	31 (9)	50 (15)	3 (1)	5 (1)	3 (1)	2 (1)	0
Dry skin	79 (23)	75 (22)	3 (1)	1 (<1)	22 (6)	18 (5)	4 (1)	0
Pruritus	65 (19)	49 (15)	16 (5)	0	30 (9)	28 (8)	2 (1)	0
Cough	62 (18)	43 (13)	19 (6)	0	57 (17)	42 (12)	15 (4)	0
Stomatitis	59 (18)	35 (10)	18 (5)	6 (2)	14 (4)	10 (3)	4 (1)	0
Nasopharyngitis	47 (14)	30 (9)	17 (5)	0	35 (10)	25 (7)	10 (3)	0
Upper respiratory tract infection	45 (13)	24 (7)	19 (6)	2 (1)	35 (10)	19 (6)	16 (5)	0
Decreased appetite	44 (13)	29 (9)	13 (4)	2 (1)	13 (4)	9 (3)	4 (1)	0
Mouth ulceration	39 (12)	32 (9)	7 (2)	0	8 (2)	6 (2)	2 (1)	0
Dermatitis acneiform	37 (11)	29 (9)	8 (2)	0	16 (5)	12 (3)	4 (1)	0

* Listed are adverse events that were reported in at least 10% of the patients in either trial group, according to the maximum Common Terminology Criteria for Adverse Events grade and preferred term. The safety analyses included all the patients who received at least one dose of osimertinib or placebo (safety analysis set). None of the adverse events reported in at least 10% of the patients in either trial group were determined to be grade 4 or higher.

TKI EGFR en adjuvant ADAURA

ADAURA - Overall survival analysis from the ADAURA trial of adjuvant osimertinib in patients with resected EGFR-mutated (EGFRm) stage IB–IIIA non-small cell lung cancer (NSCLC).

ABSTRACTS & PRESENTATIONS

2023 ASCO Annual Meeting - Plenary Session

Overall survival analysis from the ADAURA trial of adjuvant osimertinib in patients with resected EGFR-mutated (EGFRm) stage IB–IIIA non-small cell lung cancer (NSCLC).

Abstract: LBA3

ASCO 2023 (27-04-2023)

<https://meetings.asco.org/abstracts-presentations/219805>

Tagrisso (osimertinib) - AstraZeneca, Solid Tumor, Non Small Cell Lung Cancer, Lung Cancer, Oncology, EGFR mutation, EGFR, AstraZeneca

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TT Périopératoire

- Néo versus adjuvant ?
- IO CT neoadjuvant
 - Adjuvant : ? quelle durée ?
 - Quel stade?
 - PD-L1
- TKI EGFR
 - Adjuvant
 - OS : amplitude bénéfice



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Marie-Pierre Revel et son équipe

Audrey Lupo

Diane Damotte

Karen Leroy

Hélène Blons

Pierre Laurent-Puig

Isabelle Cremer et son équipe



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