

Predictive Models for Chemo- and Radiotherapy

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Disclosures

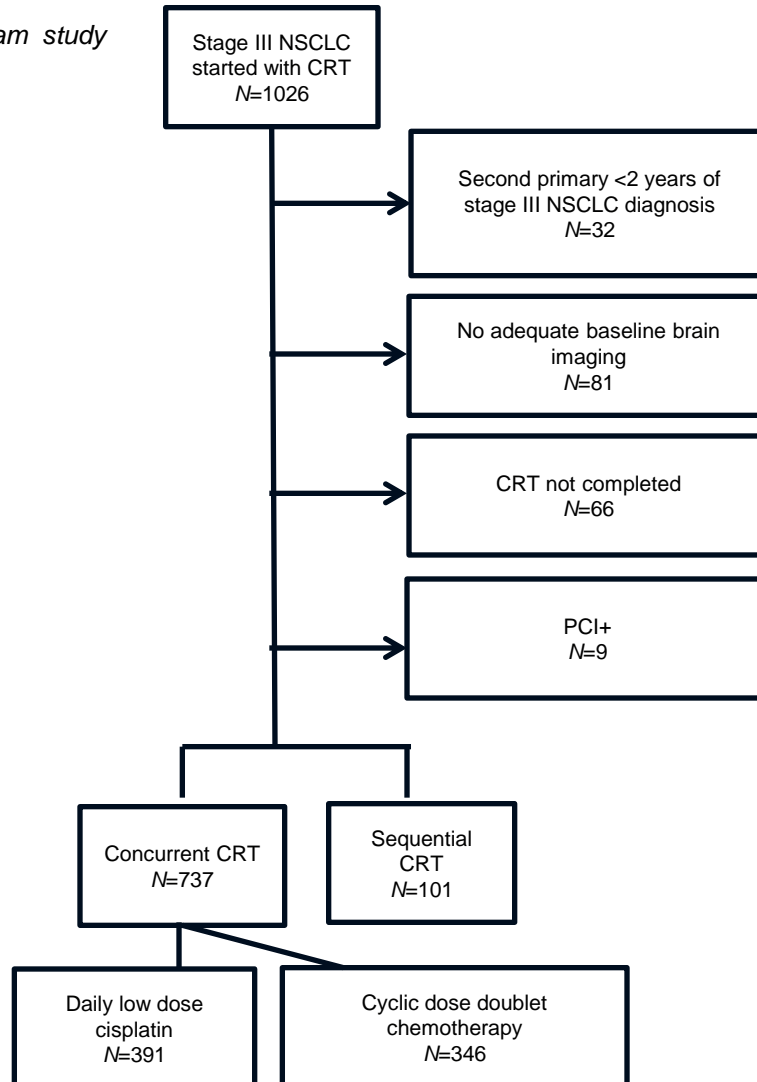
Honoraria for advisory board work, speaker bureau activities and/or travel grants from Pfizer, Roche, AZD, Boehringer, BMS, MSD, Lilly Oncology and Novartis

Brain metastases (BM) development after chemoradiation for stage III Non-Small Cell Lung Cancer: does the type of chemotherapy matter?

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Consort diagram study inclusion



Retrospective multicenter study

- Jan 1st 2006 - June 30th 2014
- Last date of FU June 30th 2015

Included

- ¹⁸FDG-PET staged stage III NSCLC pts who completed CRT
- Baseline CT/MRI brain without BM

Primary endpoints

- For different chemotherapy regimens:
 - BM development within 1st year of stage III NSCLC diagnosis;
 - BM as only site of first relapse

Results

Percentage brain metastases development < 1 year

| | BM <1 year of NSCLC diagnosis <i>N</i> (%) | <i>p</i> -value | BM as only site of first relapse <i>N</i> (%) | <i>p</i> -value |
|-----------------------|--|-----------------|---|-----------------|
| Patients (<i>N</i>) | 88/838 (11) | | 39/838 (5) | |
| CRT | | | | |
| - Sequential | 10/101 (10) | 0.834 | 4/101 (4) | 0.724 |
| - Concurrent | 78/737 (11) | | 35/737 (5) | |
| Concurrent CRT | | | | |
| - Doublet CTx | 37/346 (11) | 0.927 | 14/346 (4) | 0.399 |
| - Daily LD cis | 41/391 (11) | | 21/391 (5) | |

Abbreviations: LD; low dose, cis; cisplatin.

Logistic regression analysis

Only concurrent chemoradiation patients (N=737)

| | OR (95% CI) | p-value |
|--|------------------|------------------|
| All brain relapses <1 year | | |
| Gender (female vs male) | 1.01 (0.67-1.51) | 0.974 |
| Age (continuous, older vs younger) | 0.98 (0.96-0.99) | 0.037 |
| T-stage (T3-4 vs T0-2) | 1.18 (0.78-1.77) | 0.431 |
| N-stage (N2-3 vs N0-1) | 1.88 (0.90-3.93) | 0.095 |
| Treatment regimen (LD cis vs cyclic doublet) | 0.96 (0.65-1.41) | 0.819 |
| Histology (SQCC vs AdC) | 0.19 (0.10-0.36) | <0.001 |
| Histology (NOS vs AdC) | 0.73 (0.47-1.12) | 0.153 |

Abbreviations: LD: low dose; cis: cisplatin; SQCC; squamous cell carcinoma, AdC; adenocarcinoma, NOS; not otherwise specified.

Results

- No differences in BM diagnosis < 1 year, as first site of relapse irrespective of
 - Concurrent versus sequential
- Within concurrent group:
 - Daily low dose cisplatin (N=391) versus cyclic dose taxane based (N=69) or non-taxane based Ctx (N=277)
 - Daily low dose cisplatin (N=391) versus cisplatin/etoposide (N=188), cisplatin/vinorelbin (N=65), weekly cisplatin/docetaxel (N=60)

Conclusions

- 11% of pts developed BM <1 year after stage III diagnosis despite no suspect brain imaging at initial diagnosis
- Results not dependent on type of chemotherapy regimen used within CRT treatment

Possible explanations and future directions:

- Microscopic BM present at initial diagnosis and ineffective Ctx due to inadequate blood-brain barrier (BBB) penetration
- BM development after CRT due to seeding of extracranial metastases
- Future: risk stratification tool & regular FU for high risk patients or PCI / BBB penetrating agents

Impact of *KRAS* mutation on response and outcome of patients with stage III non-squamous non-small cell lung cancer

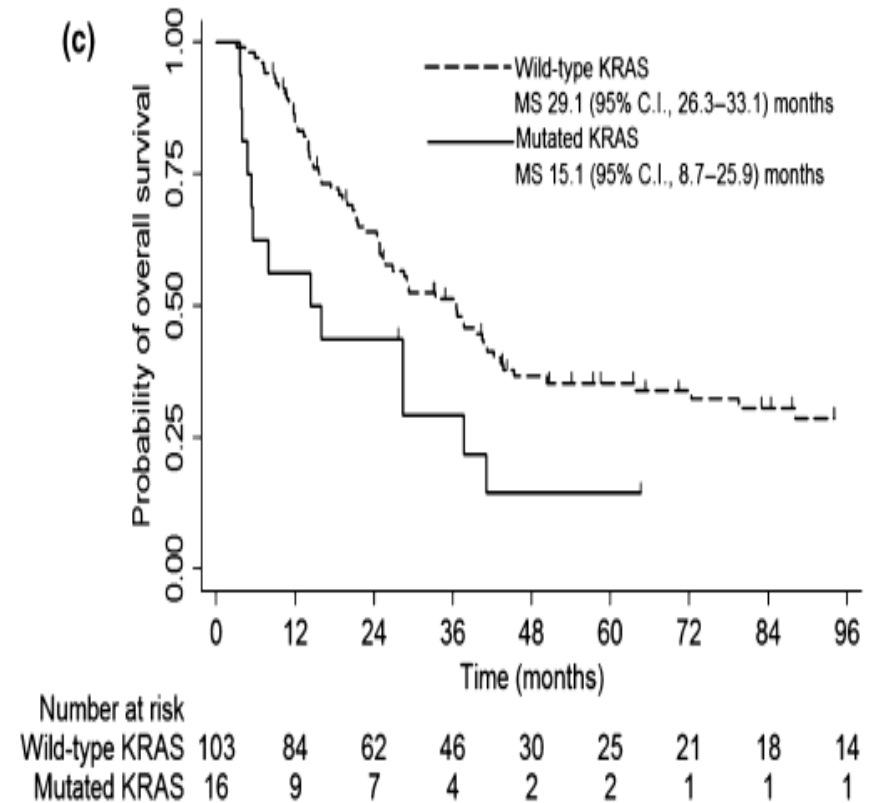
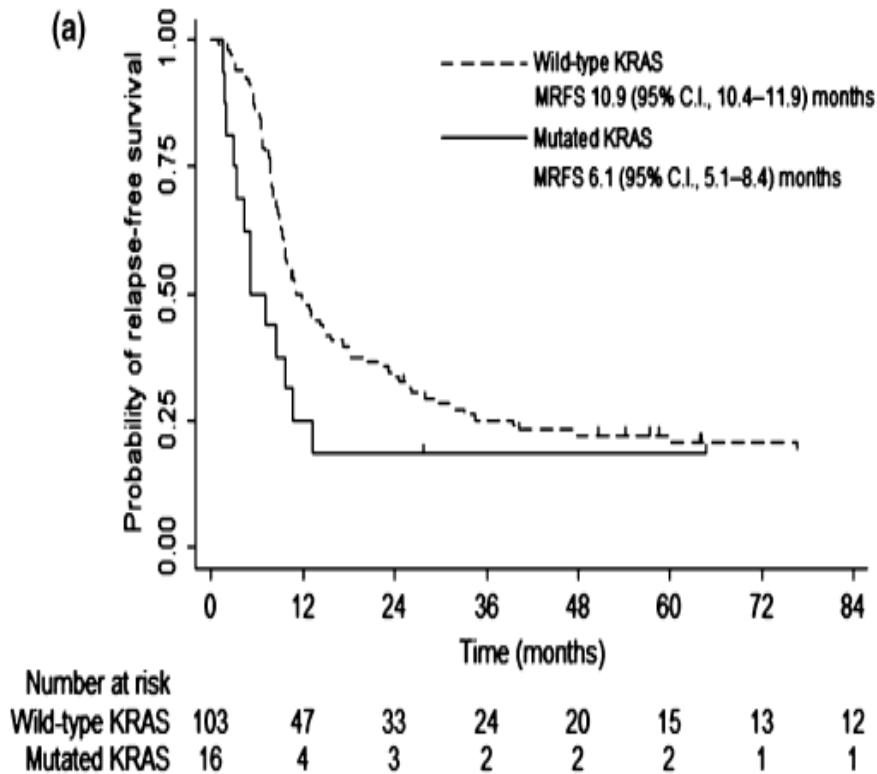
Shigehiro Yagishita,^{1,2} Hidehito Horinouchi,^{1,3} Kuniko S. Sunami,^{1,3,5} Shintaro Kanda,¹ Yutaka Fujiwara,¹ Hiroshi Nokihara,¹ Noboru Yamamoto,¹ Minako Sumi,⁴ Kouya Shiraishi,⁵ Takashi Kohno,⁵ Koh Furuta,⁶ Koji Tsuta,⁷ Tomohide Tamura¹ and Yuichiro Ohe^{1,3}

¹Department of Thoracic Oncology, National Cancer Center Hospital, Tokyo; ²Department of Respiratory Medicine, Juntendo University Graduate School of Medicine, Tokyo; ³Advanced Clinical Research of Cancer, Juntendo University Graduate School of Medicine, Tokyo; ⁴Department of Radiation Oncology, National Cancer Center Hospital, Tokyo; ⁵Division of Genome Biology, National Cancer Center Research Institute, Tokyo; Departments of ⁶Clinical Laboratories, Tokyo; ⁷Pathology, National Cancer Center Hospital, Tokyo, Japan

Overall results

- 119 patients were included in the analysis
- KRAS mutations were found at a frequency of 13%
- Patients with KRAS mutations had a shorter median relapse-free survival (6.1 vs 10.9 months) and a lower response rate (63% vs 81%)
- As for the first relapse site, patients with KRAS mutations had fewer local relapses (8% vs 23%) and more brain metastases (46% vs 12%)
- After disease progression, patients with KRAS mutations had a significantly shorter median survival post-progression (2.5 vs 7.3 months, $P = 0.028$) and median overall survival (15.1 vs 29.1 months, $P = 0.022$)

Median Relapse Free and Overall Survival



Brain metastases after definitive concurrent chemoradiotherapy in patients with stage III lung adenocarcinoma: carcinoembryonic antigen as a potential predictive factor

Horinouchi H et al. Cancer Sci. 2012 Apr;103(4):756-9.
doi: 10.1111/j1349-7006.2012.02217.x.

Overall results

- In total, 116 patients were identified with a median (range) age of 57 (35-74) years
- Of these, 86 (74%) were men, all patients had platinum-based chemotherapy, and 100 (86%) received a total dose of 60 Gy in 30 fractions as definitive thoracic radiotherapy
- 95 patients had disease progression or recurrence
 - 19 (16%) developed brain metastases as the sole site of initial recurrence
 - 43 (37%) patients developed brain metastases at some time during follow-up
- Time to brain metastases was associated with the pretreatment carcinoembryonic antigen (CEA) value, with a hazard ratio = 2.64 (C.I. 1.39-5.02; P = 0.003)

PCI in operable stage III NSCLC treated with neoadjuvant chemoRt

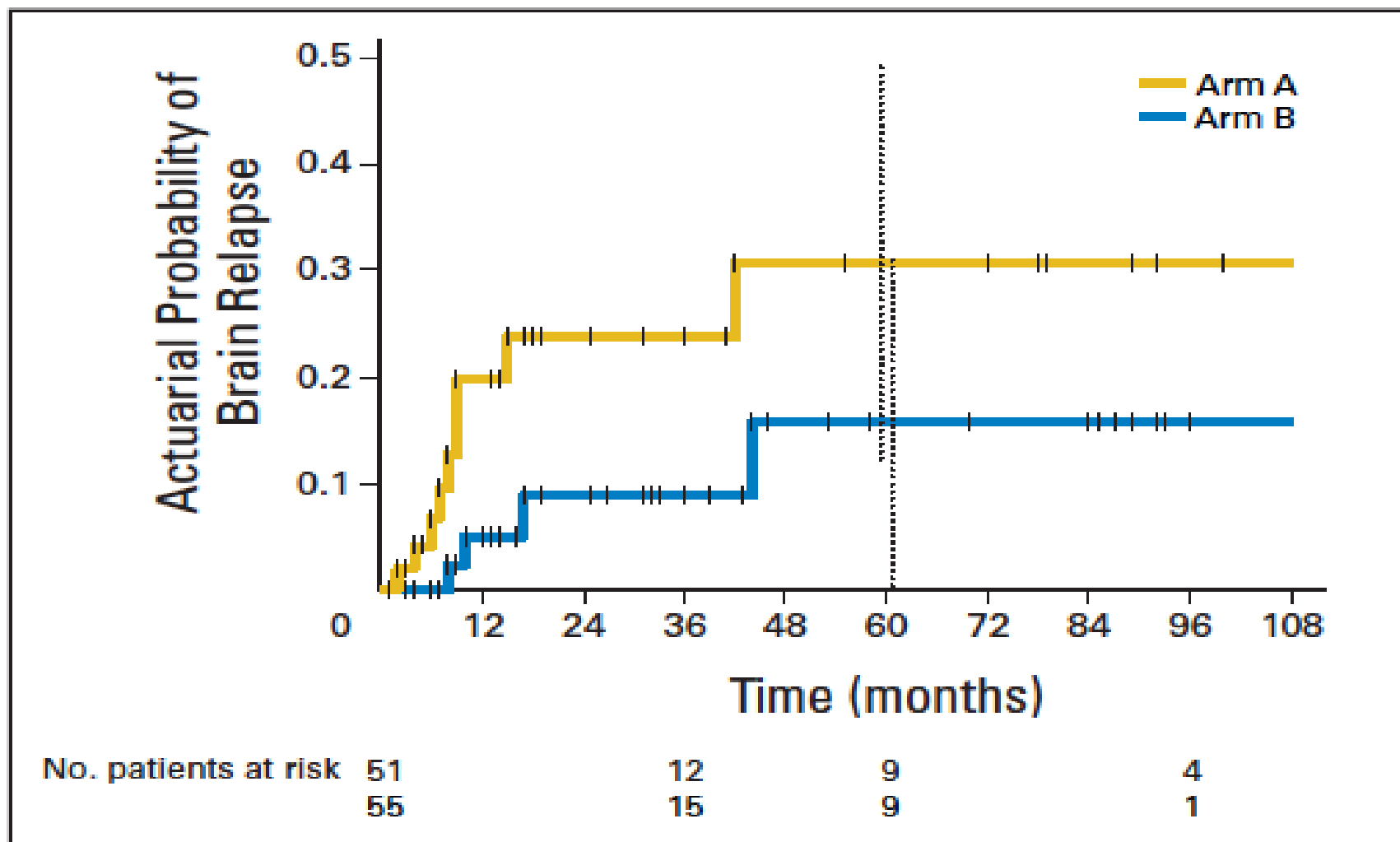
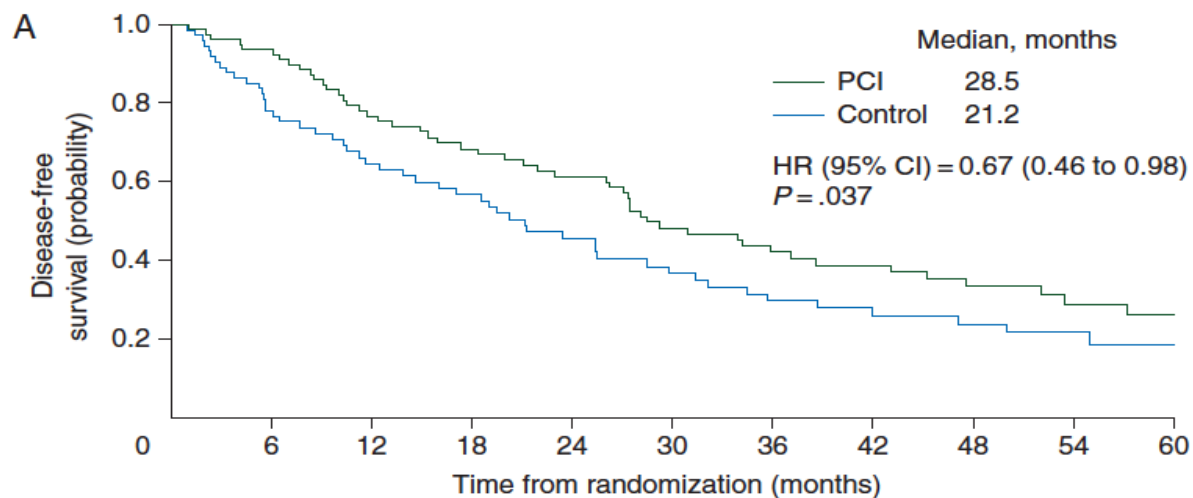


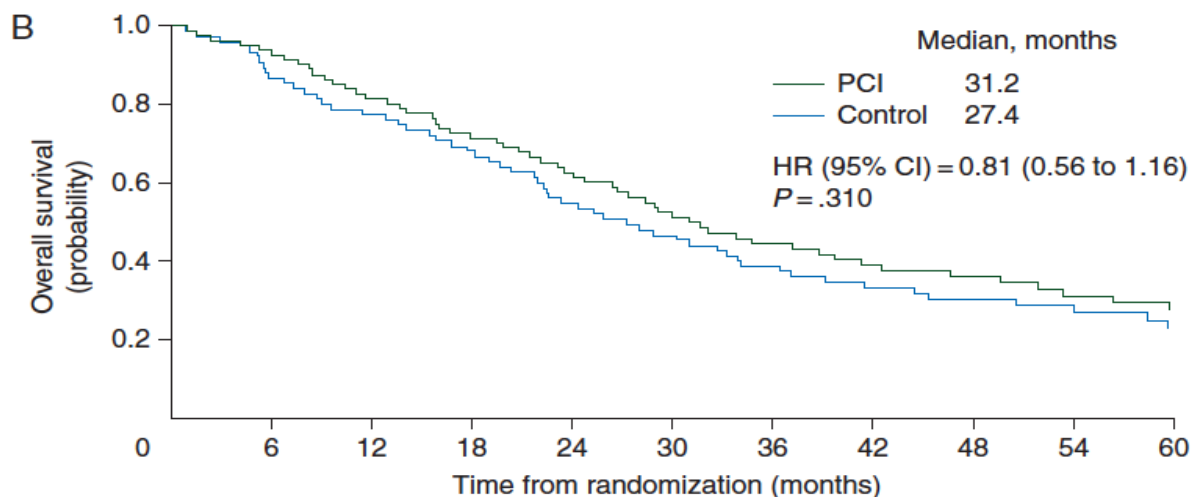
Fig 1. Actuarial probabilities of brain relapse at first site of failure by intent-to-treat analysis.

Results

- **PCI significantly reduced the probability of brain metastases as first site of failure (7.8% at 5 years v 34.7%; $P = .02$)**
- **the overall brain relapse rate was reduced comparably (9.1% at 5 years v 27.2%; $P = .04$)**
- **A slightly reduced neurocognitive performance in comparison with the age-matched normal population was found for patients in both treatment groups.**



| | | | | | | | | | | | |
|-------------|----|----|----|----|----|----|----|----|----|----|---|
| No. at risk | | | | | | | | | | | |
| PCI | 81 | 74 | 57 | 49 | 43 | 32 | 26 | 23 | 19 | 11 | 9 |
| Control | 75 | 56 | 41 | 36 | 26 | 21 | 17 | 13 | 11 | 8 | 6 |



| | | | | | | | | | | | |
|-------------|----|----|----|----|----|----|----|----|----|----|----|
| No. at risk | | | | | | | | | | | |
| PCI | 81 | 76 | 65 | 57 | 49 | 41 | 33 | 28 | 25 | 18 | 13 |
| Control | 75 | 65 | 58 | 51 | 41 | 35 | 29 | 23 | 20 | 15 | 12 |

Prophylactic Cranial Irradiation for Patients With Locally Advanced Non-Small-Cell Lung Cancer at High Risk for Brain Metastases

- **A seer database analysis of 17852 patients showed no evidence of an overall survival benefit for PCI in this setting**

Park HS, Decker RH, Wilson LD, Yu JB.
Clin Lung Cancer. 2015 Jul;16(4):292-7

Bevacizumab and pemetrexed versus pemetrexed alone as maintenance therapy for patients with advanced nonsquamous NSCLC:

Results of the expanded SAKK19/09 trial

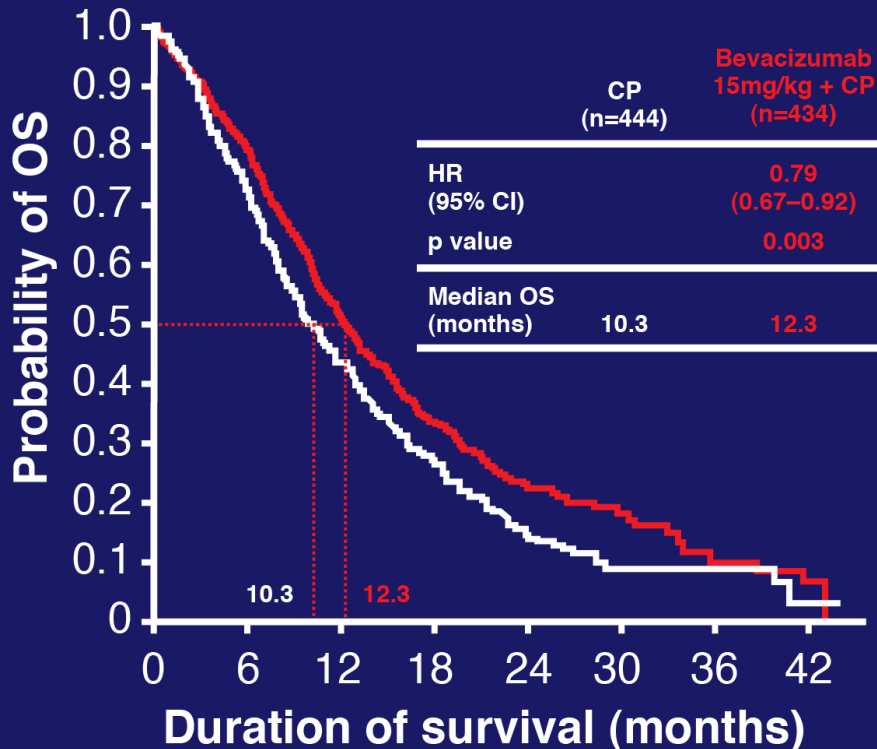
Gautschi O, Li Q, Matter-Walstra K, Betticher D, Früh M, Rauch D, Pless M, Froesch P, Mach N, Ochsenbein AF; on behalf of the SAKK

Targeting VEGF can improve survival

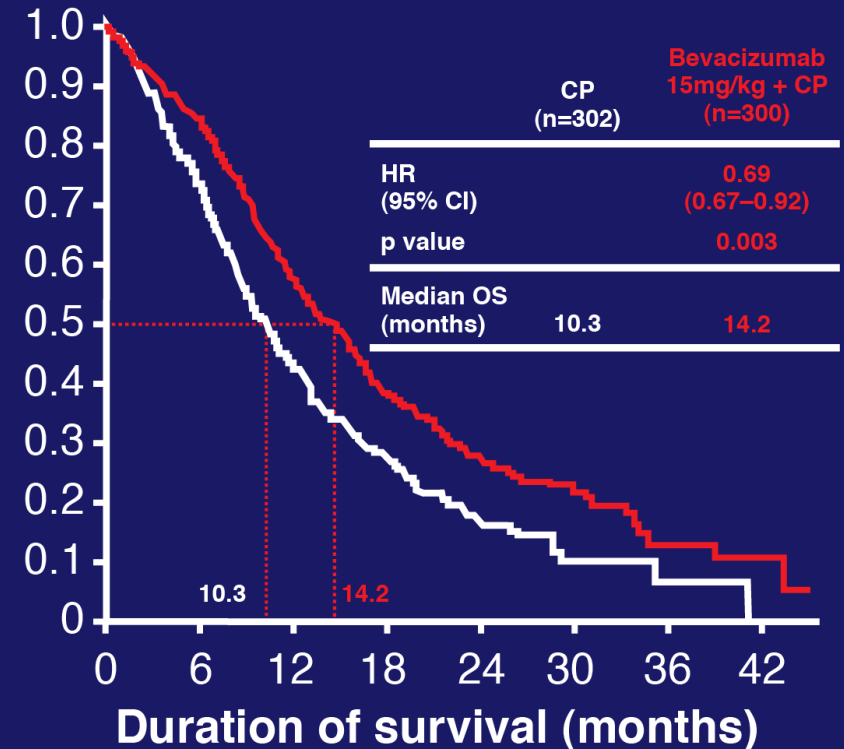
**E4599: 1st line paclitaxel/carboplatin
+/- bevacizumab in nonsquamous**

E4599: adenocarcinoma subset

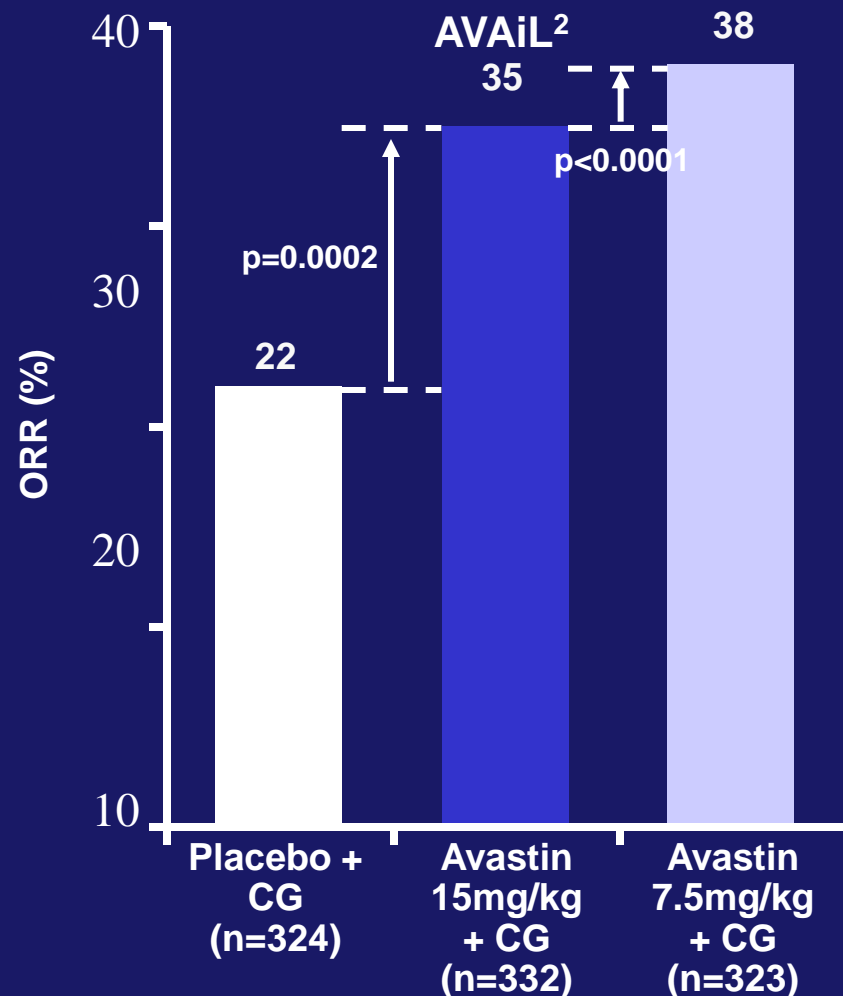
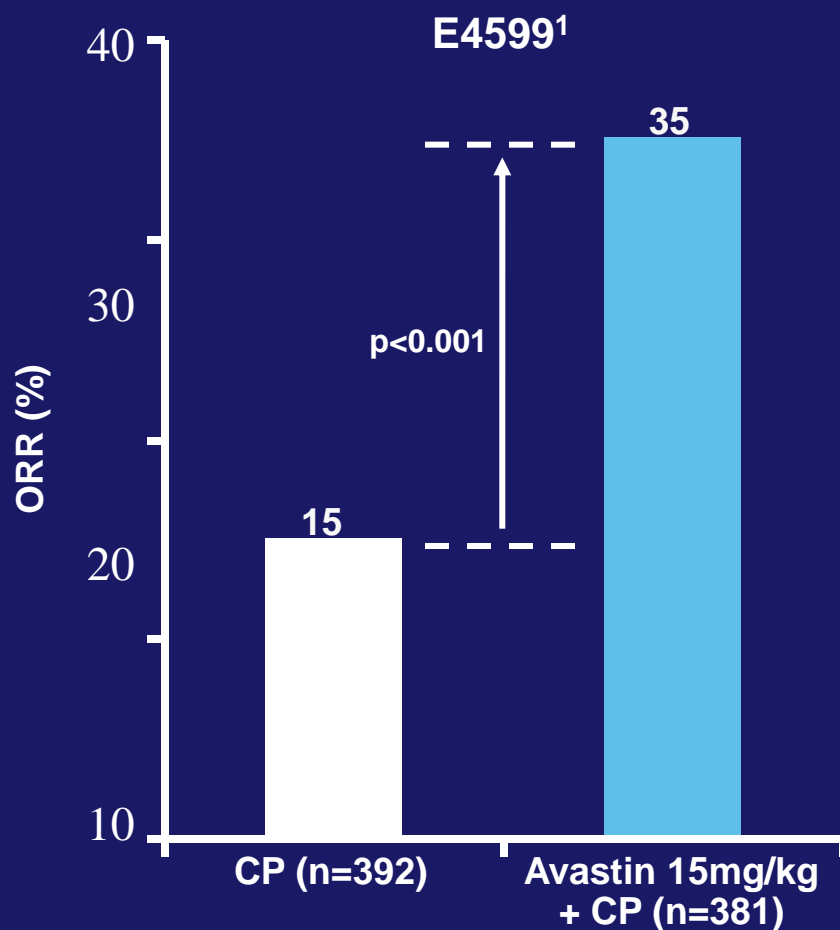
E4599 overall patient population



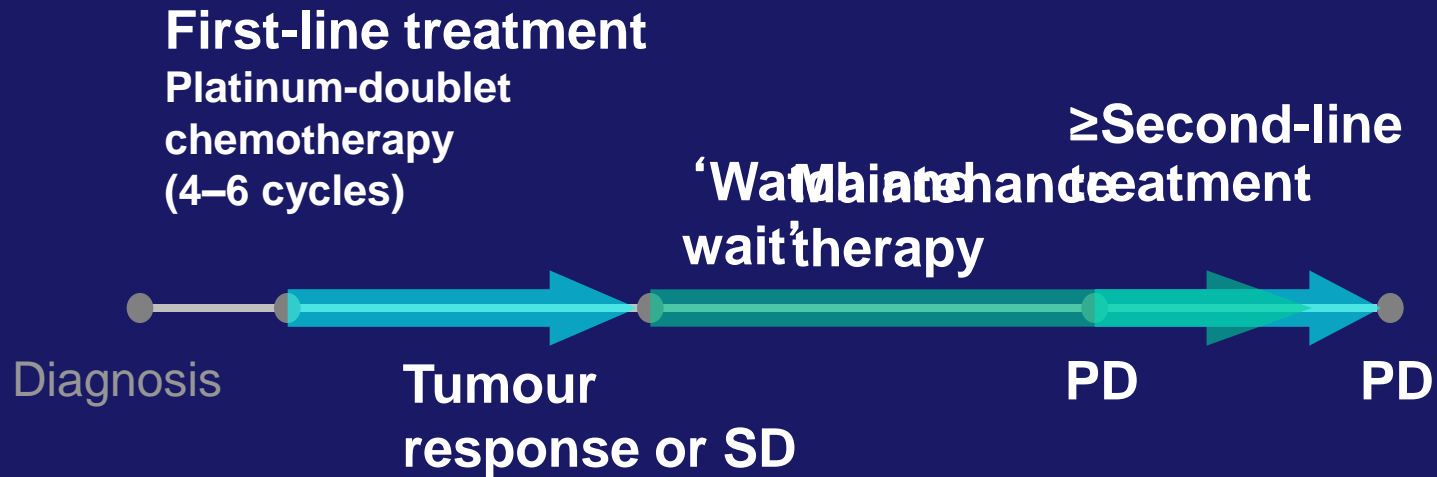
Adenocarcinoma (n=602)



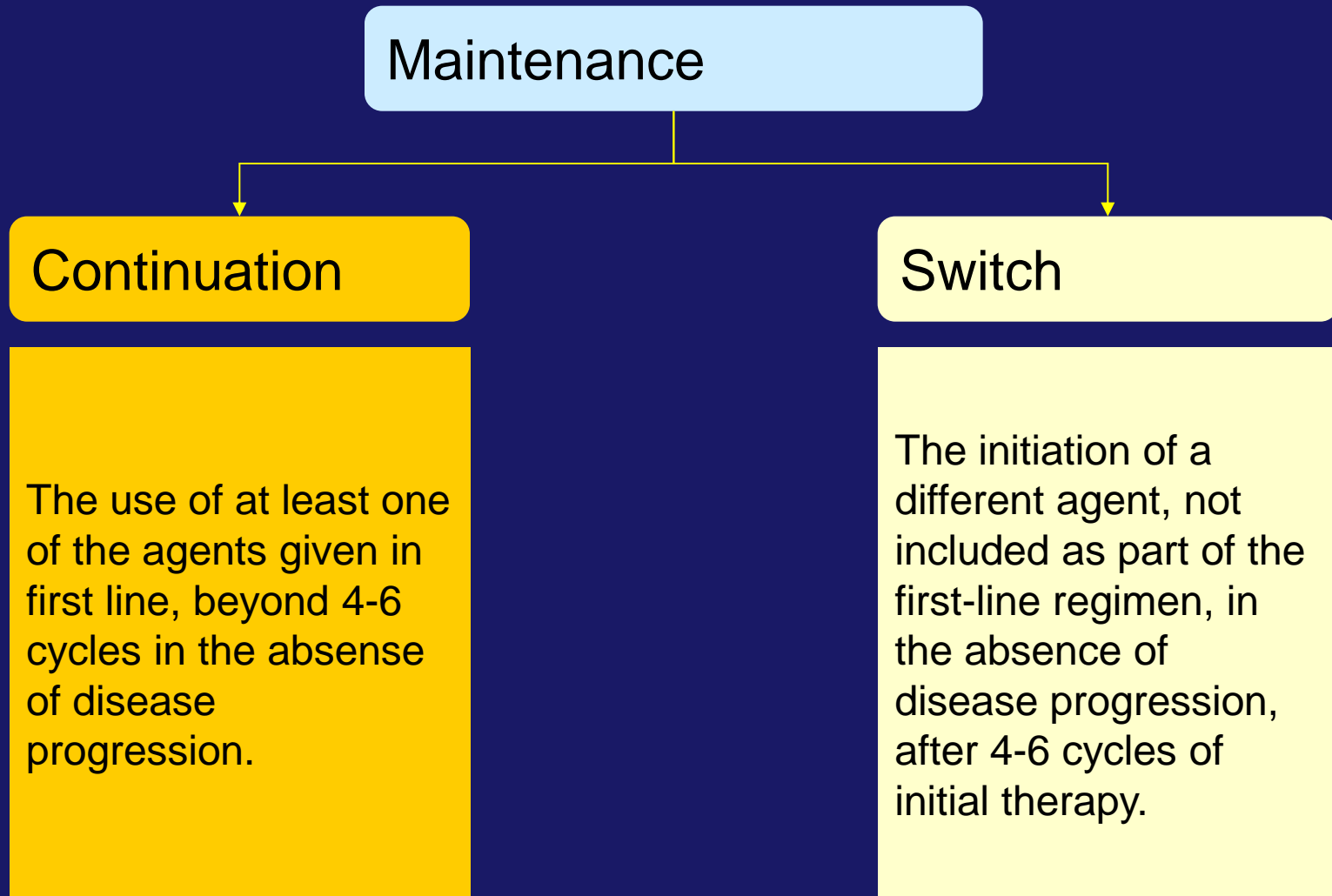
Bevacizumab and Chemotherapy: Consistent increase in ORR



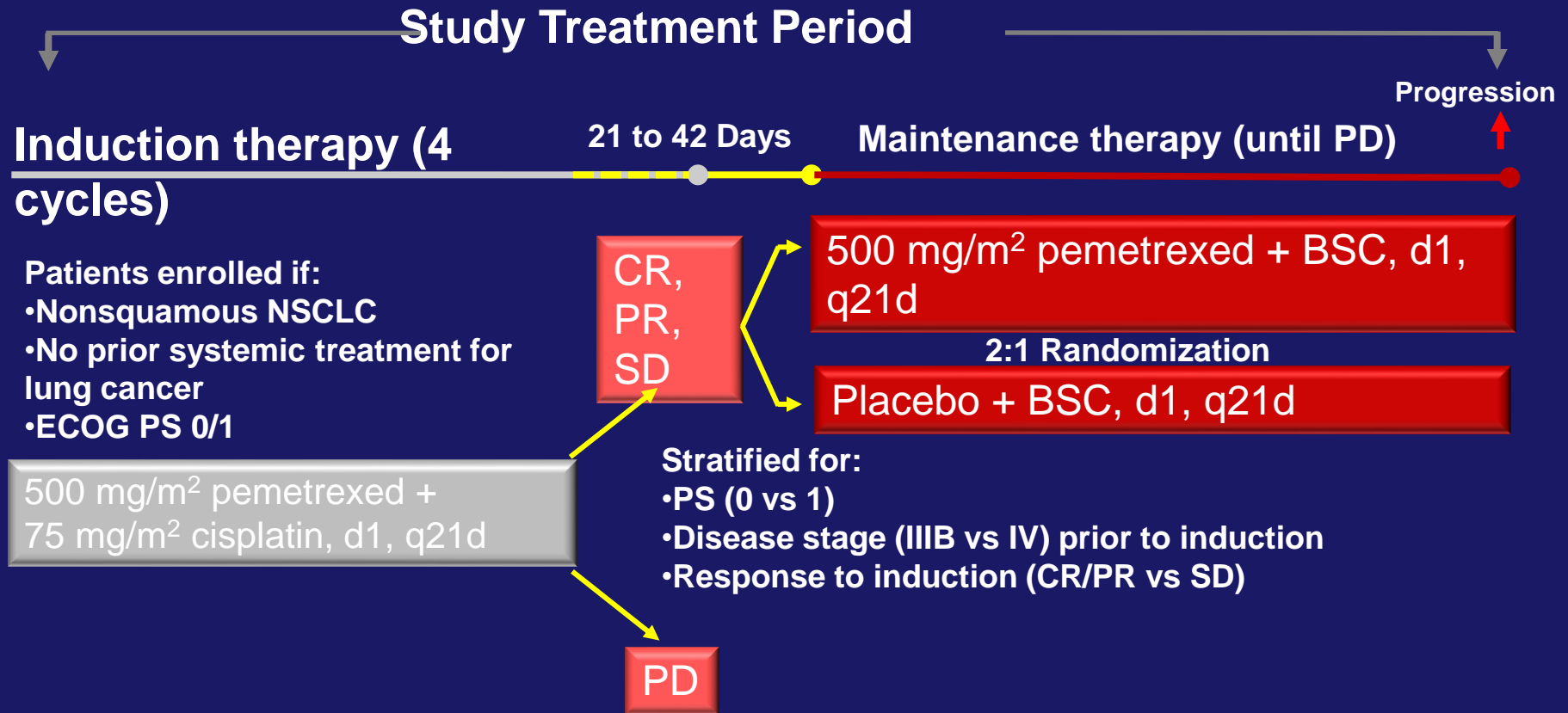
Historical approach to NSCLC



Maintenance therapy: Classification and Definition

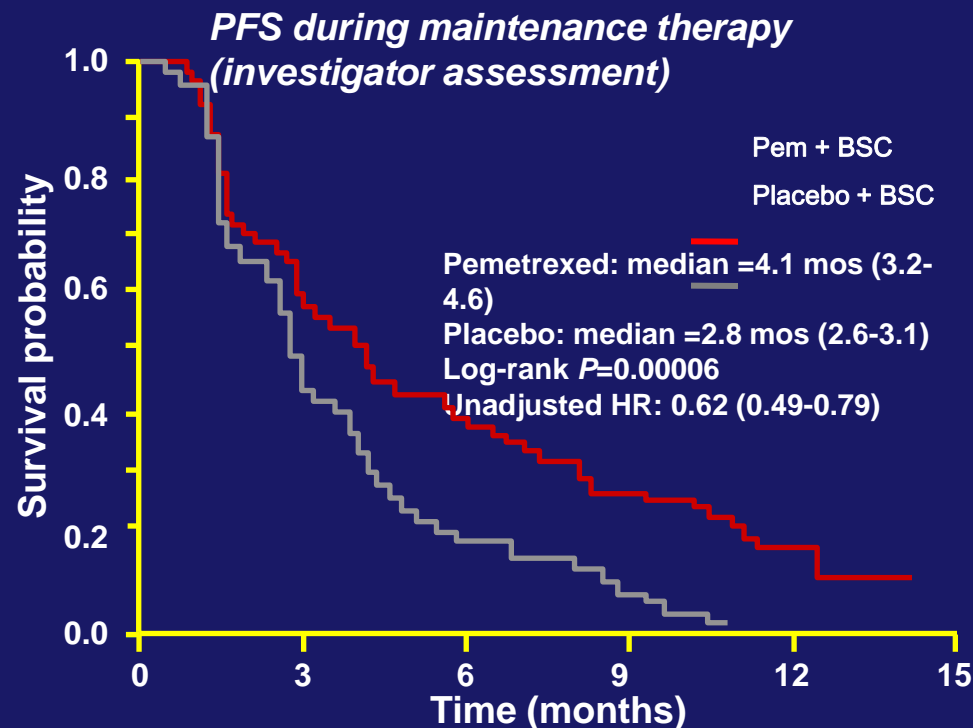


PARAMOUNT: study design



- Randomized, placebo-controlled, double-blind, phase III study
- Folic acid and vitamin B12 administered to both arms
- Objectives: primary : PFS; secondary: OS, RR, PRO, resource utilization, AEs

PARAMOUNT: efficacy



| PFS | Pemetrexed (n=359) | Placebo (n=180) |
|------------------------------|-----------------------|--------------------|
| Investigator-assessed events | 184 (51%) | 118 (66%) |
| Progression events | 173 (94%) | 113 (96%) |
| Deaths | 11 (6%) | 5 (4%) |

PFS (investigator assessment)

- PFS in all subgroups (stage, induction response, pre-randomization PS, smoking status, age, sex histology) favoured pemetrexed treatment
- PFS from induction: 6.90 (pemetrexed) vs 5.59 months (placebo), HR 0.59 (0.47-0.74), $p<0.0001$

PFS during maintenance therapy (independent assessment):

- 88% patients independently reviewed
- Median PFS: 3.9 (pemetrexed) vs 2.6 months (placebo), HR 0.64 (0.51-0.81), $p=0.0002$

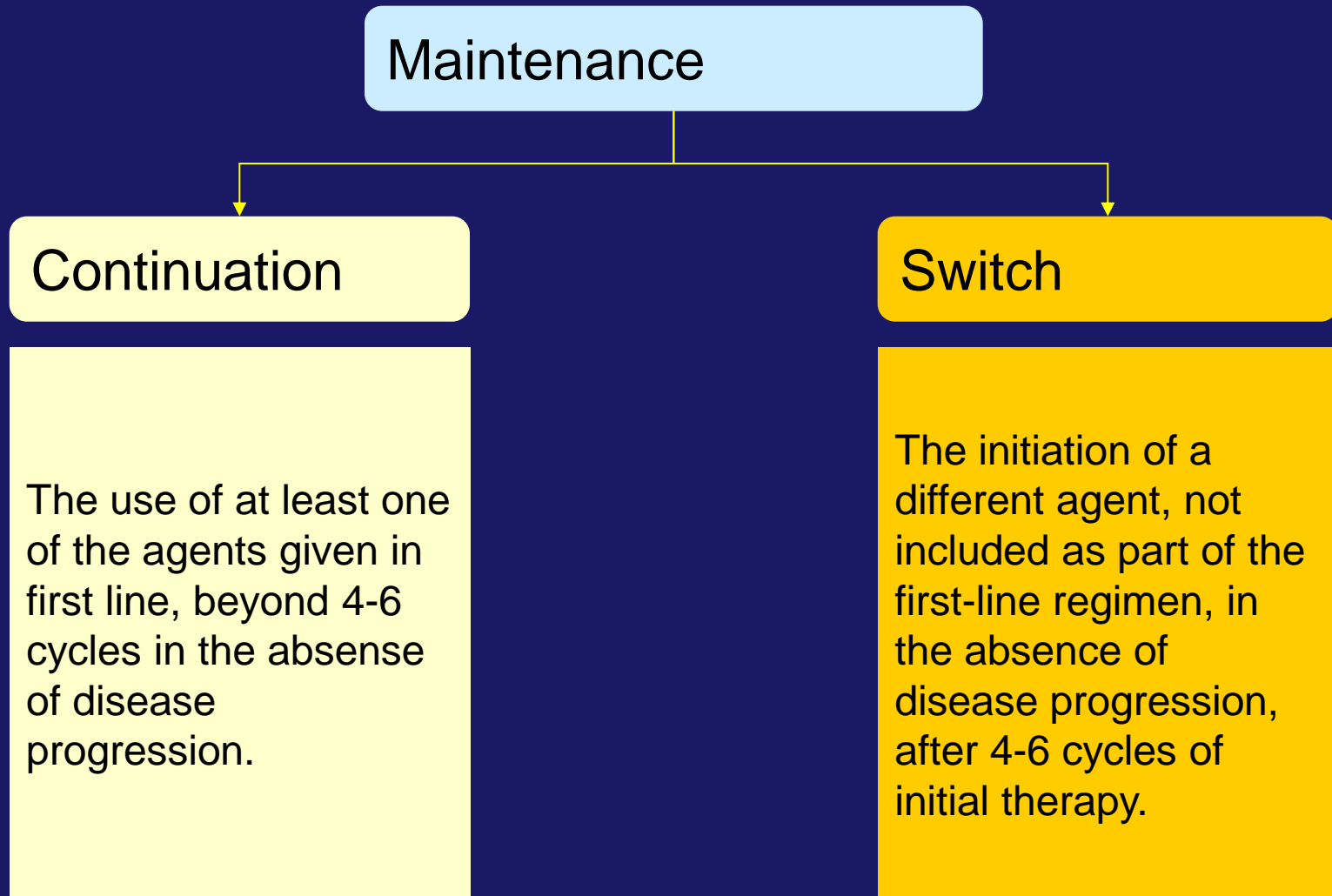
Response to maintenance therapy (independent assessment):

- RR: 2.8% (pemetrexed) vs 0.6% (placebo), $p=0.176$
- DCR: 71.8% (pemetrexed) vs 59.6% (placebo), $p=0.009$

PRO:

- No statistical differences in EQ-5D index score or visual analogue scale observed between treatment groups

Maintenance therapy: Classification and Definition



Switch Maintenance: Overview of Chemotherapy Clinical Trials

Efficacy Summary

| Study | Maintenance | Median TTP/PFS | Median OS |
|----------------------------|--|-------------------------------|---------------------------------|
| Westeel 2005 ¹ | Vinorelbine 25mg/m ² /w × 6m vs. Observation | 5m vs. 3m (p=0.11) | 12.3m vs. 12.3m (p=0.48) |
| Fidias 2008 ² | Immediate docetaxel 75mg/m ² q3w × 6 cycles) vs. delayed docetaxel 75mg/m ² q3w at first PD | 5.7m vs. 2.7m (p<0.001) | 12.3m vs. 9.7m (p=0.0853) |
| Ciuleanu 2009 ² | ALIMTA® 500mg/m ² q3w+BSC vs. BSC | 4.0m vs. 2.0m (p<0.001) | 13.4m vs. 10.6m (p=0.012) |

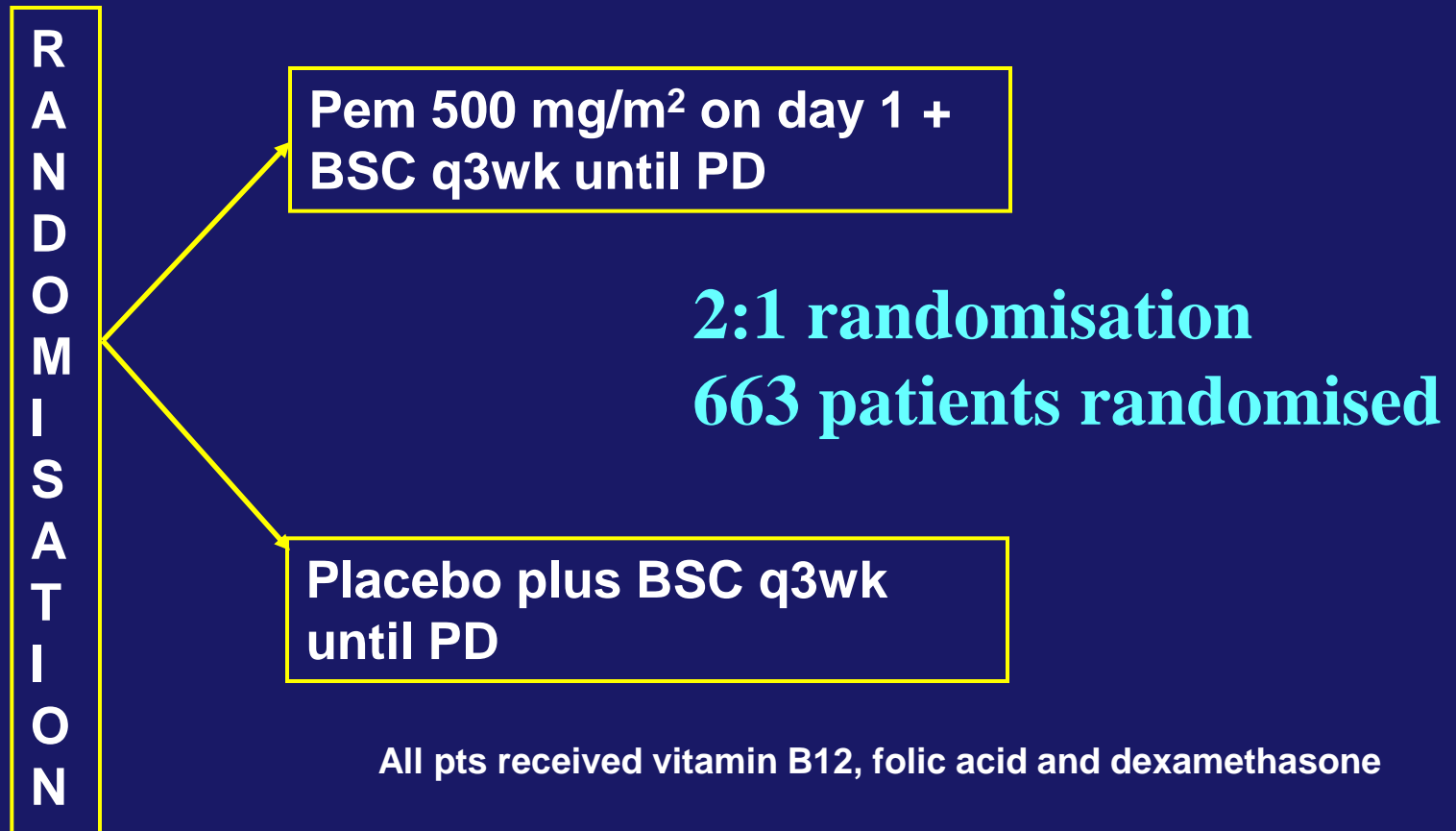
1. Westeel V, et al. J Natl Cancer Inst 2005;97:499-506.

2. Fidias P and Novello S. J Clin Oncol 2010; 28:5116-5123.

NSCLC: Maintenance treatment

Maintenance Pem plus BSC vs placebo plus BSC

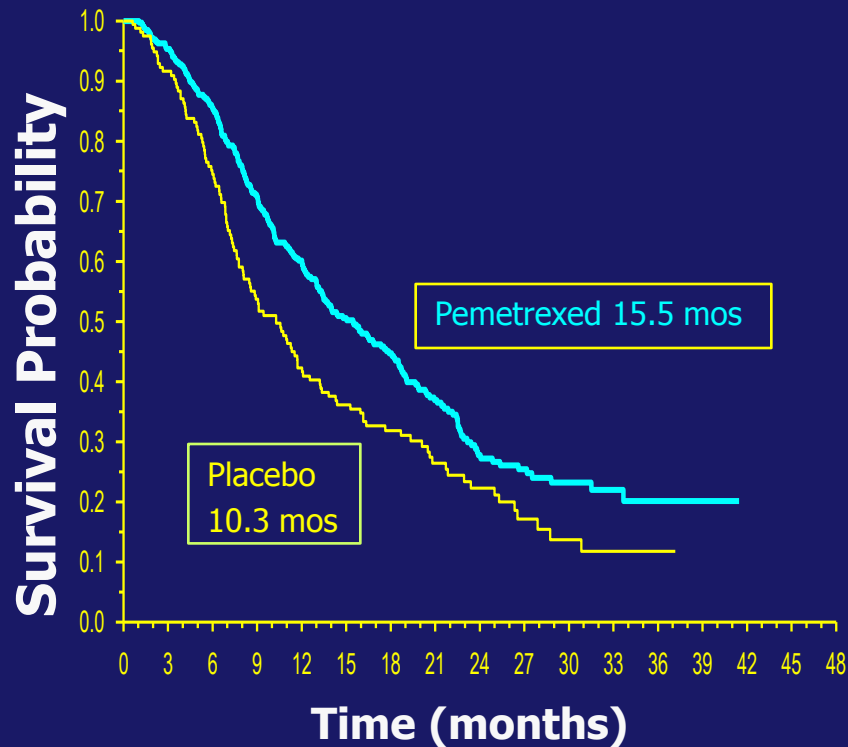
- Design



Overall Survival by Histology

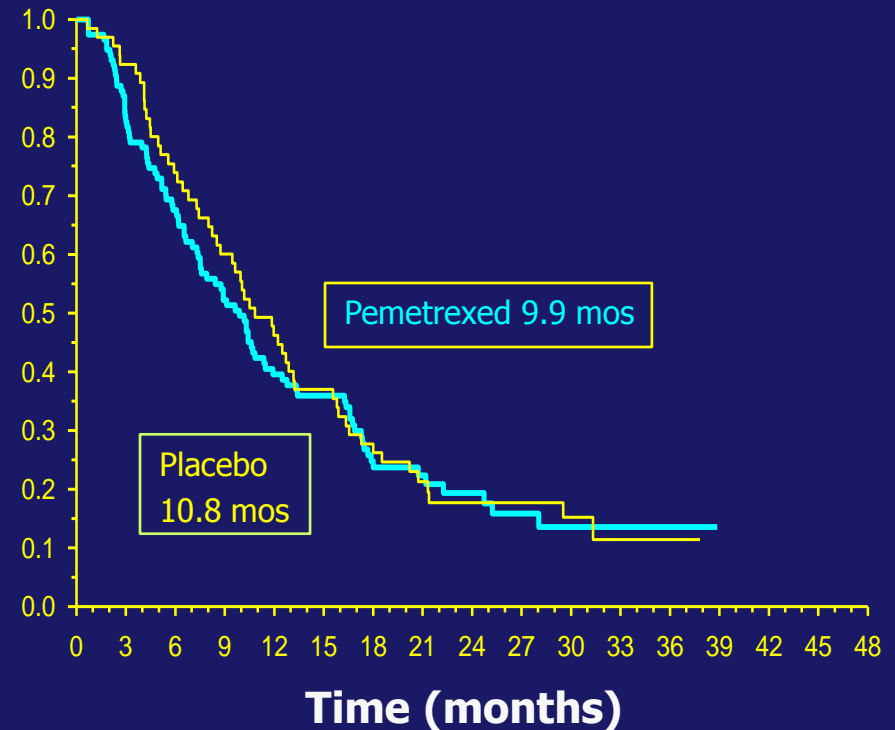
Non-squamous (n=481)

HR=0.70 (95% CI: 0.56-0.88)
***P*=0.002**



Squamous (n=182)

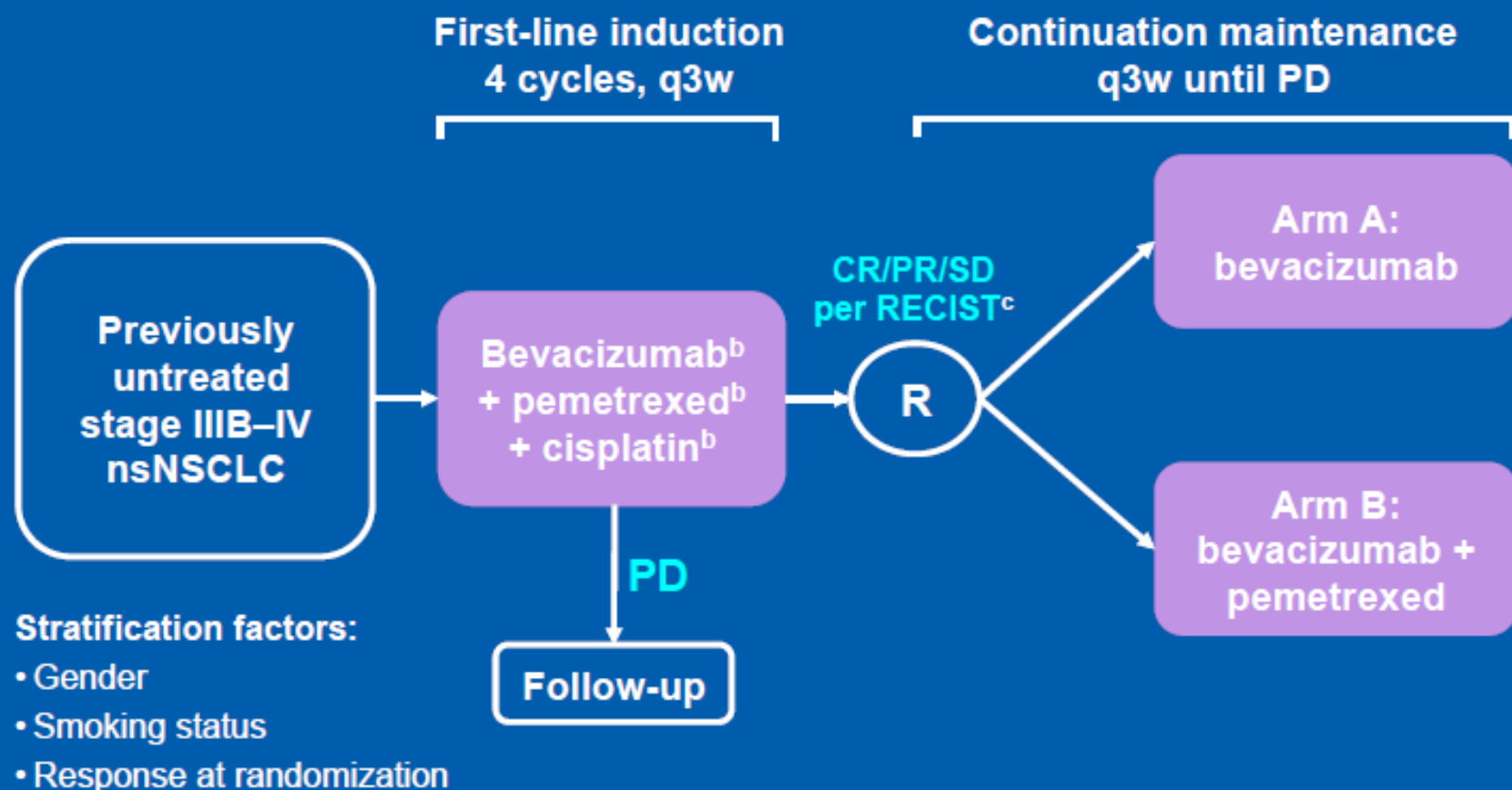
HR=1.07 (95% CI: 0.49-0.73)
***P*=0.678**



PRONOUNCE: randomized, open-label, phase III study of first-line pemetrexed + carboplatin followed by maintenance pemetrexed versus paclitaxel + carboplatin + bevacizumab followed by maintenance bevacizumab in patients with advanced nonsquamous non-small-cell lung cancer

- PFS, OS, ORR, or DCR did not differ significantly between the arms

AVAPERL trial design^a



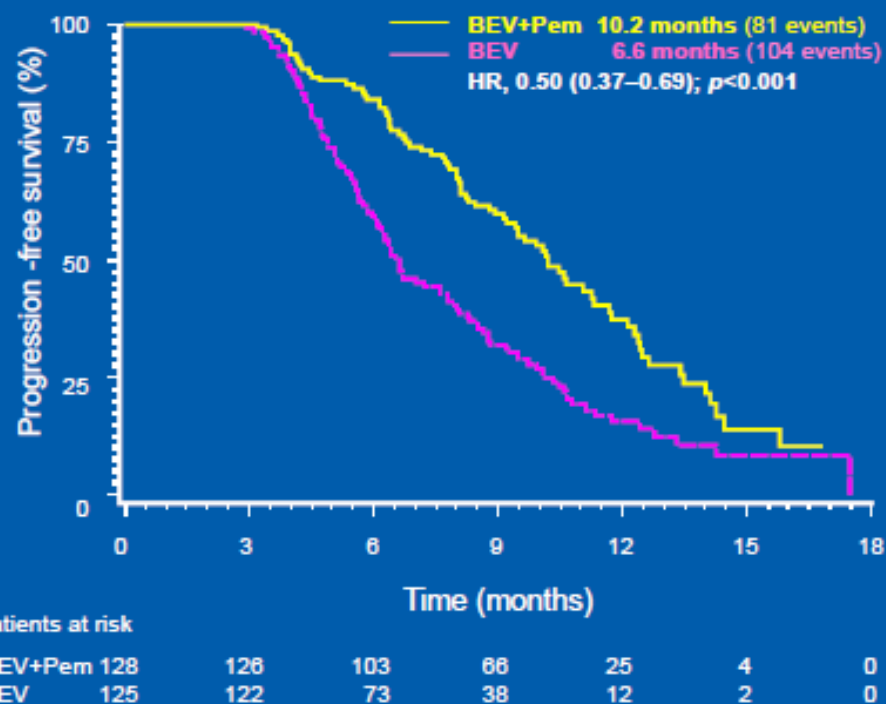
nsNSCLC, nonsquamous non-small cell lung cancer

^aRandomized, open-label, phase III study; ^bDose of bevacizumab = 7.5 mg/kg; dose of pemetrexed = 500 mg/m²; dose of cisplatin = 75 mg/m².

RECIST-related end points measured from the preinduction phase

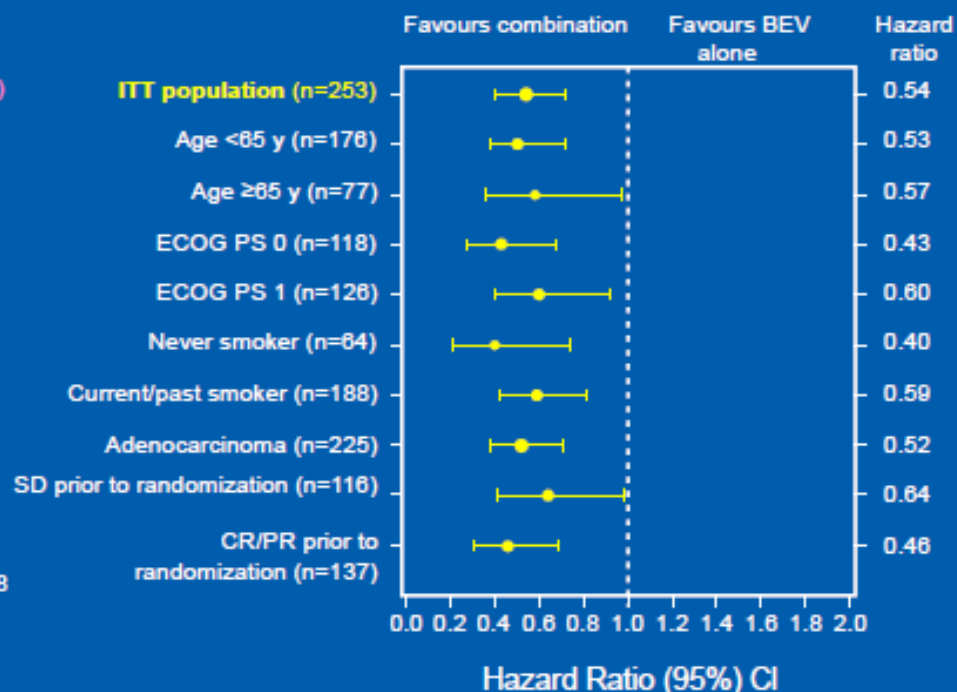
Key results

PFS from induction^a



^a Randomized patients, intent-to-treat population

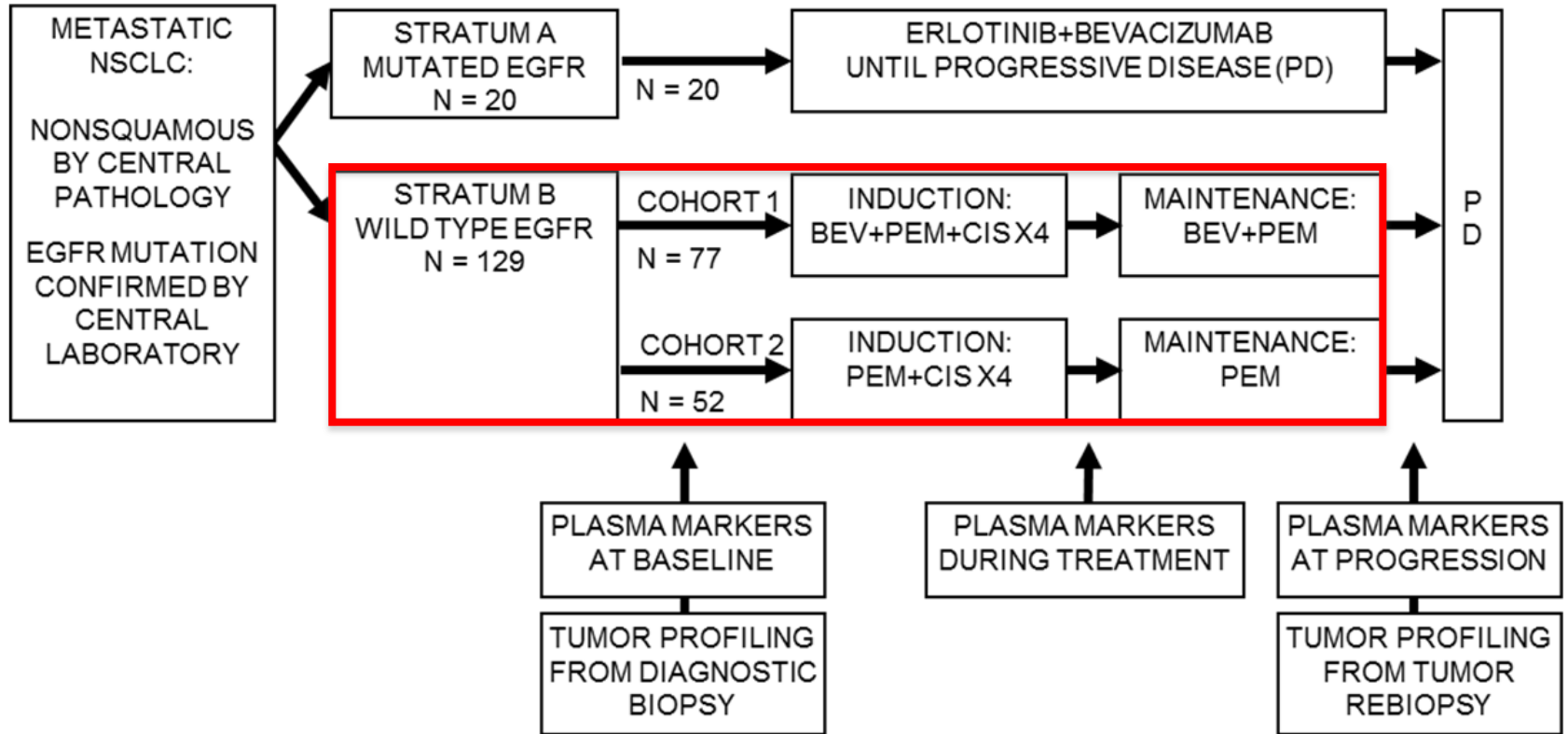
PFS subgroup analysis



Pem + BEV maintenance treatment was associated with a marked increase in PFS over BEV alone

Positive effect on PFS was observed in all subgroups studied

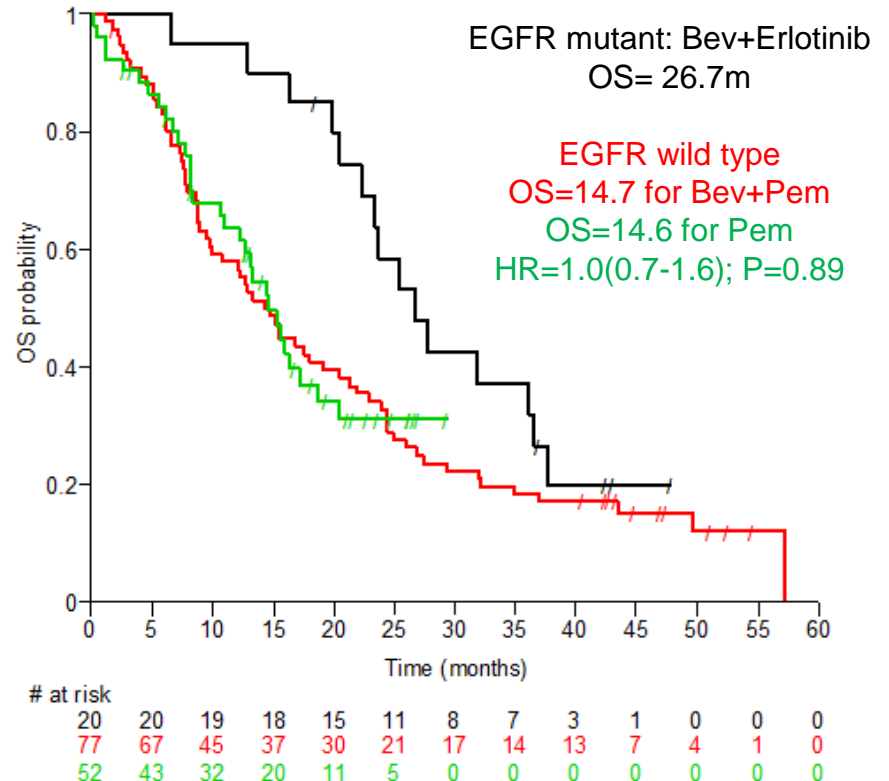
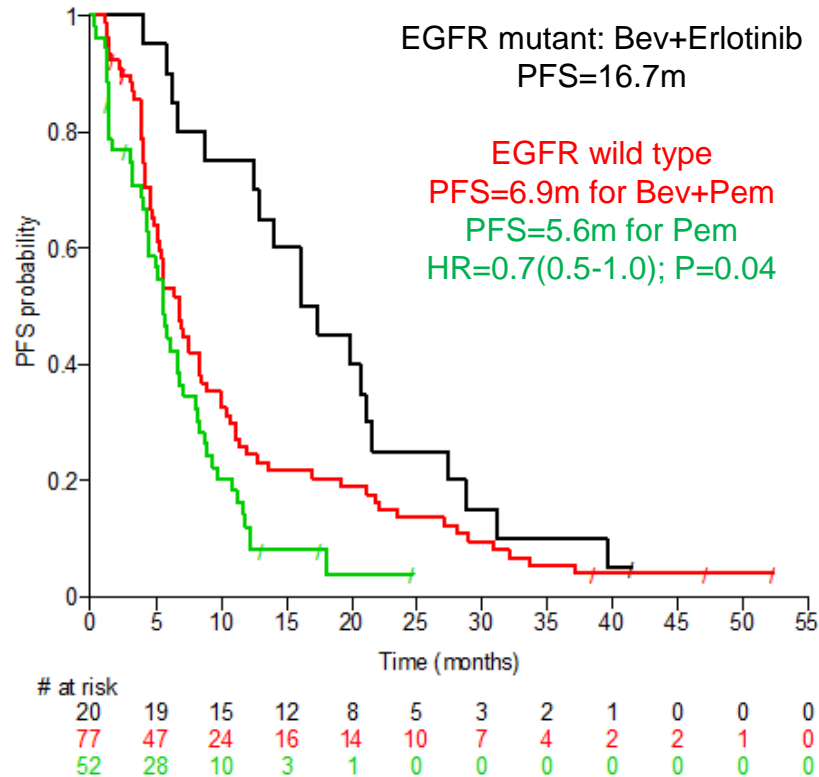
SAKK 19/09 Trial Overview



Aims and Methods

- Efficacy analysis of new cohort 2 (Pem alone)
- Comparison with updated cohort 1 (Bev+Pem; Gautschi, Clin Lung Cancer 2015)
- Identical population, Pem dose and follow up
- Primary endpoint: PFS by RECIST1.1
- Further outcomes of interest: survival, response, adverse effects, treatment costs

Main Results



Conclusions

- Maintenance therapy with Bev+Pem increased PFS, but not OS, compared with Pem alone
- Treatment costs per month were \$10,226 with Bev+Pem and \$6,251 with Pem alone
- Translational research is ongoing, using rebiopsies at progression
- The ongoing ECOG 5508 phase III trial compares Bev versus Pem versus Bev+Pem (OS as primary endpoint)



3-20

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**"I hooked a real big one but it kept
swimming around the boat."**

nab-Paclitaxel + Carboplatin (*nab*-P/C) in Advanced Non-small Cell Lung Cancer (NSCLC): Outcomes in Elderly Patients (pts) With Squamous (SCC) Histology

Cesare Gridelli, Tianlei Chen, Amy Ko, Mary O' Brien,
Teng Jin Ong, Mark A. Socinski, Pieter E. Postmus

**Carboplatin and weekly paclitaxel
doublet chemotherapy compared with
monotherapy in elderly patients with
advanced non-small-cell lung cancer:
IFCT-0501 randomised, phase 3 trial.**

Quoix E et al, Lancet. 2011 Sep 17;378(9796):1079-88. doi: 10.1016/S

Overall results

- 226 enrolled patients were randomly assigned monotherapy and 225 doublet chemotherapy
- Median age was 77 years and median follow-up was 30.3 months (range 8.6-45.2)
- Median overall survival was 10.3 months for doublet chemotherapy and 6.2 months for monotherapy (hazard ratio 0.64, 95% CI 0.52-0.78; $p < 0.0001$)
 - 1-year survival was 44.5% (95% CI 37.9-50.9) and 25.4% (19.9-31.3), respectively
 - Toxic effects were more frequent in the doublet chemotherapy group than in the monotherapy group (most frequent, decreased neutrophil count (108 [48.4%] vs 28 [12.4%]; asthenia 23 [10.3%] vs 13 [5.8%])

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ORIGINAL REPORT

Weekly *nab*-Paclitaxel in Combination With Carboplatin Versus Solvent-Based Paclitaxel Plus Carboplatin as First-Line Therapy in Patients With Advanced Non–Small-Cell Lung Cancer: Final Results of a Phase III Trial

Mark A. Socinski, Igor Bondarenko, Nina A. Karaseva, Anatoly M. Makhson, Igor Vynnychenko, Isamu Okamoto, Jeremy K. Hon, Vera Hirsh, Paul Bhar, Hui Zhang, Jose L. Iglesias, and Markus F. Renschler

Overall response rate: Primary end-point of the study

Table 2. Response Rates for the Intent-to-Treat Population and Histologic Subset Based on Independent Radiologic Assessment

| Response Rates | <i>nab</i> -PC | | | sb-PC | | | Response Rate Ratio* | 95% CI | Pt |
|---------------------|----------------|----|--------------|---------|-----|--------------|----------------------|----------------|--------|
| | No. | % | 95% CI | No. | % | 95% CI | | | |
| | n = 521 | | | n = 531 | | | | | |
| Intent-to-treat | | | | | | | | | |
| Overall response | 170 | 33 | 28.6 to 36.7 | 132 | 25 | 21.2 to 28.5 | 1.313 | 1.082 to 1.593 | .005 |
| Complete response | 0 | | | 1 | < 1 | | | | |
| Partial response | 170 | 33 | | 131 | 25 | | | | |
| Stable disease† | 104 | 20 | | 128 | 24 | | | | |
| Progressive disease | 83 | 16 | | 84 | 16 | | | | |
| | n = 229 | | | n = 221 | | | | | |
| Squamous subset | | | | | | | | | |
| Overall response | 94 | 41 | 34.7 to 47.4 | 54 | 24 | 18.8 to 30.1 | 1.680 | 1.271 to 2.221 | < .001 |
| | n = 292 | | | n = 310 | | | | | |
| Nonsquamous subset | | | | | | | | | |
| Overall response | 76 | 26 | 21.0 to 31.1 | 78 | 25 | 20.3 to 30.0 | 1.034 | 0.788 to 1.358 | .808 |

NOTE: The Hommel procedure was used to adjust for the three comparisons related to tumor response (overall populations and two histology subgroups).²² The treatment and histology interaction was based on logistic regression.

Abbreviations: nab-PC, 130-nm albumin-bound paclitaxel + carboplatin; sb-PC, solvent-based paclitaxel + carboplatin.

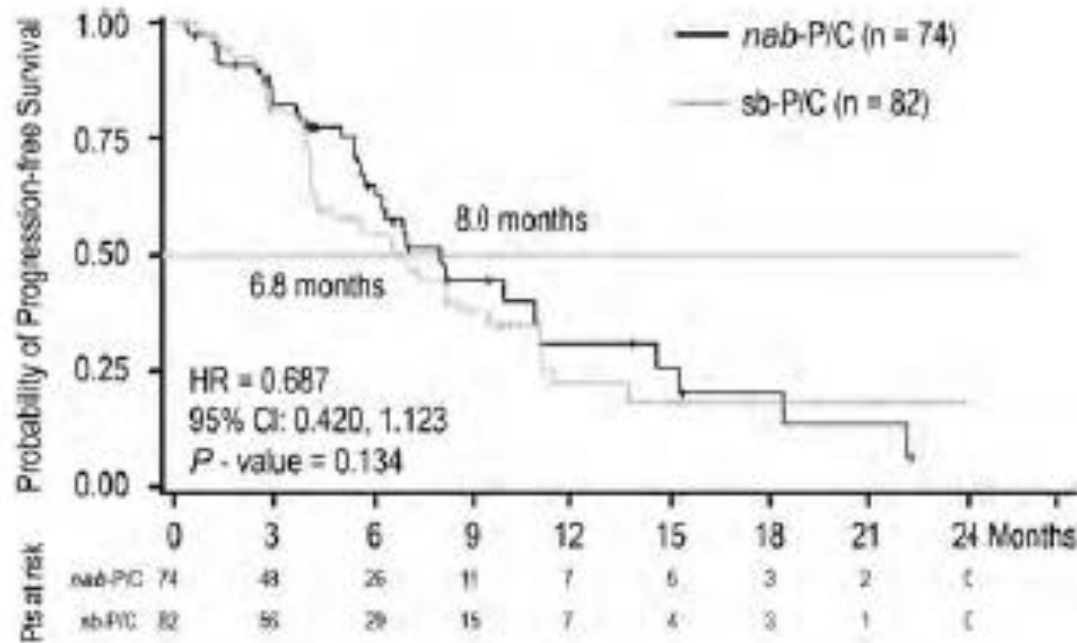
*95% CIs for response rate ratios are calculated according to the asymptotic 95% CI of the relative risk of *nab*-PC to sb-PC.

†P values are based on the χ^2 test.

‡Stable disease was defined as ≥ 16 weeks.

Safety and efficacy of weekly *nab*[®]-paclitaxel in combination with carboplatin as first-line therapy in elderly patients with advanced non-small-cell lung cancer

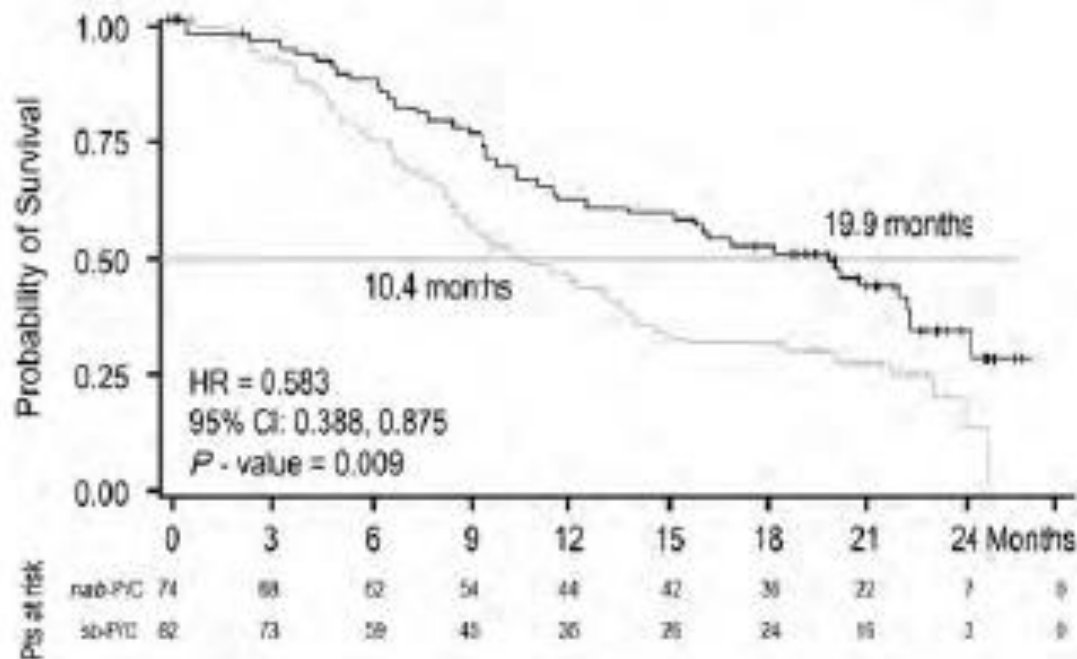
M. A. Socinski¹, C. J. Langer², I. Okamoto³, J. K. Hon⁴, V. Hirsh⁵, S. R. Dakhil⁶, R. D. Page⁷, J. Orsini⁸, H. Zhang⁹ & M. F. Renschler⁹



Kaplan–Meier curves in the elderly population:

(a)PFS (top) with 8.0 and 6.8 median months in the nab-P/C versus sb-P/C arms, respectively

(b) OS (bottom) with 19.9 and 10.4 median months in the nab-P/C versus sb-P/C arms, respectively



nab-P/C, 130-nm albumin-bound paclitaxel + carboplatin; sb-P/C, solvent-based paclitaxel + carboplatin

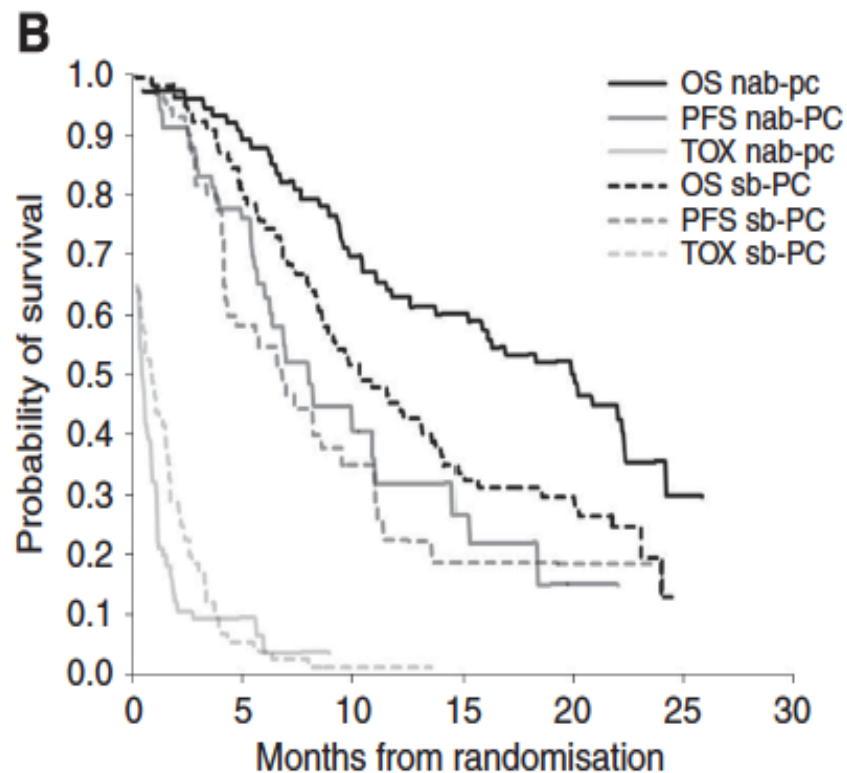
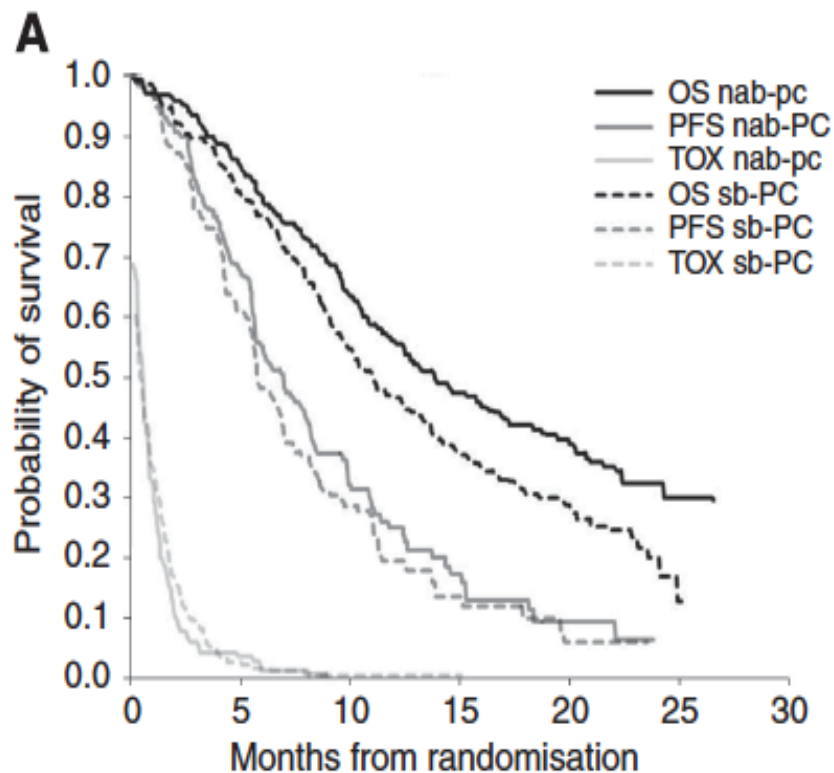
Survival, quality-adjusted survival, and other clinical end points in older advanced non-small-cell lung cancer patients treated with albumin-bound paclitaxel

C J Langer¹, V Hirsh², I Okamoto³, F-J Lin⁴, Y Wan⁴, S Whiting⁵, T J Ong⁵, M F Renschler⁵ and M F Botteman^{*,4}

¹Abramson Cancer Center, University of Pennsylvania, Philadelphia, PA, USA; ²Department of Oncology, McGill University, Montreal, Quebec, Canada; ³Department of Medical Oncology, Kinki University, Osaka-Sayama, Japan; ⁴Pharmerit International, Bethesda, MD, USA and ⁵Celgene Corporation, Summit, NJ, USA

Overall results

- Among patients aged ≥ 60 years (N=546), nab-PC (N=265) significantly increased ORR and prolonged OS, despite a non-significant improvement in PFS, vs sb-PC (N=281).
- Nab-PC improved QoL
 - less neuropathy, arthralgia, and myalgia
 - more anaemia and thrombocytopenia
- Nab-PC yielded significant Q-TWiST (quality adjusted time without symptoms or toxicity) benefits (11.1 vs 9.8 months; 95% CI of gain: 0.2-2.6), with a relative Q-TWiST gain of 10.8% (6.4% to 15.1% in threshold analysis)
- In the ≥ 70 years age group, nab-PC showed
 - similar, non-significant, ORR, PFS, and Q-TWiST benefits
 - significantly improved OS and QoL.



Partitioned survival plots (A) in patients > 60 years and (B) in patients > 70 years.

Efficacy Summary in Patients With SCC NSCLC by Age

| Outcome by Age | ≥ 70 Years | | ≥ 65 Years | | ≥ 60 Years | |
|--|--------------------------------|---------------|--------------------------------|---------------|--------------------------------|----------------|
| | <i>nab</i> -P/C n = 35 | P/C n = 30 | <i>nab</i> -P/C n = 67 | P/C n = 70 | <i>nab</i> -P/C n = 106 | P/C n = 110 |
| Overall Response Rate, % | 46 | 20 | 46 | 26 | 45 | 25 |
| Ratio of ORR (95% CI) <i>P</i> value | 2.286 (1.025 - 5.095) 0.029 | | 1.799 (1.120 - 8.892) 0.012 | | 1.845 (1.251 - 2.721) 0.001 | |
| Median Overall Survival, months | 16.9 | 8.6 | 13.9 | 9.4 | 11.8 | 9.5 |
| Hazard ratio (95% CI) <i>P</i> value | 0.50 (0.275 - 0.896) 0.018 | | 0.62 (0.411 - 0.928) 0.019 | | 0.70 (0.510 - 0.961) 0.027 | |
| Median Progression-Free Survival, months | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| Hazard ratio (95% CI) <i>P</i> value | 0.68 (0.347 - 1.339) 0.267 | | 0.70 (0.443 - 1.102) 0.120 | | 0.71 (0.499 - 1.014) 0.058 | |

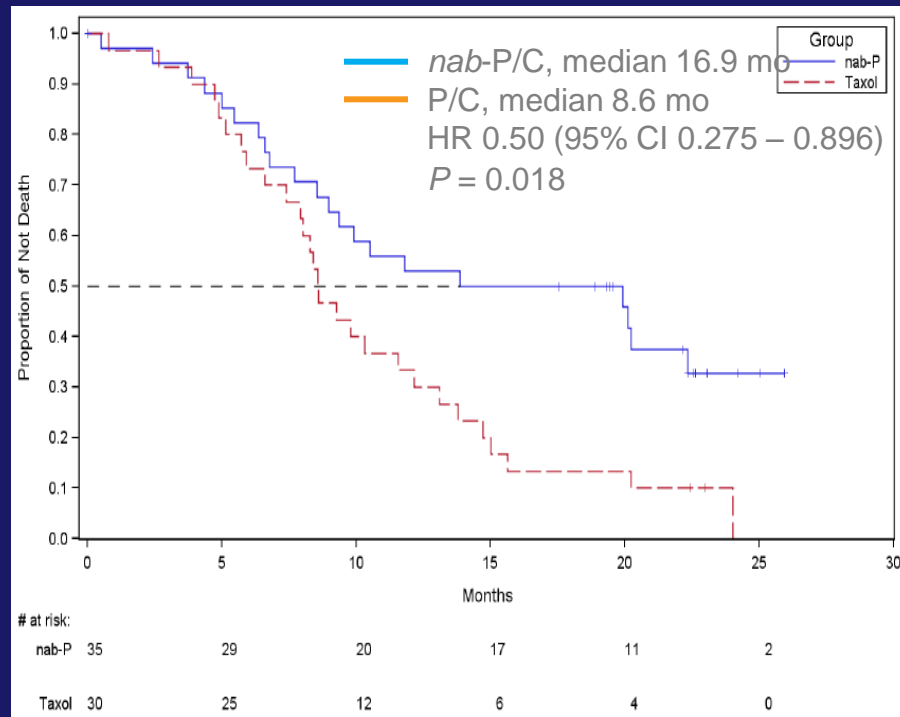
- ORR and OS outcomes were significantly better with *nab*-P/C vs P/C across all ages, including pts ≥ 70 years of age

nab-P/C, *nab*-paclitaxel/carboplatin; P/C, paclitaxel/carboplatin; SCC, squamous cell carcinoma.

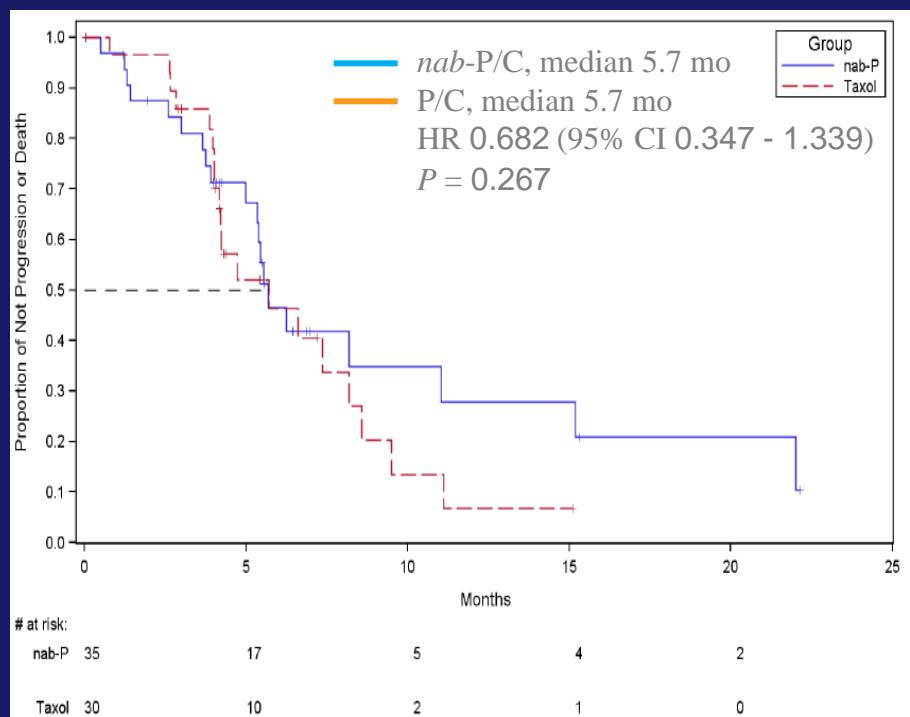
Gridelli C, et al. Poster presented at ELCC 2016 [Poster FPN 216PD].

Survival in Patients ≥ 70 Years of Age With SCC

Overall Survival



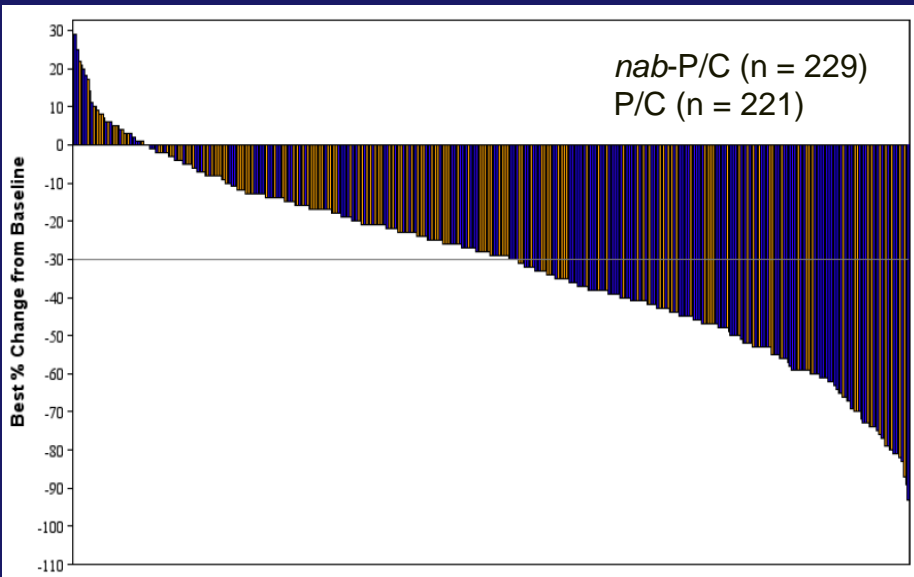
Progression-Free Survival



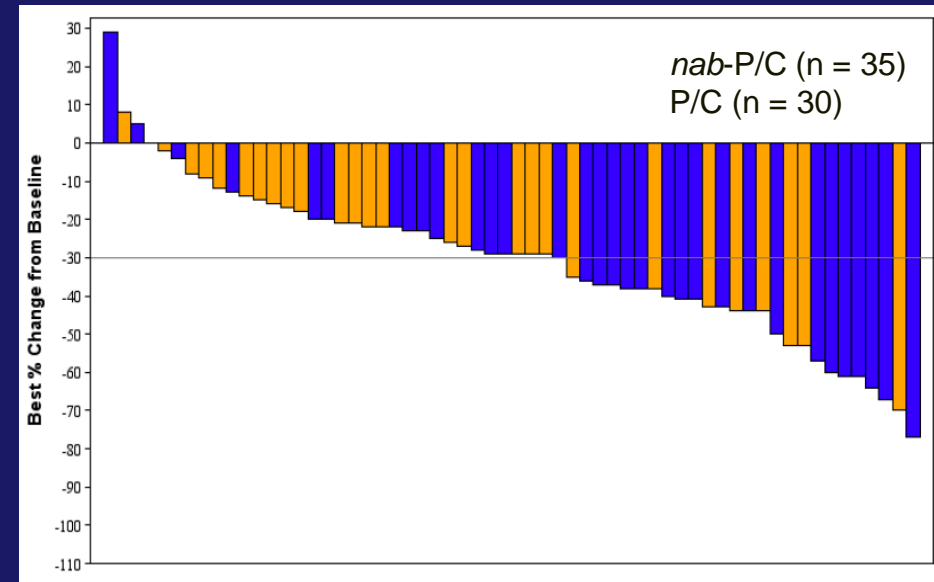
- *nab*-P/C vs P/C treatment resulted in less grade 3/4 neutropenia (50% vs 63%) but more grade 3/4 thrombocytopenia (21% vs 10%) and anemia (21% vs 7%); this trend was observed in the phase III trial ITT population as well as the individual elderly and SCC subsets

Best Change from Baseline in Target Lesions

Patients with SCC



Patients ≥ 70 Years of Age with SCC



- More pts with SCC, including those ≥ 70 years of age, treated with *nab*-P/C vs P/C had greater decreases from baseline in total length of target lesions

Conclusion: Treatment with *nab*-P/C vs P/C resulted in significant improvements in ORR and OS in patients ≥ 70 years of age with SCC; similar findings were observed in other age groups

Conclusions

- **No firmly established predictor for development of brain metastases post chemoradiotherapy yet defined**
 - **KRAS and CEA promising but require further evaluation**
 - **Prophylactic cranial irradiation reduces relapse from brain metastases but overall survival benefit unproven**
- **Bevacizumab does not appear to add significantly to pemetrexed in the maintenance treatment of non-squamous NSCLC**
- **Nap-paclitaxel may have a role in selected elderly patients with NSCLC, both non-squamous and squamous**