

GI SLIDE DECK 2016

Selected abstracts on **Colorectal Cancer** from:

ESMO 2016 Congress

7–11 October 2016

Copenhagen, Denmark



european society of digestive oncology

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Eli Lilly and Company has not influenced the content of this publication



Letter from ESDO

DEAR COLLEAGUES

It is my pleasure to present this ESDO slide set which has been designed to highlight and summarise key findings in digestive cancers from the major congresses in 2016. This slide set specifically focuses on the **European Society of Medical Oncology 2016 Congress** and is available in English, French and Japanese.

The area of clinical research in oncology is a challenging and ever changing environment. Within this environment, we all value access to scientific data and research which helps to educate and inspire further advancements in our roles as scientists, clinicians and educators. I hope you find this review of the latest developments in digestive cancers of benefit to you in your practice. If you would like to share your thoughts with us we would welcome your comments. Please send any correspondence to info@esdo.eu.

And finally, we are also very grateful to Lilly Oncology for their financial, administrative and logistical support in the realisation of this activity.

Yours sincerely,

Eric Van Cutsem
Wolff Schmiegel
Phillippe Rougier
Thomas Seufferlein
(ESDO Governing Board)



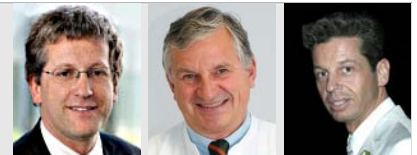
european society of digestive oncology

ESDO Medical Oncology Slide Deck

Editors 2016

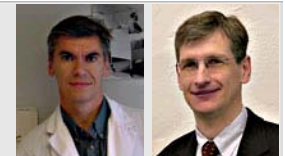
COLORECTAL CANCERS

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Prof Thomas Seufferlein	Clinic of Internal Medicine I, University of Ulm, Ulm, Germany



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Prof Côte Lepage	University Hospital & INSERM, Dijon, France



BIOMARKERS

Prof Eric Van Cutsem	Digestive Oncology Unit, University Hospital Gasthuisberg, Leuven, Belgium
Prof Thomas Seufferlein	Clinic of Internal Medicine I, University of Ulm, Ulm, Germany



Glossary

1L	first line	(m)ITT	(modified) intent-to-treat
2L	second line	iv	intravenous
5FU	5-fluorouracil	LV	leucovorin
AE	adverse event	LDA	Linear Discriminant Analysis
ALT	alanine aminotransferase	LDH	lactate dehydrogenase
AST	aspartate aminotransferase	MAPK	mitogen-activated protein kinase
Bev	bevacizumab	MRI	magnetic resonance imaging
BSC	best supportive care	mrTRG	MRI tumour regression grade
Cape	capecitabine	MSI-H	microsatellite instability high
CEA	carcinoembryonic antigen	MSS	microsatellite stable
Cetux	cetuximab	mut	mutant
cfDNA	cell-free DNA	NCI-CTC	National Cancer Institute-Common Toxicity Criteria
CI	confidence interval	NEXIRI	irinotecan, sorafenib
(p)CR	(pathologic) complete response	NGS	next generation sequencing
(m)CRC	(metastatic) colorectal cancer	NS	non-significant
CRT	chemoradiotherapy	OR	odds ratio
CT	chemotherapy	(O)RR	(objective) response rate
CTC	circulating tumour cells	(m)OS	(median) overall survival
ctDNA	circulating DNA	Oxali	oxaliplatin
DCR	disease control rate	(qRT)PCR	(quantitative real-time) polymerase chain reaction
ddPCR	droplet digital polymerase chain reaction	PD	progressive disease
DFS	disease-free survival	(m)PFS	(median) progression-free survival
(m)DoR	median duration of response	PD	pharmacodynamic
ECOG	Eastern Cooperative Oncology Group	PK	pharmacokinetic
EGFR	endothelial growth factor receptor	PR	partial response
ELISA	enzyme-linked immunosorbent assay	PS	performance status
EORTC	European Organization for Research and Treatment of Cancer	QoL	quality of life
ESMO	European Society for Medical Oncology	R	randomised
ETS	early tumour shrinkage	RCTx	radiochemotherapy
FISH	fluorescence in situ hybridisation	RECIST	Response Evaluation Criteria In Solid Tumors
FIT	fecal immune test	RFS	relapse-free survival
FOLFIRI	leucovorin, fluorouracil, irinotecan	RT	radiotherapy
FOLFOXIRI	leucovorin, fluorouracil, irinotecan, oxaliplatin	SD	stable disease
FOLFOX	leucovorin, fluorouracil, oxaliplatin	TTF	time to treatment failure
FP	fluoropyrimidine	TTR	time to recurrence
GGT	gamma-glutamyl transpeptidase	VEGF(R)	vascular endothelial growth factor (receptor)
HR	hazard ratio	WHO	World Health Organization
IHC	immunohistochemistry	wt	wild type

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METASTATIC COLORECTAL CANCER



Metastatic Colorectal Cancer

FIRST-LINE THERAPY



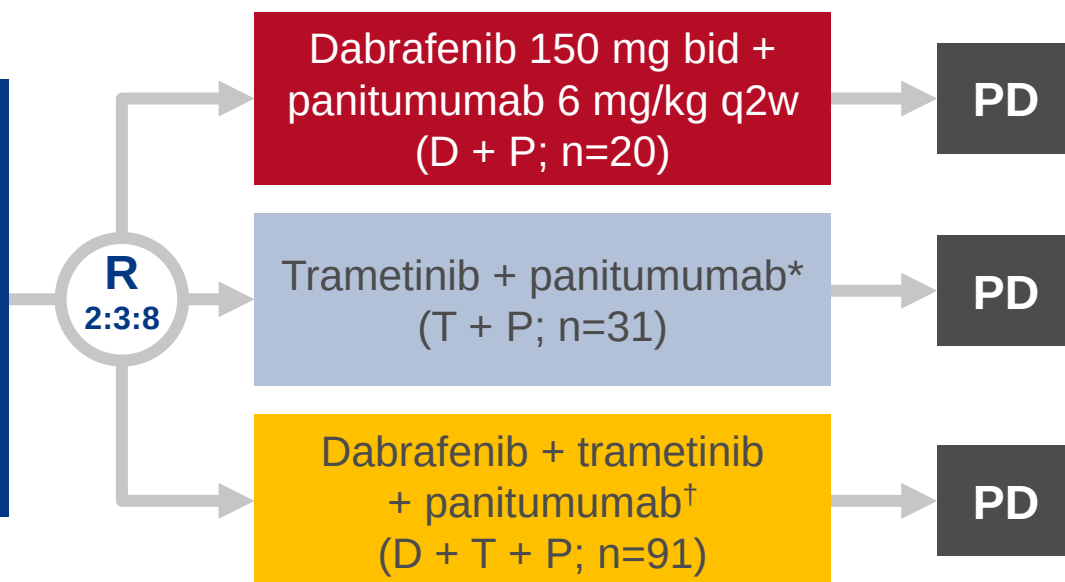
455O: Efficacy and circulating tumor DNA (ctDNA) analysis of the BRAF inhibitor dabrafenib (D), MEK inhibitor trametinib (T), and anti-EGFR antibody panitumumab (P) in patients (pts) with BRAF V600E-mutated (BRAFM) metastatic colorectal cancer (mCRC) – Corcoran et al

Study objective

- To assess the efficacy and safety of panitumumab with dabrafenib and/or trametinib in BRAF-mutant mCRC with integrated biomarker analyses

Key patient inclusion criteria

- BRAF-mutant CRC
 - ECOG PS 0 or 1
 - Adequate organ system function
- (n=142)



PRIMARY ENDPOINT(S)

- Safety

*T 2 mg/d + P 6 mg/kg q2w (n=11); T 1.5 mg/d + P 6 mg/kg q2w (n=10); T 2 mg/d + P 4.8 mg/kg q2w (n=10). †D 150 mg bid + T 2 mg/d + P 6 mg/kg q2w (n=48); D 150 mg bid + T 2 mg/d + P 4.8 mg/kg q2w (n=36); D 150 mg bid + T 1.5 mg/d + P 6 mg/kg q2w (n=4); D 150 mg bid + T 1.5 mg/d + P 4.8 mg/kg q2w (n=3).

SECONDARY ENDPOINTS

- Efficacy: CR, PR, SD, PFS
- ctDNA

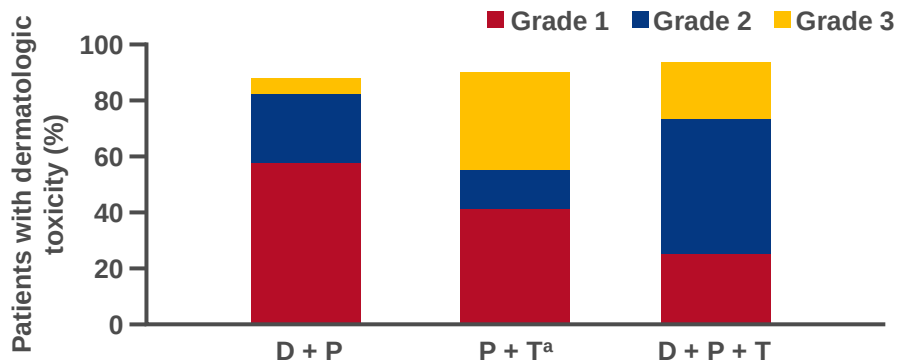
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Key results

Adverse event, n (%)	D + P (n=20)		T + P (n=51 ^a)		D + T + P (n=91)	
	Total	Grade 3/4	Total	Grade 3/4	Total	Grade 3/4
Diarrhoea	9 (45)	0	37 (73)	1 (2)	59 (65)	6 (7)
Dermatitis acneiform	12 (60)	0	27 (53)	9 (18)	54 (59)	9 (10)
Nausea	10 (50)	0	18 (35)	1 (2)	51 (56)	2 (2)
Dry skin	7 (35)	1 (5)	17 (33)	3 (6)	49 (54)	2 (2)
Fatigue	10 (50)	0	13 (25)	0	45 (49)	6 (7)
Pyrexia	7 (35)	0	20 (39)	0	44 (48)	4 (4)
Vomiting	6 (30)	0	15 (29)	1 (2)	39 (43)	2 (2)
Decreased appetite	5 (25)	0	13 (25)	0	36 (40)	2 (2)
Rash	3 (15)	0	16 (31)	0	28 (31)	10 (11)

Dermatologic toxicity	D+P (n=20)	T + P (n=13)	D + T + P (n=35)
Patients, n (%)	18 (90)	12/13 (92)	33 (94)

^aT + P safety data were derived from a total of 51 patients (BRAF-mutant cohort [n=31] and anti-EGFR-therapy-resistant cohort [n=20]).



Corcoran RB et al. Ann Oncol 2016; 27 (suppl 6): abstr 455O

455O: Efficacy and circulating tumor DNA (ctDNA) analysis of the BRAF inhibitor dabrafenib (D), MEK inhibitor trametinib (T), and anti-EGFR antibody panitumumab (P) in patients (pts) with BRAF V600E-mutated (BRAFM) metastatic colorectal cancer (mCRC) – Corcoran et al

Key results (continued)

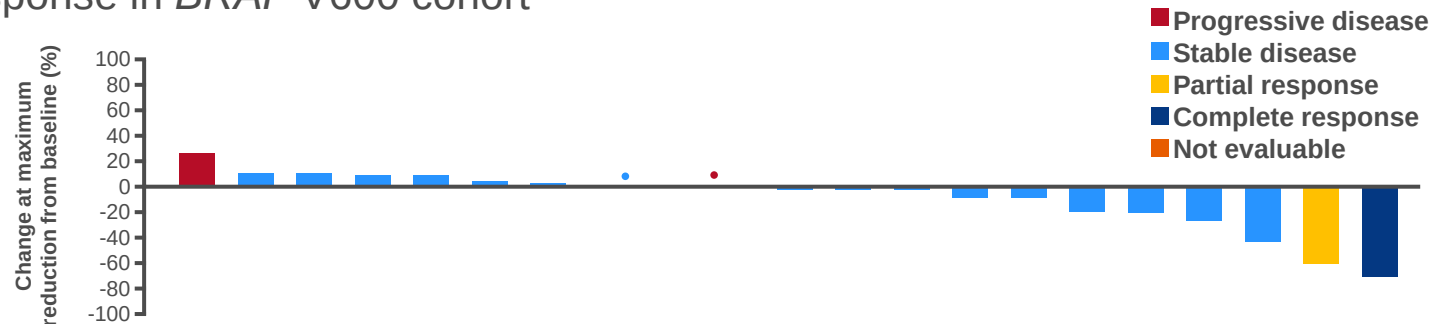
Confirmed best response in *BRAF* V600 cohort

D + P (n=20), (%)

Confirmed CR/PR: 2 (10)

Stable disease: 16 (80)

Disease control: 18 (90)

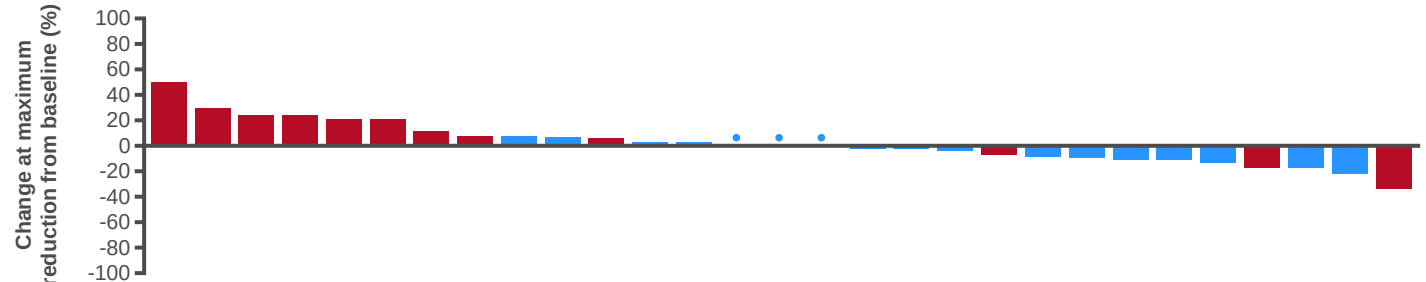


T + P (mutant *BRAF*; n=31), n (%)

Confirmed CR/PR: 0 (0)

Stable disease: 17 (55)

Disease control: 17 (55)

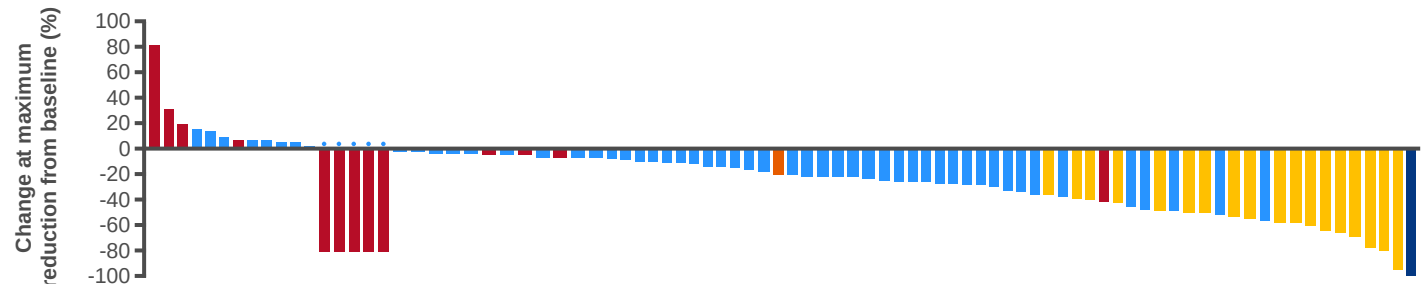


D + T + P (n=91), n (%)

Confirmed CR/PR: 19 (21)

Stable disease: 59 (65)

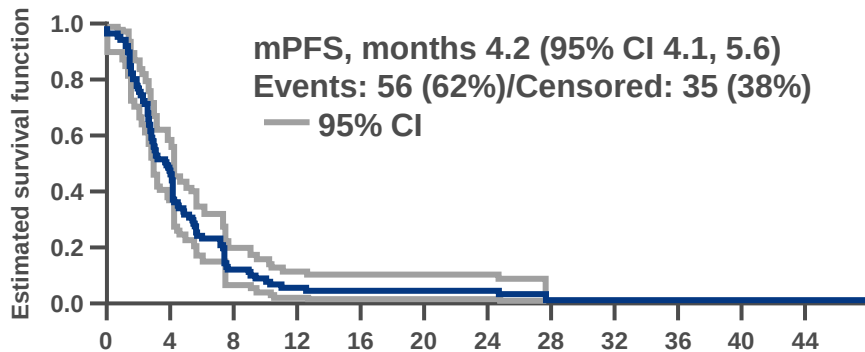
Disease control: 78 (86)



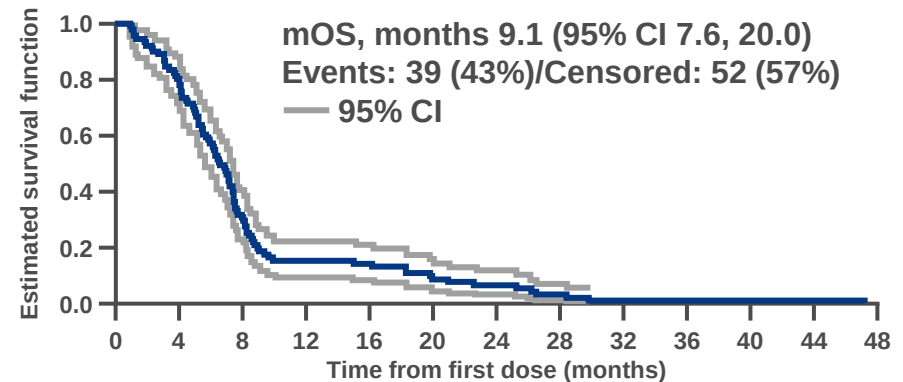
455O: Efficacy and circulating tumor DNA (ctDNA) analysis of the BRAF inhibitor dabrafenib (D), MEK inhibitor trametinib (T), and anti-EGFR antibody panitumumab (P) in patients (pts) with BRAF V600E-mutated (BRAFM) metastatic colorectal cancer (mCRC) – Corcoran et al

Key results (continued)

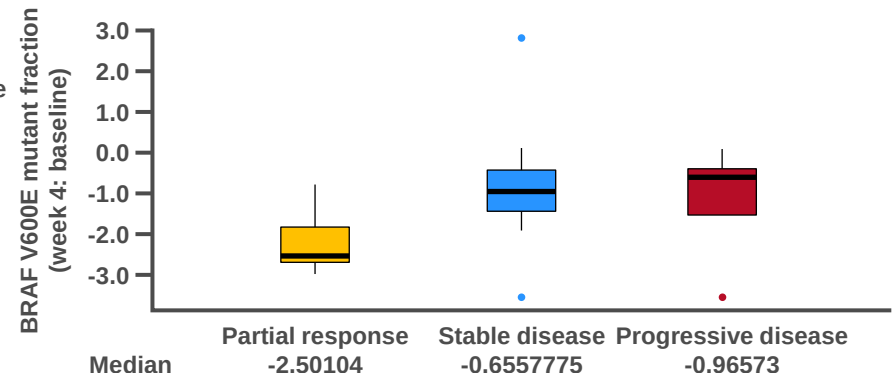
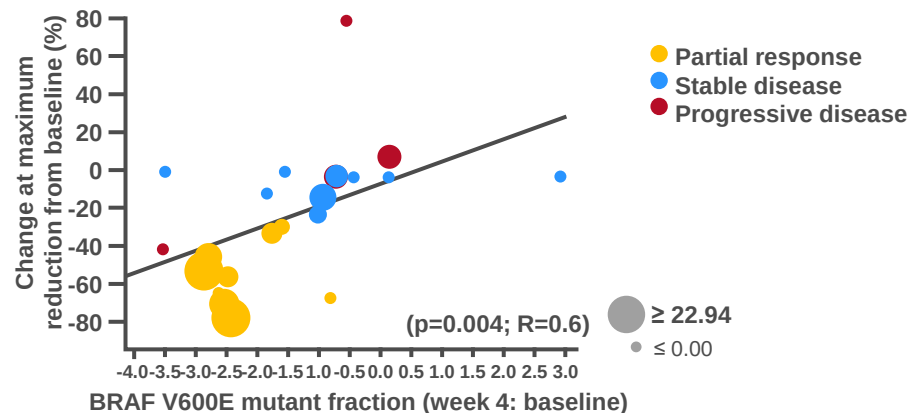
Kaplan-Meier PFS for D + T + P Arm



Kaplan-Meier OS for D + T + P Arm



ctDNA tracking response: BRAF V600 mutant fraction burden



455O: Efficacy and circulating tumor DNA (ctDNA) analysis of the BRAF inhibitor dabrafenib (D), MEK inhibitor trametinib (T), and anti-EGFR antibody panitumumab (P) in patients (pts) with BRAF V600E–mutated (BRAFM) metastatic colorectal cancer (mCRC) – Corcoran et al

Key results (continued)

- ctDNA analysis showed emergence of RAS mutations at disease progression in 9 of 22 (41%) patients
 - In 3 of these patients, multiple RAS mutations were detectable in ctDNA at progression

Conclusions

- D + T + P appeared to be more active than D + T, D + P or T + P in mBRAF mCRC
- D + P and D + T + P were tolerable at full dose, but full dose T + P was not tolerable due to dermatologic toxicity
- More effective inhibition of MAPK signalling may contribute to increased efficacy of D + P + T
- Monitoring mBRAF in ctDNA is feasible and can effectively predict response

LBA21: FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in metastatic colorectal cancer (mCRC): The phase II randomized MOMA trial

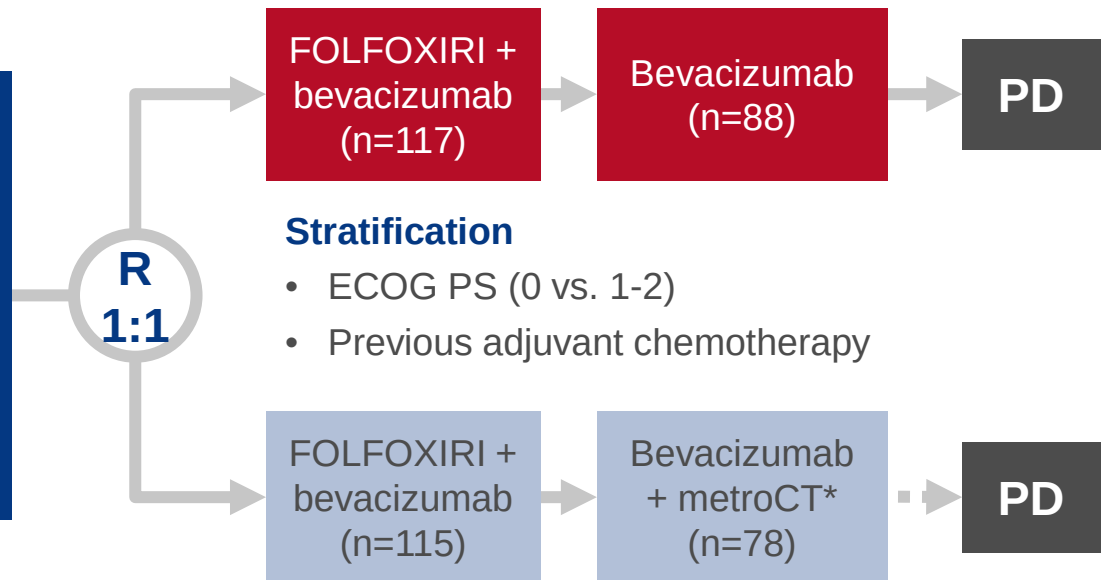
– Falcone et al

Study objective

- To evaluate the efficacy of metronomic chemotherapy added to bevacizumab as maintenance therapy after 4 months induction with FOLFOXIRI + bevacizumab

Key patient inclusion criteria

- mCRC untreated for metastatic disease
 - Histologically confirmed adenocarcinoma
 - ≥1 measurable lesion (RECIST 1.1)
 - ECOG PS ≤2 (PS 0 if 71–75 years)
- (n=232)



Stratification

- ECOG PS (0 vs. 1-2)
- Previous adjuvant chemotherapy

PRIMARY ENDPOINT

- PFS

SECONDARY ENDPOINTS

- RR

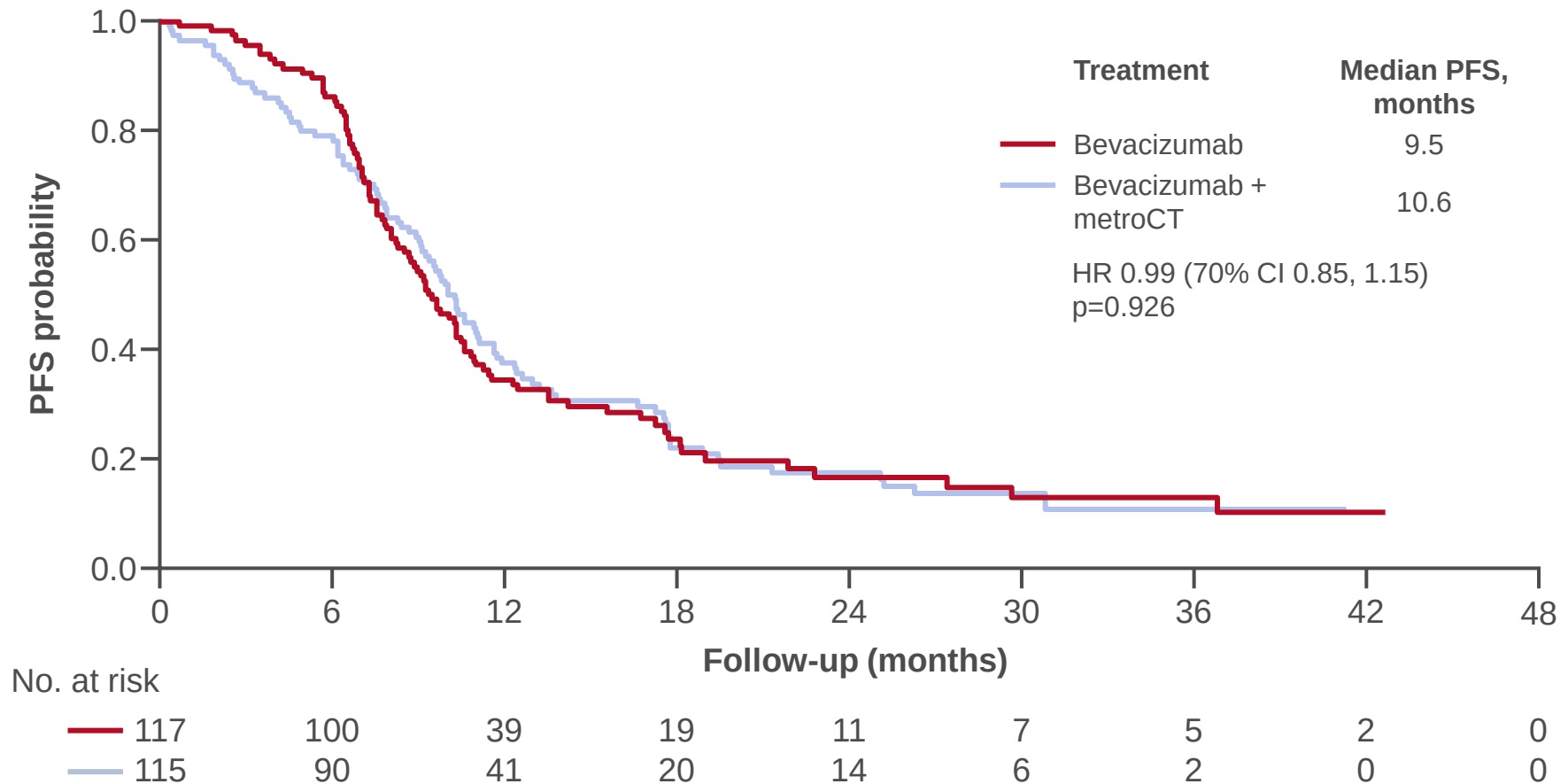
*Bevacizumab 7.5 mg/kg iv + capecitabine 500 mg tid + cyclophosphamide 50 mg/d; every 21 days

LBA21: FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in metastatic colorectal cancer (mCRC): The phase II randomized MOMA trial

– Falcone et al

Key results

PFS



LBA21: FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in metastatic colorectal cancer (mCRC): The phase II randomized MOMA trial

– Falcone et al

Key results (continued)

Best response, %	Bevacizumab (n=117)	Bevacizumab + metroCT (n=115)	All (n=232)
CR	4	2	3
PR	64	56	60
RR	68	58	63
SD	26	30	28
DCR	94	88	91
PD	2	5	3
Not assessed	4	7	6

LBA21: FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in metastatic colorectal cancer (mCRC): The phase II randomized MOMA trial

– Falcone et al

Key results (continued)

Grade 3/4 AEs during induction, %	Bevacizumab (n=116)	Bevacizumab + metroCT (n=115)	All (n=231)
Nausea	2.6	3.5	3.0
Vomiting	0.86	6.1	3.5
Diarrhoea	11.2	15.7	13.4
Stomatitis	3.5	4.4	3.9
Neutropenia	55.0	47.8	51.9
Febrile neutropenia	13.7	8.7	11.2
Hypertension	5.2	1.7	3.5

Grade 3/4 AEs during maintenance, %	Bevacizumab (n=88)	Bevacizumab + metroCT (n=78)
Hand & foot skin reaction	0	7.9
Diarrhoea	0	1.3
Neutropenia	0	4
Hypertension	4.6	2.6
Venous thrombosis	2.3	2.6

LBA21: FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in metastatic colorectal cancer (mCRC): The phase II randomized MOMA trial

– Falcone et al

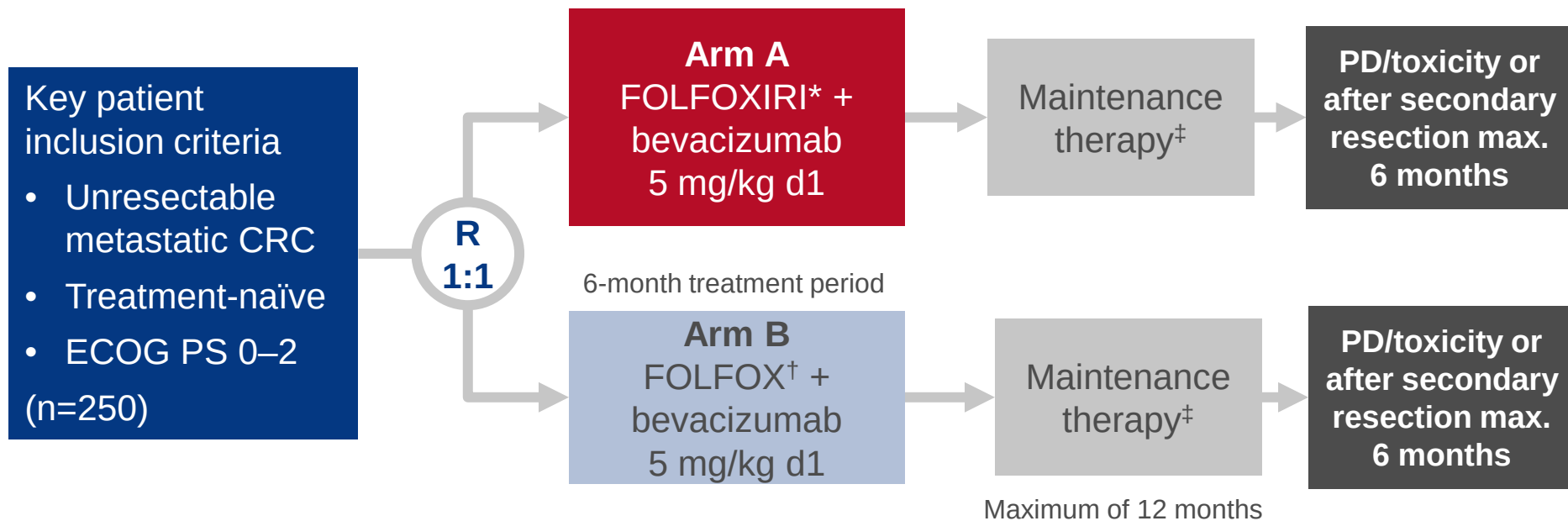
Conclusions

- **There was no significant improvement in PFS with the addition of metronomic chemotherapy to maintenance therapy with bevacizumab**
- **A standard dose of fluoropyrimidine + bevacizumab remains the preferred maintenance after CT + bevacizumab**

LBA22: FOLFOX / Bevacizumab (Beva) +/- Irinotecan in advanced Colorectal Cancer (CRC): A randomized Phase II trial (AIO KRK 0209, CHARTA) – Schmoll et al

Study objective

- To assess the efficacy and safety of FOLFOXIRI + bevacizumab compared with FOLFOX + bevacizumab in patients with advanced colorectal cancer



PRIMARY ENDPOINT

- PFS at 9 months

*Oxaliplatin 85 mg/m² + LV 200 mg/m² + 5FU 3200 mg/m² + irinotecan 165 mg/m²; †oxaliplatin 85 mg/m² + leucovorin 200 mg/m² + 5-FU 3200 mg/m²; ‡bevacizumab 5 mg/kg d1 + LV/5FU or bevacizumab 7.5 mg/kg d1 + capecitabine 1600 mg/m² d1–14.

SECONDARY ENDPOINT

- RR, PFS, OS, secondary resection rate, tolerability, QoL

LBA22: FOLFOX / Bevacizumab (Beva) +/- Irinotecan in advanced Colorectal Cancer (CRC): A randomized Phase II trial (AIO KRK 0209, CHARTA) – Schmoll et al

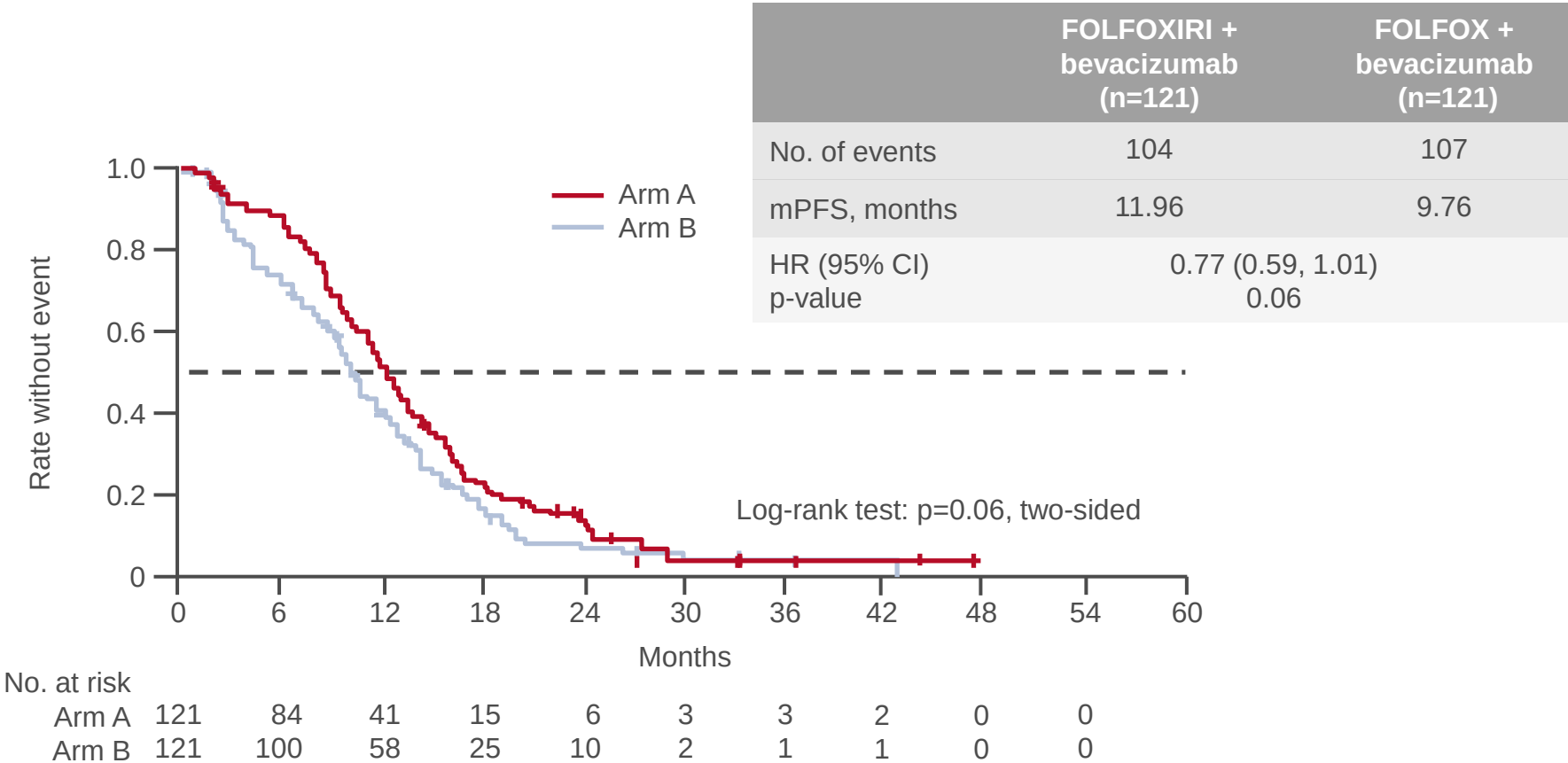
Key results

	FOLFOXIRI + bevacizumab (n=121)	FOLFOX + bevacizumab (n=121)	p-value
PFS at 9 months, % (95% CI)	68 (48, 66)	56 (60, 77)	0.086
CR + PR, % (n + n)	70 (5 + 65)	60 (5 + 55)	0.16
Secondary metastasis resection, %	23	21	
Subgroup analysis (median PFS), months			HR
BRAF mutation	10.1	7.8	0.72
RAS mutation	12.3	10.4	0.82
RAS wild-type	13.1	9.6	0.67

No significant difference was observed in clinical subgroups (Koehne-score & ESMO-groups)

LBA22: FOLFOX / Bevacizumab (Beva) +/- Irinotecan in advanced Colorectal Cancer (CRC): A randomized Phase II trial (AIO KRK 0209, CHARTA) – Schmoll et al

Key results (continued)



LBA22: FOLFOX / Bevacizumab (Beva) +/- Irinotecan in advanced Colorectal Cancer (CRC): A randomized Phase II trial (AIO KRK 0209, CHARTA) – Schmoll et al

Key results (continued)

Grade 3–5 AEs, %	FOLFOXIRI + bevacizumab (n=121)	FOLFOX + bevacizumab (n=121)
Diarrhoea	16	12
Nausea	8	3
Vomiting	3	3
Mucositis	3	3
Neutropenia	20	14
Febrile neutropenia	1	1
Infection	10	12
Hypertension	9	7
Neuropathy	3	4
Pulmonary embolism	2	3
Fatigue/Asthenia	9	3

LBA22: FOLFOX / Bevacizumab (Beva) +/- Irinotecan in advanced Colorectal Cancer (CRC): A randomized Phase II trial (AIO KRK 0209, CHARTA) – Schmoll et al

Conclusions

- The study met its primary endpoint, with significant improvements in PFS noted with FOLFOXIRI + bevacizumab vs. FOLFOX + bevacizumab (statistical consideration alpha 0.1, beta of 0.2) at 9 months
 - Improvements, although statistically non-significant, in response rate and PFS with the 4 drug-combination are quite similar to TRIBE/STEAM6
- Improvement in RR/PFS is comparable in all clinical and molecular subgroups
- The combination is well-tolerated, even in frail and elderly patients
- Such findings support the value of 4-drug-regimen for 1L treatment for almost all patients

Metastatic Colorectal Cancer

SECOND-LINE THERAPY

464PD: A multi-center, randomized, double-blind phase II trial of FOLFIRI + regorafenib or placebo for patients with metastatic colorectal cancer who failed one prior line of oxaliplatin-containing therapy – O'Neil et al

Study objective

- To assess the efficacy of 2L FOLFIRI ± regorafenib administered on an intermittent dosing strategy (week on, week off) in patients with mCRC

Key patient inclusion criteria

- mCRC
 - Progression on 1L oxaliplatin and fluoropyrimidine
 - Measurable disease
 - ECOG PS ≤1
- (n=181)

R

Arm A

Regorafenib 160 mg +
FOLFIRI
(n=120)

PD/
toxicity/
other

Arm B

Placebo + FOLFIRI
(n=61)

PD/
toxicity/
other

PRIMARY ENDPOINT(S)

- PFS

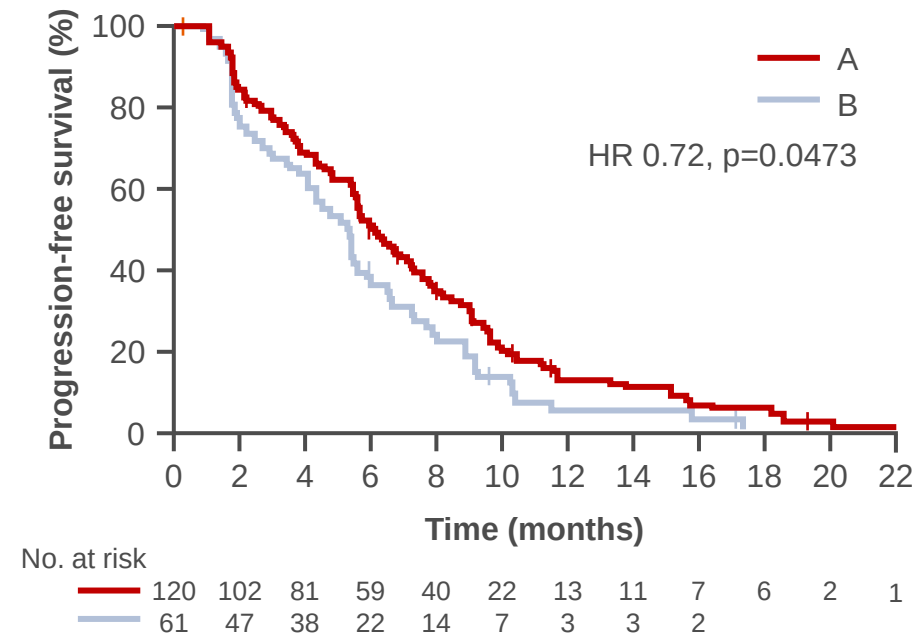
SECONDARY ENDPOINTS

- RR (CR + PR), OS

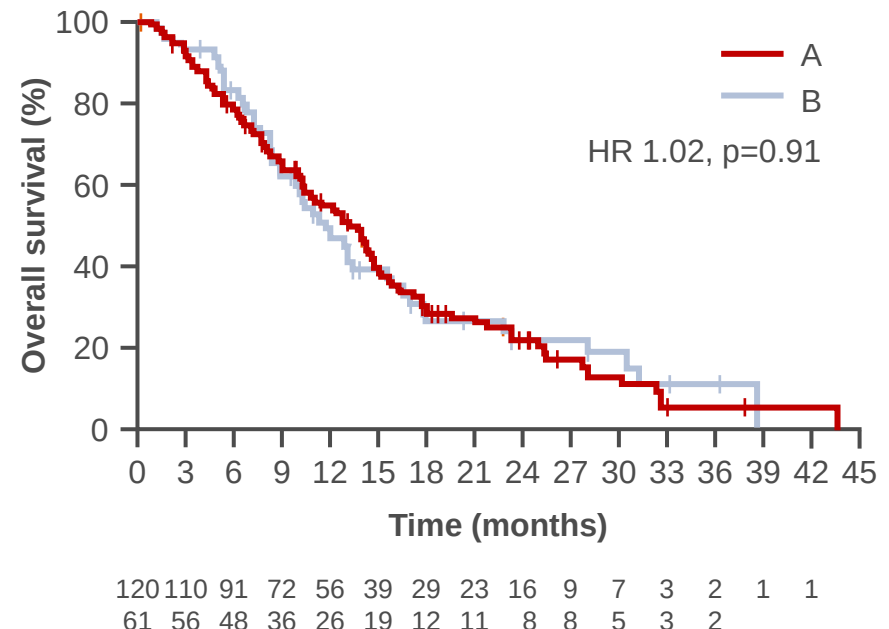
464PD: A multi-center, randomized, double-blind phase II trial of FOLFIRI + regorafenib or placebo for patients with metastatic colorectal cancer who failed one prior line of oxaliplatin-containing therapy – O'Neil et al

Key results

Progression-free survival



Overall survival



- mPFS was 6.5 and 5.3 months for regorafenib + FOLFIRI and placebo + FOLFIRI, respectively
- mOS was 13.8 vs. 11.7 months, respectively (p=NS)

464PD: A multi-center, randomized, double-blind phase II trial of FOLFIRI + regorafenib or placebo for patients with metastatic colorectal cancer who failed one prior line of oxaliplatin-containing therapy – O'Neil et al

Key results (continued)

Grade ≥3 AE, n (%)	Regorafenib	Placebo
Neutropenia	49 (41)	18 (30)
Diarrhoea	18 (15)	3 (5)
Hypophosphatemia	17 (14)	0 (0)
Fatigue	13 (11)	4 (7)
Febrile neutropenia	11 (9)	2 (3)
Mucositis oral	11 (9)	6 (10)
White blood cell decreased	11 (9)	7 (11)
Hypertension	10 (8)	1 (2)
Lipase increased	10 (8)	3 (5)
Dehydration	7 (6)	2 (3)
Hypokalaemia	7 (6)	1 (2)
Anorexia	6 (5)	0 (0)

464PD: A multi-center, randomized, double-blind phase II trial of FOLFIRI + regorafenib or placebo for patients with metastatic colorectal cancer who failed one prior line of oxaliplatin-containing therapy – O'Neil et al

Conclusions

- Compared with FOLFIRI alone, combination therapy of regorafenib with FOLFIRI prolonged PFS (HR 0.72)
 - Similar results have been observed with other inhibitors of the VEGF/VEGFR axis in larger studies
- Regorafenib + FOLFIRI did not prolong OS
 - This could be due to a variety of reasons, including subsequent therapies or crossover (currently under investigation)
- Regorafenib + FOLFIRI combination was well tolerated
- In a sub-population of this study, PK interaction between regorafenib and irinotecan will be explored
- An extensive biomarker programme including pharmacogenetic markers of toxicity has now been initiated. In addition, the programme will also investigate potential markers of response

Metastatic Colorectal Cancer

SALVAGE THERAPY

LBA20_PR: Nintedanib plus best supportive care (BSC) versus placebo plus BSC for the treatment of patients (pts) with colorectal cancer (CRC) refractory to standard therapies: Results of the phase III LUME-colon 1 study – Van Cutsem et al

Study objective

- To evaluate the efficacy and safety of nintedanib (an oral angiokinase inhibitor) in patients with mCRC after failure of standard therapies

Key patient inclusion criteria

- Metastatic or locally advanced CRC not amenable to surgery/radiotherapy
 - Progression or toxicity to standard treatments*
 - ECOG PS ≤ 1
 - Age ≥ 18 years
- (n=764)

Nintedanib 200 mg bid +
BSC
(n=386)

PD/
toxicity/
other

Stratification

- Previous treatment with regorafenib
- Time from onset of metastatic disease until randomisation
- Region

Placebo +
BSC
(n=382)

PD/
toxicity/
other

PRIMARY ENDPOINTS

- OS and PFS (central review)

SECONDARY ENDPOINTS

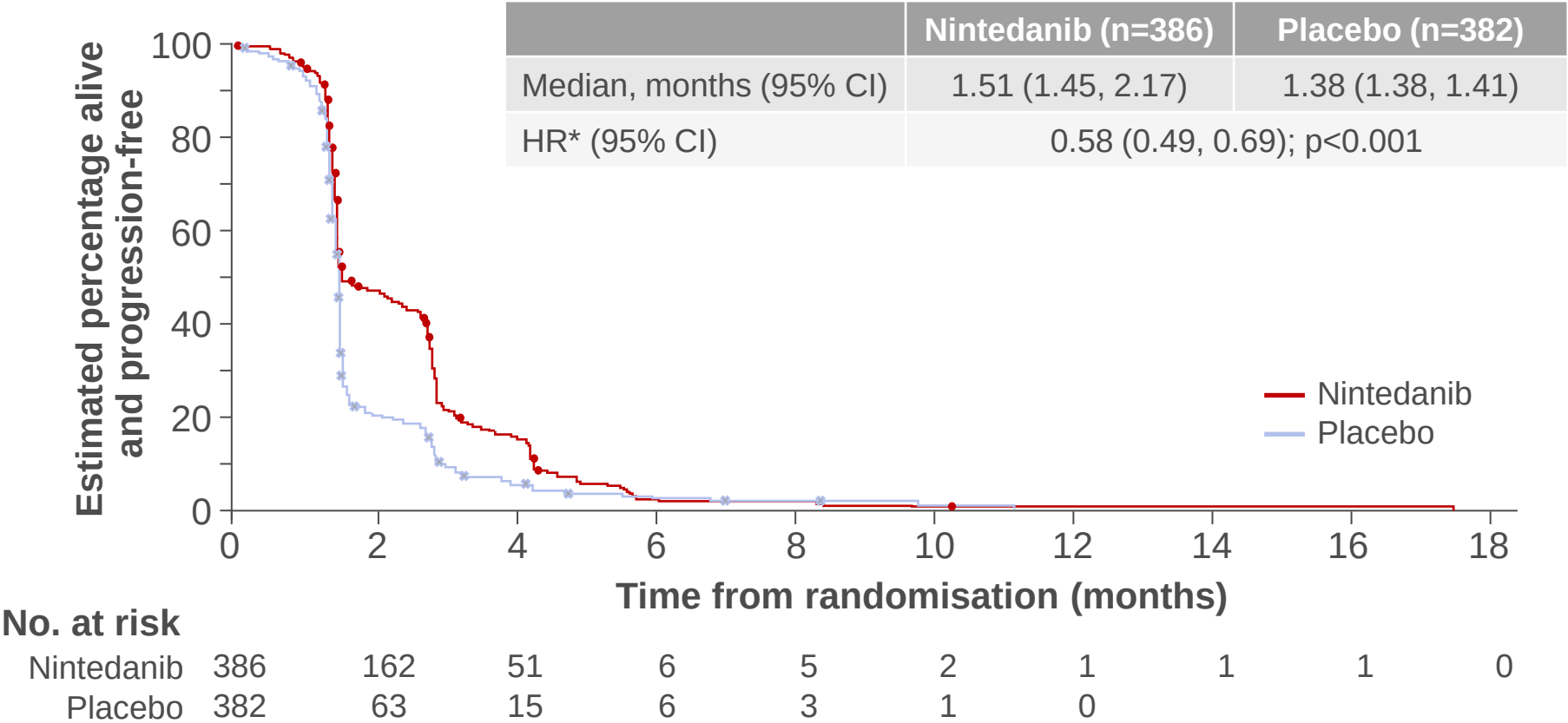
- ORR and DCR (central review)

*Oxaliplatin, irinotecan, fluoropyrimidines, anti-VEGF (bevacizumab or aflibercept) and anti-EGFR (cetuximab or panitumumab) in RAS wt

LBA20_PR: Nintedanib plus best supportive care (BSC) versus placebo plus BSC for the treatment of patients (pts) with colorectal cancer (CRC) refractory to standard therapies: Results of the phase III LUME-colon 1 study – Van Cutsem et al

Key results

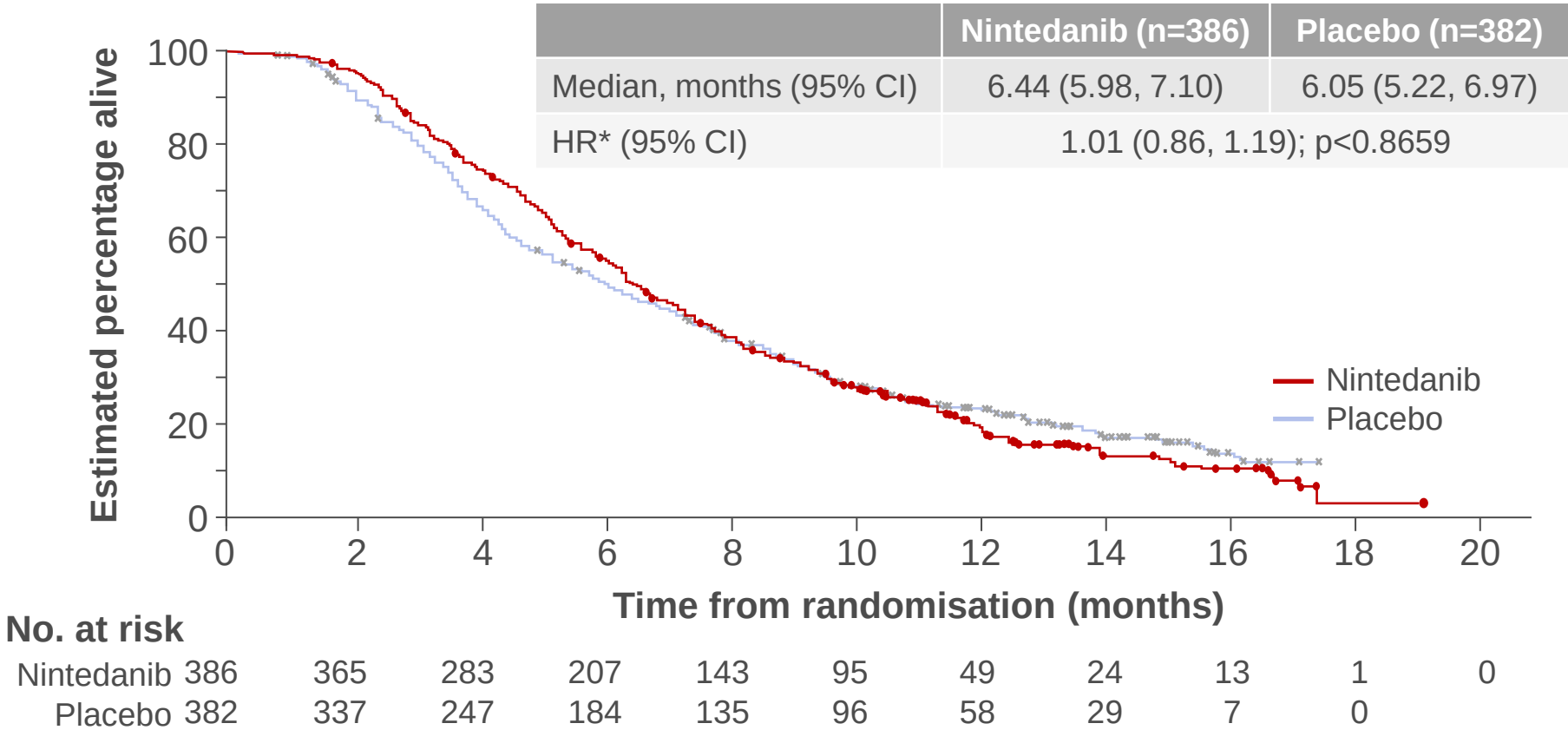
Co-primary endpoint: PFS by central review



*Stratified by previous treatment with regorafenib, time from onset of metastatic disease until randomisation, and region

LBA20_PR: Nintedanib plus best supportive care (BSC) versus placebo plus BSC for the treatment of patients (pts) with colorectal cancer (CRC) refractory to standard therapies: Results of the phase III LUME-colon 1 study – Van Cutsem et al

Key results (continued)
Co-primary endpoint: OS

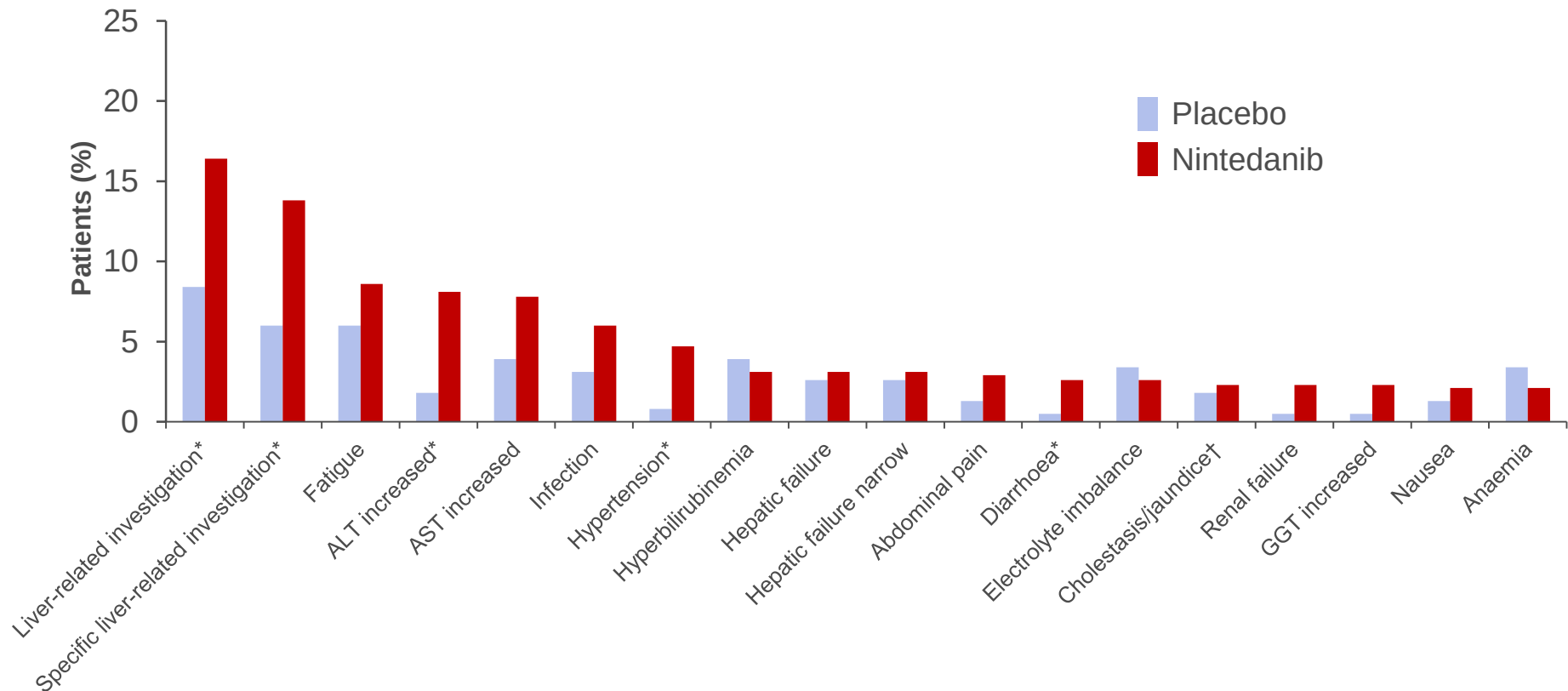


*Stratified by previous treatment with regorafenib, time from onset of metastatic disease until randomisation, and region

LBA20_PR: Nintedanib plus best supportive care (BSC) versus placebo plus BSC for the treatment of patients (pts) with colorectal cancer (CRC) refractory to standard therapies: Results of the phase III LUME-colon 1 study – Van Cutsem et al

Key results (continued)

Grade ≥ 3 AEs (incidence $\geq 2\%$ in nintedanib arm)



AEs by user-defined category using US National Cancer Institute Common Terminology Criteria for Adverse Events, version 3.0.

*Relevant difference based on the 95% CI for the incidence rate ratios and incidence rate difference; †Hepatic origin

LBA20_PR: Nintedanib plus best supportive care (BSC) versus placebo plus BSC for the treatment of patients (pts) with colorectal cancer (CRC) refractory to standard therapies: Results of the phase III LUME-colon 1 study – Van Cutsem et al

Conclusions

- **Nintedanib demonstrated clinical activity in patients with refractory mCRC**
 - The co-primary endpoint of PFS was met (HR 0.58 [0.49, 0.69]; $p < 0.0001$); however, that of OS was unmet (HR 1.01 [0.86, 1.19]; $p = 0.8659$)
 - A significant improvement in disease control was observed following treatment with nintedanib (OR 3.0 [2.0, 4.5]; $p < 0.0001$)
- **Further study is being carried out to investigate the effect of nintedanib on OS; lack of improved OS as a result of nintedanib therapy may be associated with post-study therapies**
- **Nintedanib was well tolerated**
- **Results of patient QoL and biomarker analyses will be presented separately**

454O: A randomized phase III study of napabucasin [BBI608] (NAPA) vs placebo (PBO) in patients (pts) with pretreated advanced colorectal cancer (ACRC): The CCTG/AGITG CO.23 trial – Jonker et al

Study objective

- To assess the efficacy of napabucasin (BBI608; a cancer stemness inhibitor that targets STAT3) vs. placebo in patients with pre-treated advanced CRC in a randomised phase 2 trial

Key patient inclusion criteria

- Patients with advanced CRC who had failed all available standard therapy (n=282)

R
1:1

Napabucasin 480 mg
po q12h + BSC
(n=138)

PD/unacceptable
toxicity/no benefit

Placebo + BSC
(n=144)

PD/unacceptable
toxicity/no benefit

PRIMARY ENDPOINT

- OS

SECONDARY ENDPOINTS

- Pre-specified biomarker analyses

Note: Based on data from abstract only

Jonker DJ et al. Ann Oncol 2016; 27 (suppl 6): abstr 454O

454O: A randomized phase III study of napabucasin [BBI608] (NAPA) vs placebo (PBO) in patients (pts) with pretreated advanced colorectal cancer (ACRC): The CCTG/AGITG CO.23 trial – Jonker et al

Key results

- No significant differences were observed between napabucasin and placebo for OS, PFS or DCR
- pSTAT3 positivity was a poor prognostic factor in patients receiving placebo
 - mOS 3.0 vs. 4.9 months (HR 2.3 [95% CI 1.5, 3.6]; p=0.0002)
- Napabucasin improved OS in patients who were pSTAT3 positive (HR 0.24)

mOS, months (95% CI)	Napabucasin	Placebo	HR (95% CI); p-value
ITT			
All patients (n=282)	4.4	4.8	1.13 (0.88, 1.46); 0.34
pSTAT3+ (n=55)	5.1	3.0	0.24 (0.12, 0.51); 0.0002
pSTAT3 – (n=196)	4.0	4.9	1.44 (1.06, 1.95); 0.02
Adjusted interaction			0.28 (0.14, 0.55); <0.0001
Pre-defined minimum effective treatment			
All patients (n=128)	6.6	5.8	0.88 (0.61, 1.28); 0.50
pSTAT3+ (n=25)	9.0	4.0	0.28 (0.11, 0.69); 0.0057
pSTAT3 – (n=88)	6.4	6.4	1.27 (0.80, 2.01); 0.32
Adjusted interaction			0.22 (0.08, 0.61); 0.0038

Note: Based on data from abstract only

Jonker DJ et al. Ann Oncol 2016; 27 (suppl 6): abstr 454O

454O: A randomized phase III study of napabucasin [BBI608] (NAPA) vs placebo (PBO) in patients (pts) with pretreated advanced colorectal cancer (ACRC): The CCTG/AGITG CO.23 trial – Jonker et al

Key results (continued)

AE more frequent with napabucasin, %	Napabucasin	Placebo	p-value
Any grade AEs			
Diarrhoea	88	32	<0.05
Nausea	63	47	<0.05
Anorexia	56	46	<0.05
Grade ≥3 AEs			
Any	57	40	<0.01
Diarrhoea	17	1	<0.01

Note: Based on data from abstract only

Jonker DJ et al. Ann Oncol 2016; 27 (suppl 6): abstr 454O

454O: A randomized phase III study of napabucasin [BBI608] (NAPA) vs placebo (PBO) in patients (pts) with pretreated advanced colorectal cancer (ACRC): The CCTG/AGITG CO.23 trial – Jonker et al

Conclusions

- **Napabucasin monotherapy did not improve OS or PFS in unselected patients with advanced CRC**
- **pSTAT3 positivity could be a marker of poor prognosis in patients receiving placebo + BSC**
- **Significant improvement in OS was observed in pSTAT3-positive patients receiving napabucasin**

Note: Based on data from abstract only

Jonker DJ et al. Ann Oncol 2016; 27 (suppl 6): abstr 454O

465PD: TERRA: A randomized, double-blind, placebo-controlled phase 3 study of TAS-102 in Asian patients with metastatic colorectal cancer – Kim et al

Study objective

- To evaluate the efficacy and safety trifluridine/tipiracil (TAS-102) in Asian patients with mCRC who had failed conventional cytotoxic therapies

Key patient inclusion criteria

- Metastatic colorectal cancer
 - ≥2 prior standard regimens for mCRC, including fluoropyrimidine, oxaliplatin and irinotecan
 - ECOG PS 0–1
- (n=406)

R
2:1

TAS-102 35 mg/m² bid* +
BSC
(n=271)

PD/
toxicity

Stratification

- KRAS mutation status
- Geographic location (China, Korea, Thailand)

Placebo* + BSC
(n=135)

PD/
toxicity

PRIMARY ENDPOINT

- OS

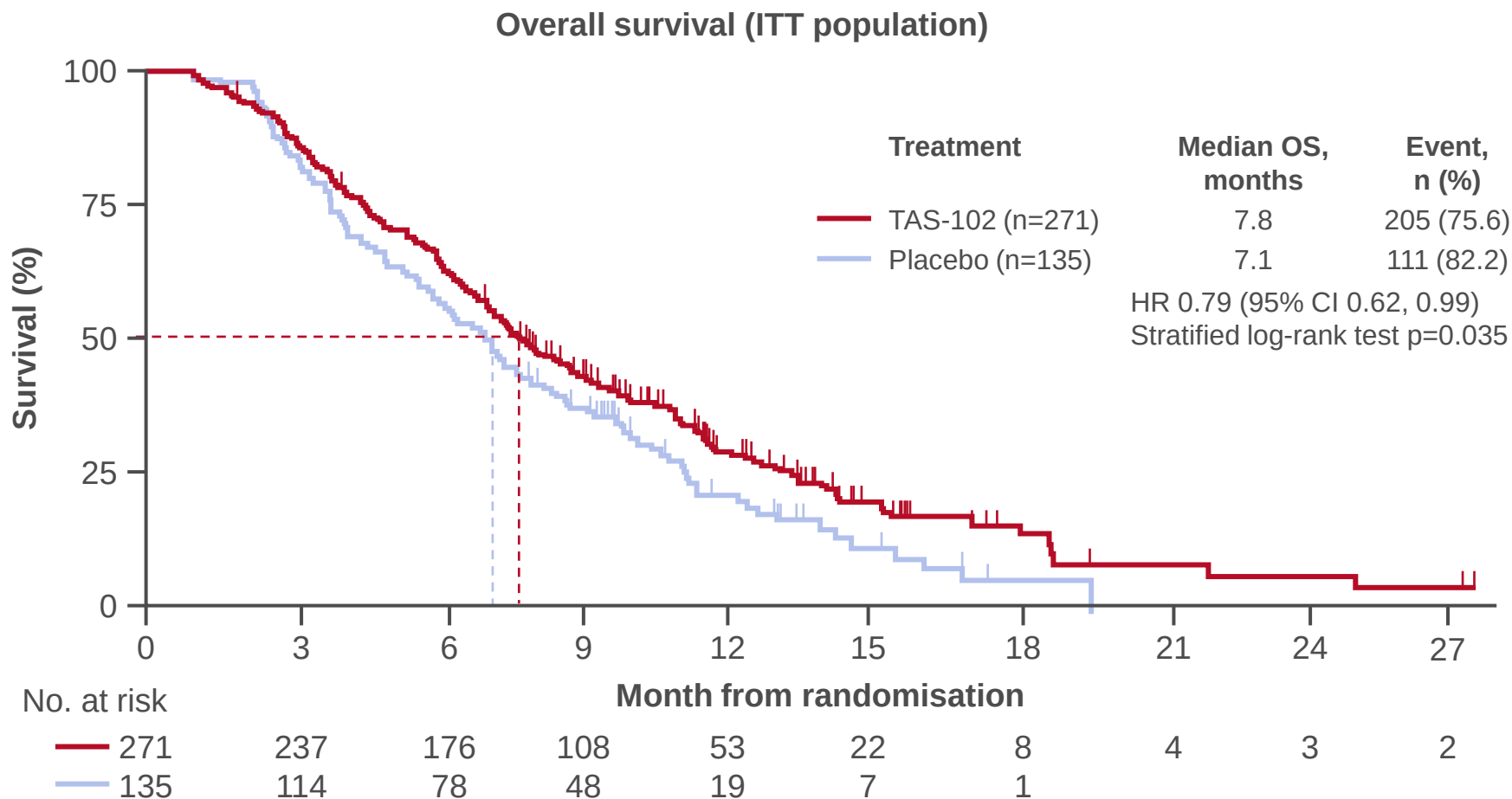
SECONDARY ENDPOINTS

- PFS, safety, ORR, DCR, DoR, TTF

*Administered po on d1–5 and 8–12 q4w.

465PD: TERRA: A randomized, double-blind, placebo-controlled phase 3 study of TAS-102 in Asian patients with metastatic colorectal cancer – Kim et al

Key results



465PD: TERRA: A randomized, double-blind, placebo-controlled phase 3 study of TAS-102 in Asian patients with metastatic colorectal cancer

– Kim et al

Conclusions

- **In East-Asian patients with mCRC who were refractory or intolerant to previous treatments TAS-102 statistically significantly prolonged OS and PFS**
- **No new safety concerns were reported for TAS-102**
- **These results indicate that TAS-102 may be an alternative treatment option for East-Asian patients with mCRC who were refractory or intolerant to previous treatments**

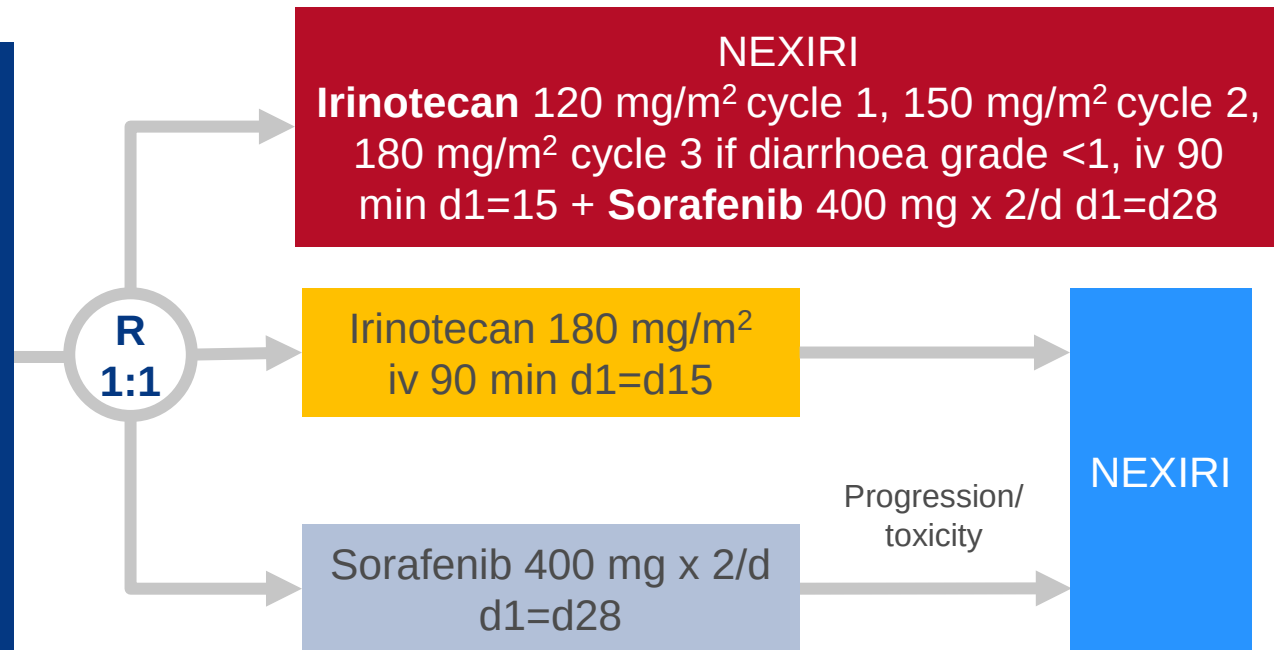
466PD: Sorafenib (Soraf) and irinotecan (Iri) combination for pretreated RAS-mutated metastatic colorectal cancer (mCRC) patients: A multicentre randomized phase II trial (NEXIRI 2-PRODIGE 27) – Samalin et al

Study objective

- To determine the 2-month PFS rate (2-PFS) of NEXIRI vs. irinotecan or sorafenib monotherapy in RAS-mutant mCRC patients after the failure of all approved active drugs

Key patient inclusion criteria

- CRC/mCRC with unresectable measurable lesions
 - PD after failure of all approved active drugs
 - KRAS mutated status
 - WHO PS ≤ 1
 - Bilirubin ≤ 1.5 ULN
- (n=173)



PRIMARY ENDPOINT

- 2-PFS (RECIST v1.1)

SECONDARY ENDPOINTS

- DCR, RR, toxicity (NCI-CTC v4.0), PFS, OS, QoL

466PD: Sorafenib (Soraf) and irinotecan (Iri) combination for pretreated RAS-mutated metastatic colorectal cancer (mCRC) patients: A multicentre randomized phase II trial (NEXIRI 2-PRODIGE 27) – Samalin et al

Key results

	NEXIRI (n=51)*	Irinotecan (n=52)*	Sorafenib (n=49)*	Crossover [†] (n=57)*
2-PFS rate, % (95% CI)	59 (39, 66)	23 (10, 33)	22 (8, 30)	51 (30, 54)
PR, n (%)	2 (4)	1 (2)	0 (0)	1 (2)
SD, n (%)	28 (55)	12 (23)	11 (22)	28 (49)
Disease control, n (%)	30 (59)	13 (25)	11 (22)	29 (51)
	NEXIRI (n=59)	Irinotecan (n=57)	Sorafenib (n=57)	Crossover (n=69)
Median PFS (range)	3.7 (2.2–4.9)	1.9 (1.7–2.1)	2.1 (1.9–2.5)	3.5 (2.1–3.7)

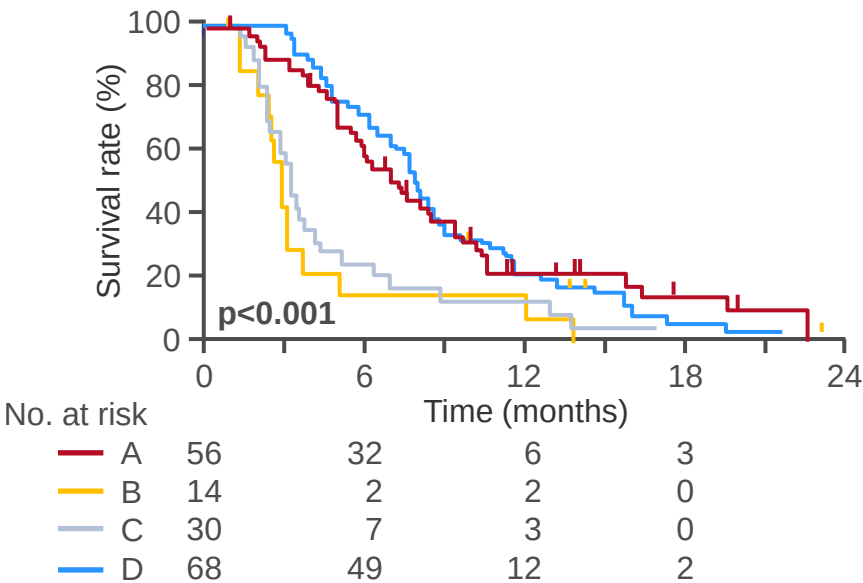
*Non-evaluable patients: NEXIRI: 6; irinotecan: 4; sorafenib: 8; crossover: 12

[†]Crossover patients – who crossed over to NEXIRI therapy due to PD on monotherapy

466PD: Sorafenib (Soraf) and irinotecan (Iri) combination for pretreated RAS-mutated metastatic colorectal cancer (mCRC) patients: A multicentre randomized phase II trial (NEXIRI 2-PRODIGE 27) – Samalin et al

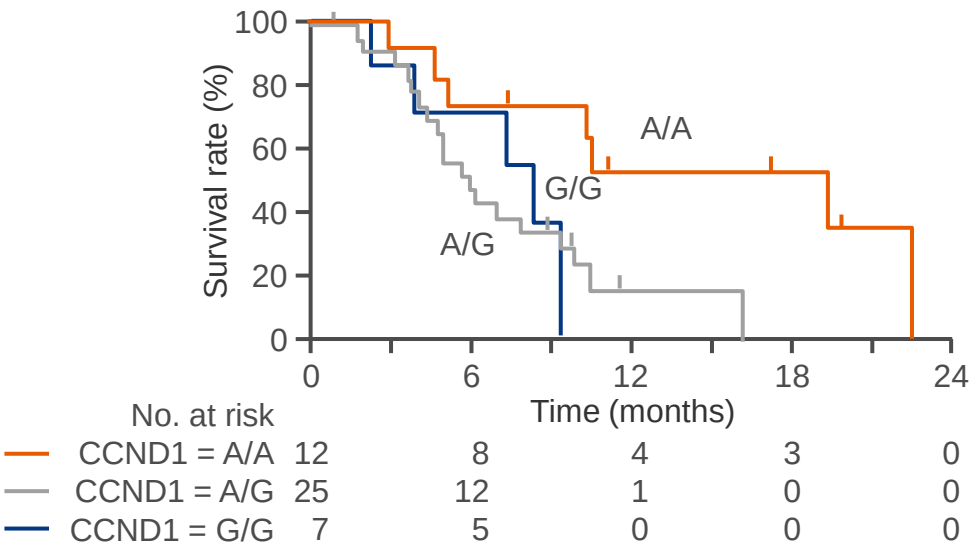
Key results (continued)

Overall survival according to treatment



A (NEXIRI)	B (Irinotecan)	C (Sorafenib)	D (Crossover)
7.2 (5.8, 9.4)	3 (2.1, 3.8)	3.3 (2.5, 4.2)	7.9 (7.1, 8.7)

Overall survival according to CCND1* genotype



Months (95% CI)	A/A	A/G + G/G
NEXIRI	19.6 (4.8, N/A)	6.2 (4.9, 9.4)
Sorafenib	3.0 (2.3, N/A)	3.3 (1.5, 4.4)

*CCND1 is the gene for cyclin-D1.

466PD: Sorafenib (Soraf) and irinotecan (Iri) combination for pretreated RAS-mutated metastatic colorectal cancer (mCRC) patients: A multicentre randomized phase II trial (NEXIRI 2-PRODIGE 27) – Samalin et al

Key results (continued)

- All listed AEs are grade 3, unless otherwise indicated

	NEXIRI (n=57)	Irinotecan (n=56)	Sorafenib (n=57)	Crossover (n=69)
Diarrhoea	15 (26.3)	4 (7.1)	4 (7)	15 (21.7)
Hand-foot syndrome	11 (19.3)	0 (0)	9 (15.8)	6 (8.7)
Haematological AEs				
Neutropenia (grade 3)	9 (15.8)	3 (5.5)	0 (0)	1 (1.4)
Neutropenia (grade 4)	1 (1.8)	0 (0)	0 (0)	0 (0)
Febrile neutropenia	3 (5.3)	0 (0)	0 (0)	0 (0)
Anaemia	1 (1.8)	2 (3.6)	0 (0)	3 (4.3)
Thrombocytopenia	1 (1.8)	1 (1.8)	0 (0)	1 (1.4)

466PD: Sorafenib (Soraf) and irinotecan (Iri) combination for pretreated RAS-mutated metastatic colorectal cancer (mCRC) patients: A multicentre randomized phase II trial (NEXIRI 2-PRODIGE 27) – Samalin et al

Conclusions

- **NEXIRI therapy was shown to be effective for refractory RAS-mutant mCRC patients**
- **CCND1 rs9344 status may be of use as a predictive factor for treatment response in patients on NEXIRI**
- **These results justify comparing NEXIRI to regorafenib monotherapy in a CCND1 rs9344 A/A patient subgroup**



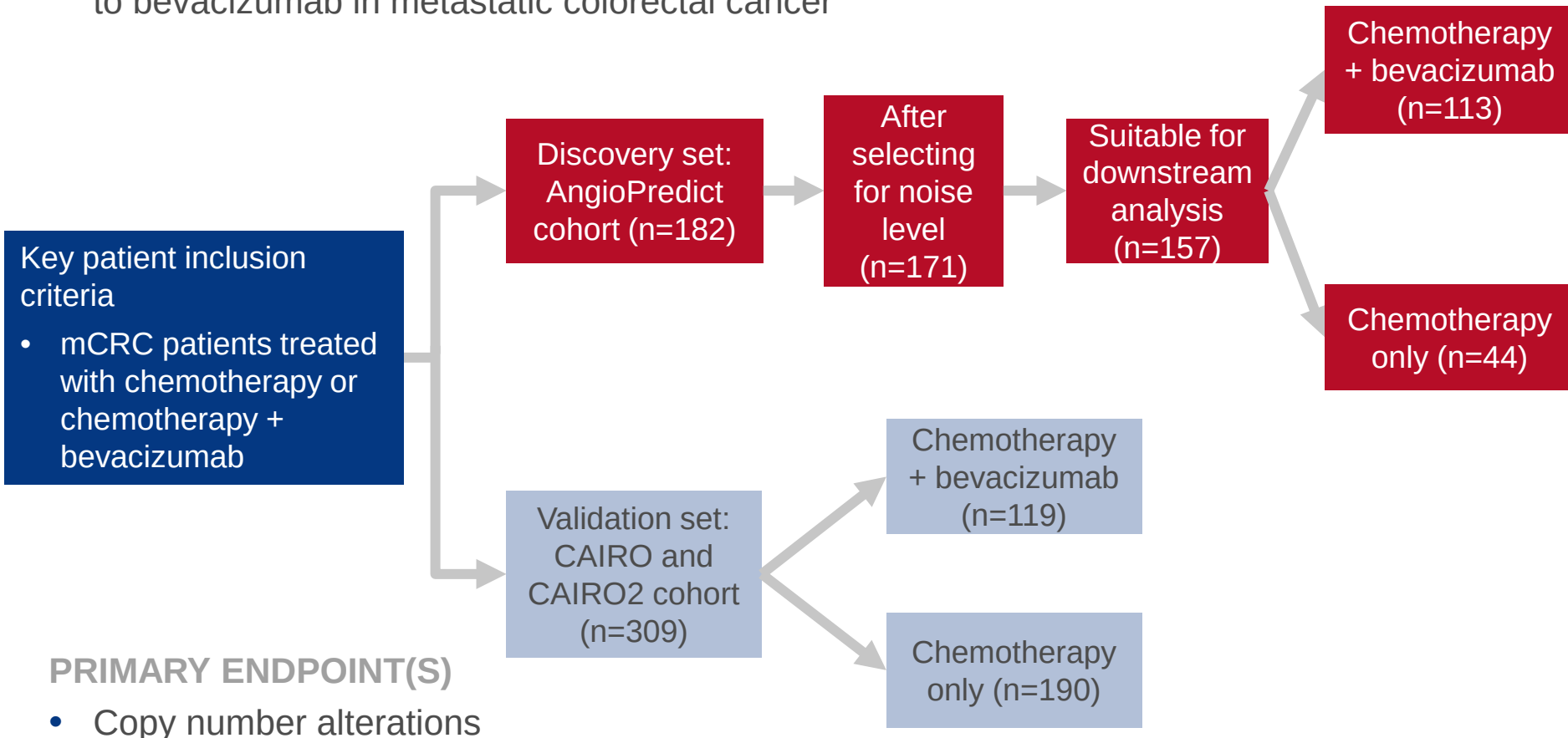
Metastatic Colorectal Cancer

**SCREENING, BIOMARKERS,
PROGNOSTIC MARKERS AND
SURVEILLANCE**

53PD: Copy number alterations as predictive biomarkers for response to bevacizumab in metastatic colorectal cancer – Van Grieken et al

Study objective

- To identify copy number alterations that could serve as predictive biomarkers of response to bevacizumab in metastatic colorectal cancer



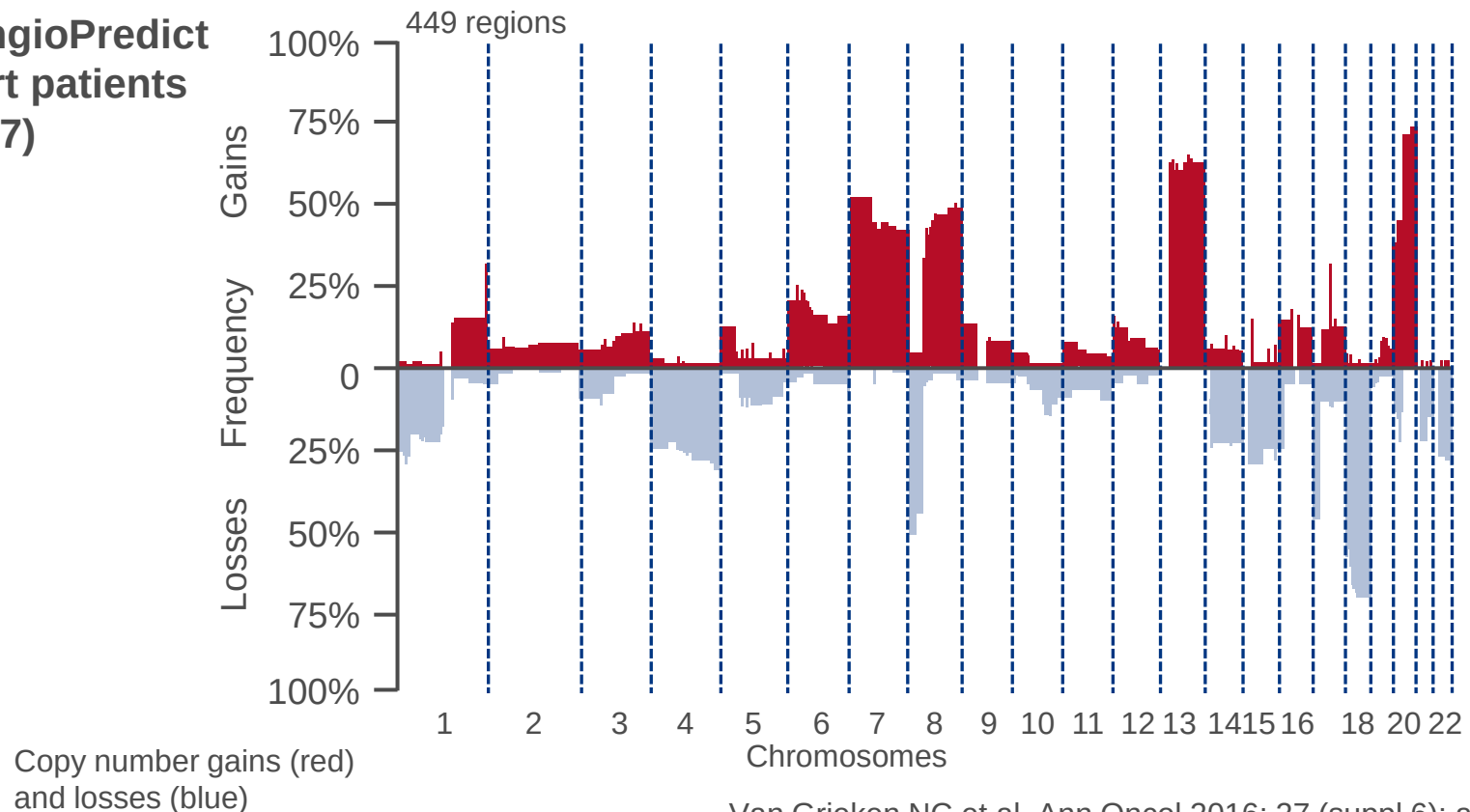
53PD: Copy number alterations as predictive biomarkers for response to bevacizumab in metastatic colorectal cancer – Van Grieken et al

Key results

- **Discovery set**

- Median PFS: 217 days. The frequency of copy number alterations observed in this cohort was similar to that reported in the literature

All AngioPredict cohort patients (n=157)

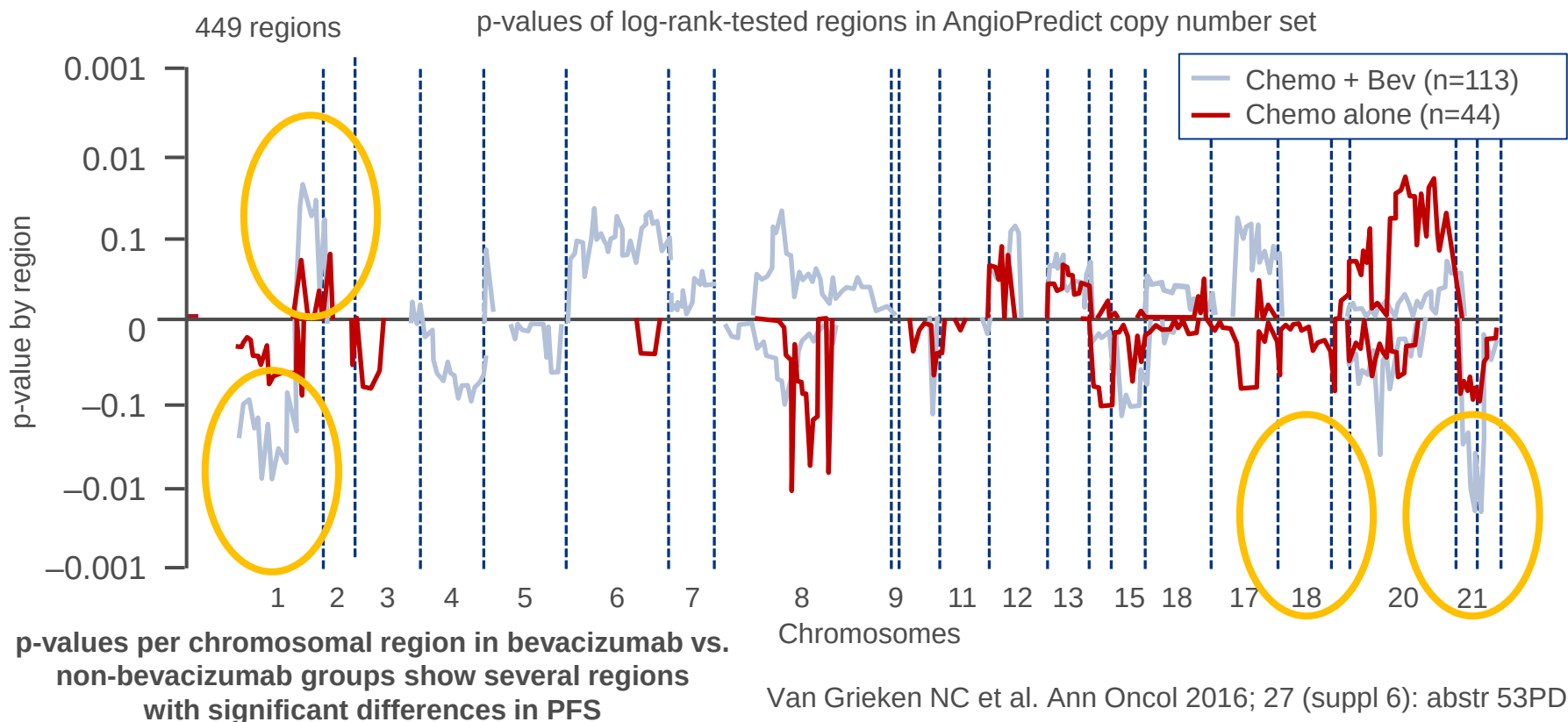


53PD: Copy number alterations as predictive biomarkers for response to bevacizumab in metastatic colorectal cancer – Van Grieken et al

Key results (continued)

- **Discovery set**

- Significant associations were observed between copy number alterations and PFS in patients receiving bevacizumab + chemotherapy ($p=0.002$)
- No association was observed in patients receiving chemotherapy only



53PD: Copy number alterations as predictive biomarkers for response to bevacizumab in metastatic colorectal cancer – Van Grieken et al

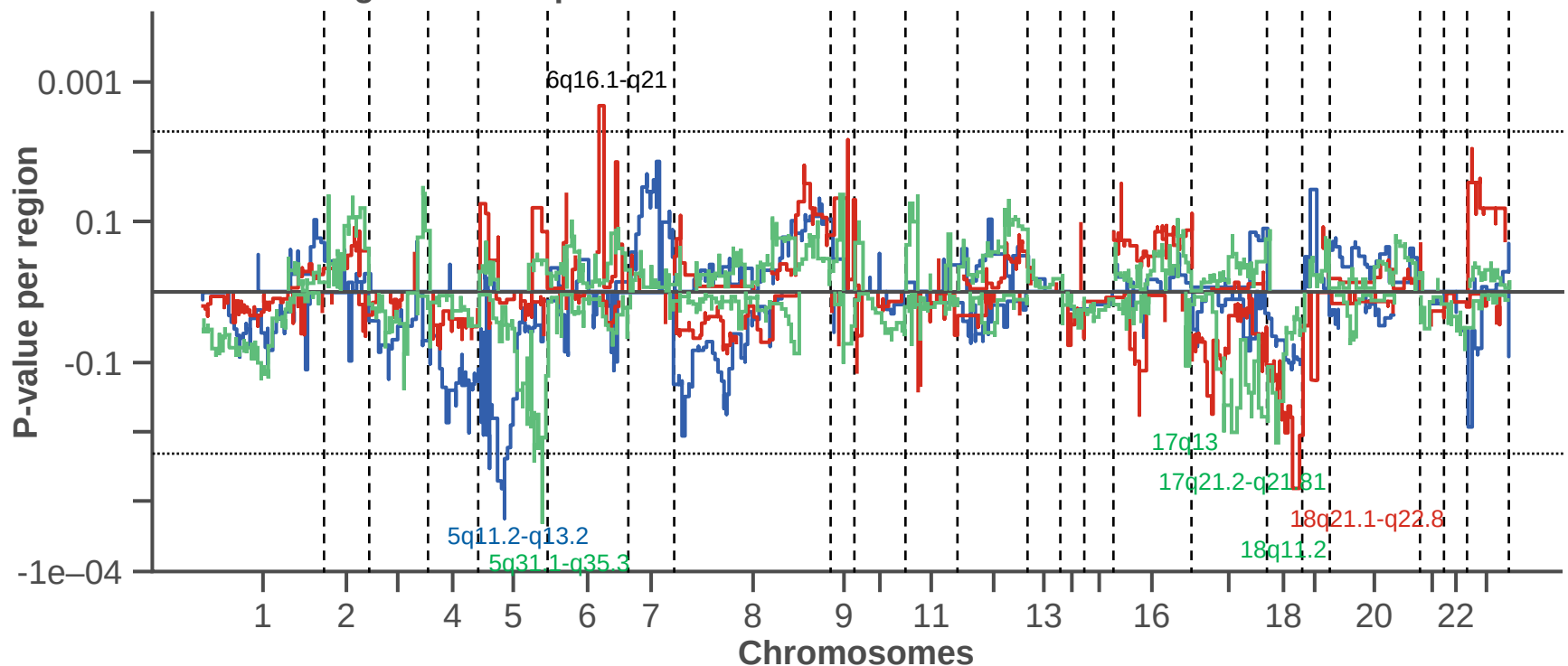
Key results (continued)

- **Validation in CAIRO2**

- The predictive value of loss at chromosome 18q12.1-18q21.32 was assessed in the AngioPredict cohort and confirmed using data from the CAIRO/CAIRO2 trials

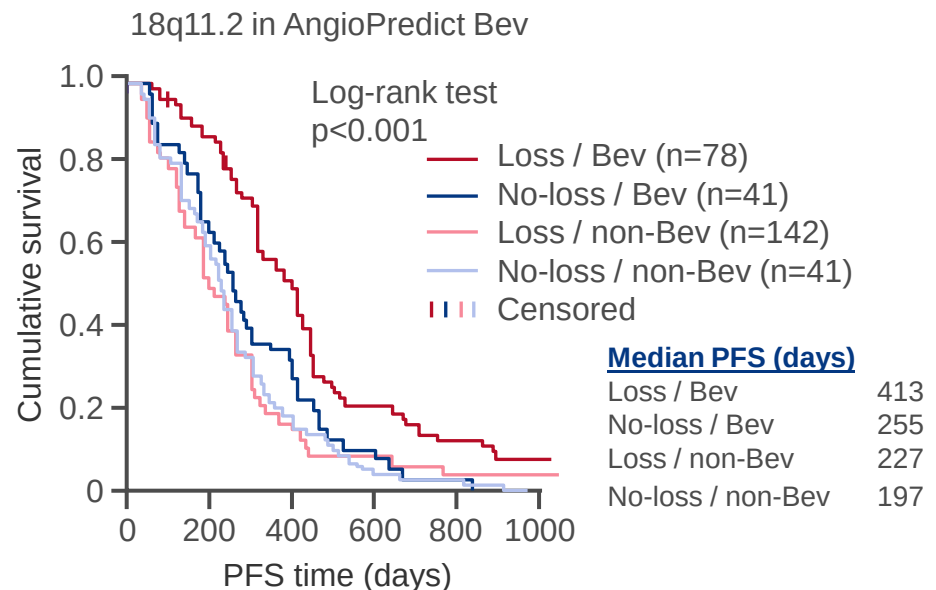
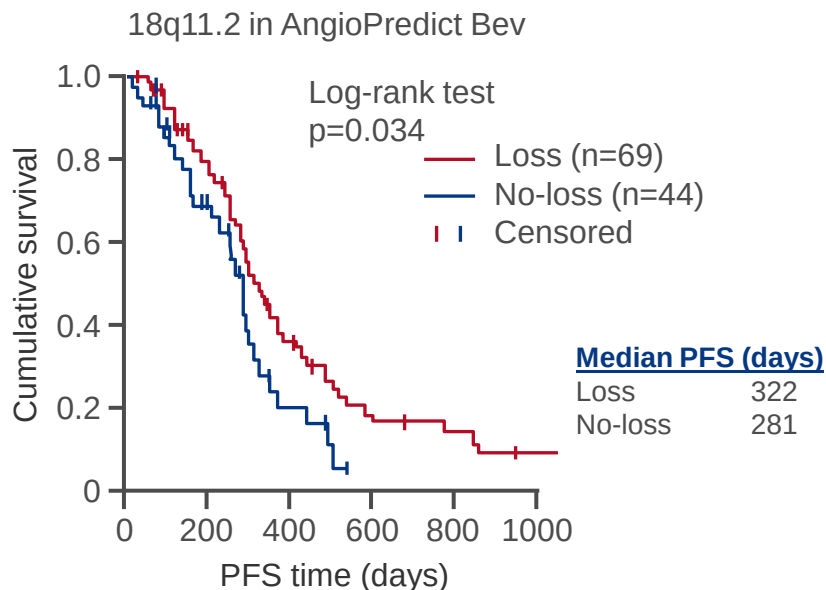
p-values of log-rank tested regions in CAIRO/CAIRO2 copy number set.

The green line represents tumours treated with bevacizumab



53PD: Copy number alterations as predictive biomarkers for response to bevacizumab in metastatic colorectal cancer – Van Grieken et al

Key results (continued)



Conclusions

- Loss of chromosome 18q12.1-18q21.32 may be predictive of response to bevacizumab regimens in two independent cohorts of patients with mCRC
- Identification of this mutation may be used as a candidate biomarker for response to bevacizumab
- Expansion of the AngioPredict non-bevacizumab group and further validation in other series is currently underway

456O: Circulating tumor DNA and circulating tumor cells as predictor of outcome in the PRODIGE14-ACCORD21-METHEP2 phase II trial

– Bidard et al

Study objective

- To report the detection rate and prognostic impact of circulating tumour DNA (ctDNA) and circulating tumour cell (CTC) levels in patients from three randomised phase 2 clinical trials

Key patient inclusion criteria

- Colorectal cancer
 - Potentially resectable liver metastases
 - No prior treatment
- (n=153)



1L regimen
Targeted therapy
(cetuximab or bevacizumab
according to KRAS status)
+ polychemotherapy
(tri-chemotherapy or
bi-chemotherapy)

PD

Patients were scheduled for liver surgery
if adequate response was observed

PRIMARY ENDPOINT(S)

- Resection rate (R0/R1)
- ctDNA and CTC levels

SECONDARY ENDPOINTS

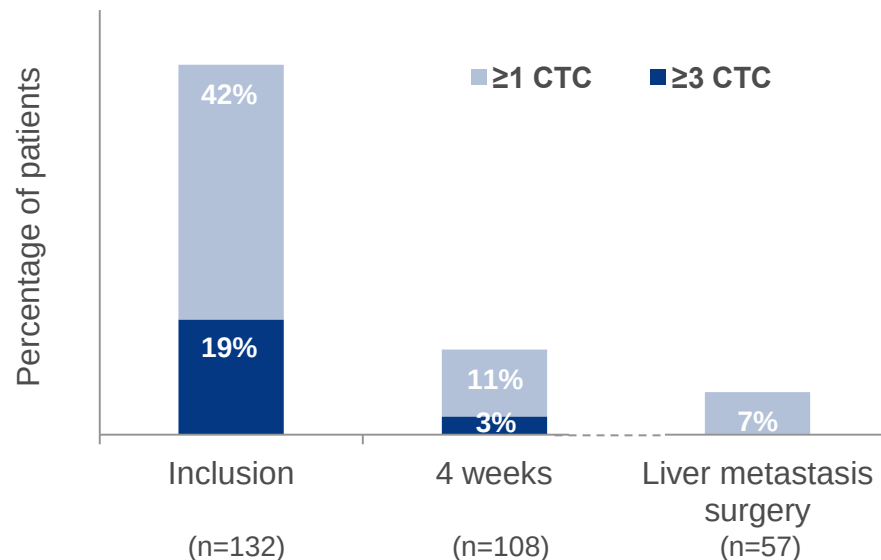
- OS

456O: Circulating tumor DNA and circulating tumor cells as predictor of outcome in the PRODIGE14-ACCORD21-METHEP2 phase II trial

– Bidard et al

Key results

- All patients had non-resectable liver metastases (>25% in 55% of patients), with unresected primary tumours in 67% and unresected lung metastases in 11% of patients
- The presence of ≥ 1 CTC at baseline and at 4 weeks was linked to baseline extent (%) of liver involvement ($p=0.004$ and 0.05 , respectively)
- CTC levels decreased during therapy ($p<0.0001$), with only 3 of 108 patients (3%) showing high levels after 4 weeks
 - The decrease did not differ according to chemotherapy type (i.e. bi- vs. tri-chemotherapy)



456O: Circulating tumor DNA and circulating tumor cells as predictor of outcome in the PRODIGE14-ACCORD21-METHEP2 phase II trial

– Bidard et al

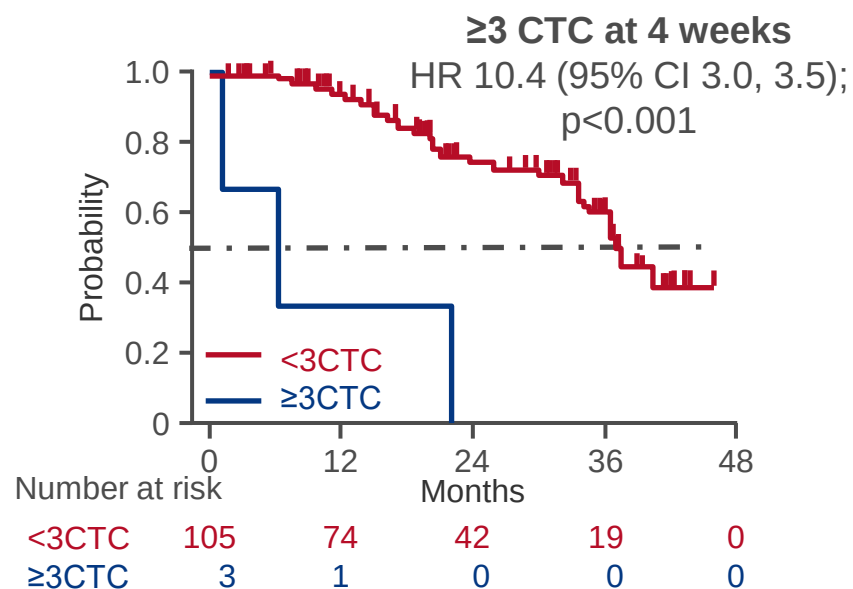
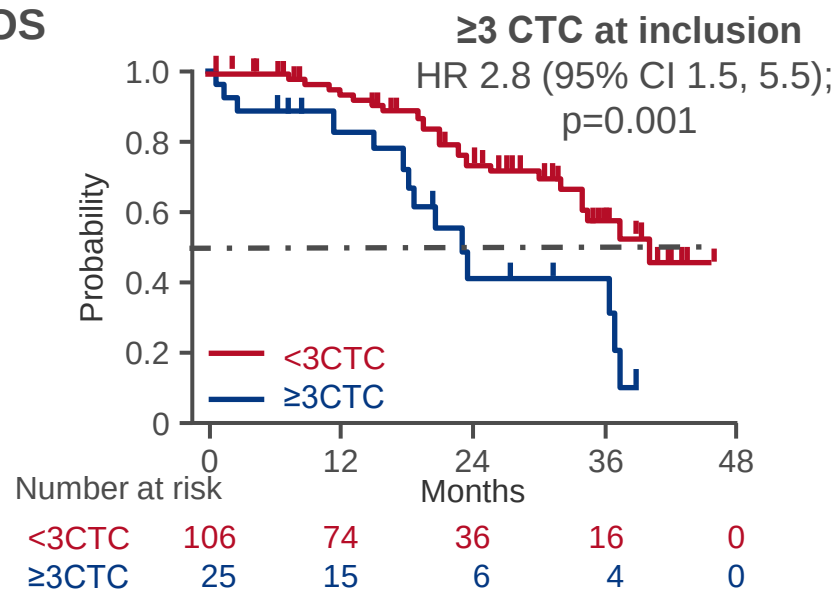
Key results (continued)

- Persistently high CTC count was associated with a lower R0/R1 liver metastasis resection rate (p=0.06)

At 4 weeks	R0/R1 resection of liver metastasis NOT ACHIEVED, n (%)	R0/R1 resection of liver metastasis ACHIEVED, n (%)
<2 CTC	41 (39)	64 (61)
≥3 CTC	3 (100)	0

- Elevated CTC levels were associated with reduced OS, both at inclusion and at 4 weeks

OS

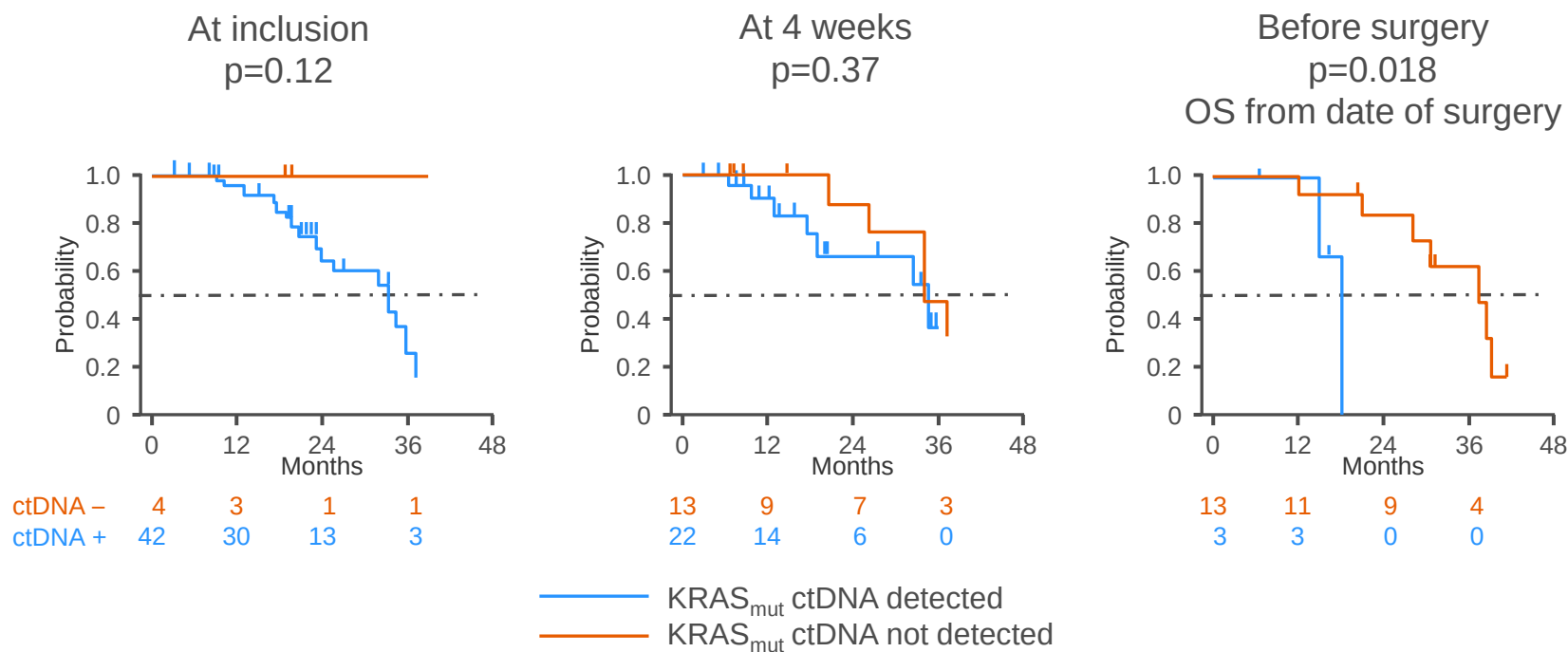


456O: Circulating tumor DNA and circulating tumor cells as predictor of outcome in the PRODIGE14-ACCORD21-METHEP2 phase II trial

– Bidard et al

Key results (continued)

- KRAS*-mutated ctDNA was significantly associated with a lower rate of R0/R1 liver metastases resection ($p=0.004$) after 4 weeks of therapy



456O: Circulating tumor DNA and circulating tumor cells as predictor of outcome in the PRODIGE14-ACCORD21-METHEP2 phase II trial

– Bidard et al

Key results (continued) Correlation between liquid and solid biopsy

Plasma DNA (ddPCR)

		Baseline (n=125)		4 weeks (n=54)		Surgery (n=50)	
		<i>KRAS</i> _{mut}	<i>KRAS</i> _{wt}	<i>KRAS</i> _{mut}	<i>KRAS</i> _{wt}	<i>KRAS</i> _{mut}	<i>KRAS</i> _{wt}
Tumour tissue (standard techniques), n (%)	<i>KRAS</i> _{mut}	42 (91)	4 (9)	22 (63)	13 (37)	4 (19)	17 (81)
	<i>KRAS</i> _{wt}	6 (8)	73 (92)	1 (5)	18 (95)	1 (3)	28 (97)
Sensitivity, %		91		63		15	
Specificity, %		92		95		97	
Global accuracy, %		92		74		64	

Decrease of *KRAS*_{mut} ctDNA/cfDNA during therapy: p=0.0001

Conclusions

- Although CTC count is a prognostic factor for outcomes in patients with colorectal cancer, it is rare at baseline or during therapy
- There is an excellent concordance between liquid (ctDNA) and solid biopsies
- Change of ctDNA levels during therapy is a very promising biomarker
 - Persistently detectable ctDNA levels during therapy may be:
 - Predictive of later R0/R1 resection of liver metastases (after 4 weeks of chemotherapy)
 - Prognostic for OS (prior to liver metastases surgery)

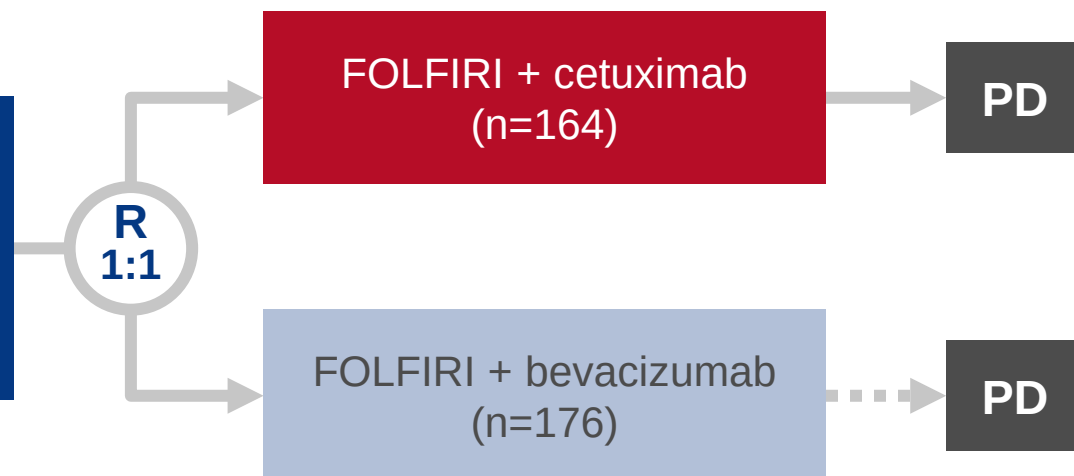
457O: MiR-31-3p is a predictive biomarker of cetuximab response in FIRE3 clinical trial – Laurent-Puig et al

Study objective

- To assess whether MiR-31-3p expression can predict cetuximab efficacy on survival in RAS wild-type mCRC patients

Key patient inclusion criteria

- RAS wild-type mCRC
 - ECOG PS 0–2
- (n=340)



PRIMARY ENDPOINT(S)

- PFS, OS

miR-31-3p expression

- MiR-31-3p expression was measured by qRT-PCR after extraction from 370 RAS wt paraffin embedded tumour samples
 - Patients were divided into “low” or “high” miR-31-3p expressors based on pre-defined cut-off threshold

SECONDARY ENDPOINTS

- OR, DoR, ETS, prediction of response by miR-31-3p expression

457O: MiR-31-3p is a predictive biomarker of cetuximab response in FIRE3 clinical trial – Laurent-Puig et al

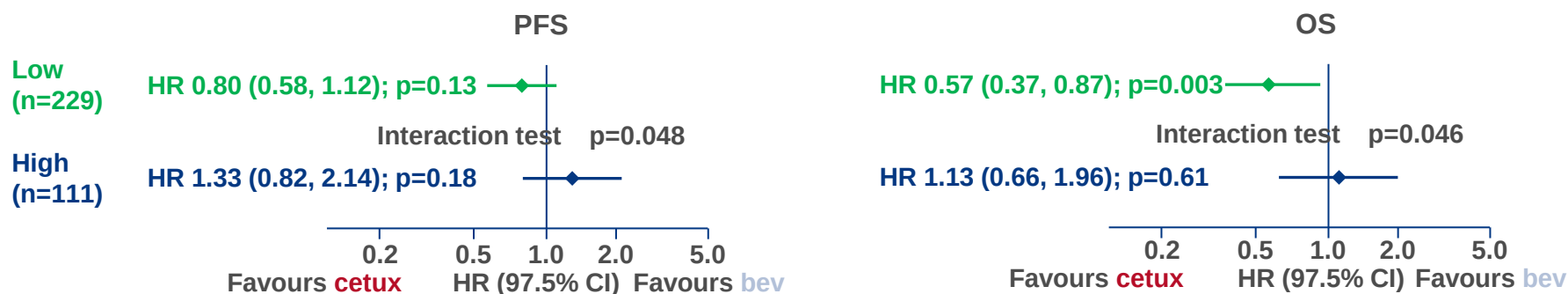
Key results

Treatment effect on PFS and OS

- Overall HR (95% CI) not adjusted

	PFS	OS
ITT RAS wt	HR 0.93 (0.74, 1.17); p=0.54	HR 0.70 (0.53, 0.92); p=0.011
mITT	HR 0.92 (0.73, 1.16); p=0.46	HR 0.71 (0.53, 0.93); p=0.014

- In miR-31-3p subgroups: HR (97.5% CI) adjusted on age, number of organs and BRAF status



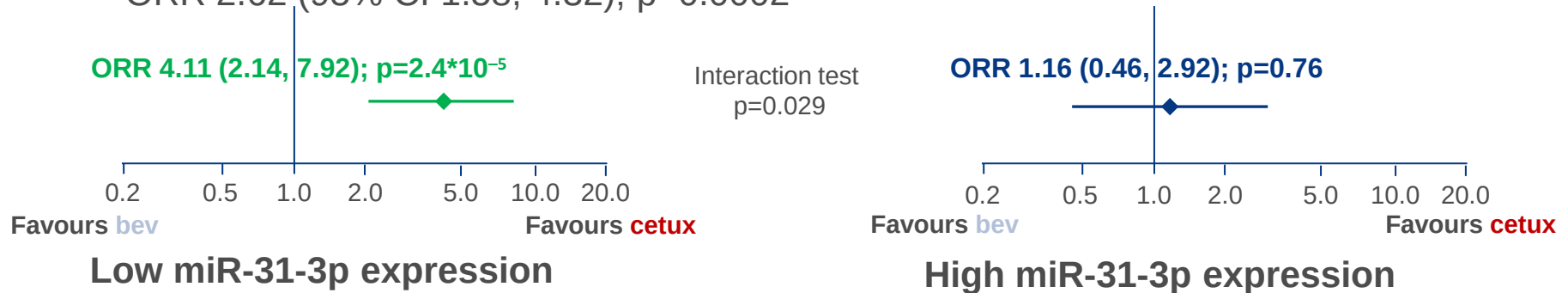
- miR-31-3p levels were predictive of treatment effects on PFS and OS; a benefit of cetuximab therapy was seen only in low miR-31-3p expressors vs. high-expression peers
 - Similar results were observed for ORR

457O: MiR-31-3p is a predictive biomarker of cetuximab response in FIRE3 clinical trial – Laurent-Puig et al

Key results (continued)

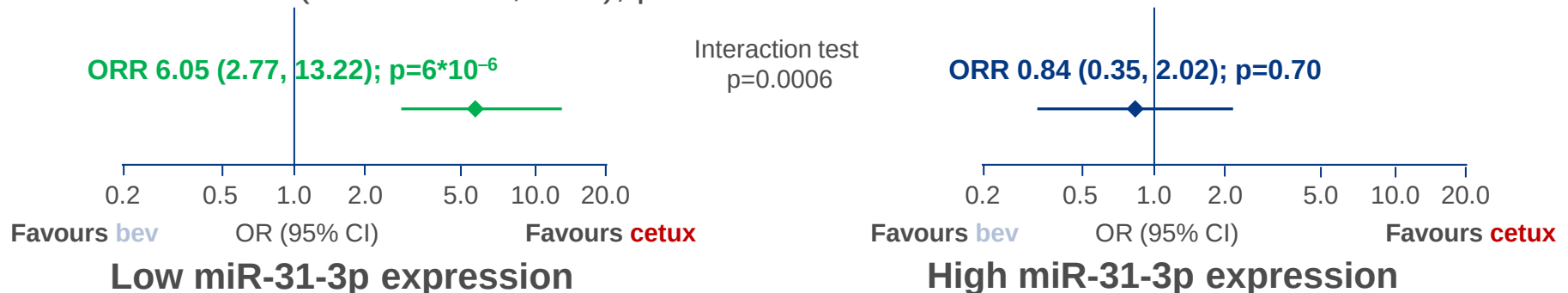
• ETS

– ORR 2.62 (95% CI 1.58, 4.32); $p=0.0002$



• DoR

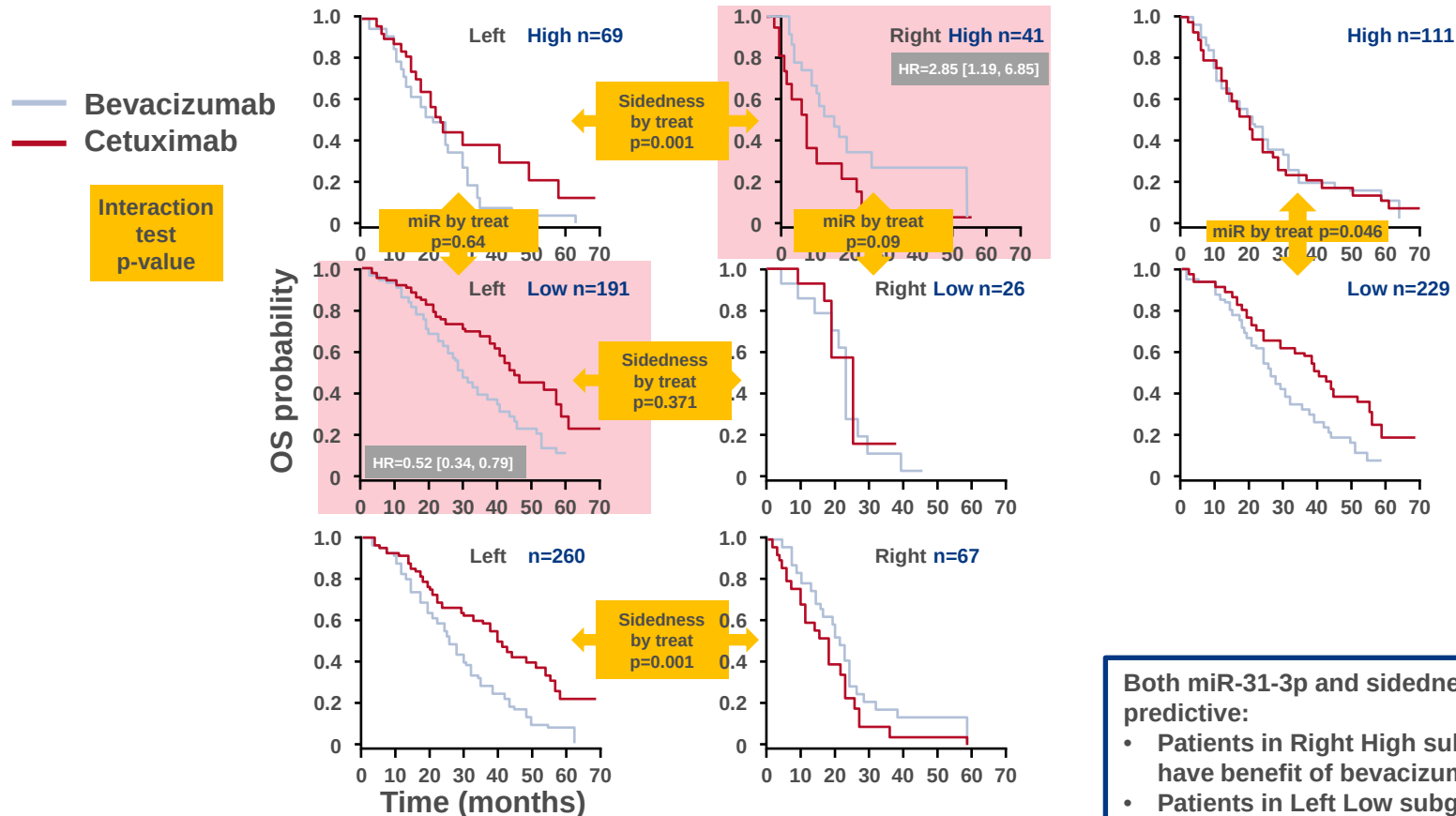
– ORR 2.36 (95% CI 1.43, 3.90); $p=0.0008$



457O: MiR-31-3p is a predictive biomarker of cetuximab response in FIRE3 clinical trial – Laurent-Puig et al

Key results (continued)

OS by miR-31-3p subgroups and sidedness



457O: MiR-31-3p is a predictive biomarker of cetuximab response in FIRE3 clinical trial – Laurent-Puig et al

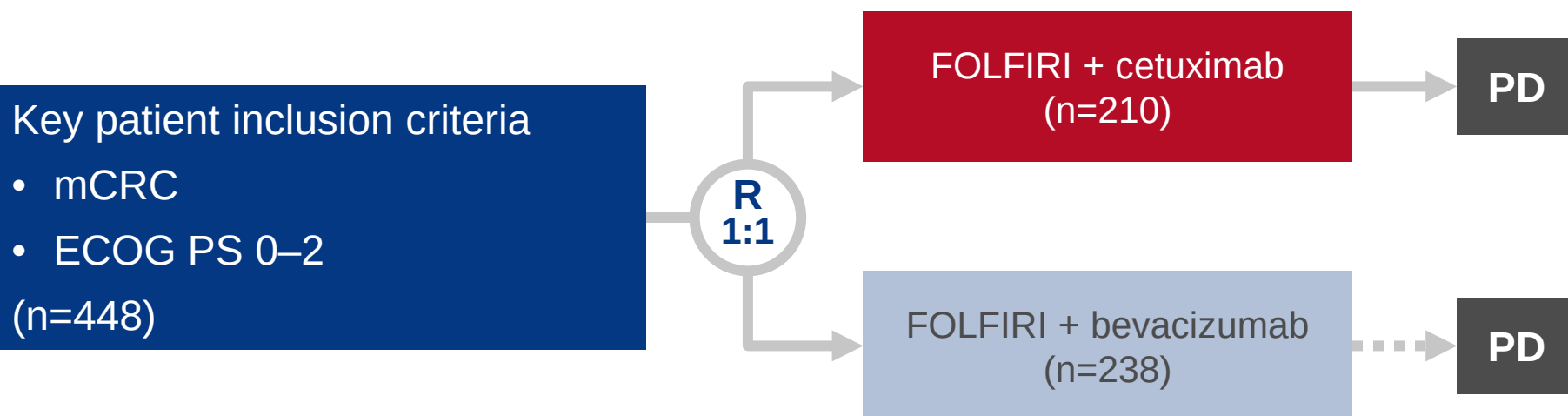
Conclusions

- miR-31-3p predicted cetuximab effect on OS, PFS and ORR in patients with mCRC
- The beneficial effect of cetuximab seen in the FIRE-3 study was restricted to patients with low miR-31-3p levels
- miR-31-3p may be clinically useful to select patients for 1L anti-EGFR therapy, and to identify those with low miR-31-3p who will have a better DoR leading to more frequent resection

468PD: Evaluation for surgical treatment options in metastatic colorectal cancer (mCRC) – a retrospective, central evaluation of FIRE-3 – Neumann et al

Study objective

- A retrospective central radiographic review of tumours lesions with regard to surgical treatment options ($\pm$ local thermic ablation, body radiation, etc.) in addition to systemic treatment in FIRE-3 trial conducted by 8 visceral surgeons and 3 medical oncologists



PRIMARY ENDPOINT(S)

- PFS, OS

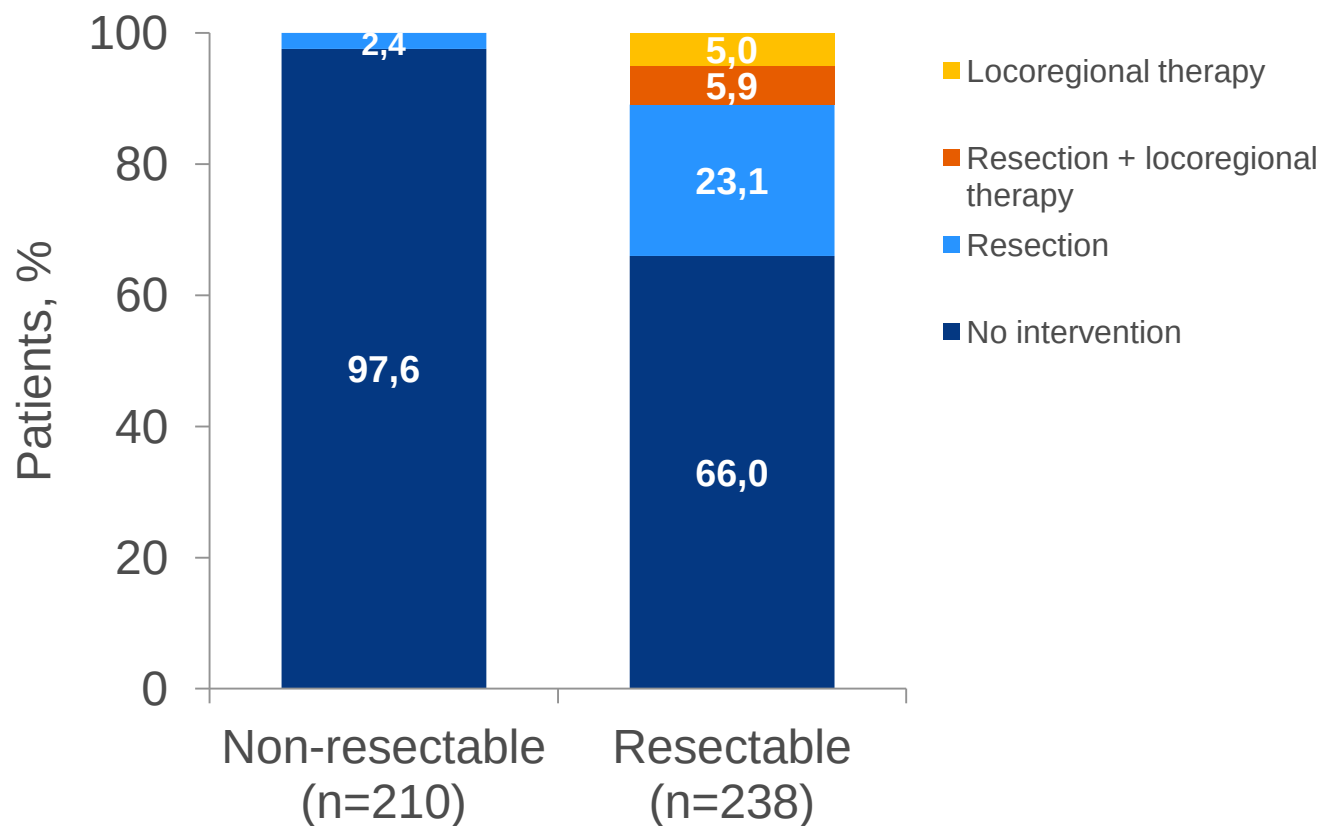
SECONDARY ENDPOINTS

- OR, DoR, ETS
- Evaluation of resectability based on archived scans (computed tomography/MRI) was performed at baseline (before study treatment) and at “best response”

468PD: Evaluation for surgical treatment options in metastatic colorectal cancer (mCRC) – a retrospective, central evaluation of FIRE-3 – Neumann et al

Key results

Comparison of resectable patients between the review data and reality

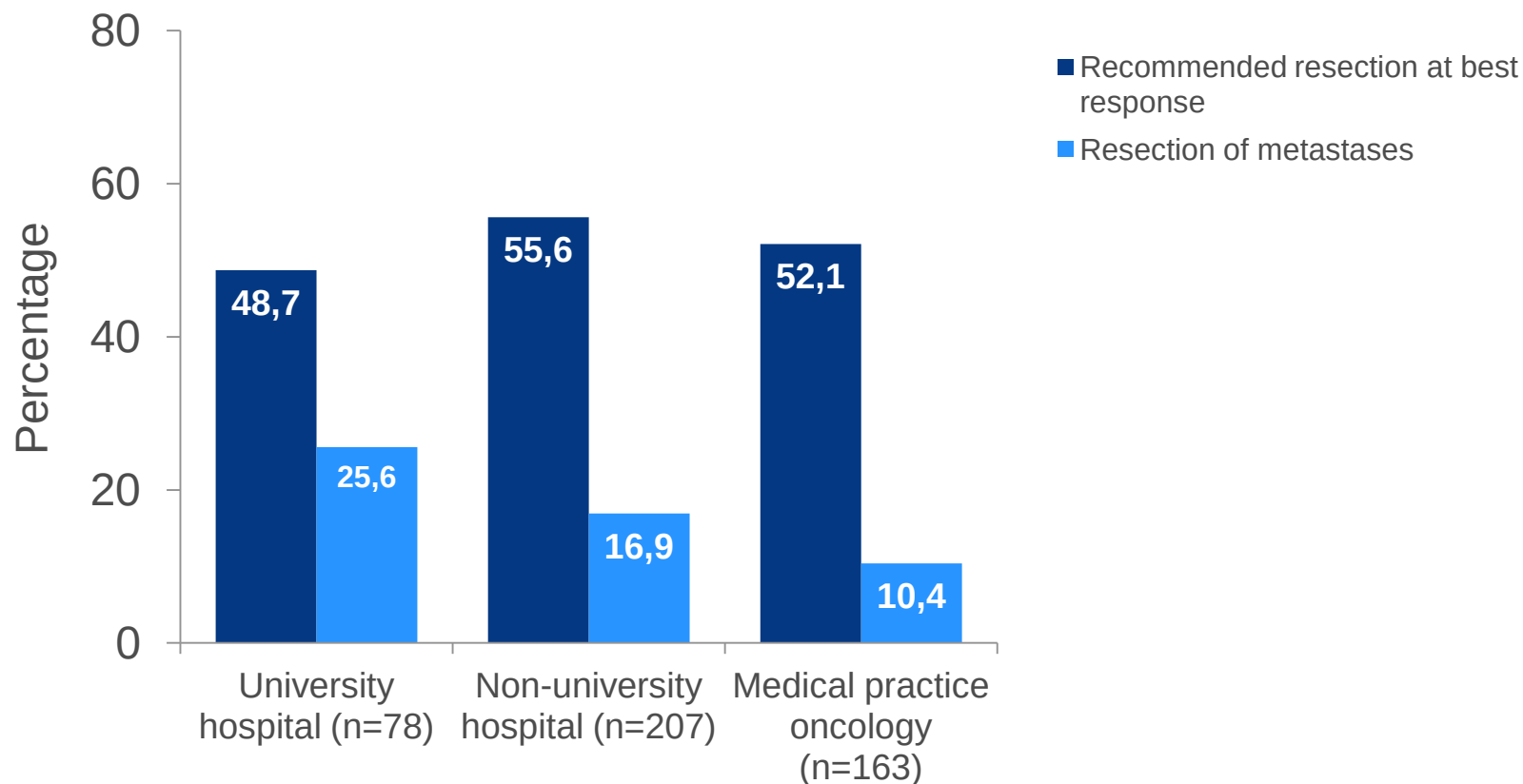


468PD: Evaluation for surgical treatment options in metastatic colorectal cancer (mCRC) – a retrospective, central evaluation of FIRE-3 – Neumann et al

Key results (continued)

- More patients were scheduled for resection of metastases in university hospitals than patients in other hospitals or medical practices ($p=0.02$)

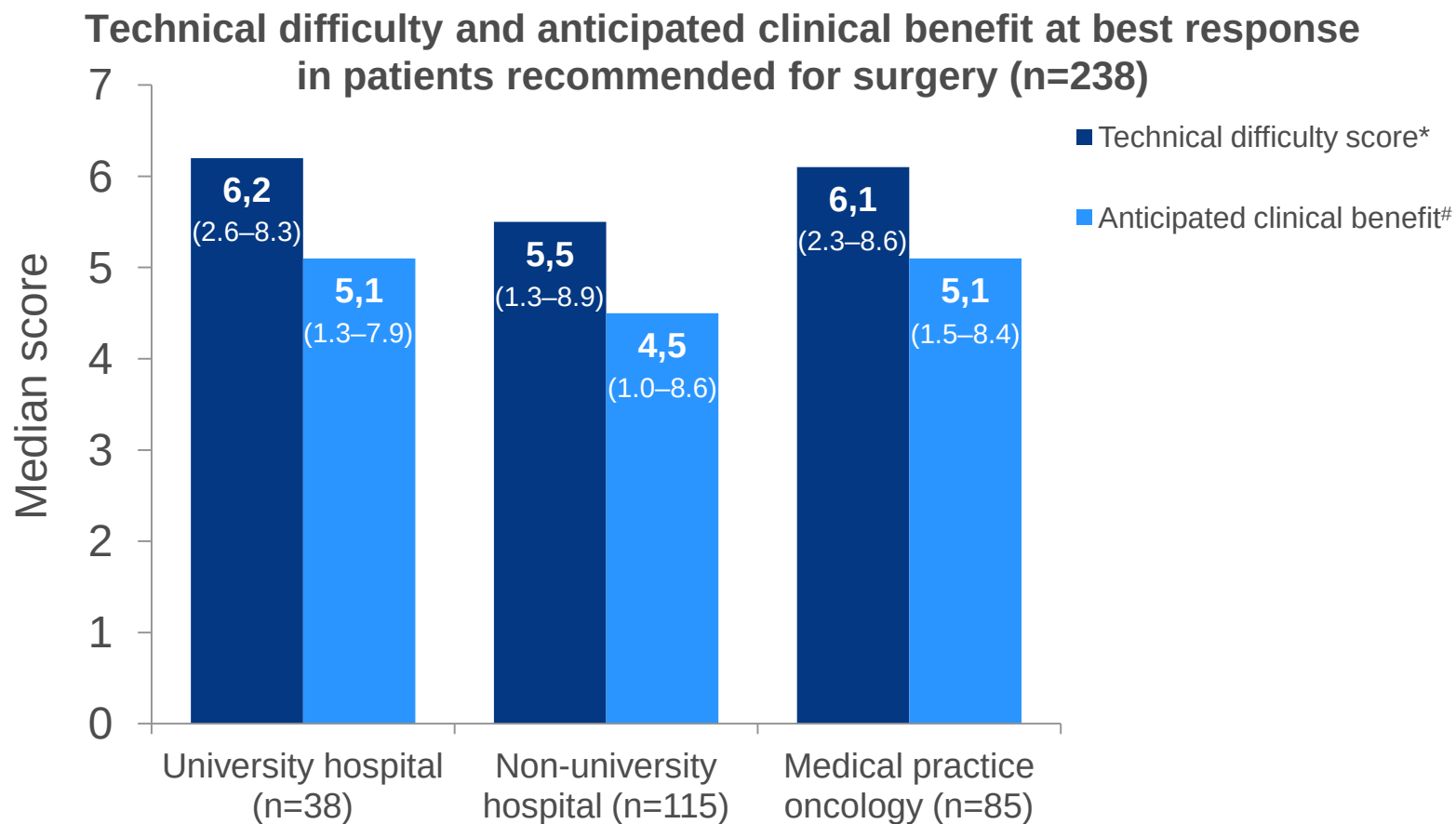
Influence of treatment context on resection of metastases



468PD: Evaluation for surgical treatment options in metastatic colorectal cancer (mCRC) – a retrospective, central evaluation of FIRE-3 – Neumann et al

Key results (continued)

- Potential interventions and anticipated clinical in patients treated in the different clinical settings were similar



*1=easy to 10=impossible; #1=great benefit to 10=no benefit.

Neumann U et al. Ann Oncol 2016; 27 (suppl 6): abstr 468PD

468PD: Evaluation for surgical treatment options in metastatic colorectal cancer (mCRC) – a retrospective, central evaluation of FIRE-3

– Neumann et al

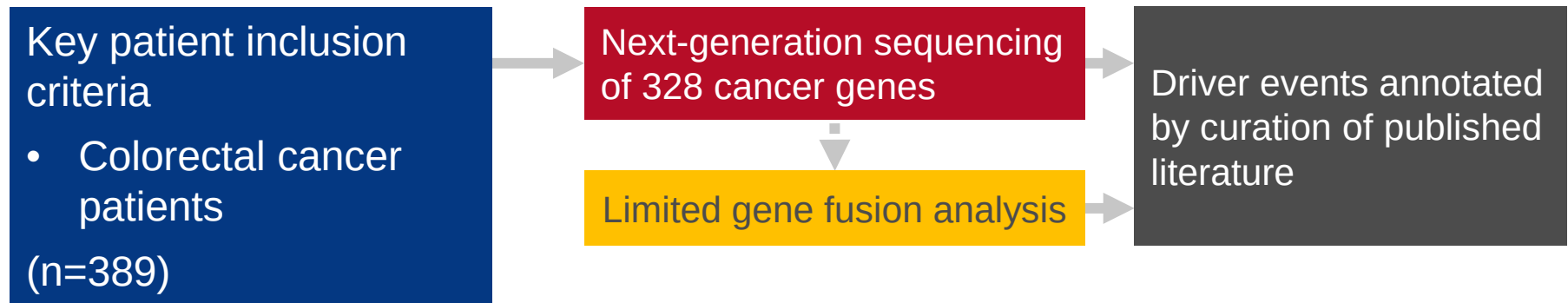
Conclusions

- In FIRE-3, there were more patients who were candidates for surgery than those who actually underwent resection
 - Missing clinical information and patient preferences can lead to overestimation of resectability
- It is recommended that during the course of treatment regular and pre-planned evaluation of resectability is undertaken at specialised centres

458O: Frequency of potentially actionable genetic alterations in EORTC SPECTAcolor – Folprecht et al

Study objective

- To assess whether new potential therapeutic targets can be identified through the EORTC Screening Platform for Efficient Clinical Trial Access (SPECTAcolor)



PRIMARY ENDPOINT(S)

- Identification of rare genomic targets

458O: Frequency of potentially actionable genetic alterations in EORTC SPECTAcOLOR – Folprecht et al

Key results

Most frequently-observed mutations

Mutation,%	MSS (n=370)			MSI-H (n=19)	
	Total	Left	Right	Total	p-value (location)
APC	77.8	80.8	73.6	21.1	0.20
TP53	72.2	76.5	62.3	52.6	0.017
KRAS	47.8	45.5	53.8	42.1	0.35
PIK3CA	17.6	14.1	25.5	47.4	0.029
FBXW7	11.1	12.2	8.5	36.8	0.53
BRAF	10.5	5.1	22.6	36.8	<0.0001
SOX9	8.1	6.2	13.2	21.1	0.075
SMAD4	7.6	7.1	9.4	0	0.64
ARD1A	5.1	5.5	3.8	0	0.33
NRAS	5.1	4.3	7.5	0	0.39

- MSS and MSI-H tumours harboured a median of 3 (range 0–16) and 8 (range 3–16) potential “driver” mutations, respectively

458O: Frequency of potentially actionable genetic alterations in EORTC SPECTAcOLOR – Folprecht et al

Key results (continued)

Genetic alterations of interest				
Mutations, %	MSS (n=370)			MSI-H (n=19)
	Total	Left	Right	Total
BRAF	10.5	5.1	22.6	37
BRCA2	1.6	0.8	3.8	5
HER2	1.9	2.0	1.0	
TSC1				16
Amplifications				
HER2	2.5			
FGFR 1/2/3	3.5			
Fusions				
AML4/ALK	Validations ongoing			
Immunohistochemistry				
MSI-H	4.0			

458O: Frequency of potentially actionable genetic alterations in EORTC SPECTAcOLOR – Folprecht et al

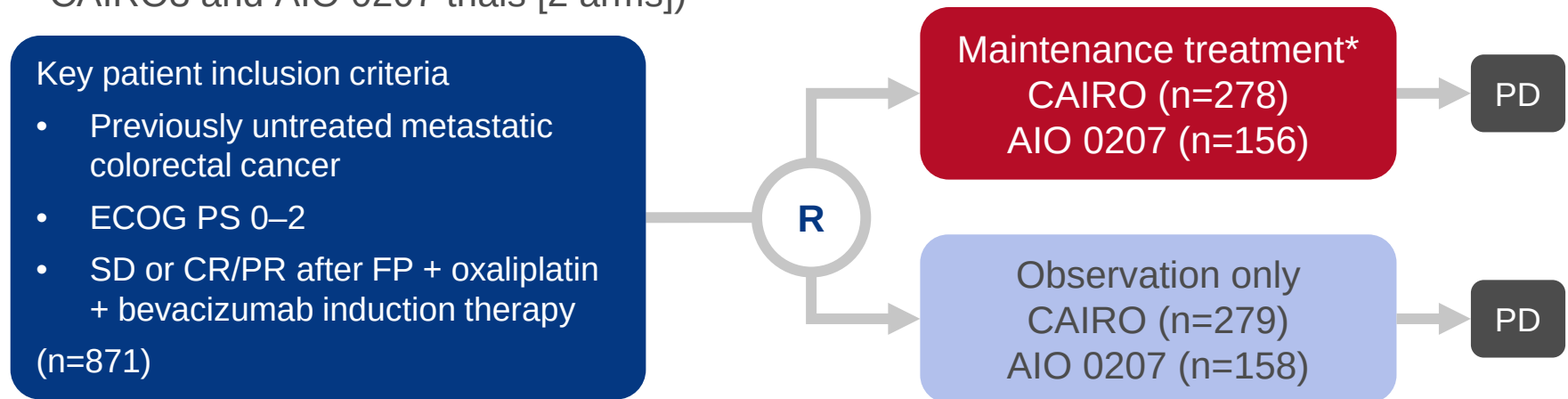
Conclusions

- Over 20% of patients with CRC have targetable genetic alterations
- The SPECTA programme provides an effective platform for identifying rare, potentially actionable genomic targets

463PD: Clinical factors influencing outcome in metastatic colorectal cancer (mCRC) patients treated with fluoropyrimidine and bevacizumab (FP+Bev) maintenance treatment (Tx) vs observation: A pooled analysis of the phase 3 CAIRO3 and AIO 0207 trials – Goey et al

Study objective

- To identify subgroups with clinical characteristics that maximally benefit from maintenance treatment with fluoropyrimidine (FP) + bevacizumab (pooled analysis of the phase 3 CAIRO3 and AIO 0207 trials [2 arms])



Methods

- Analysis of the effect of variables (sex, age, performance status, response to induction treatment, disease stage; primary tumour site and resection status, number of metastatic sites, synchronous vs. metachronous mCRC, LDH at randomisation, platelet count and CEA at start of induction treatment) on treatment
- Analysis of PFS1[†], PFS2[‡] and OS

*Maintenance therapy for CAIRO3 and AIO studies, FP + bevacizumab and capecitabine + bevacizumab, respectively;

[†]time to 1st progression; [‡]time to 2nd progression after FP + oxaliplatin + bevacizumab reintroduction

Goey K et al. Ann Oncol 2016; 27 (suppl 6): abstr 463PD

463PD: Clinical factors influencing outcome in metastatic colorectal cancer (mCRC) patients treated with fluoropyrimidine and bevacizumab (FP+Bev) maintenance treatment (Tx) vs observation: A pooled analysis of the phase 3 CAIRO3 and AIO 0207 trials – Goey et al

Key results

- Maintenance treatment vs. observation resulted in a highly significant benefit in
 - PFS1 (HR 0.40 [95% CI 0.34, 0.47])
 - PFS2 (HR 0.68 [95% CI 0.59, 0.80])
- Benefit of maintenance treatment was observed in all investigated subgroups
- Results for OS showed a marked heterogeneity between the two studies (HR 0.90 [95% CI 0.76, 1.05])
- Patients with elevated platelet count ($>400 \times 10^9/L$) at start of induction treatment had significantly more benefit from maintenance treatment vs. observation in PFS1 and PFS2
 - Tests for interaction were $p < 0.05$

463PD: Clinical factors influencing outcome in metastatic colorectal cancer (mCRC) patients treated with fluoropyrimidine and bevacizumab (FP+Bev) maintenance treatment (Tx) vs observation: A pooled analysis of the phase 3 CAIRO3 and AIO 0207 trials – Goey et al

Conclusions

- **These results indicate that in the 1L treatment of mCRC, fluoropyrimidine + bevacizumab maintenance treatment is associated with significant benefit compared with observation alone**
- **All subgroups included in this study showed treatment benefit with maintenance treatment vs. observation alone**
- **Patient response to fluoropyrimidine + bevacizumab maintenance treatment could be predicted from platelet count at start of induction treatment; this was a significant predictive factor for effect size**

LBA23: A novel epigenetic immunoassay approach to profiling circulating nucleosomes for CRC detection – Herzog et al

Study objective

- To evaluate combined Nu.Q™ blood score and numeric FIT score as a triage approach for positive FIT in an average risk population

Key patient inclusion criteria

- FIT+ colonoscopic confirmation of diagnosis* (n=1907)

Patients were classified into 3 groups by colonoscopy results: CRC, adenoma and clean bowel

Analysis of 10 µL serum samples (Nu.Q™ ELISA blood tests)

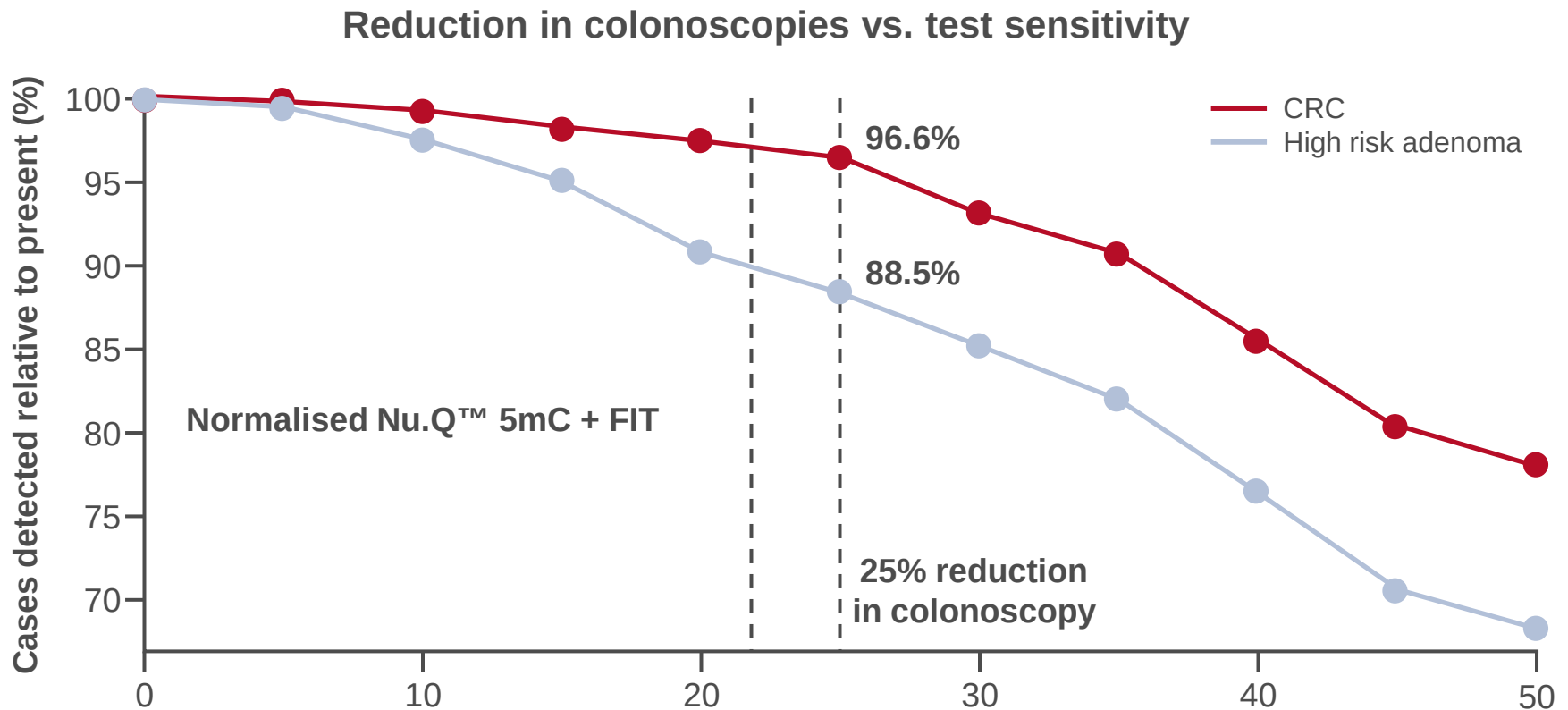
LDA developed algorithm to identify individuals with no evidence of cancer

PRIMARY ENDPOINT(S)

- To identify individuals with low risk adenomas or no findings on colonoscopy

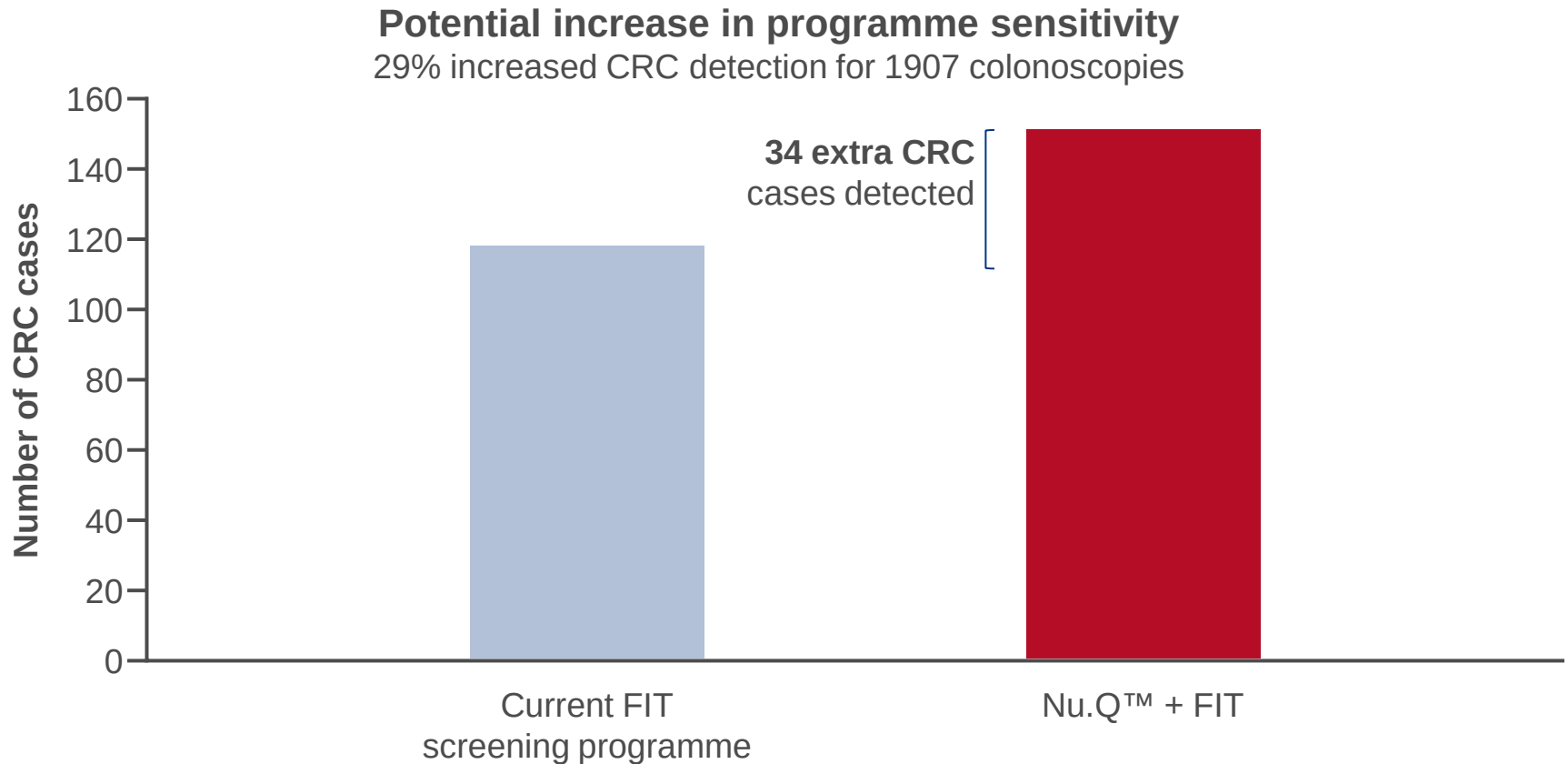
LBA23: A novel epigenetic immunoassay approach to profiling circulating nucleosomes for CRC detection – Herzog et al

Key results



LBA23: A novel epigenetic immunoassay approach to profiling circulating nucleosomes for CRC detection – Herzog et al

Key results



LBA23: A novel epigenetic immunoassay approach to profiling circulating nucleosomes for CRC detection – Herzog et al

Conclusions

- **Nu.QTM blood tests (age-adjusted) along with the FIT score can be used to decrease non screen-relevant colonoscopies in FIT+ individuals with minimal reduction in cancer detection**
- **These results imply that the test could reduce the number of unnecessary colonoscopies and ease pressure on colonoscopy capacity or alternatively, identify more cancers by increasing the flow of screened subjects**

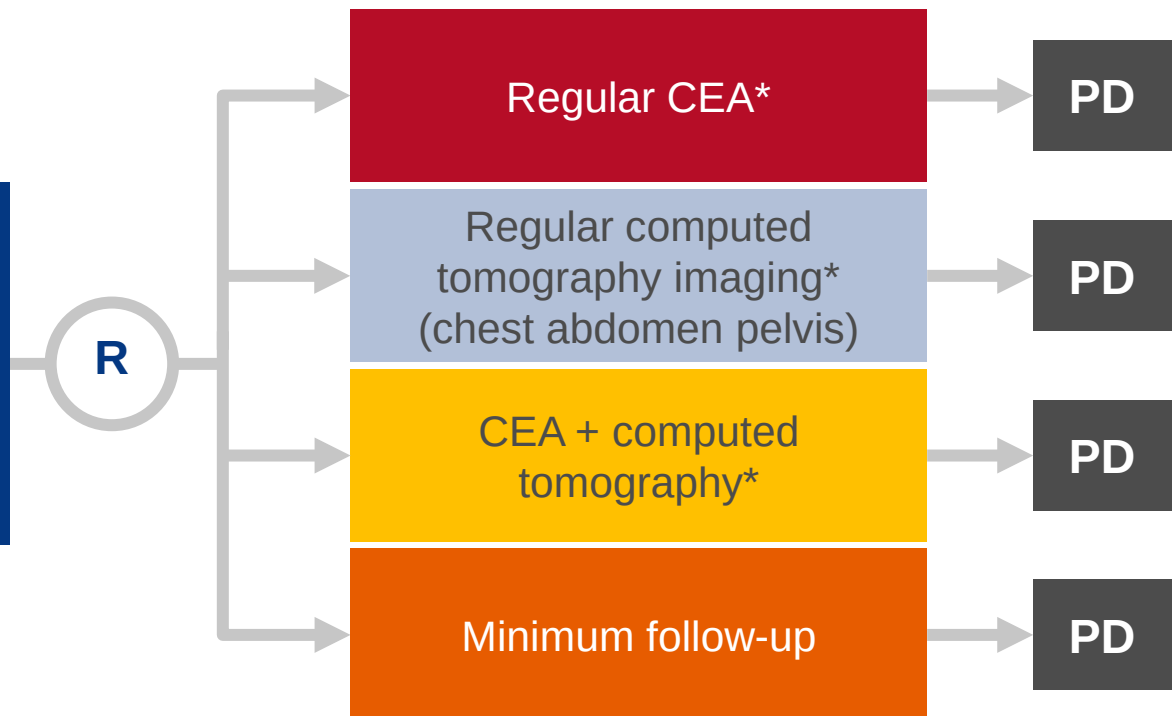
453O: Scheduled use of CEA and CT follow-up to detect recurrence of colorectal cancer: 6-12 year results from the FACS randomised controlled trial – Pugh et al

Study objective

- To assess the efficacy and safety of panitumumab with dabrafenib and/or trametinib in BRAF-mutant mCRC with integrated biomarker analyses

Key patient inclusion criteria

- Curatively treated stage I–III CRC
- R0 resection (n=1202)



PRIMARY ENDPOINT(S)

- Surgical treatment of recurrence with curative intent

*Grouped as intensive follow-up

SECONDARY ENDPOINTS

- OS

Note: Based on data from abstract only

Pugh SA et al. Ann Oncol 2016; 27 (suppl 6): abstr 453O

453O: Scheduled use of CEA and CT follow-up to detect recurrence of colorectal cancer: 6-12 year results from the FACS randomised controlled trial – Pugh et al

Key results

	Intensive follow-up	Minimum follow-up	p-value
Identification of recurrences treatable with curative intent, n/N (%)	68/901 (7.5)	8/301 (2.7)	0.003
OS in all patients			0.45
Patients still alive, n/N (%)	43/901 (4.8)	7/301 (2.3)	0.07
Identification of recurrences treatable with curative intent by primary tumour location, n/N (%)			
Rectal	27/275 (9.8)	6/87 (6.9)	0.41
Left colon	24/327 (7.3)	1/108 (0.9)	0.01
Right colon	14/282 (5.0)	0/104 (0)	0.02
OS in colon with left-sided tumours, years	4.4	3.1	0.03

Note: Based on data from abstract only

Pugh SA et al. Ann Oncol 2016; 27 (suppl 6): abstr 453O

453O: Scheduled use of CEA and CT follow-up to detect recurrence of colorectal cancer: 6-12 year results from the FACS randomised controlled trial – Pugh et al

Conclusions

- The detection of treatable recurrence was increased using intensive follow-up, however, this was only in those with colonic tumours
- Patients with recurrence from a left-sided tumour seemed to derive a survival advantage

Note: Based on data from abstract only

Pugh SA et al. Ann Oncol 2016; 27 (suppl 6): abstr 453O

Right or left metastatic colon cancer: Will the side change your treatment?

Objective

- To discuss using data from the FIRE-3 and CRYSTAL trials whether primary tumour location (left vs. right)* has prognostic and predictive relevance in patients with mCRC and if this will change treatment options

Study designs

FIRE-3

Key patient inclusion criteria

- Untreated
 - KRAS wt (exon 2) mCRC
- (n=592)

R

Cetuximab +
FOLFIRI
(n=157 left-sided;
n=38 right-sided)

Bevacizumab +
FOLFIRI
(n=149 left-sided;
n=50 right-sided)

CRYSTAL

Key patient inclusion criteria

- Untreated
 - EGFR-expressing mCRC
 - RAS wt
 - ECOG PS ≤ 2
- (n=367)

R

Cetuximab +
FOLFIRI
(n=142 left-sided;
n=33 right-sided)

FOLFIRI
(n=138 left-sided;
n=51 right-sided)

ENDPOINT(S)

- PFS, OS, ORR

Left-sided defined as tumours originating in the splenic flexure, descending colon, sigmoid colon or rectum; right-sided defined as tumours originating in the appendix, cecum, ascending colon, hepatic flexure or transverse colon

Special session chaired by J Tabernero and F Ciardiello
Presentations by V Heinemann (FIRE-3) and E Van Cutsem (CRYSTAL)

Right or left metastatic colon cancer: Will the side change your treatment?

Key results

FIRE-3

Parameter	Cetuximab + FOLFIRI		Bevacizumab + FOLFIRI	
	Left-sided (n=157)	Right-sided (n=38)	Left-sided (n=149)	Right-sided (n=50)
mPFS				
Months	10.7	7.6	10.7	9.0
HR (95% CI)	2.00 (1.36, 2.93)		1.38 (0.99, 1.94)	
p-value	<0.001		0.06	
mOS				
Months	38.3	18.3	28.0	23.0
HR (95% CI)	2.84 (1.86, 4.33)		1.48 (1.02, 2.16)	
p-value	<0.0001		0.04	

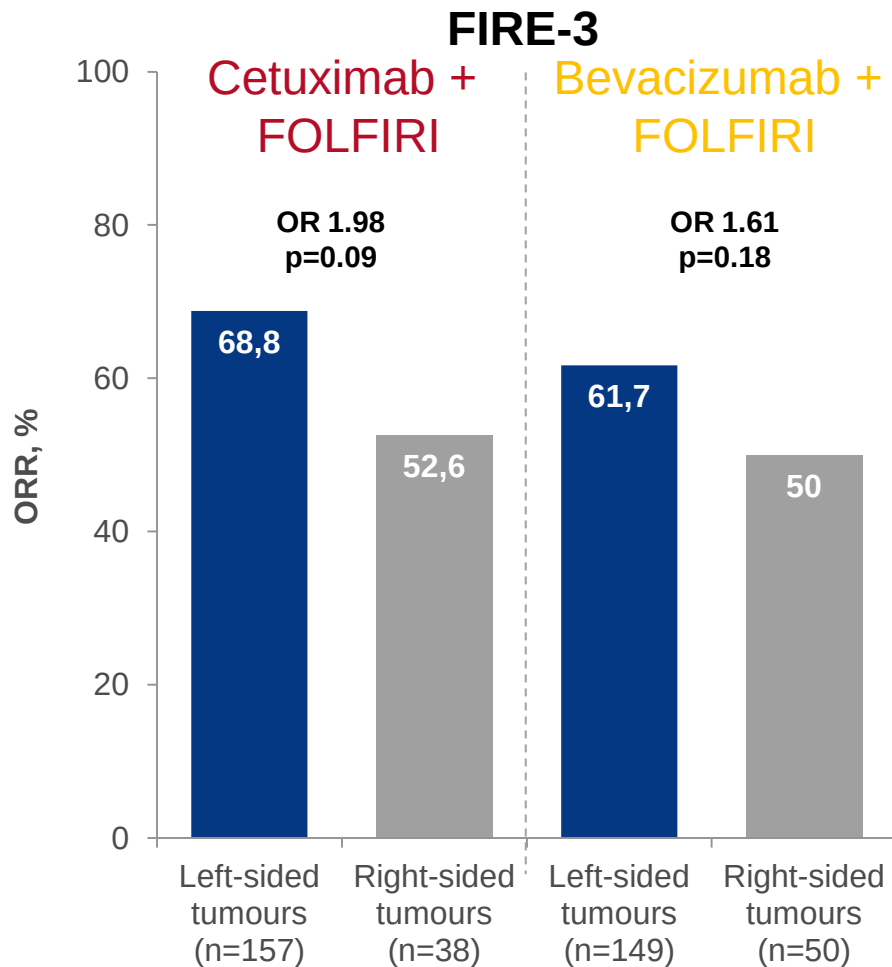
CRYSTAL

Cetuximuab + FOLFIRI		FOLFIRI	
Left-sided (n=142)	Right-sided (n=33)	Left-sided (n=138)	Right-sided (n=51)
12.0	8.1	8.9	7.1
1.77 (1.08, 2.91)		1.54 (0.96, 2.46)	
0.02		0.07	
28.7	18.5	21.7	15.0
1.93 (1.24, 2.99)		1.35 (0.93, 1.97)	
0.003		0.11	

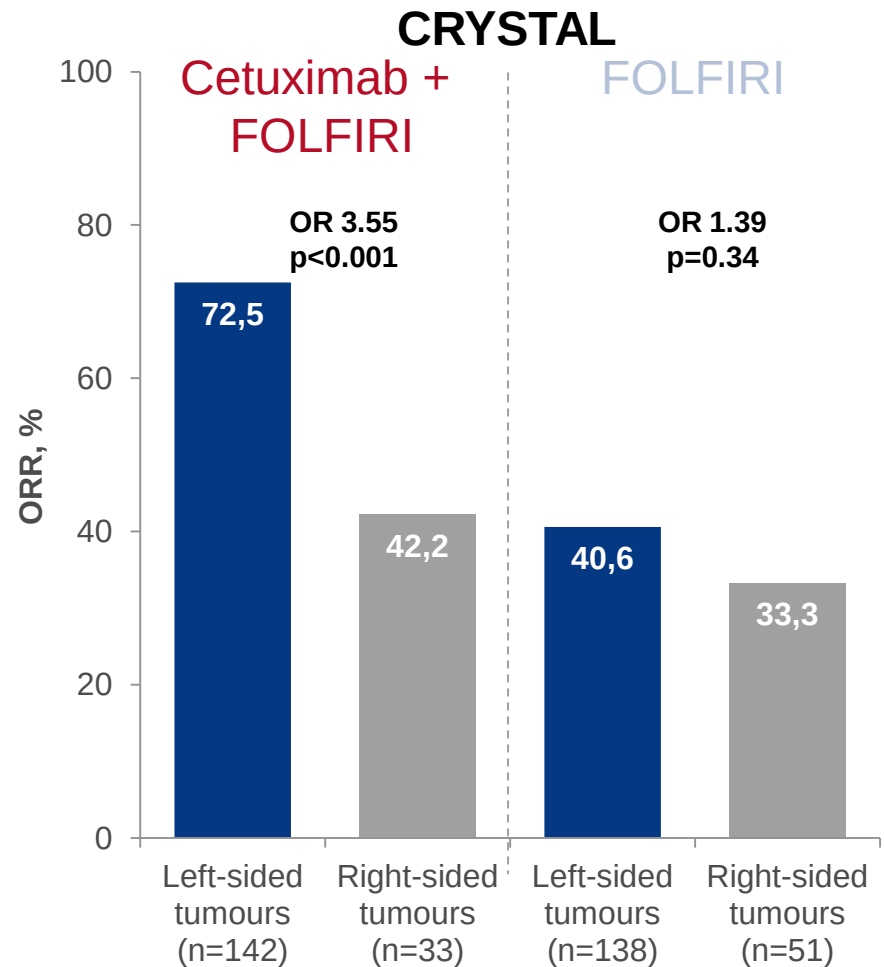
Special session chaired by J Tabernero and F Ciardiello
Presentations by V Heinemann (FIRE-3) and E Van Cutsem (CRYSTAL)

Right or left metastatic colon cancer: Will the side change your treatment?

Key results (continued)



ORR



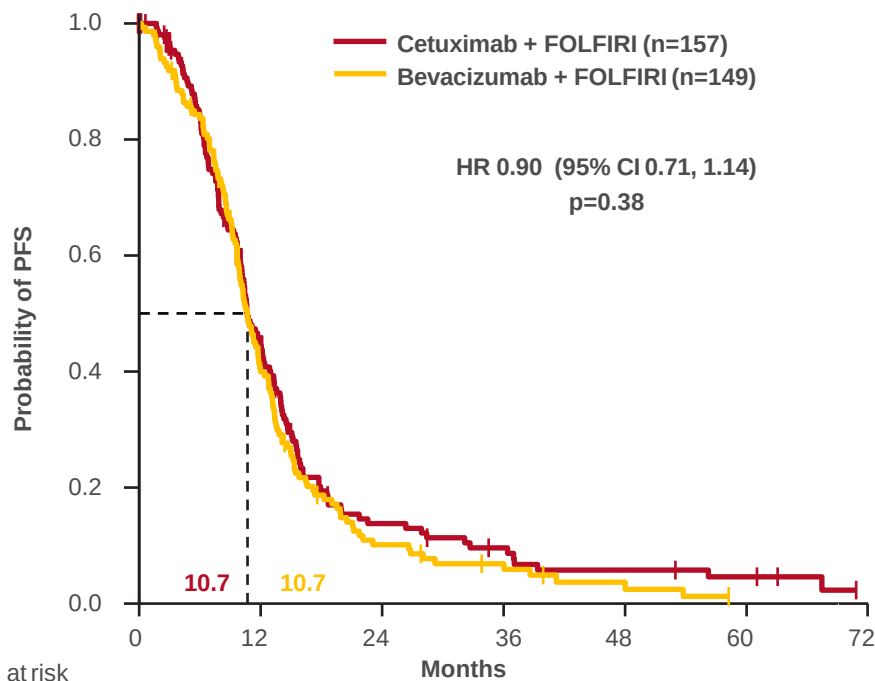
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Right or left metastatic colon cancer: Will the side change your treatment?

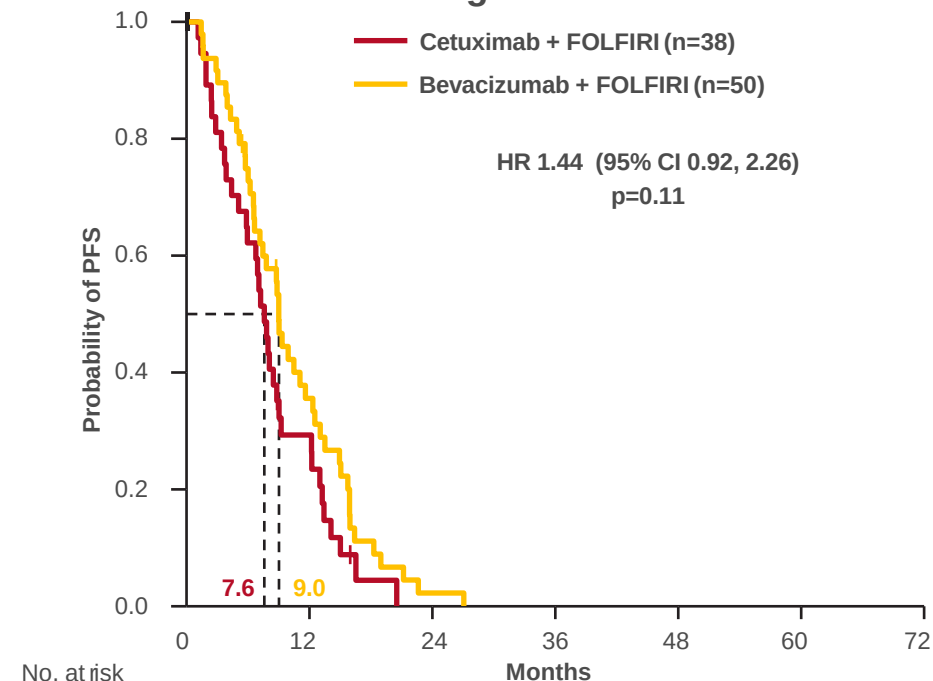
Key results (continued)

FIRE-3: PFS

Left-sided tumours



Right-sided tumours



Interaction p-value: 0.09

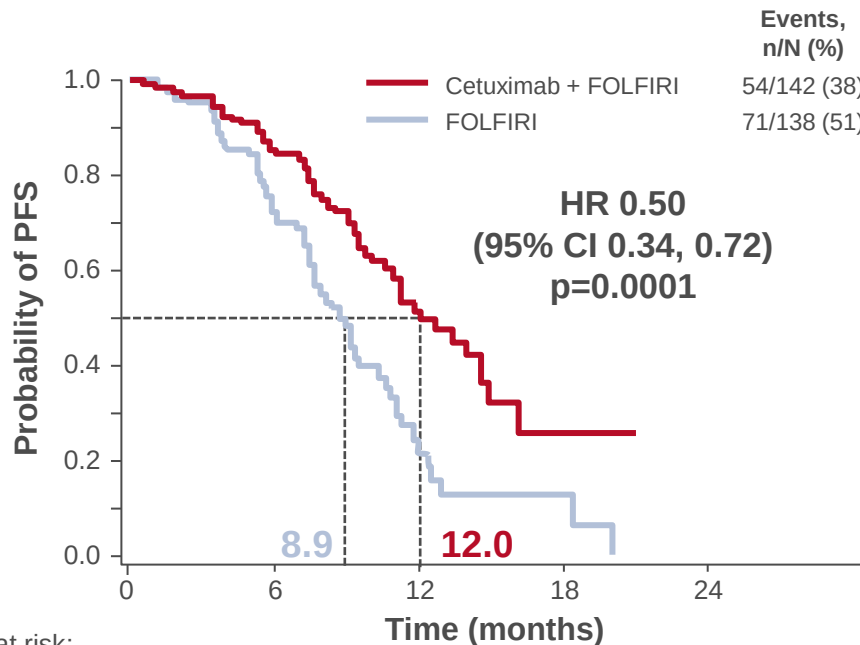
Special session chaired by J Tabernero and F Ciardiello
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Right or left metastatic colon cancer: Will the side change your treatment?

Key results (continued)

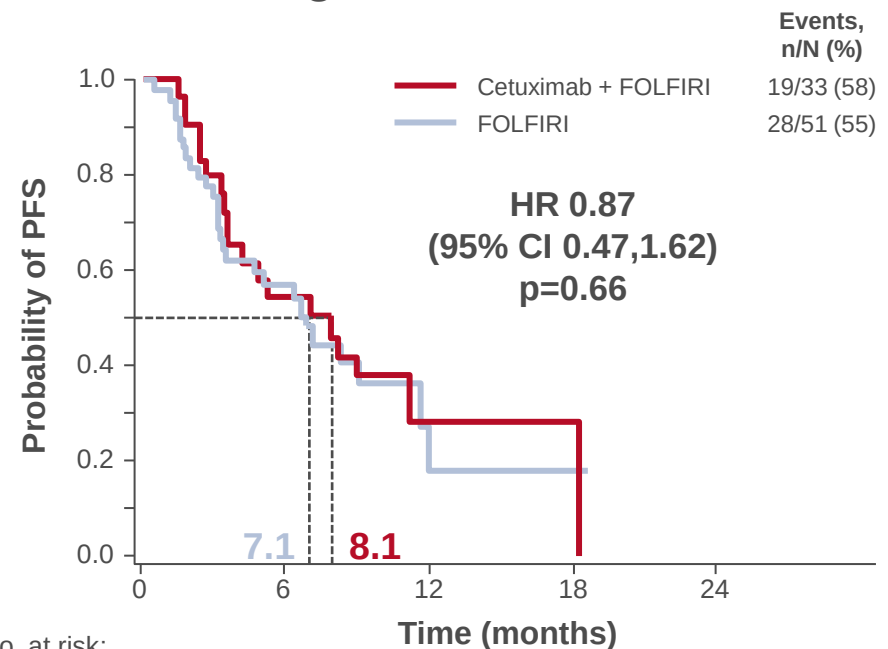
CRYSTAL: PFS

Left-sided tumours



No. at risk:					
Cet + FOLFIRI	142	99	28	3	0
FOLFIRI	138	73	8	2	0

Right-sided tumours



No. at risk:					
Cet + FOLFIRI	33	13	3	1	0
FOLFIRI	51	19	3	1	0

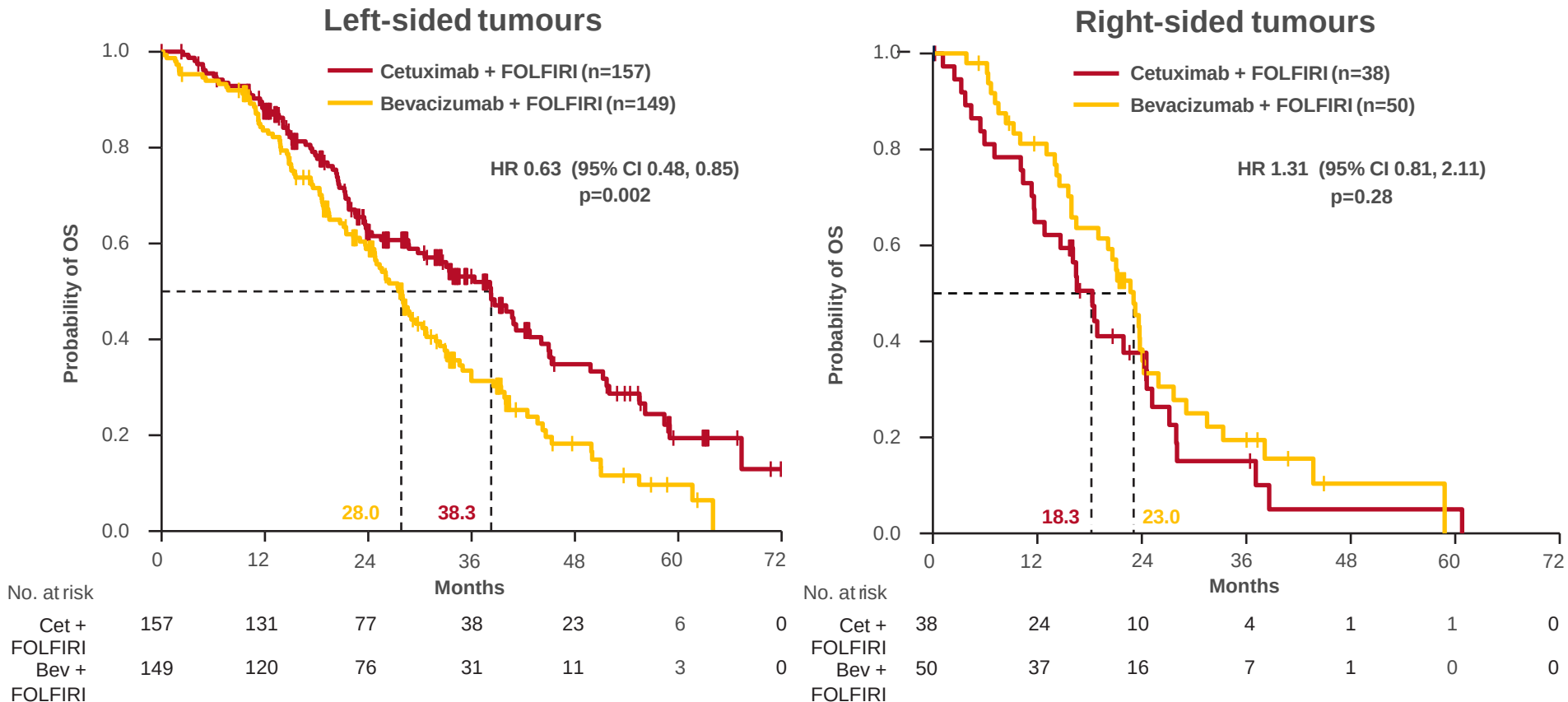
Interaction p-value: 0.11

Special session chaired by J Tabernero and F Ciardiello
Presentations by V Heinemann (FIRE-3) and E Van Cutsem (CRYSTAL)

Right or left metastatic colon cancer: Will the side change your treatment?

Key results (continued)

FIRE-3: OS



Interaction p-value: 0.009

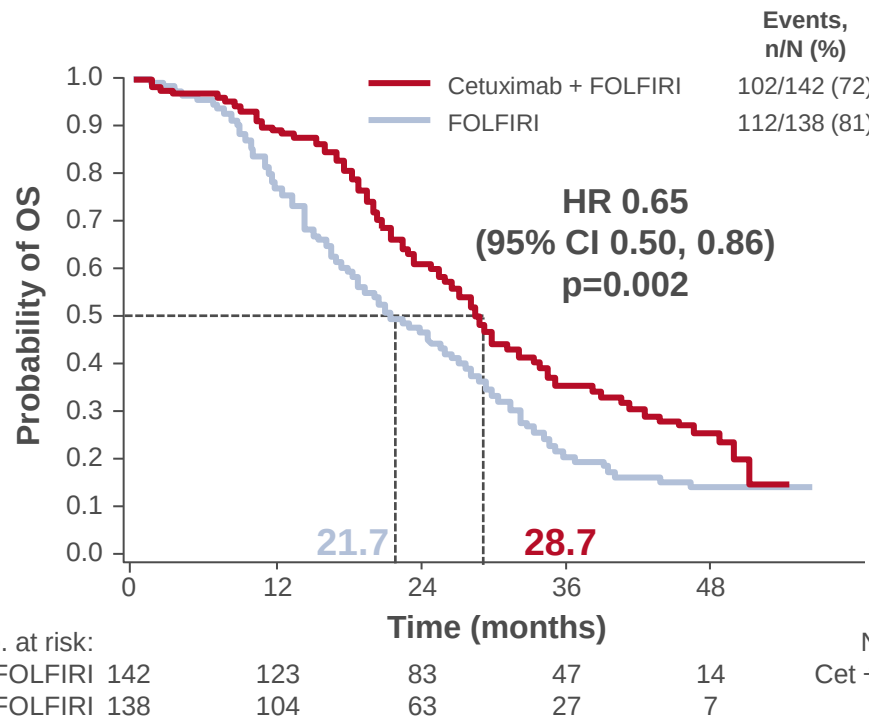
Special session chaired by J Tabernero and F Ciardiello
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Right or left metastatic colon cancer: Will the side change your treatment?

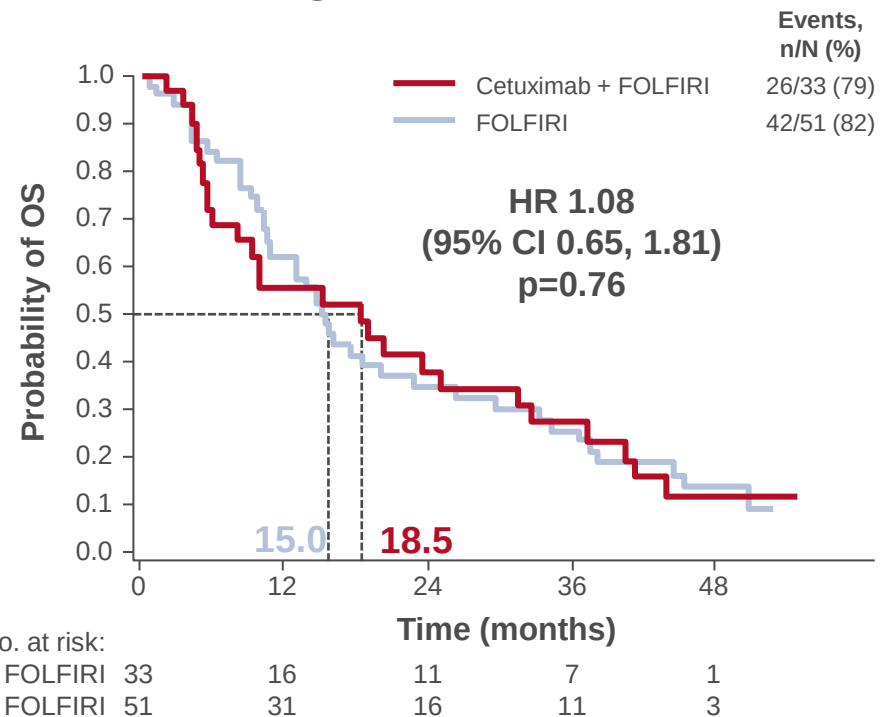
Key results (continued)

CRYSTAL: OS

Left-sided tumours



Right-sided tumours

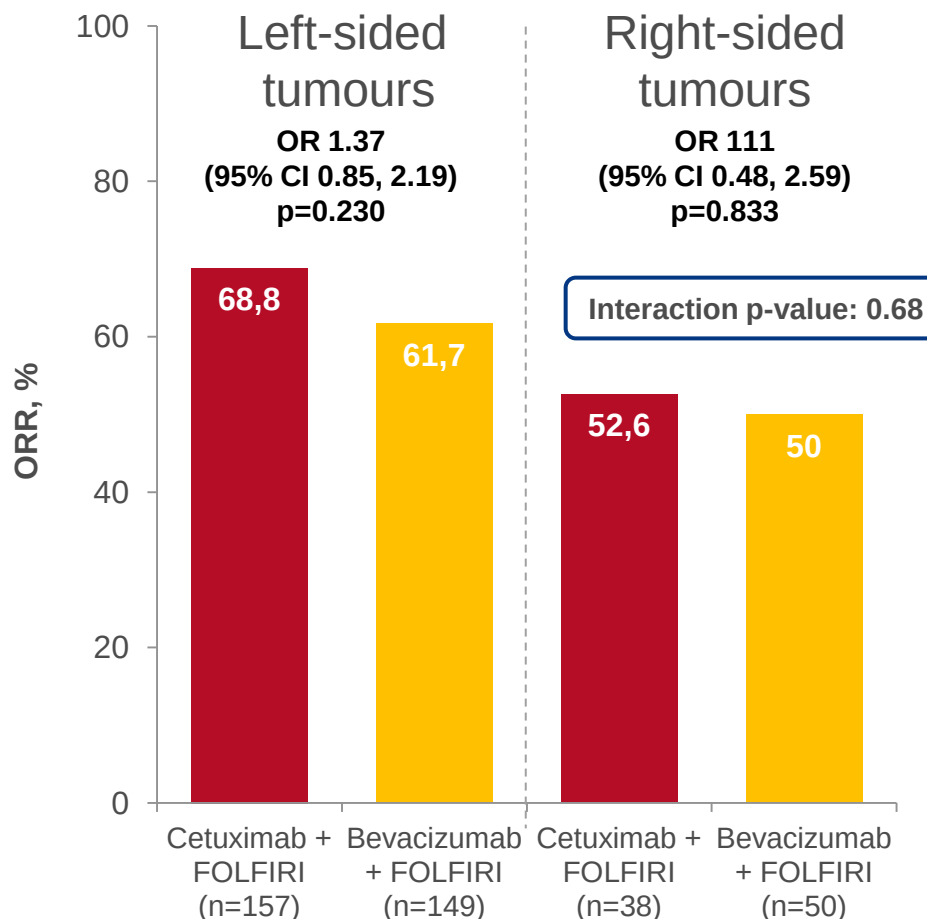


Interaction p-value: 0.17

Right or left metastatic colon cancer: Will the side change your treatment?

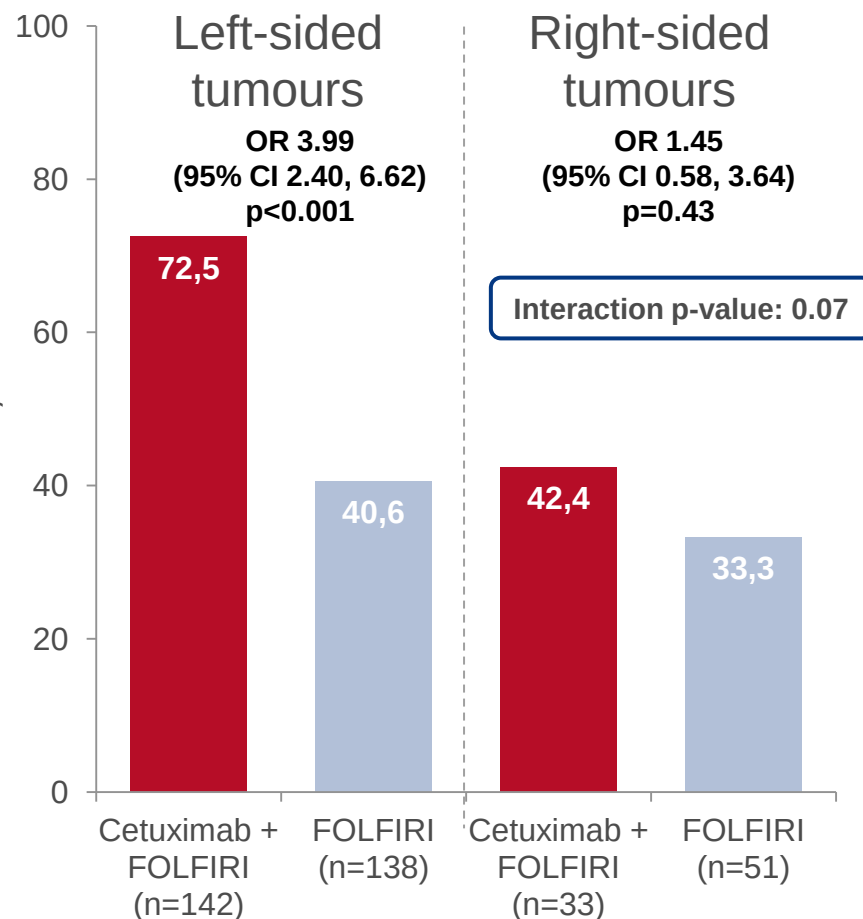
Key results (continued)

FIRE-3



ORR

CRYSTAL



Special session chaired by J Tabernero and F Ciardiello
Presentations by V Heinemann (FIRE-3) and E Van Cutsem (CRYSTAL)

Right or left metastatic colon cancer: Will the side change your treatment?

Conclusions

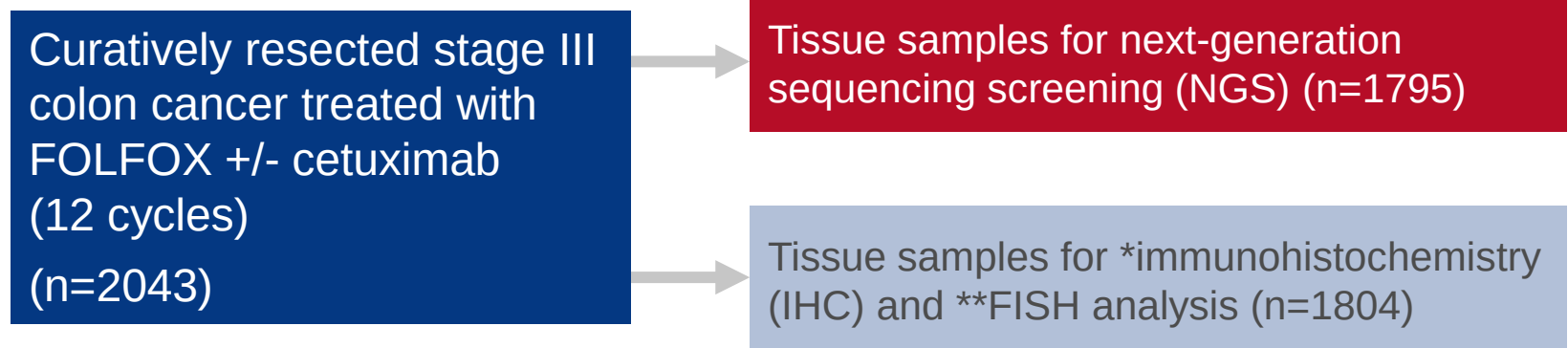
- Patients with left-sided tumours have a better prognosis than those with right-sided tumours
- Patients with left-sided tumours gained more benefit from cetuximab + FOLFIRI than from bevacizumab + FOLFIRI in the FIRE-3 trial
 - Patients with right-sided tumours may benefit from bevacizumab + FOLFIRI although the results were only numerically greater
- Patients with left-sided tumours gained more benefit from the addition of cetuximab to 1L FOLFIRI than those with right-sided tumours in the CRYSTAL trial
- Any new trials should stratify by location (right vs. left)
- Results and recommendations are quite robust if it is only the first-line treatment that matters
- However, more prospective sequentially designed clinical trials based on clinical/location and molecular characteristics are required if all the treatment sequences matter

ADJUVANT COLON CANCER

459O: ERBB2 alterations a new prognostic biomarker in stage III colon cancer from a FOLFOX based adjuvant trial (PETACC8) – Laurent-Puig et al

Study objective

- To evaluate the occurrence and the prognostic impact of ERBB2 alterations in patients with stage III colon cancer



PRIMARY ENDPOINT(S)

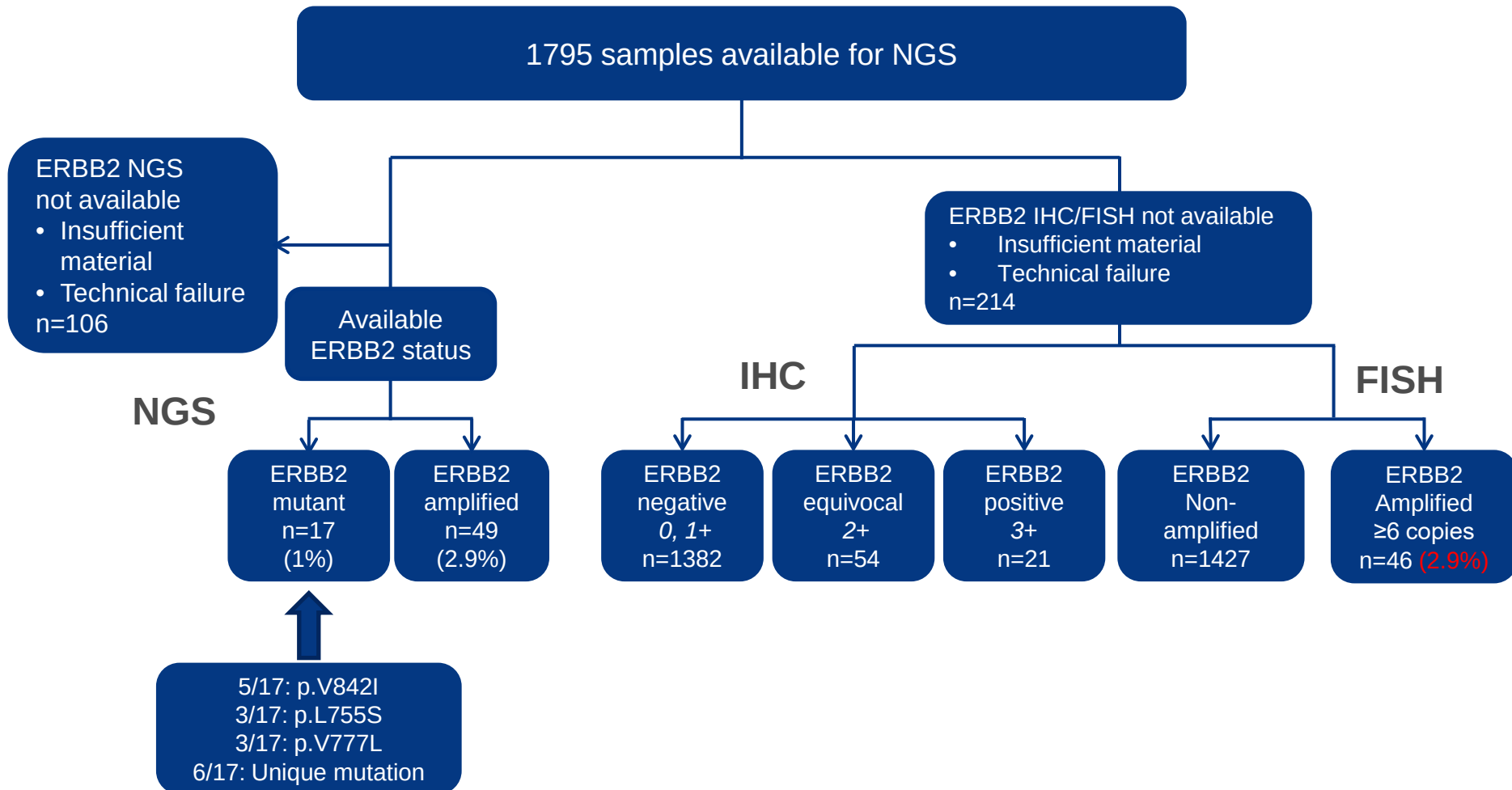
- Identification of ERBB2 alterations (i.e. mutation in exon 19–21/amplification)

*Polyclonal antibody HER2 clone 4B5, Ventana Roche

**Kit zytolight SPEC ERBB2/CEN17 dual colour.

Laurent-Puig P et al. Ann Oncol 2016; 27 (suppl 6): abstr 459O

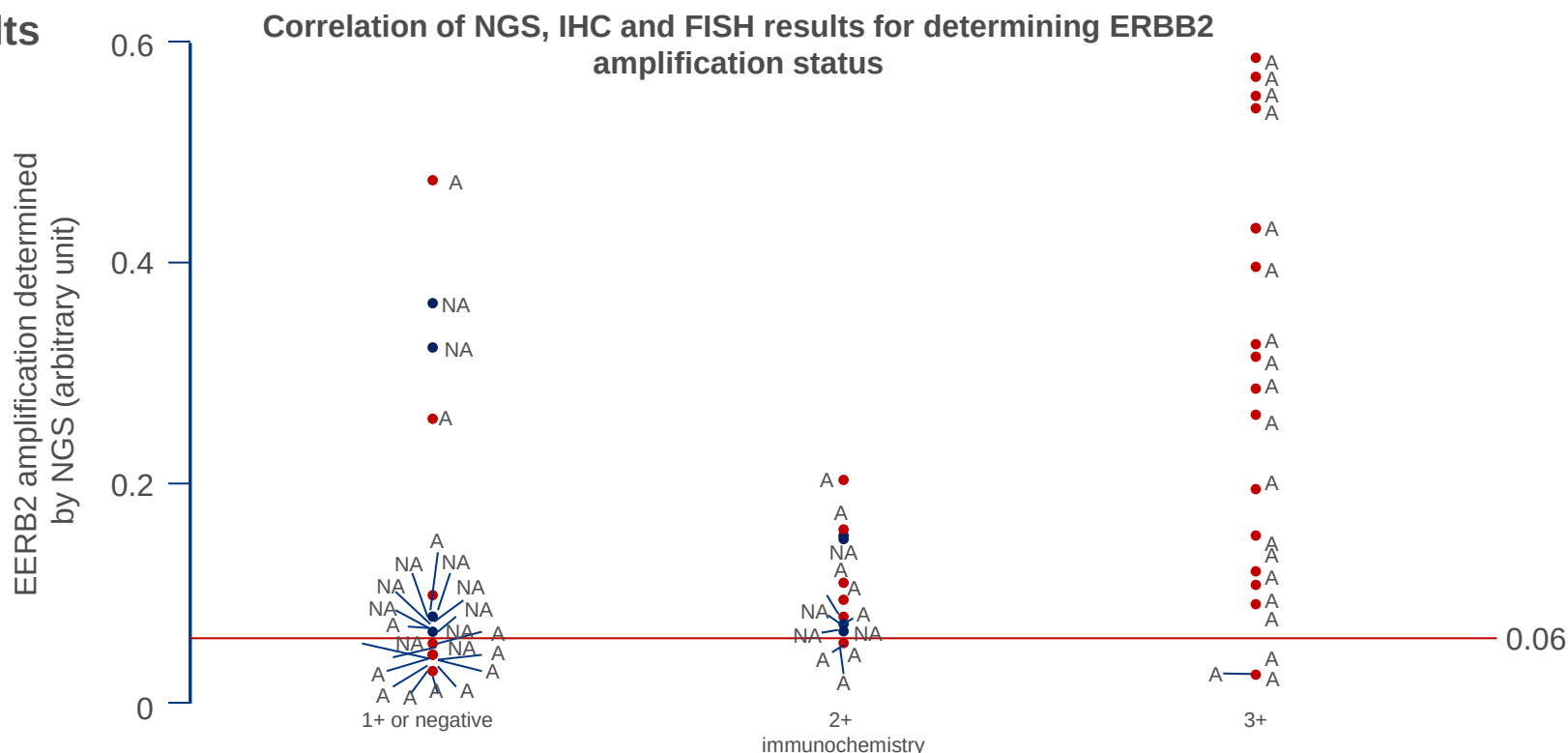
459O: ERBB2 alterations a new prognostic biomarker in stage III colon cancer from a FOLFOX based adjuvant trial (PETACC8) – Laurent-Puig et al



A mutation and an amplification were observed in 2 cases, with ERBB2 alteration in 64 (3.8%) cases. In the *KRAS* wild-type group, 42 (5.6%) ERBB2 alterations were reported.

459O: ERBB2 alterations a new prognostic biomarker in stage III colon cancer from a FOLFOX based adjuvant trial (PETACC8) – Laurent-Puig et al

Key results

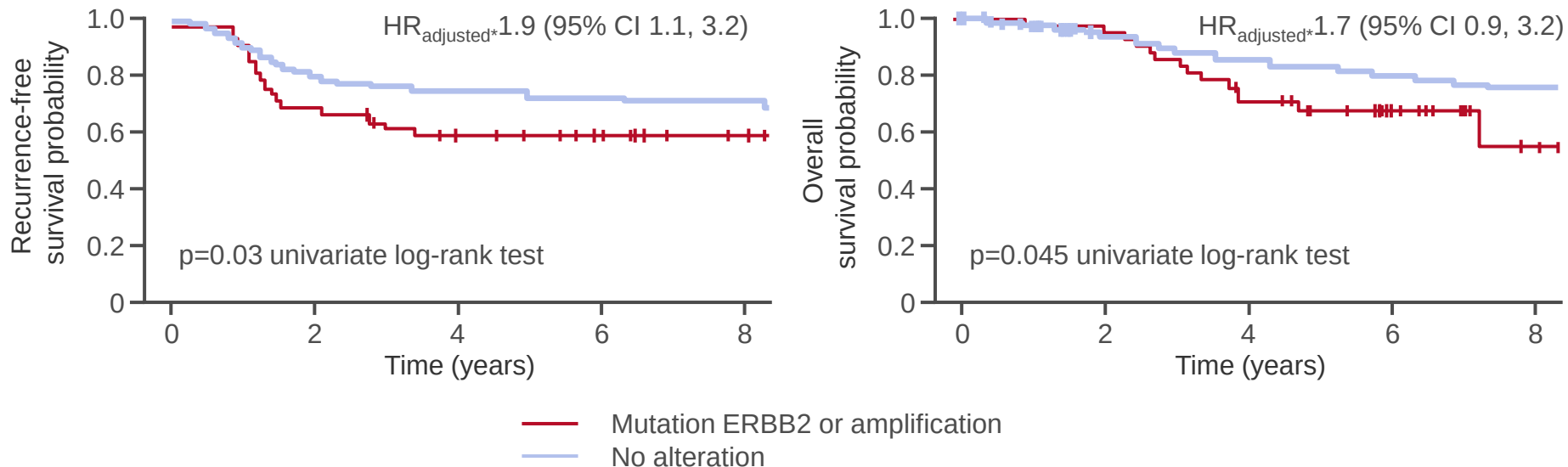


- No significant differences were observed between patient groups on the basis of age, gender, tumour location, perforation/occlusion status, histological grading, N staging or vascular and lymphatic infiltration
- However, significant differences in ERBB2 alteration status were observed when patients were divided by T staging (pT1-2 vs. pT3-4; $p=0.04$) and RAS status
 - A total of 42 (5.6%) patients in the KRAS wild-type group displayed ERBB2 alterations vs. 22 (2.4%) patients with RAS mutation ($p<0.001$)

459O: ERBB2 alterations a new prognostic biomarker in stage III colon cancer from a FOLFOX based adjuvant trial (PETACC8) – Laurent-Puig et al

Key results (continued)

- Recurrence-free survival and OS were assessed according to ERBB2 status, utilising amplification data derived from both NGS and FISH (where concordant) and mutation data derived from NGS



*Results adjusted according to RAS status, histological grading, perforation or occlusion pN and pT, age, tumour location, vascular and lymphatic invasion, treatment arm

459O: ERBB2 alterations a new prognostic biomarker in stage III colon cancer from a FOLFOX based adjuvant trial (PETACC8) – Laurent-Puig et al

Conclusions

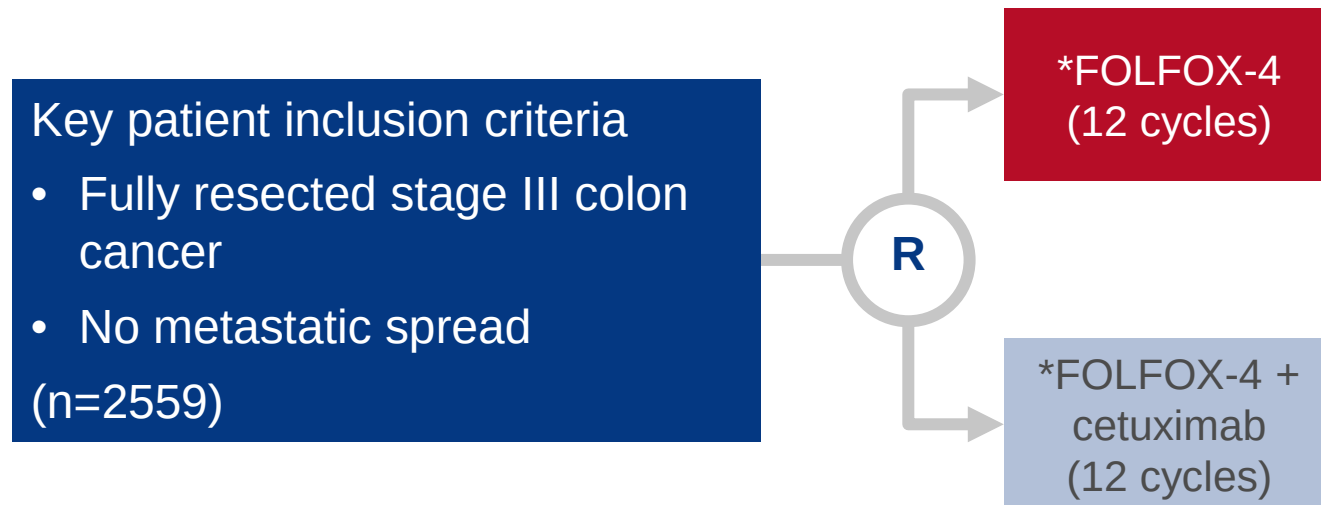
- In this analysis, ERBB2 alterations occurred in 3.9% of patients with stage III colon cancer
 - Alterations in ERBB2 were found to be more common in the patients with a wild-type KRAS genotype vs. patients with a mutant KRAS genotype
- NGS and FISH results showed good correlation when detecting ≥ 6 copies of ERBB2
- Based on these findings, ERBB2 is considered to be a poor prognostic indicator for colorectal cancer

461O: Adjuvant FOLFOX+ cetuximab vs FOLFOX in full RAS and BRAF wild type stage III colon cancer patients: Results from the PETACC8 trial

– Taieb et al

Study objective

- To assess whether mutations in NRAS and BRAF have a prognostic impact on patients with stage III colon cancer treated with FOLFOX with or without cetuximab



PRIMARY ENDPOINT(S)

- DFS

SECONDARY ENDPOINTS

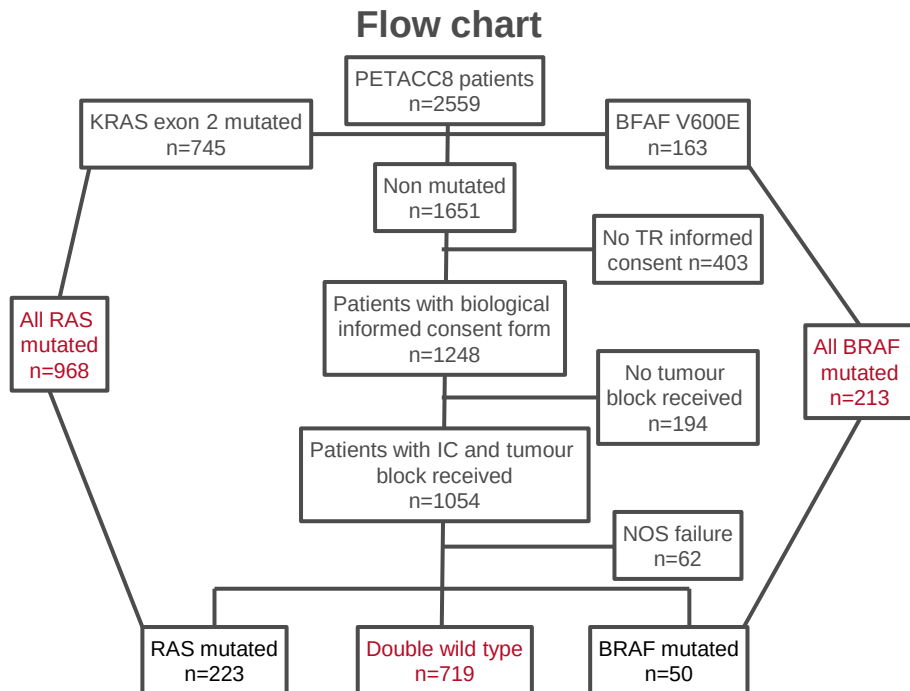
- TTR, OS, prognostic value of KRAS, NRAS and BRAF mutations

*FOLFOX-4: oxaliplatin iv over 2 h on d1 and leucovorin calcium iv over 2 h and fluorouracil iv continuously over 22 h on d1 and 2, on a 14-day cycle for up to 12 cycles

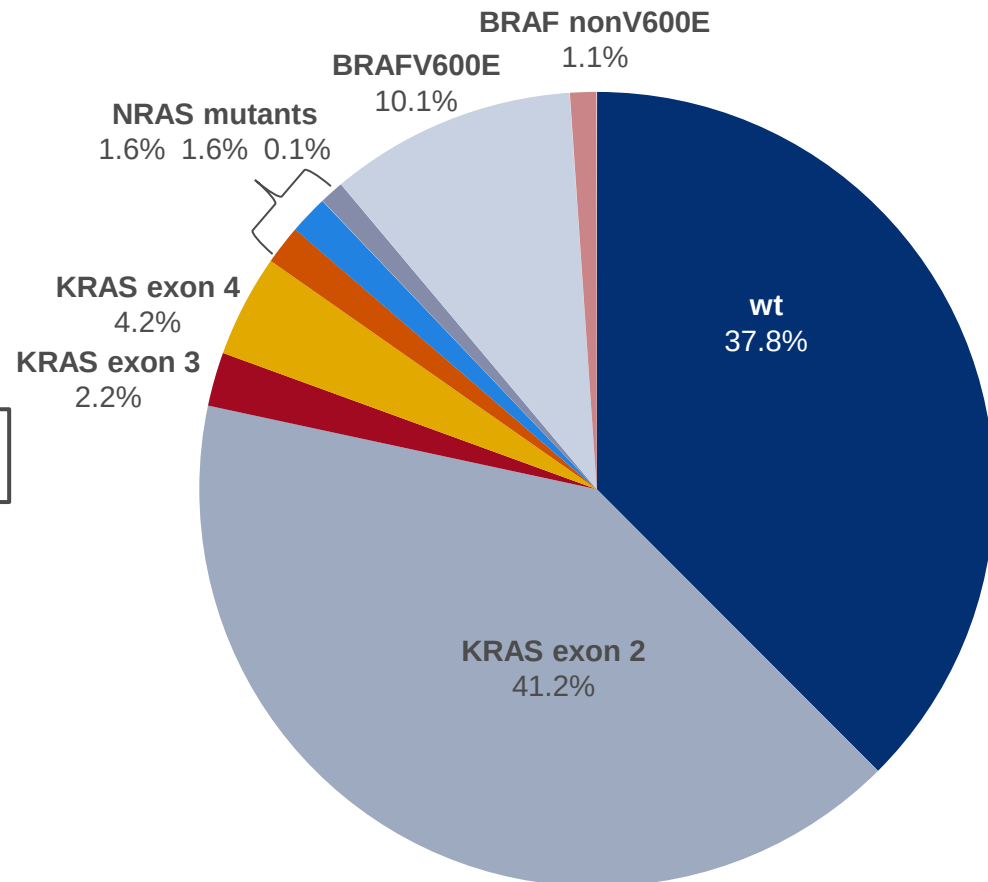
461O: Adjuvant FOLFOX+ cetuximab vs FOLFOX in full RAS and BRAF wild type stage III colon cancer patients: Results from the PETACC8 trial

– Taieb et al

Key results



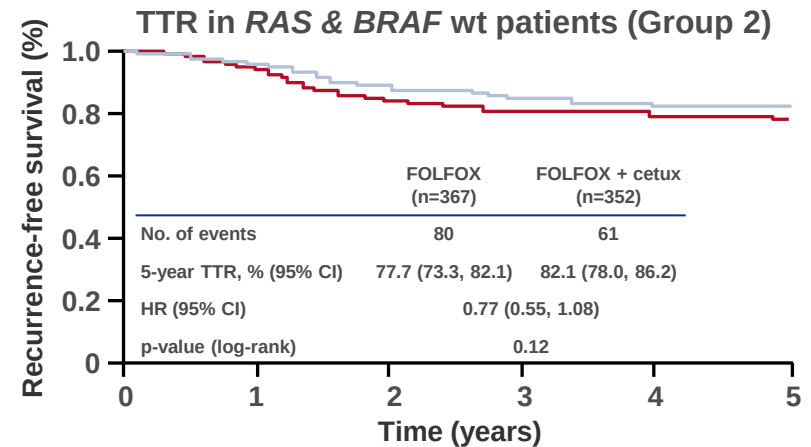
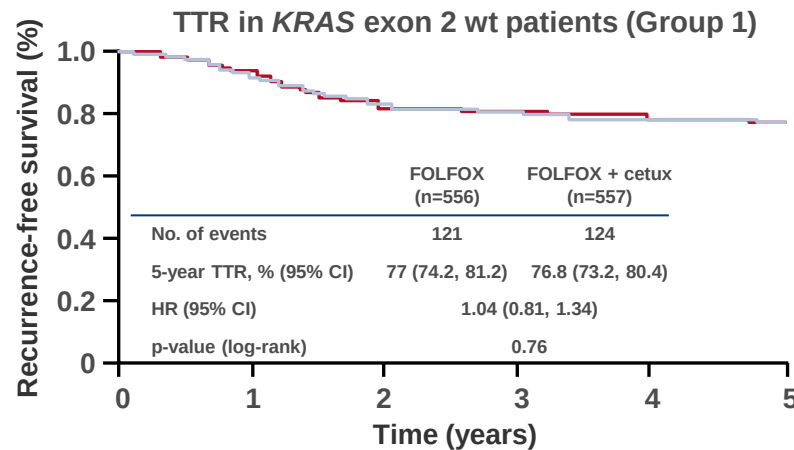
RAS and BRAF mutations in patients with NGS assessed tumours (n=1900)



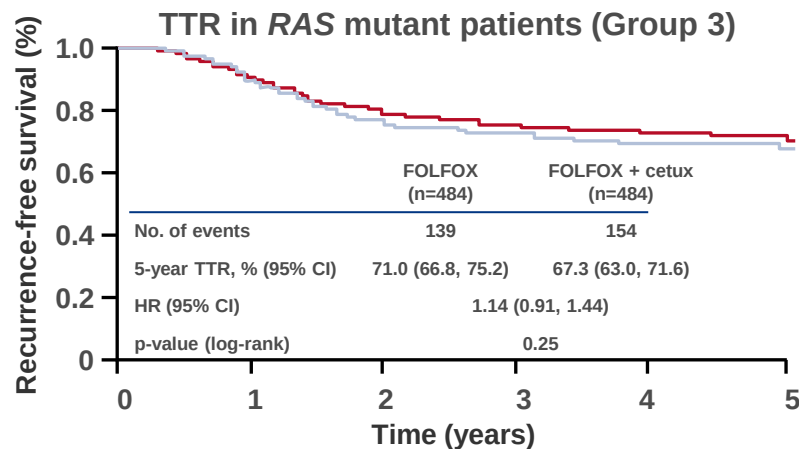
461O: Adjuvant FOLFOX+ cetuximab vs FOLFOX in full RAS and BRAF wild type stage III colon cancer patients: Results from the PETACC8 trial

– Taieb et al

Key results



— FOLFOX
— FOLFOX + cetux

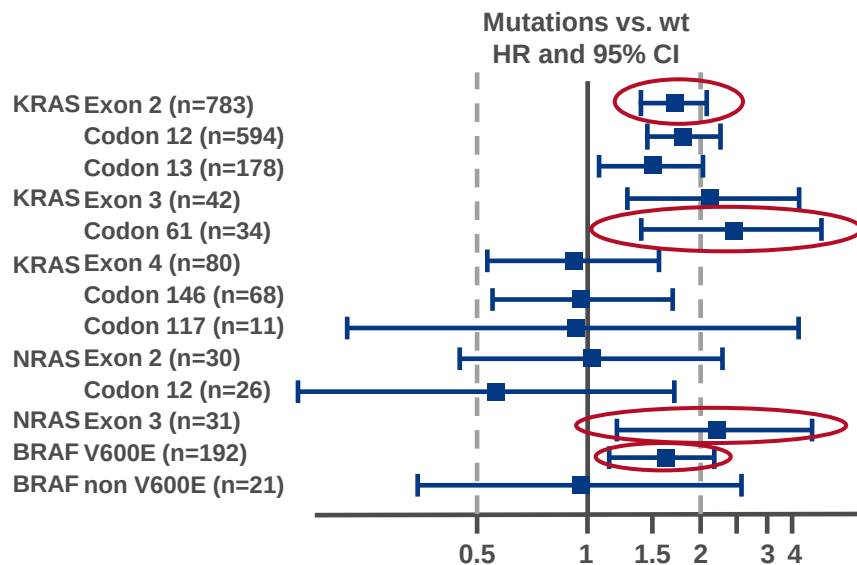


461O: Adjuvant FOLFOX+ cetuximab vs FOLFOX in full RAS and BRAF wild type stage III colon cancer patients: Results from the PETACC8 trial

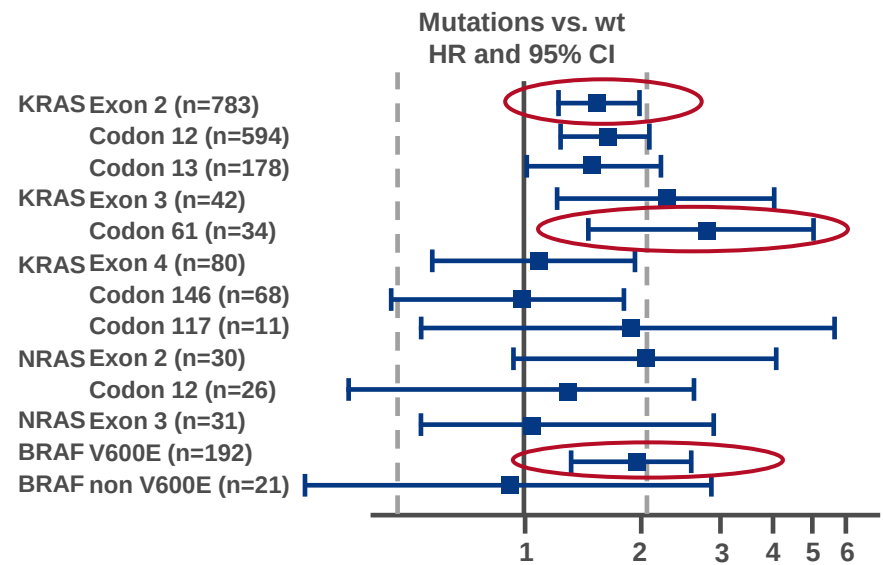
– Taieb et al

Key results (continued)

Impact of rare individual mutations on TTR



Impact of rare individual mutations on OS



461O: Adjuvant FOLFOX+ cetuximab vs FOLFOX in full RAS and BRAF wild type stage III colon cancer patients: Results from the PETACC8 trial

– Taieb et al

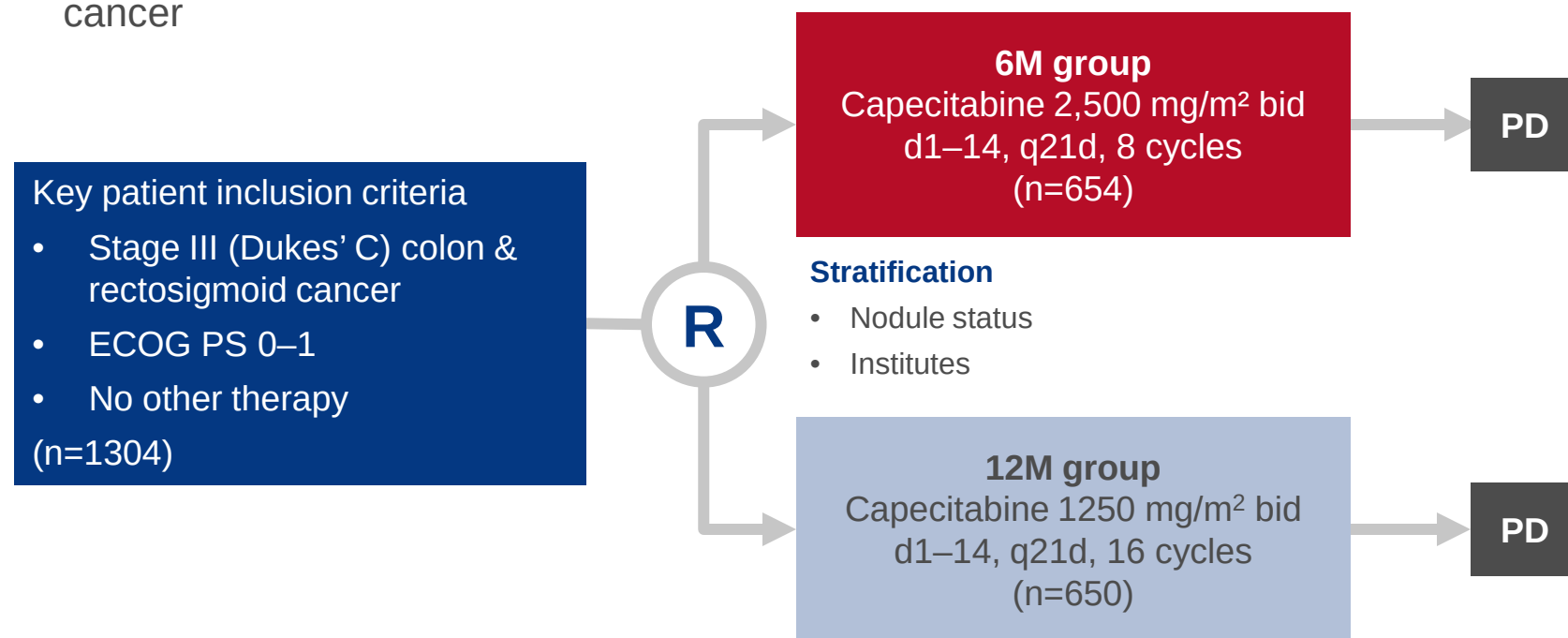
Conclusions

- A trend for improved TTR, DFS and OS was seen by adding cetuximab to FOLFOX in patients with RAS and BRAF wt tumours
 - Alternatively, a trend for a worse TTR, DFS and OS was seen when adding cetuximab to FOLFOX in patients with RAS mutant tumours
- None of the results reached statistical significance
- NRAS and KRAS codon 61 mutations appear to have the same prognostic value as KRAS exon 2 or BRAF V600E

469PD: Phase III trial of 24 weeks vs. 48 weeks capecitabine adjuvant chemotherapy for patients with stage III colon cancer: Final results of JFMC37-0801 – Yamaguchi et al

Study objective

- To test the superiority of 48-week treatment of capecitabine-adjuvant CT to 24-week conventional treatment with regard to DFS in patients with stage III colon and rectosigmoid cancer



PRIMARY ENDPOINT(S)

- DFS

SECONDARY ENDPOINTS

- OS, RFS, 2-year DFS, AEs

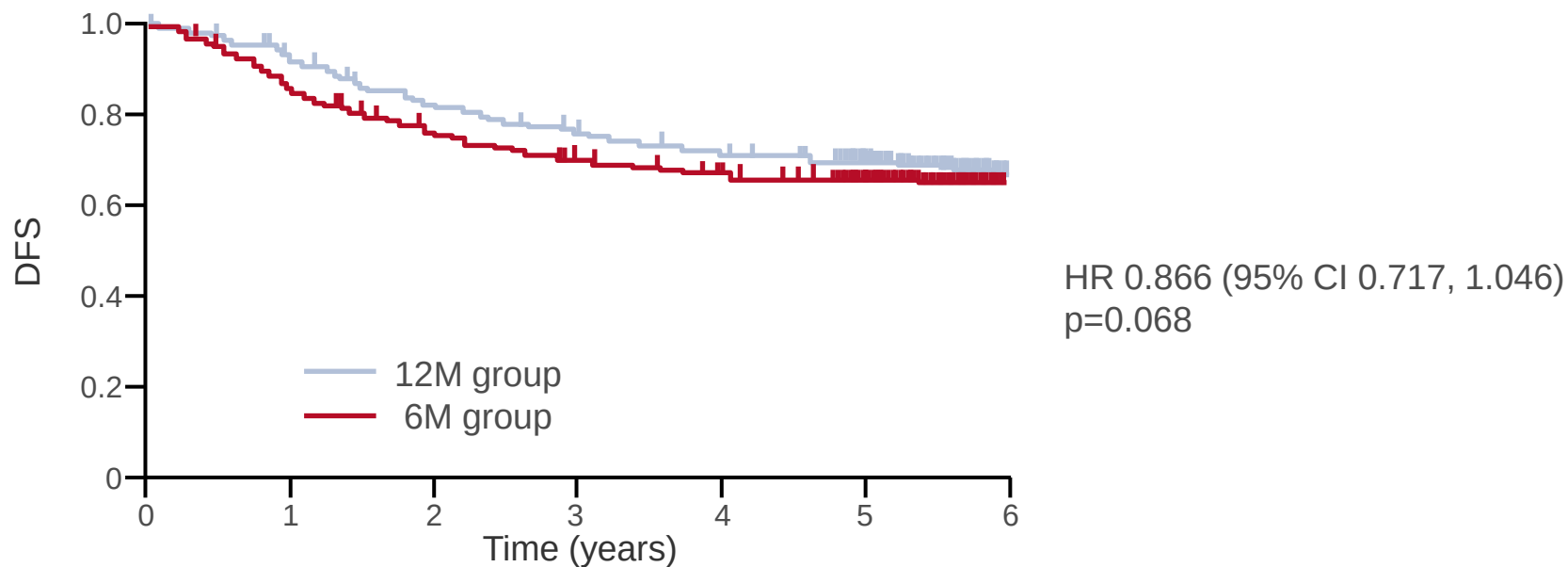
*Duration: 5 weeks; †duration: 6 weeks.

Yamaguchi S et al. Ann Oncol 2016; 27 (suppl 6): abstr 469PD

469PD: Phase III trial of 24 weeks vs. 48 weeks capecitabine adjuvant chemotherapy for patients with stage III colon cancer: Final results of JFMC37-0801 – Yamaguchi et al

Key results

DFS

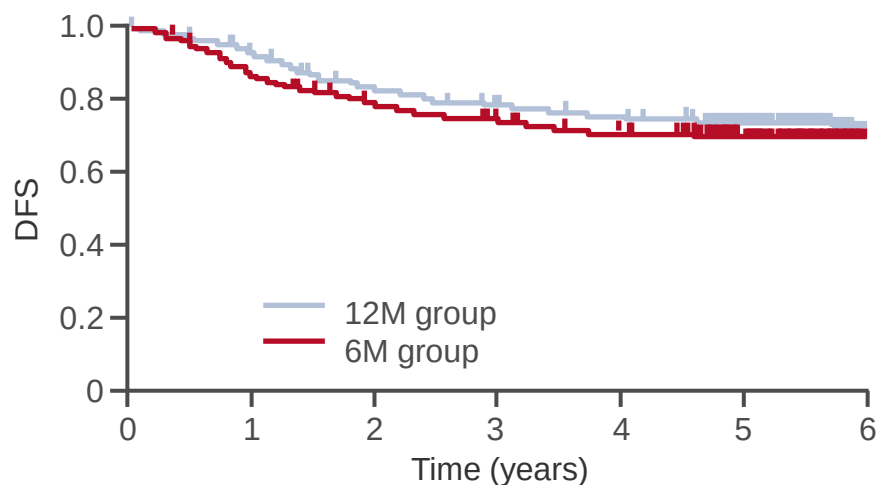


	12M group	6M group
3-year DFS, % (95% CI)	75.3 (71.77, 78.45)	70.0 (66.32, 73.37)
5-year DFS, % (95% CI)	68.7 (64.92, 72.10)	65.3 (61.45, 68.79)

469PD: Phase III trial of 24 weeks vs. 48 weeks capecitabine adjuvant chemotherapy for patients with stage III colon cancer: Final results of JFMC37-0801 – Yamaguchi et al

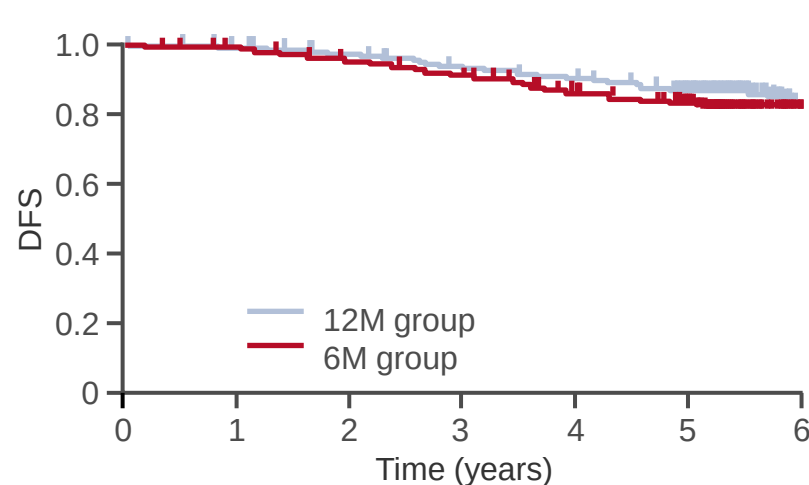
Key results (continued)

RFS



HR 0.808 (95% CI 0.658, 0.992)
p=0.0207

OS



HR 0.737 (95% CI 0.557, 0.975)
p=0.0159

	12M group	6M group
5-year RFS, % (95% CI)	74.1 (70.53, 77.32)	69.3 (65.57, 72.69)
5-year OS, % (95% CI)	87.6 (84.73, 89.89)	83.2 (80.07, 85.87)

469PD: Phase III trial of 24 weeks vs. 48 weeks capecitabine adjuvant chemotherapy for patients with stage III colon cancer: Final results of JFMC37-0801 – Yamaguchi et al

Key results (continued)

Completion rate of protocol treatment

All treated patients	12M group (n=636), n (%)	6M group (n=642), n (%)
Complete	293 (46.1)	459 (71.5)
Incomplete	343 (53.9)	183 (28.5)
8 courses completion	456 (71.7)	459 (71.5)

Dose reduction and delay/interruption rates

All treated patients	12M group (n=636), n (%)	6M group (n=642), n (%)
Dose reduction (+)	306 (48.1)	241 (37.5)
Delay/interruption (+)	437 (68.7)	379 (59.0)

469PD: Phase III trial of 24 weeks vs. 48 weeks capecitabine adjuvant chemotherapy for patients with stage III colon cancer: Final results of JFMC37-0801 – Yamaguchi et al

Key results (continued)

- Overall, grade 3–4 adverse events were comparable in both groups
 - However, incidence of hand-foot disease syndrome was increased in the 12-month treatment group

Conclusions

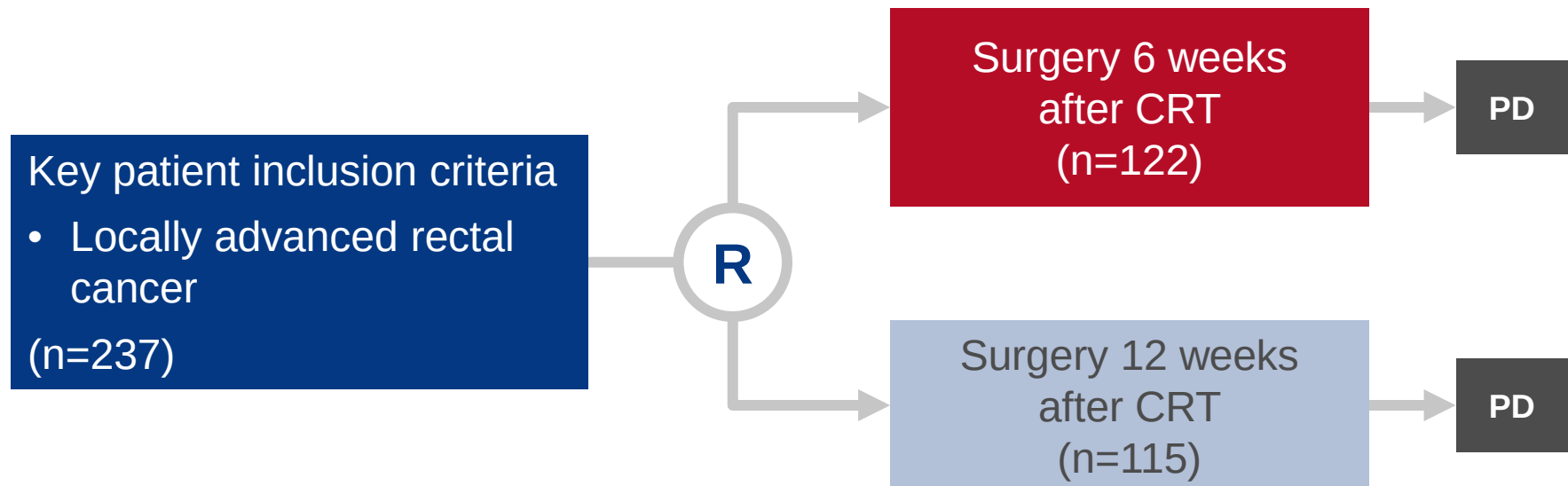
- Compared with conventional therapy, the 48-week (12-month) treatment of capecitabine adjuvant chemotherapy did not demonstrate DFS superiority in patients with stage III colon cancer
- However, p-values associated with OS and RFS comparing the 48-week (12-month) treatment with conventional 24-week (6-month) treatment were $p < 0.025$
- With regard to the optimal duration of adjuvant chemotherapy for stage III colon cancer, further investigation should be considered

PERIOPERATIVE RECTAL CANCER

452O: Results of a prospective randomised control 6 vs 12 trial: Is greater tumour downstaging observed on post treatment MRI if surgery is delayed to 12-weeks versus 6-weeks after completion of neoadjuvant chemoradiotherapy? – Evans et al

Study objective

- To investigate whether delay in surgery to 12 weeks vs. 6 weeks after CRT leads to greater rectal cancer downstaging and regression



PRIMARY ENDPOINT(S)

- Difference in proportion of patients in each arm downstaged according to MRI T-stage*

*Defined as any reduction in T-stage/sub-stage.
mrTRG, MRI-assessed tumour regression grade

SECONDARY ENDPOINTS

- pCR rate
- mrTRG 1–2 rate

452O: Results of a prospective randomised control 6 vs 12 trial: Is greater tumour downstaging observed on post treatment MRI if surgery is delayed to 12-weeks versus 6-weeks after completion of neoadjuvant chemoradiotherapy? – Evans et al

Key results

	12-week arm (n=115)	6-week arm (n=122)	p-value
mrTRG downstaging, n (%)	67 (58)	52 (43)	0.019
mrTRG, n (%)	21 (22)	7 (6)	<0.05
ypT0, n	23	9	<0.05
pCR, %	20	9	<0.05

Surgical morbidity

- The following were assessed in this study
 - ASA grade
 - stoma formation/type of operation performed
 - operative difficulty
 - blood loss
 - length of hospital stay
 - post-operative complications

452O: Results of a prospective randomised control 6 vs 12 trial: Is greater tumour downstaging observed on post treatment MRI if surgery is delayed to 12-weeks versus 6-weeks after completion of neoadjuvant chemoradiotherapy? – Evans et al

Conclusions

- **Surgery scheduled 12 weeks after CRT leads to a significant increase in mrT downstaging, pCR and improves mrTRG**
- **Since mrTRG is a confirmed predictor of DFS, performing surgery before maximal regression may not be clinically beneficial to patients**

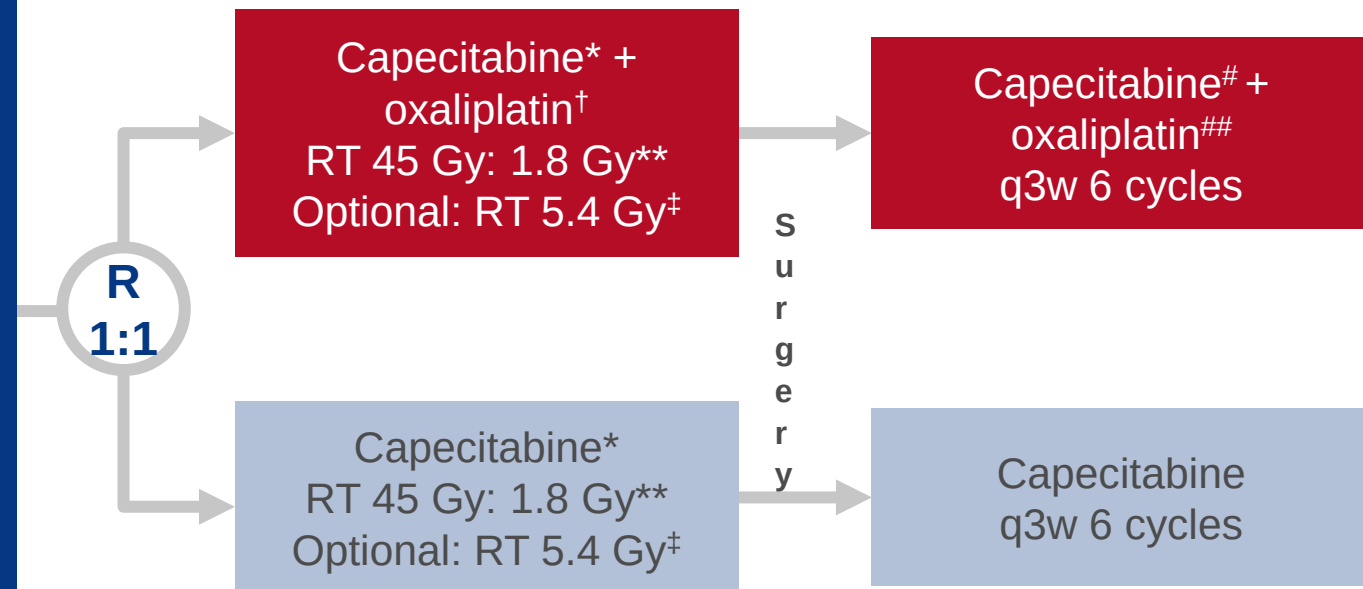
467PD: Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer: Final analyses – Schmoll et al

Study objective

- To assess whether the addition of oxaliplatin to preoperative fluoropyrimidine-based CRT followed by postoperative adjuvant fluoropyrimidine-based CT improves DFS in locally advanced rectal cancer

Key patient inclusion criteria

- Rectal adenocarcinoma ≤ 12 cm from anal verge
- T3/4 and/or N+
- R0/1-resectable +/- preop RCTx
- WHO/ECOG PS 0–2 (n=1094)



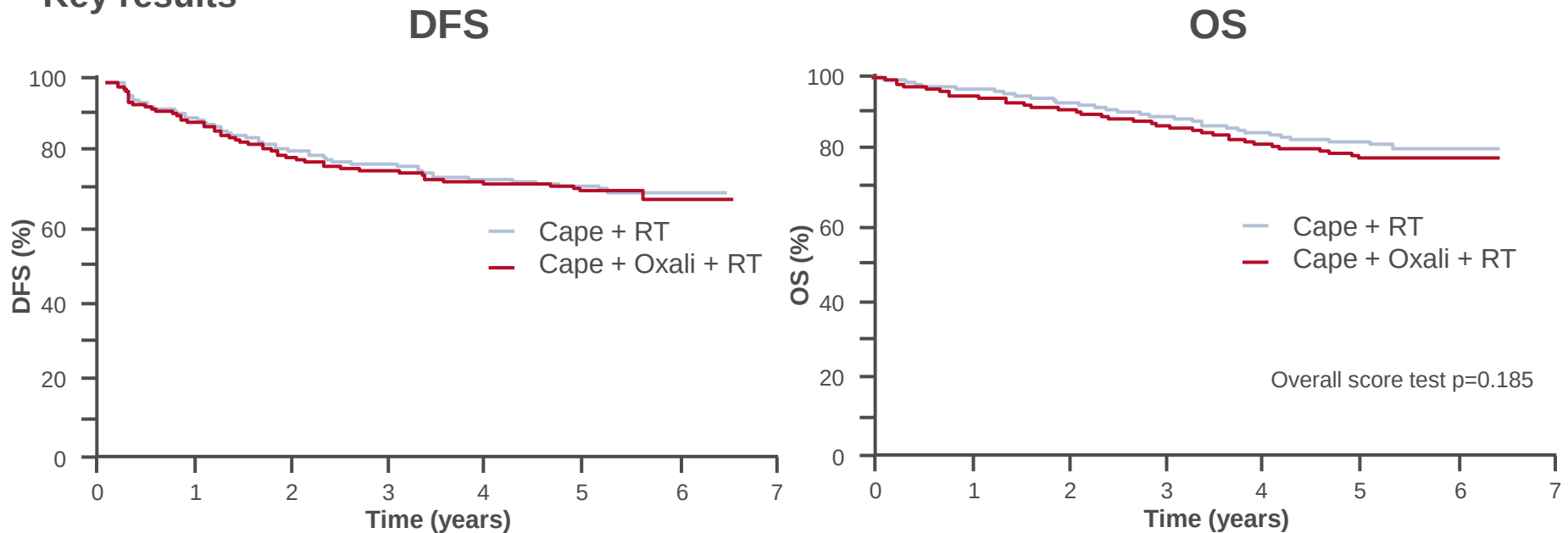
*825 mg/m² po bid on d1–33 w/o weekends; †50 mg/m² iv on d1, 8, 15, 22, 29;
**d1–33 w/o weekends; ‡d36–38 with capecitabine 825 mg/m² po bid; #1000/m² po bid (evening of d1– morning of d15); ##130 mg/m² iv d1

PRIMARY ENDPOINT

- 3-year DFS (65% → 72%; HR 0.763)

467PD: Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer: Final analyses – Schmoll et al

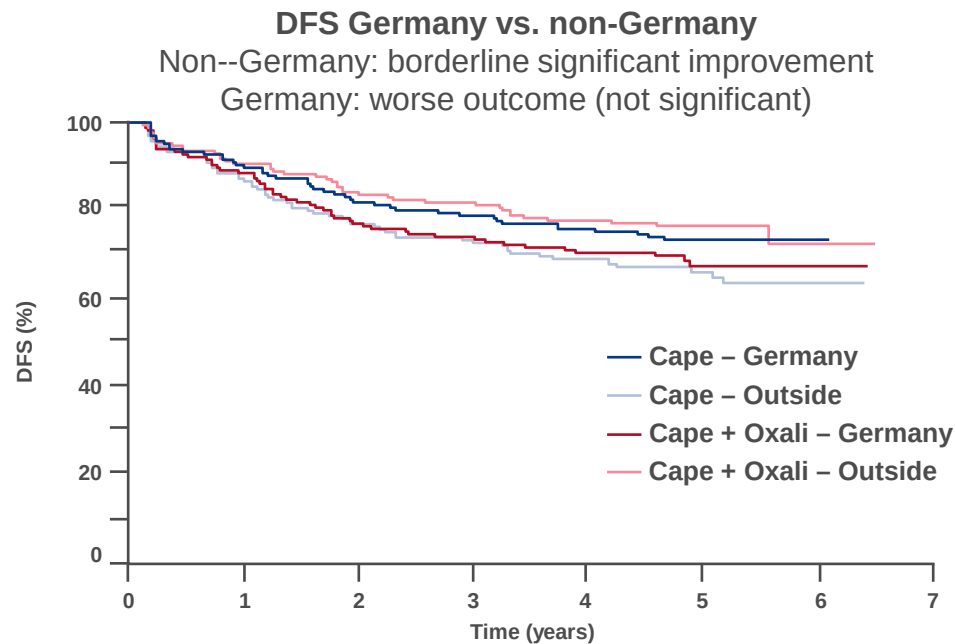
Key results



	Capecitabine + oxaliplatin	Capecitabine		Capecitabine + oxaliplatin	Capecitabine
3-year DFS, %	75.4	76.5	3-year OS, %	87.6	90.1
HR (95% CI)	1.04 (0.82, 1.31)		HR (95% CI)	1.22 (0.91, 1.65)	
p-value	0.768		p-value	0.185	

467PD: Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer: Final analyses – Schmoll et al

Key results (continued)



	Capecitabine + oxaliplatin	Capecitabine
Germany		
3-year DFS, %	73.6	78.2
HR (95% CI)	1.24 (0.93, 1.65)	
p-value	0.145	
Non-Germany		
3-year DFS, %	73.2	81.1
HR (95% CI)	0.68 (0.45, 1.10)	
p-value	0.052	

Country	Events / Patients		Statistics		HR & CI*		HR (95% CI)
	Cape + Oxali + RT	Cape + RT	O-E	Var	(Cape + Oxali + RT)	Cape + RT	
Germany	98 / 353	87 / 362	9.9	46.1			1.24 (0.93, 1.65)
Non-Germany	41 / 172	60 / 181	-9.8	25.2			0.68 (0.46, 1.00)
Heterogeneity Q=5.91 (df=1) p=0.02, I ² =83.1%							

0.25 0.5 1.0 2.0 4.0

Cape + Oxali + RT better Cape + RT better

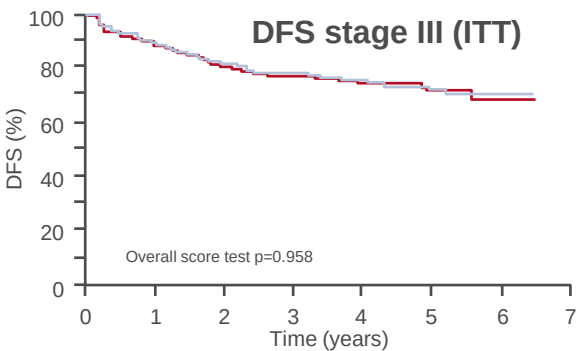
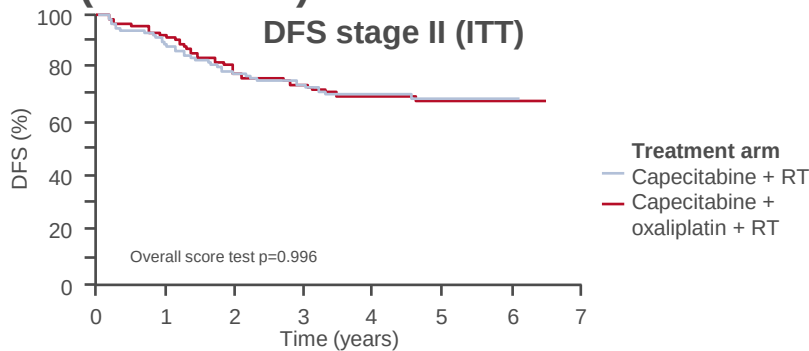
Treatment effect: p>0.1

*95% CI everywhere

Schmoll H et al. Ann Oncol 2016; 27 (suppl 6): abstr 467PD

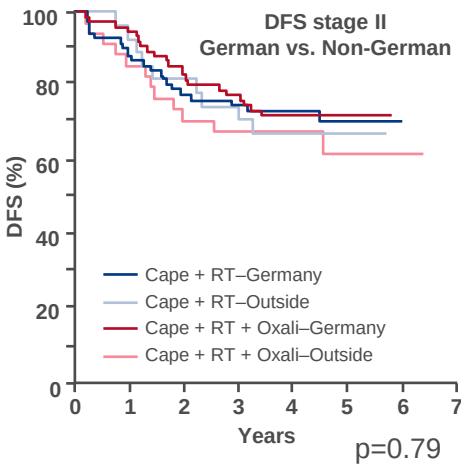
467PD: Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer: Final analyses – Schmoll et al

Key results (continued)

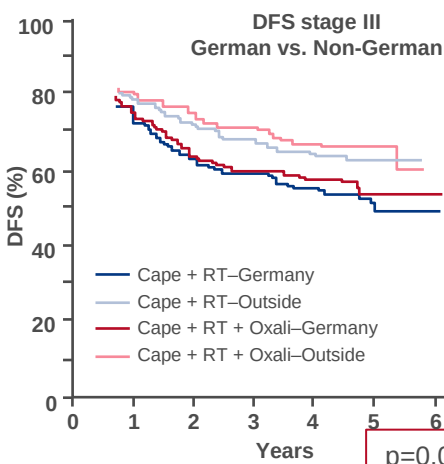


	Capecitabine + oxaliplatin	Capecitabine
3-year DFS, %	74.5	74.6
HR (95% CI); p-value	1.0 (0.61, 1.63); 0.996	

	Capecitabine + oxaliplatin	Capecitabine
3-year DFS, %	77.5	78.0
HR (95% CI); p-value	1.0 (0.75, 1.31); 0.958	



	Cape + oxaliplatin	Cape
Germany, n	83	88
3-year DFS, %	77.6	74.8
HR	0.92	1.0
Non-Germany, n	35	28
3-year DFS, %	67.4	74.1
HR	1.31	1.13



	Cape + oxaliplatin	Cape
Germany, n	238	242
3-year DFS, %	73.1	80.9
HR	1.41	1.0
Non-Germany, n	133	149
3-year DFS, %	84.8	73.0
HR	0.89	1.57

467PD: Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer: Final analyses – Schmoll et al

Conclusions

- The addition of oxaliplatin to capecitabine therapy was not associated with improvement in DFS vs. capecitabine alone
- Strong differences were observed between German and non-German patients
 - Non-German patients with stage III disease had significantly improved outcomes on capecitabine + oxaliplatin vs. capecitabine
 - In contrast, German patients had non-significant trend for superior outcomes with capecitabine vs. capecitabine + oxaliplatin
- Multivariate analysis by baseline factors could not detect the factors responsible for the difference between German and non-German groups
- These results contradict those of the CAO/ARO/AIO-4 and PETACC 6 trials, therefore, the role of adjuvant oxaliplatin in addition to capecitabine/5FU remains unclear