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EXPERTS KNOWLEDGE SHARE

with

Dr. Lenz,

Dr. Cremolini and Dr. Prager

Munich, Germany

Saturday October 20th

20:00-22:00

Supported by an independent Educational Grant from Bayer

**THE ARGUMENT AGAINST
TREATMENT SEQUENCING AND FOR
FLEXIBLE DOSING IN LATER-LINE
MANAGEMENT
OF COLORECTAL CANCER**

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DISCLAIMER



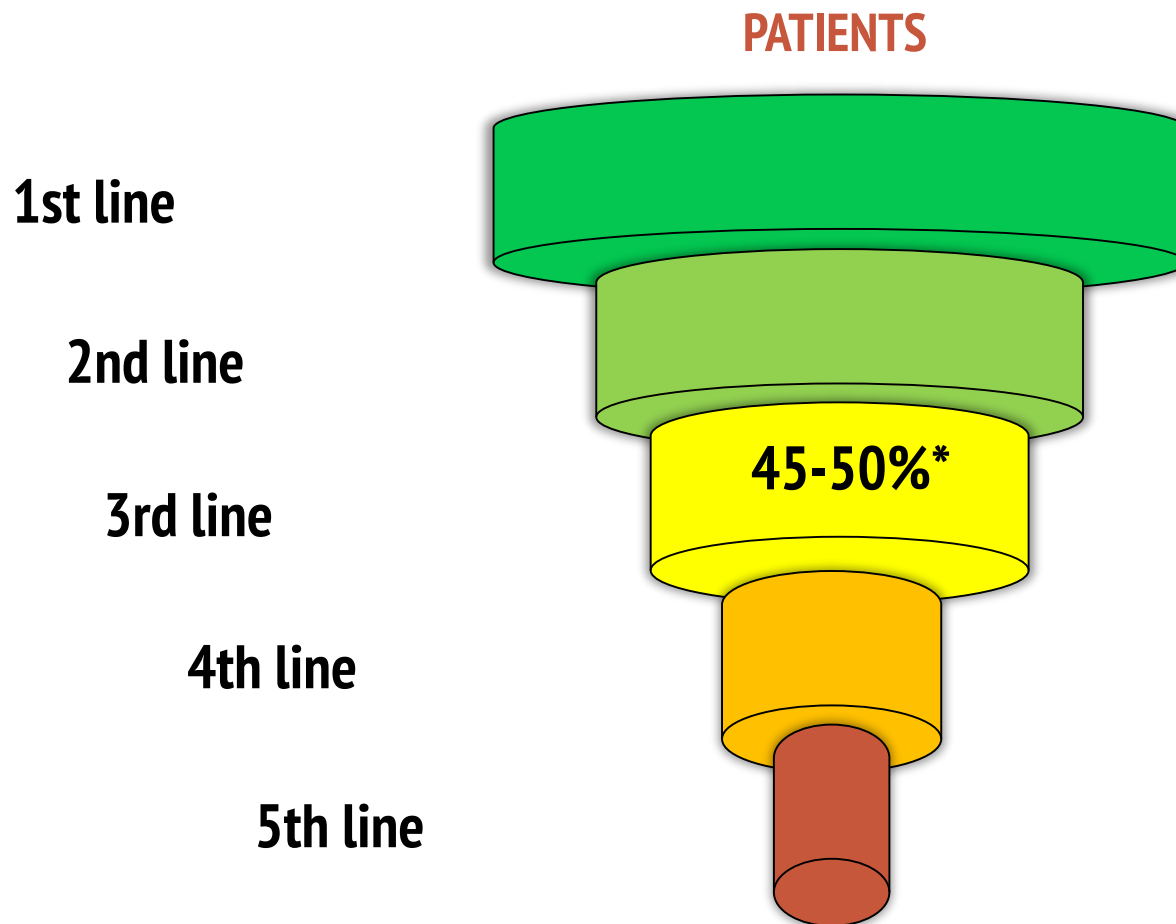
Please note:

The views presented do not reflect the Experts' own opinions but are intended to represent opposing perspectives on the topic of discussion

Disclosures:

Dr. Chiara Cremolini has no financial disclosures to declare

DOES THE CONCEPT OF SEQUENCING APPLY TO LATER LINES OF THERAPY?



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*based on TRIBE and FIRE-3 trial data
Modest et al. J Clin Oncol 2015
Cremolini et al. Lancet Oncol 2015

WHICH IS THE BEST OPTION NOW?

PHASE III OPTIONS



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REGORAFENIB VS TFD/TPI: ACTIVITY AND EFFICACY IN PIVOTAL TRIALS

	CORRECT (N=760)			RECOURSE (N=800)		
	Rego (n=505)	Placebo (n=255)		TFD/TPI (n=534)	Placebo (n=266)	
ORR	1.0%	0.4%	$P = .19$	1.6%	0.4%	$P = .29$
DCR	41%	15%	$P < .001$	44%	16%	$P < .001$
PFS	1.9	1.7	HR = 0.49 $P < .001$	2.0	1.7	HR = 0.48 $P < .001$
OS	6.4	5.0	HR = 0.77 $P = .0052$	7.1	5.3	HR = 0.68 $P < .001$

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Grothey et al. Lancet 2013; Mayer et al. N Engl J Med 2015

DCR, disease control rate; HR, hazard ratio; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; Rego, regorafenib; TFD/TPI, trifluridine/tipiracil

REGORAFENIB VS TFD/TPI: ACTIVITY AND EFFICACY IN ASIAN POPULATION

	CONCUR (N=204)			TERRA (N=542)		
	Rego (n=136)	Placebo (n=68)		TFD/TPI (n=271)	Placebo (n=271)	
ORR	4.0%	0%	$P = .045$	1.1%	0	$P = .55$
DCR	51%	7%	$P < .001$	44.1%	14.6%	$P < .001$
PFS	3.2	1.7	HR = 0.31 $P < .001$	2.0	1.8	HR = 0.43 $P < .001$
OS	8.8	6.3	HR = 0.55 $P < .001$	7.8	7.1	HR = 0.79 $P = .035$

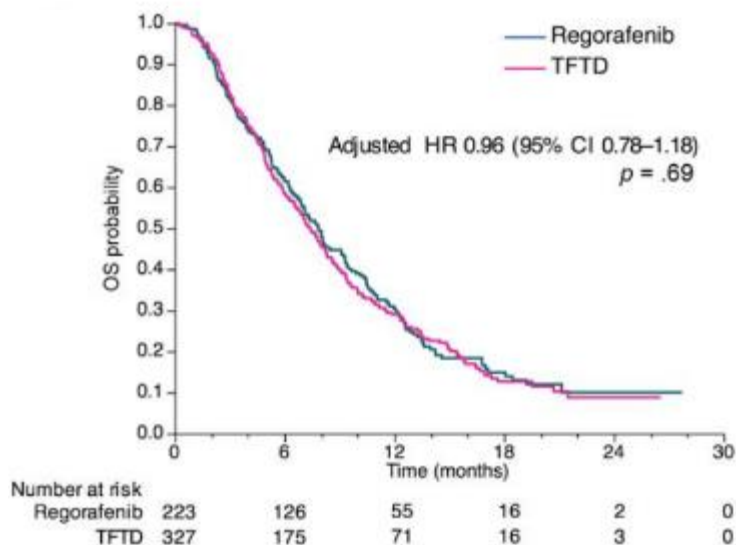
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Li et al. Lancet Oncol 2015; Xu et al. J Clin Oncol 2018

DCR, disease control rate; HR, hazard ratio; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; Rego, regorafenib; TFD/TPI, trifluridine/tipiracil

REGORAFENIB VS TFD/TPI IN THE REAL-LIFE SETTING

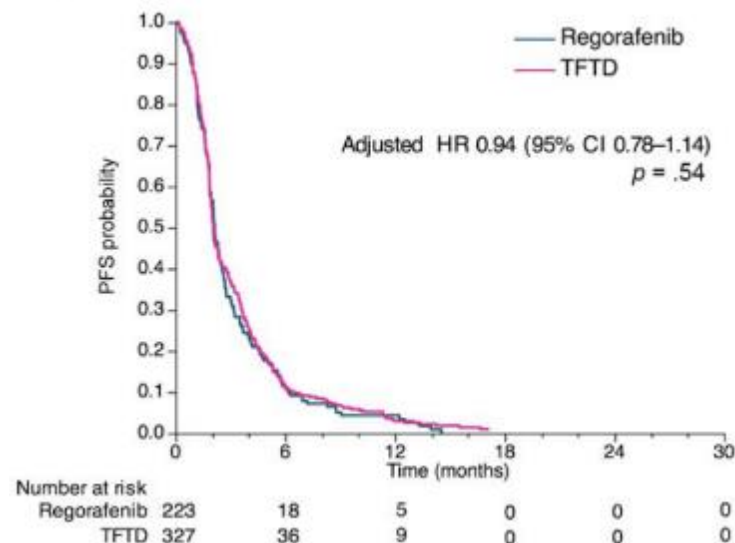
OVERALL SURVIVAL



Subgroup analysis:
Rego showed favorable OS in pts <65 ys, whereas TFD/TPI was favored in pts aged ≥ 65 ys

Propensity score-based analysis
N=550

PROGRESSION-FREE SURVIVAL



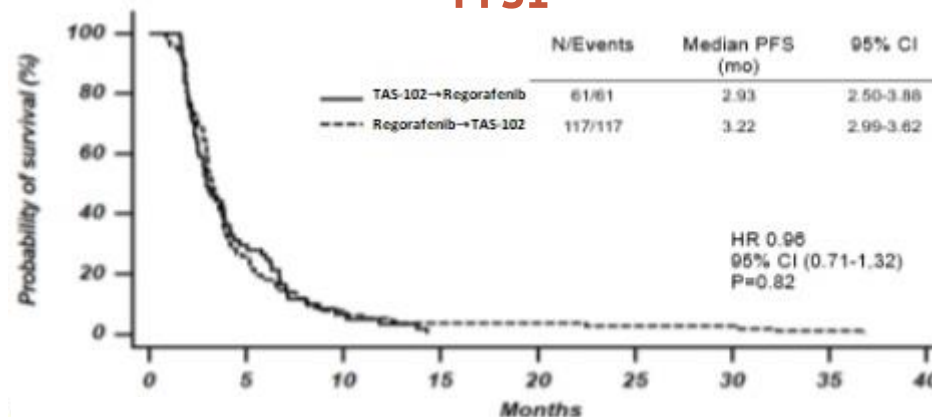
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SEQUENCING IN THE REAL-LIFE SETTING

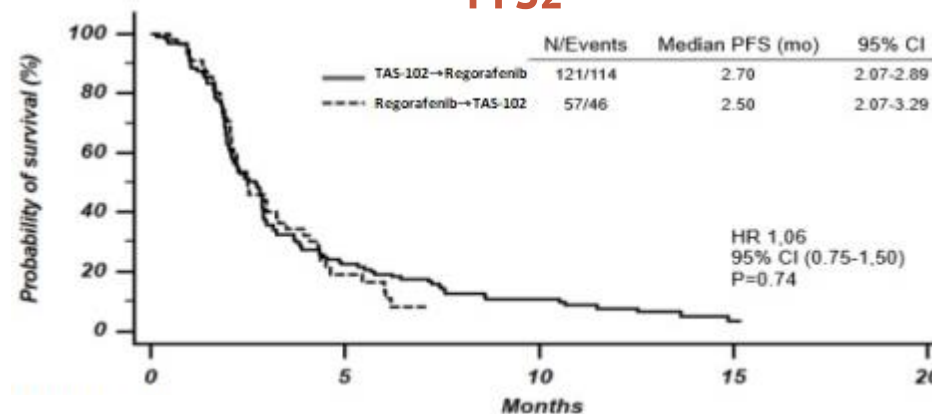


**Subgroup of patients
who had received
both Rego and
TFD/TPI
N=182**

PFS1



PFS2

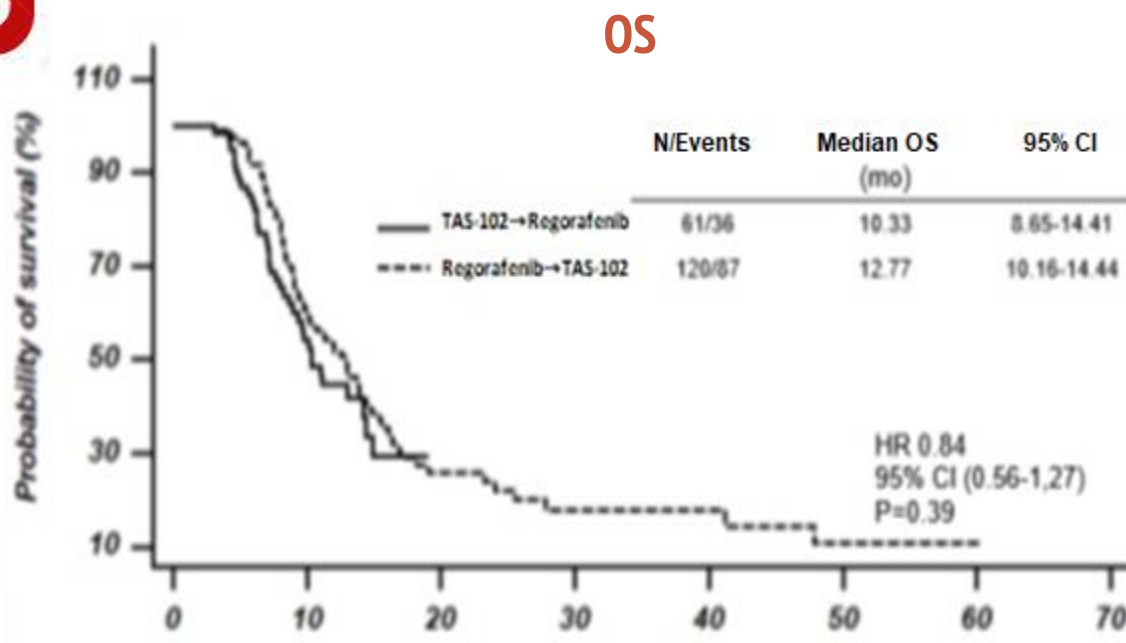


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SEQUENCING IN THE REAL-LIFE SETTING



**Subgroup of patients
who had received both Rego and TFD/TPI
N=182**



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REGORAFENIB VS TFD/TPI: TOXICITY PROFILE

G≥3 Adverse events, %	REGORAFENIB		TFD/TPI	
	CORRECT (N=500)	CONCUR (N=136)	RECOURSE (N=533)	TERRA (N=271)
Neutropenia	0.6	2	38	33
Leukopenia	NR	2	21	21
Febrile Neutropenia	NR	NR	4	0
Anemia	2.8	2	18	18
Thrombocytopenia	2.8	3	5	3
Bilirubin increase	13	11	9	1
AST/ALT increase	NR	7	3	4
Diarrhea	7	1	3	1
Hypertension	7	11	NR	NR
Fatigue	10	3	4	2
Hand-Foot Skin Reaction	17	16	0	-

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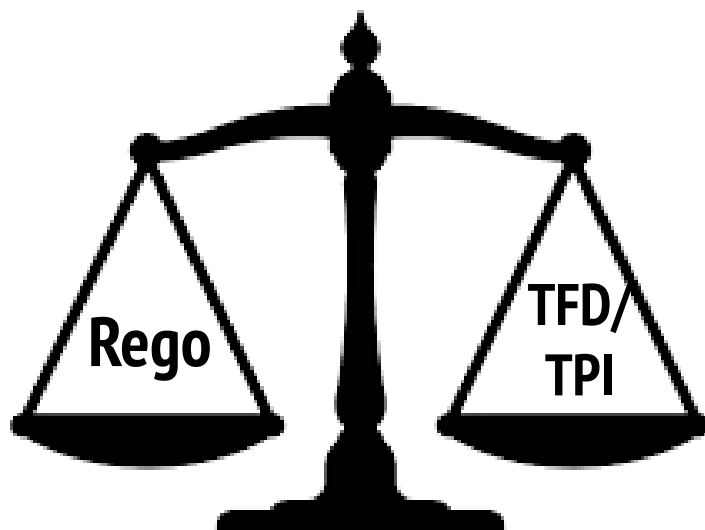
REGORAFENIB VS TFD/TPI: TOXICITY PROFILE

G≥3 Adverse events, %	REGORAFENIB		TFD/TPI
	CONSIGN (N=2864)	CORRELATE (N=1037)	PRECONNECT (N=462)
Neutropenia	1	NR	38
Leukopenia	NR	NR	NR
Febrile Neutropenia	NR	NR	2
Anemia	4	NR	7
Thrombocytopenia	2	NR	1
Bilirubin increase	13	NR	NR
AST/ALT increase	7	NR	<1%
Diarrhea	5	3	4
Hypertension	15	8	NR
Fatigue	13	10	2
Hand-Foot Skin Reaction	14	7	NR

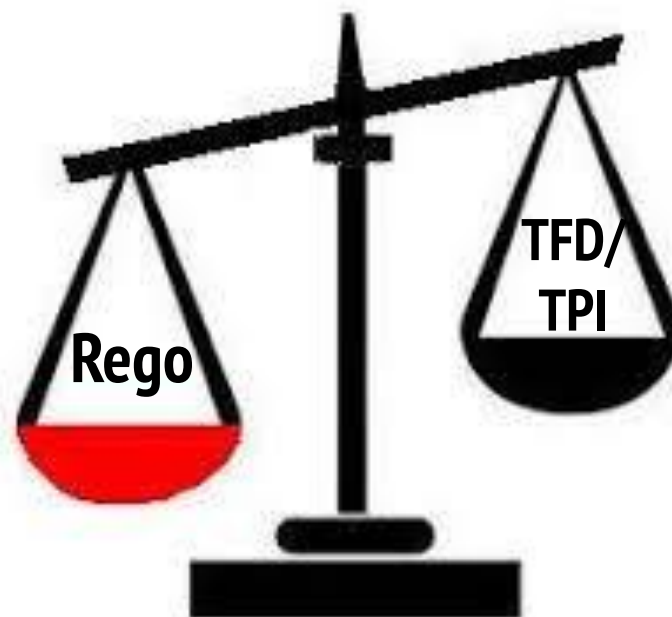
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REGORAFENIB VS TFD/TPI: SUMMARY

EFFICACY



SUBJECTIVE TOXICITY



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REGORAFENIB VS TFD/TPI: REAL-WORLD TREATMENT COMPLIANCE

Proportion of Days Covered

Variable	FTD/TPI Patients (n = 1630)	REG Patients (n = 1425)	P Value
PDC			
At 3 mo	1524 (93.5)	1333 (93.5)	
PDC	0.71 ± 0.24 (0.81)	0.59 ± 0.25 (0.62)	< .001 ^a
PDC ≥ 0.80	774 (50.8)	389 (29.2)	< .001 ^a
PDC ≥ 0.90	533 (35.0)	245 (18.4)	< .001 ^a
At 6 mo	554 (34.0)	717 (50.3)	
PDC	0.57 ± 0.25 (0.58)	0.45 ± 0.26 (0.43)	< .001 ^a
PDC ≥ 0.80	131 (23.6)	90 (12.6)	< .001 ^a
PDC ≥ 0.90	67 (12.1)	43 (6.0)	< .001 ^a

^aStatistically significant ($P < .05$)

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HOW TO IMPROVE REGORAFENIB TOLERABILITY AND COMPLIANCE?



Flexible dosing

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REGORAFENIB TREATMENT MODIFICATIONS IN PROSPECTIVE AND OBSERVATIONAL STUDIES

	CORRECT Phase III N=505	CONCUR Phase III N=136	CONSIGN Phase IIIb N=2864	REBECCA Observ N=654	CORRELATE# Observ N=500
Initial daily dose 160mg/120mg/80mg/other	100/0/0/0	100/0/0/0	100/0/0/0	80/14/6/<1	53/34/12/1
Any treatment modification[§]	76%	75%	87%	50%	65%
Any treatment modification[§] caused by drug-related AE	67%	71%	60%	-	19%*
Median PFS, months	1.9	3.2	2.7	2.7	2.5
Median OS, months	6.4	8.8	-	5.6	6.5

#data from interim analysis; §modifications include reductions, interruptions/delays, and re-escalations; *data refers only to dose reduction.

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ADDITIONAL OBSERVATIONAL DATA FROM GERMANY: RECORA STUDY

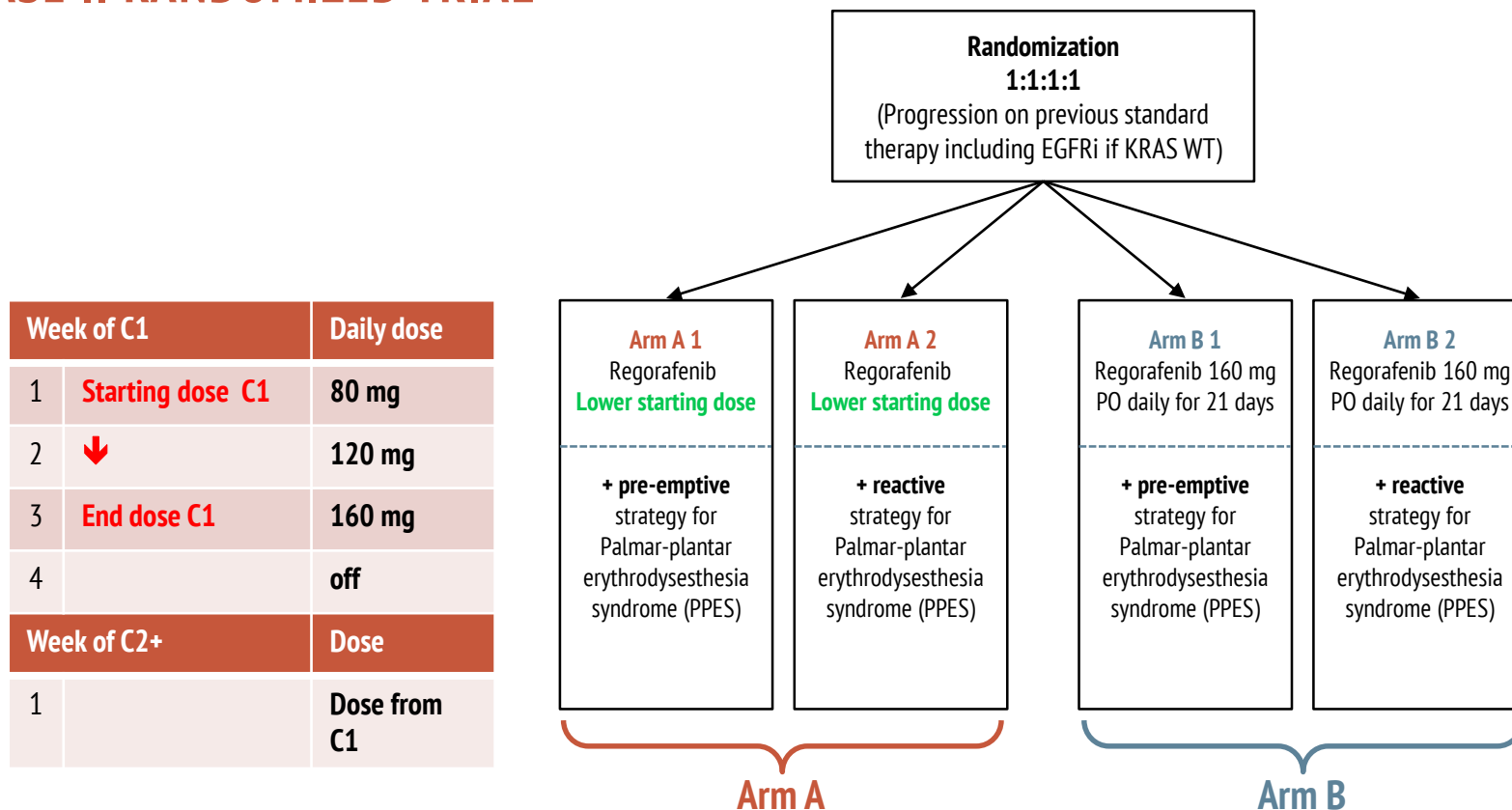
	CORRECT Phase III N=505	RECORA Observ N=458
Initial daily dose 160mg/120mg/80mg/other	100/0/0/0	54/17/25/4
Any treatment modification[§]	76%	43%
Median duration of treatment	1.7 mos	2.3 mos
Median PFS	1.9 mos	3.1 mos
Median OS	6.4 mos	5.9 mos

[§] modifications include reductions, interruptions/delays, and re-escalations

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REDOS TRIAL: DESIGN AND ENDPOINTS

PHASE II RANDOMIZED TRIAL



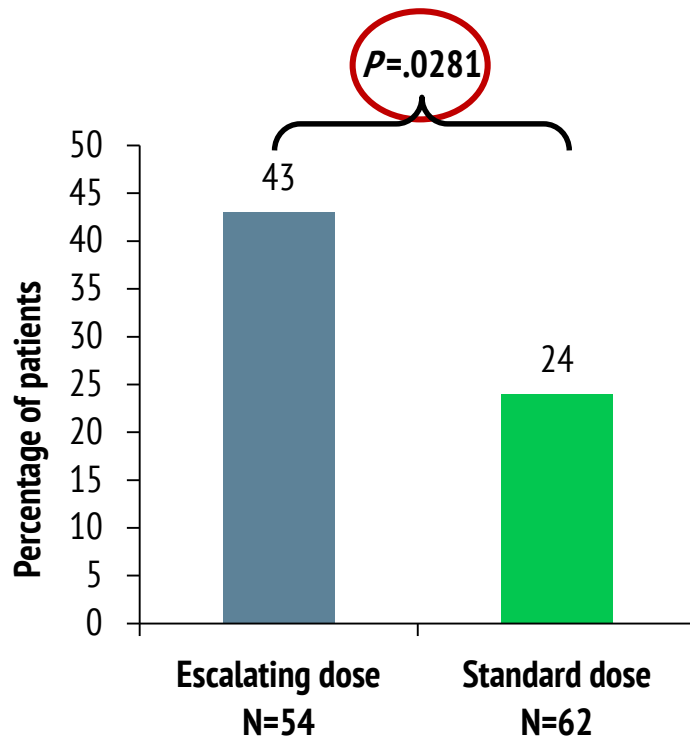
1ary endpoint: proportion of pts who completed 2 cycles and initiated cycle 3 in arm A versus B

2ary endpoints included: OS, PFS, TTP

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REDOS TRIAL: RESULTS (PRIMARY ENDPOINT)

% OF PTS STARTING CYCLE 3



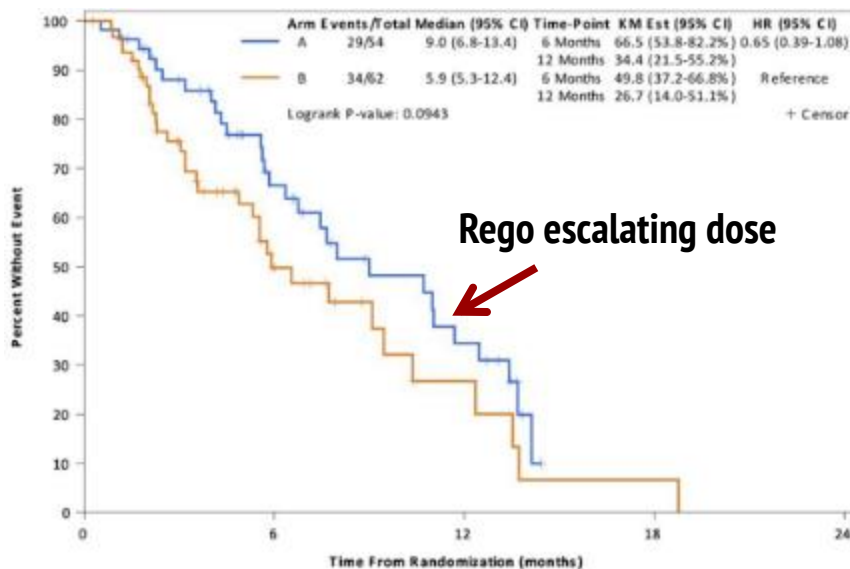
SAFETY

	ESCALATING DOSE N=54	STANDARD DOSE N=62	P value
Grade ≥ 3 HFSR	15%	16%	n/a
Grade ≥ 3 HTN	7%	15%	n/a
Grade ≥ 3 fatigue	13%	18%	n/a

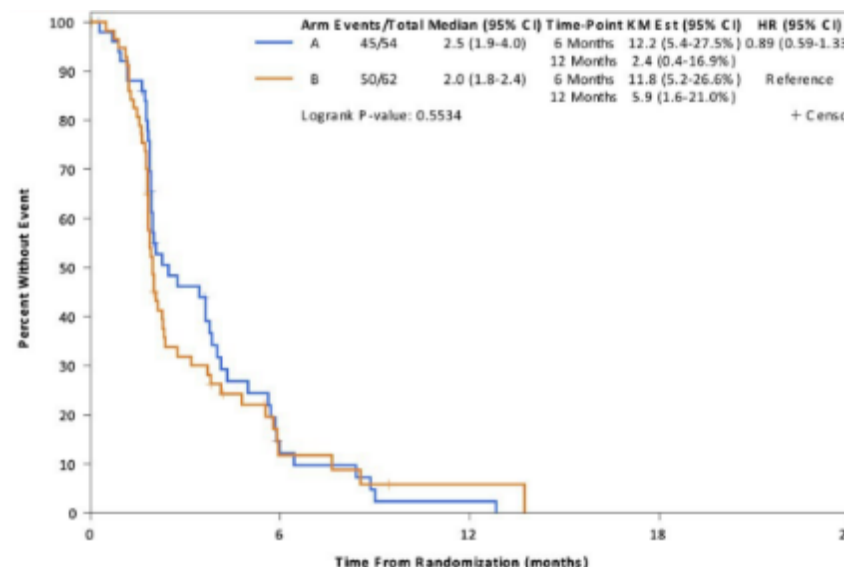
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REDOS TRIAL: PFS AND OS RESULTS

OVERALL SURVIVAL



PROGRESSION-FREE SURVIVAL



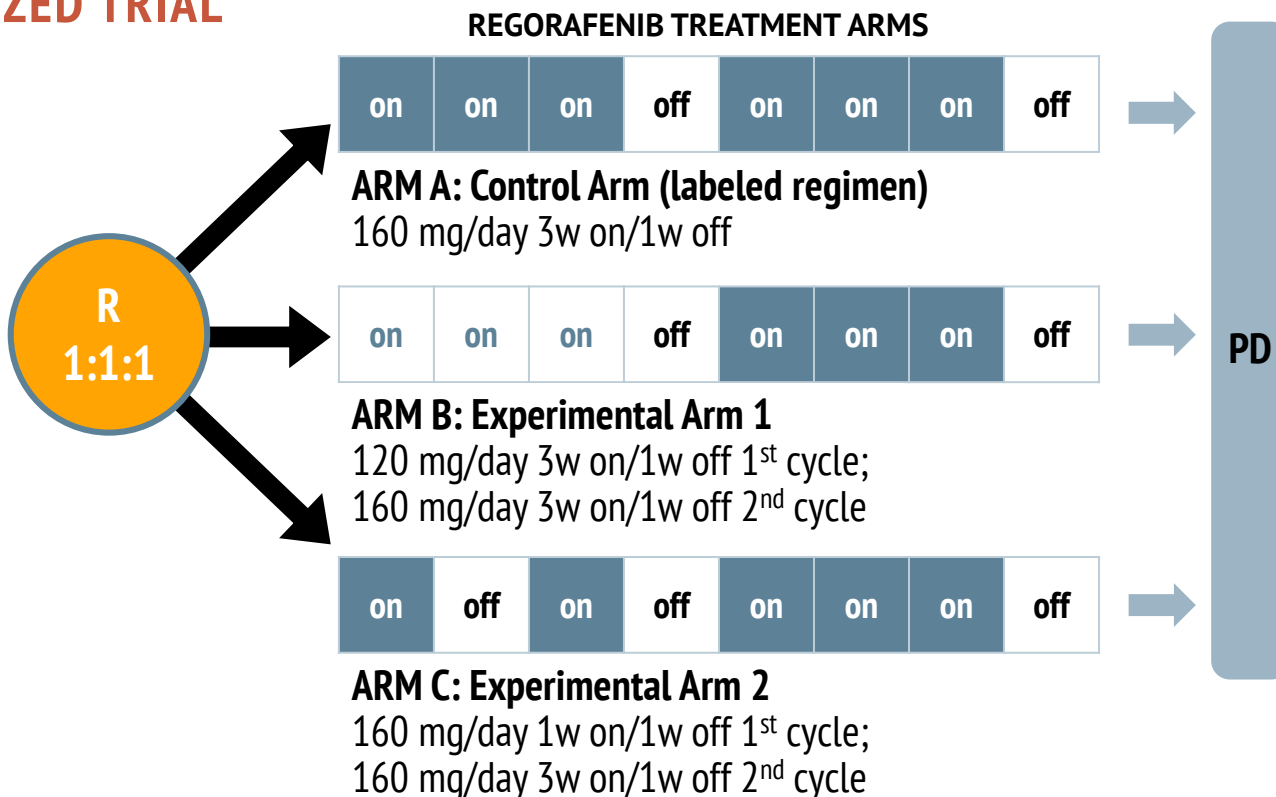
	ESCALATING DOSE N=54	STANDARD DOSE N=62	HR (95% CI)	P value
Median OS, months	9.0	5.9	0.65 (0.39-1.08)	0.094
Median PFS, months	2.5	2.0	0.89 (0.59-1.33)	0.553

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RE-ARRANGE TRIAL: STUDY DESIGN (ONGOING) (ACCRUAL COMPLETED)

PHASE II RANDOMIZED TRIAL

mCRC
PD or intolerant to standard treatments
Meet IC/EC



1ary endpoint: % of pts with G3/4 treatment-related AEs in each arm, according to CTCAE v4.03 criteria.

2ary endpoints: OS, PFS, TTF, DCR, dose intensity and drug administration.

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REGORAFENIB FLEXIBLE DOSING?



- To improve compliance to the treatment
- To reduce the incidence of adverse events
- To preserve patients' quality of life in a palliative setting

...without impairing treatment efficacy

WHICH IS THE BEST OPTION NOW?

PHASE III OPTIONS



NEW OPTIONS ON THE HORIZON...

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TOWARDS POSITIVE PREDICTORS OF BENEFIT: CHECKPOINT INHIBITORS IN MSI-HIGH mCRC

Nivolumab +/- Ipilimumab

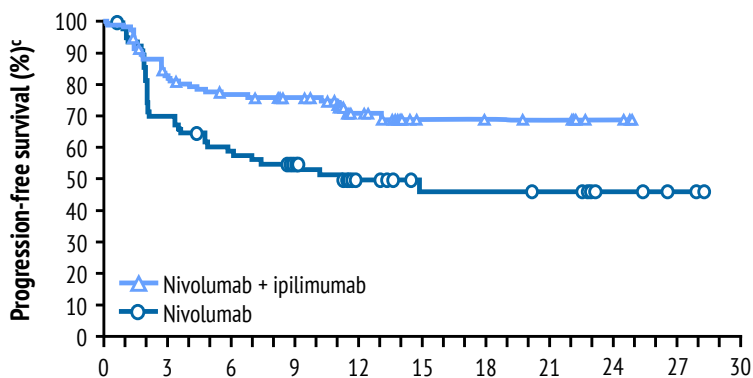
Objective Response Rate:

Nivo: **31%**

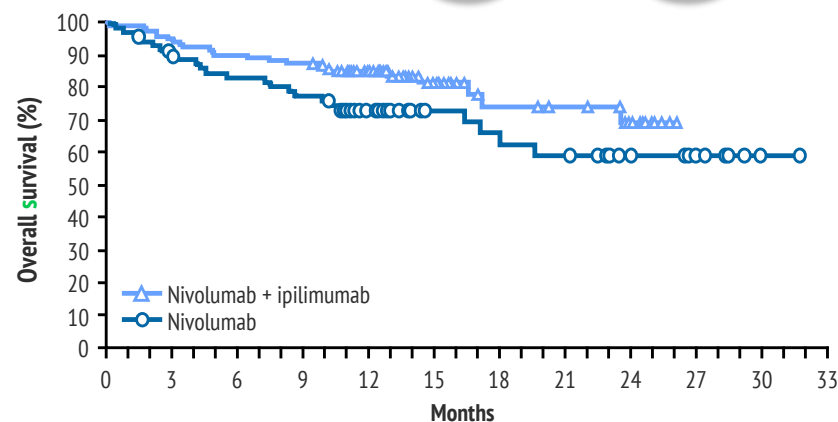
Nivo + Ipi: **55%**

	Nivolumab + ipilimumab	Nivolumab
9-mo rate (95% CI), %	76 (67.0, 82.7)	54 (41.5, 64.5)
12-mo rate (95% CI), %	71 (61.4, 78.7)	50 (38.1, 61.4)

	Nivolumab + ipilimumab	Nivolumab
9-mo rate (95% CI), %	87 (80.0, 92.2)	78 (66.2, 85.7)
12-mo rate (95% CI), %	85 (77.0, 90.2)	73 (61.5, 82.1)



No. at Risk	Months										
	0	3	6	9	12	15	18	21	24	27	30
Nivolumab + ipilimumab	119	95	86	78	39	12	11	10	3	0	0
Nivolumab	74	48	41	32	17	12	12	11	6	3	0

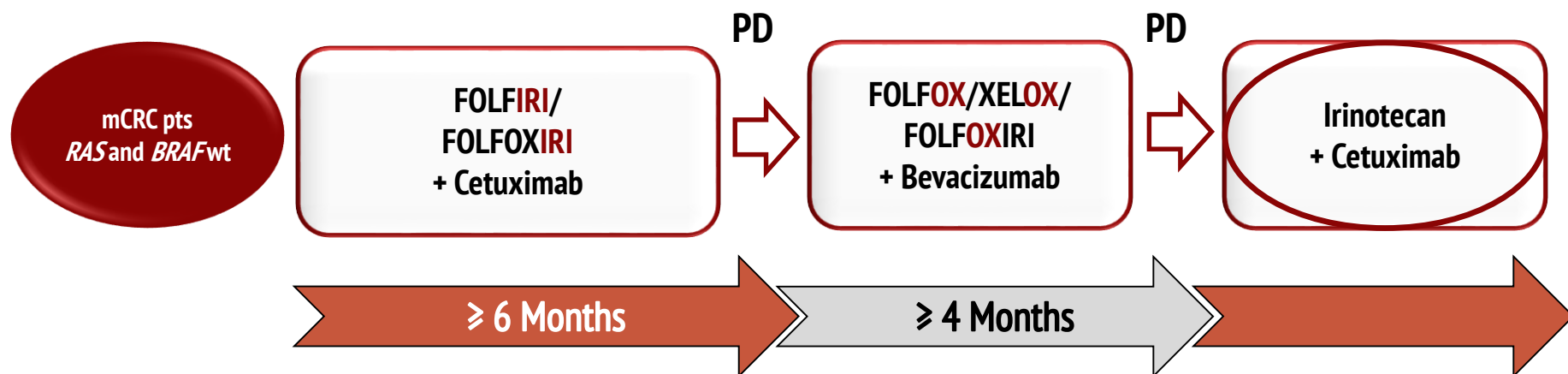


No. at Risk	Months												
	0	3	6	9	12	15	18	21	24	27	30	33	
Nivolumab + ipilimumab	119	113	107	104	78	33	19	17	11	0	0	0	
Nivolumab	74	64	59	55	37	21	19	17	11	6	1	0	

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RECHALLENGE WITH ANTI-EGFRS THERAPY: CRICKET STUDY

Phase II single-arm study of rechallenge with cetuximab + irinotecan as 3rd-line therapy in *RAS* and *BRAF*wt pts with acquired resistance to 1st-line cetuximab and irinotecan-containing therapy



Statistics: Primary endpoint: Overall Response Rate

H0: RR=5%; H1: RR=20%

Alpha-error: 0.05; Beta-error: 0.20

Sample size: 27 patients

At least 4 responses to deem the rechallenge strategy promising

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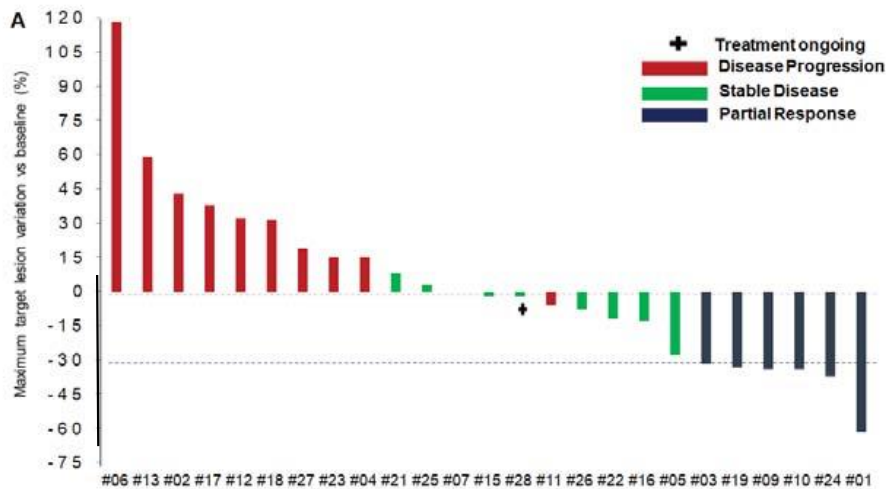
CRICKET: PRIMARY ENDPOINT – RESPONSE RATE

	Study population N=28 No (%) [95% CI]
Partial response	6 (21.5%)
• Confirmed Partial Response	4 (14.3%)
• Unconfirmed Partial Response	2 (7.1%)
Stable disease	9 (32.1%)
Progressive disease	13 (46.4%)
• Radiological PD	10 (35.7%)
• Clinical PD	3 (10.7%)
Response Rate	6 (21.5%) [10-40%]
Disease Control Rate	15 (53.6%) [36-70%]

All reported in patients with *RAS*wt cfDNA at baseline

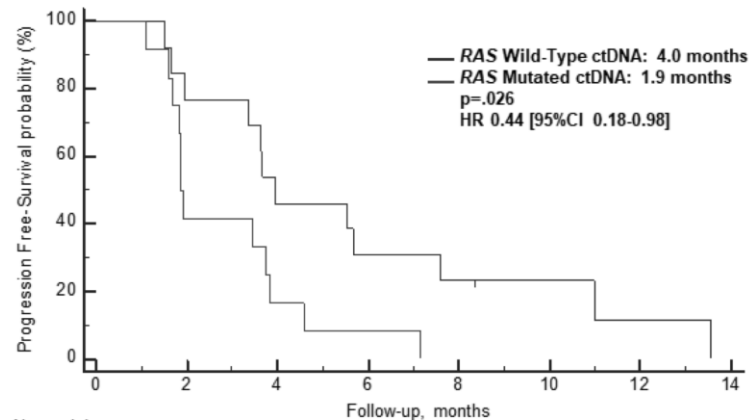
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CRICKET: RESULTS ACCORDING TO *RAS* STATUS IN ctDNA

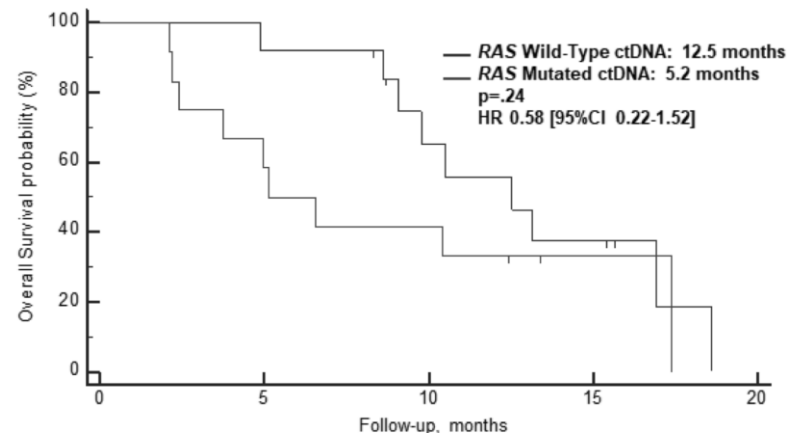


B

PROGRESSION FREE SURVIVAL

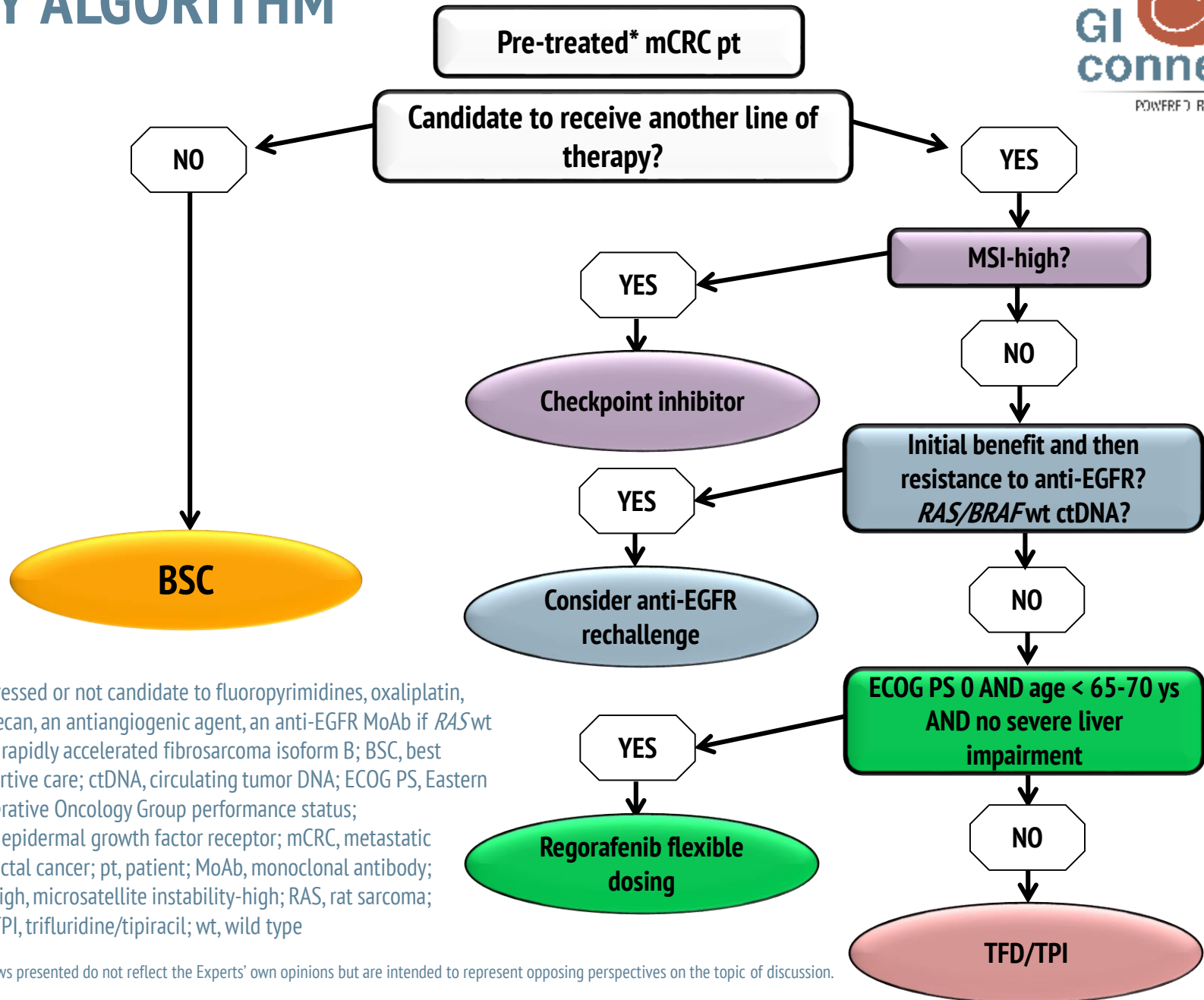


OVERALL SURVIVAL



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MY ALGORITHM



*Progressed or not candidate to fluoropyrimidines, oxaliplatin, irinotecan, an antiangiogenic agent, an anti-EGFR MoAb if *RAS*wt BRAF, rapidly accelerated fibrosarcoma isoform B; BSC, best supportive care; ctDNA, circulating tumor DNA; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; mCRC, metastatic colorectal cancer; pt, patient; MoAb, monoclonal antibody; MSI-high, microsatellite instability-high; RAS, rat sarcoma; TFD/TPI, trifluridine/tipiracil; wt, wild type

THE ARGUMENT FOR TREATMENT SEQUENCING AND FLEXIBLE DOSING IN LATER-LINE MANAGEMENT OF COLORECTAL CANCER

Gerald Prager, M.D.

Associate Professor of Medicine

Head of the GI-Cancer Program

Head of the Precision Medicine Platform

Comprehensive Cancer Center Vienna

Medical University of Vienna, Austria

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- Dr. Gerald Prager has received financial support/sponsorship for research support, consultation or speaker fees from the following companies: Roche, Halozyme, Merck Serono, MSD, Amgen, Bayer, Servier, Taiho, Shire, Celgene, Sanofi, Lilly

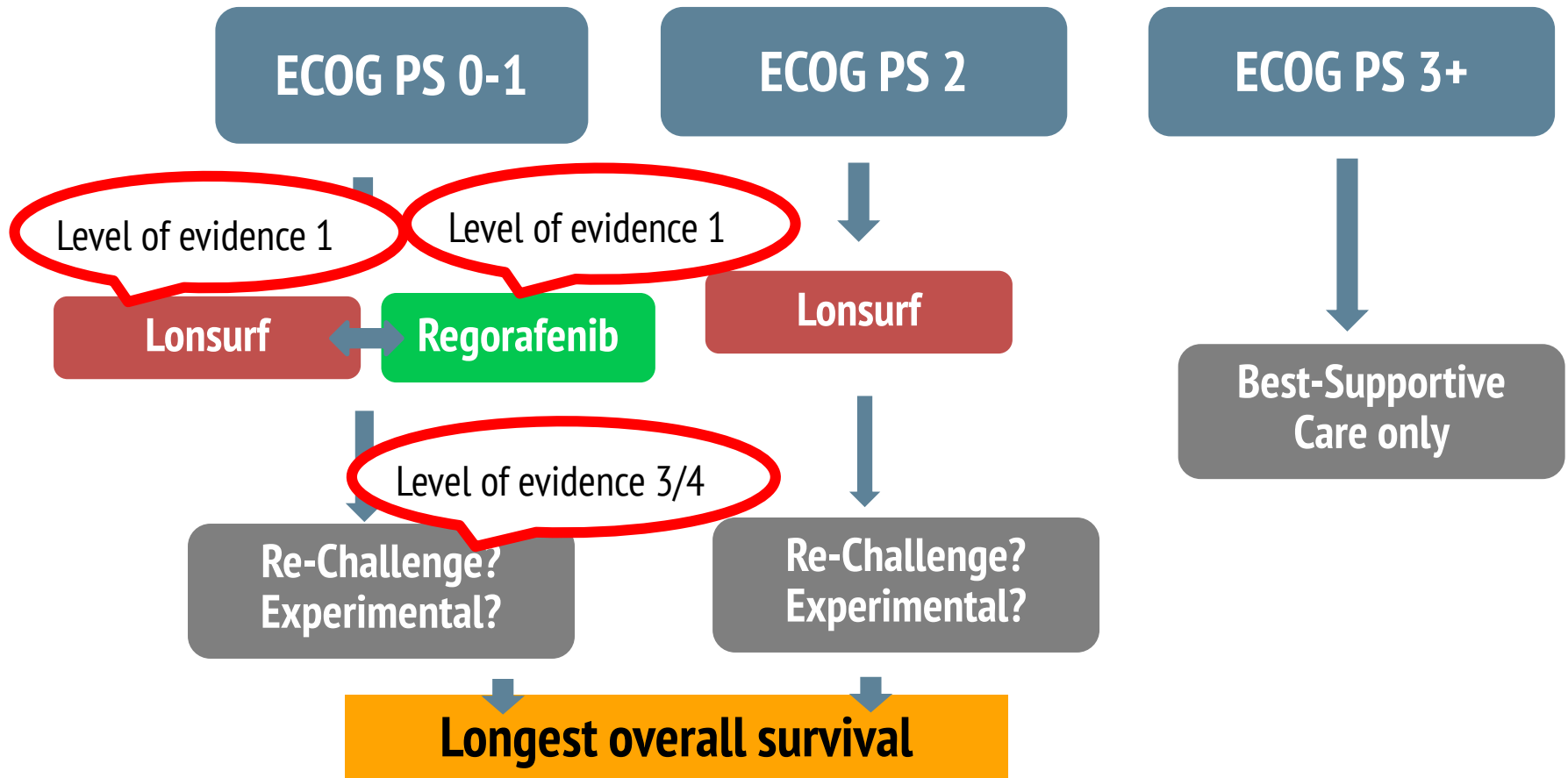
3RD LINE SETTING



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3RD LINE TREATMENT IN mCRC:

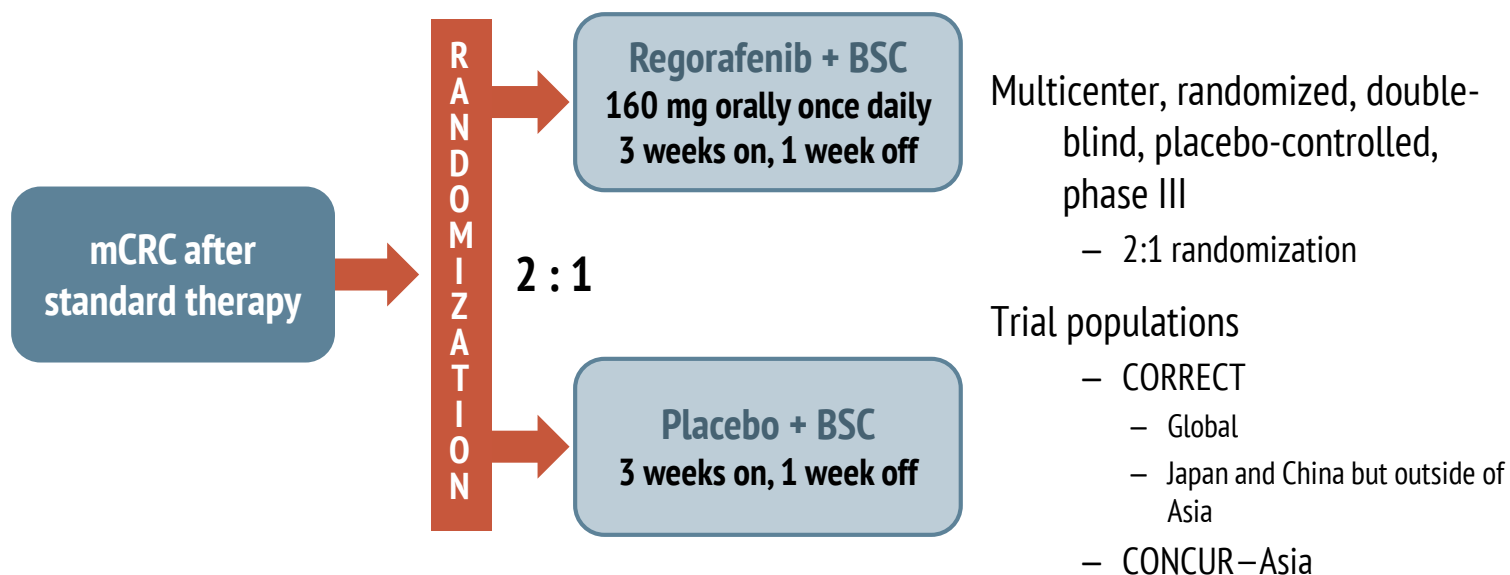
AFTER FAILURE OF FLUOROPYRIMIDINE, OXALIPLATIN, IRINOTECAN, ANTI-VEGF AND ANTI-EGFR THERAPY (IF RAS WT)



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REGORAFENIB STUDY DESIGNS

CORRECT¹ and CONCUR² Phase III Trials



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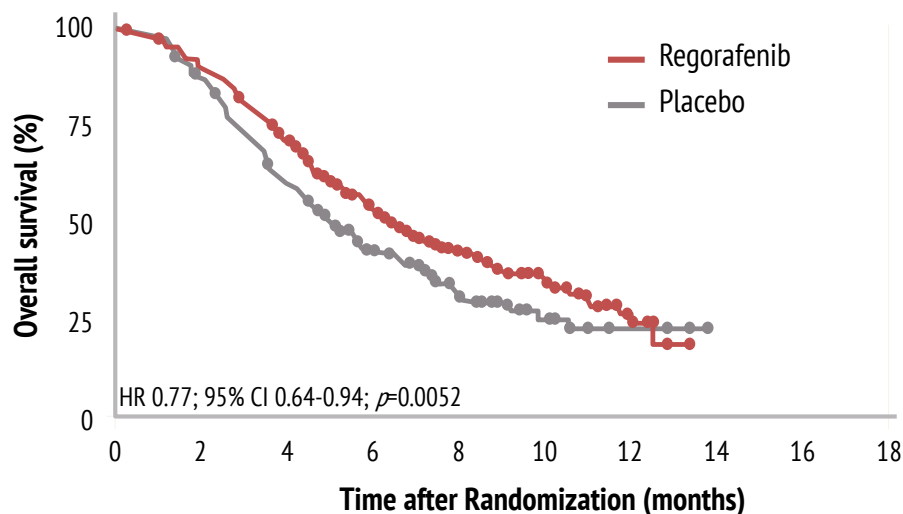
BSC, best supportive care; mCRC, metastatic colorectal cancer

1. Grothey A, et al. Lancet 2013;381:303–12

2. Li J, et al. Lancet Oncol 2015;16:619–29

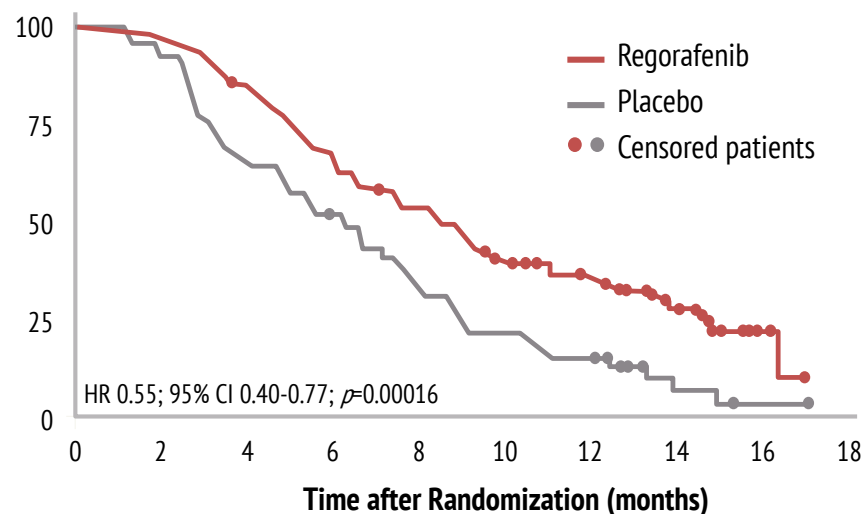
REGORAFENIB SIGNIFICANTLY IMPROVED OS VS PLACEBO IN TWO PHASE 3 RCTS

CORRECT¹



Median OS
Regorafenib: 6.4 months
Placebo: 5.0 months

CONCUR²



Median OS
Regorafenib: 8.8 months
Placebo: 6.3 months

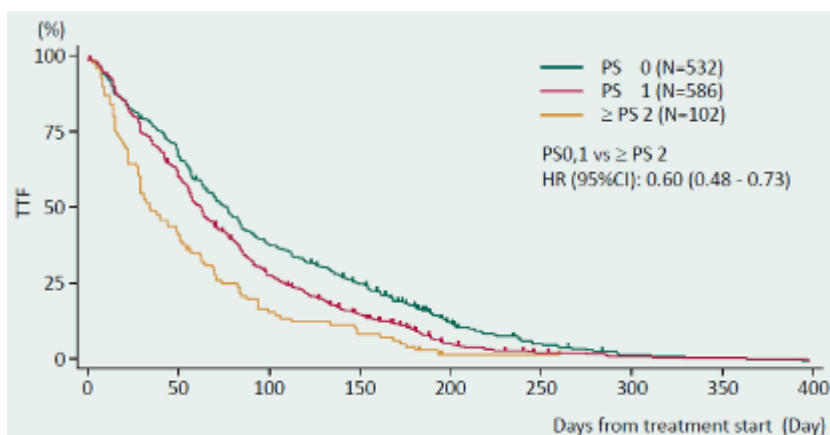
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CI, confidence interval; HR, hazard ratio; OS, overall survival; RCT, randomized clinical trial.

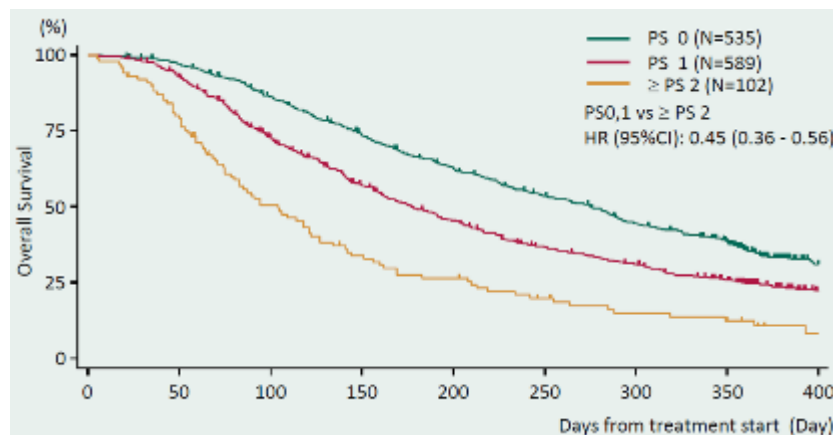
1. Grothey A, et al. Lancet 2013;381:303-12; 2. Li J, et al. Lancet Oncol 2015;16:619-29

GOOD ECOG PS MAY BE ASSOCIATED WITH INCREASED CLINICAL BENEFIT OF REGORAFENIB: POST-MARKETING SURVEILLANCE IN JAPAN

TTF



OS

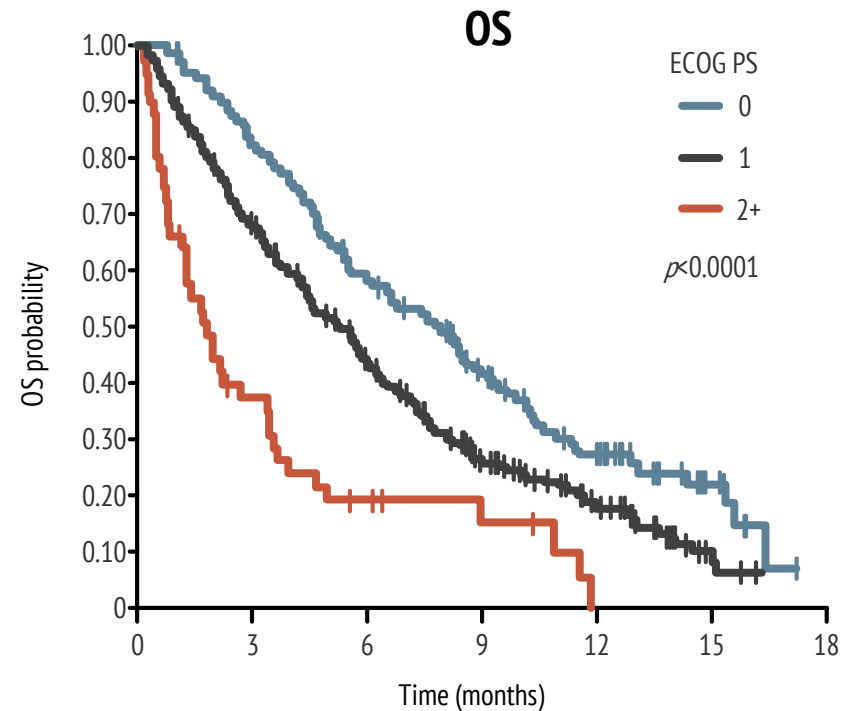
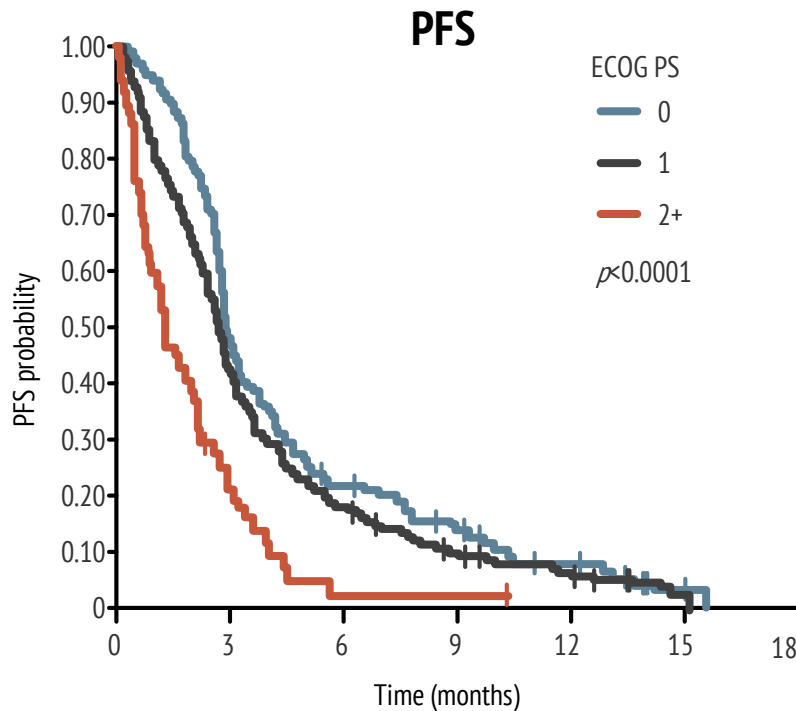


PS	Median TTF (95% CI), months	Median OS (95% CI), months
0	2.6 (2.3–2.8)	9.1 (8.1–9.6)
1	2.1 (1.9–2.3)	5.8 (5.3–6.5)
≥2	1.2 (1.0–1.7)	3.4 (2.6–4.0)

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WHO IS THE RIGHT CANDIDATE FOR REGORAFENIB?

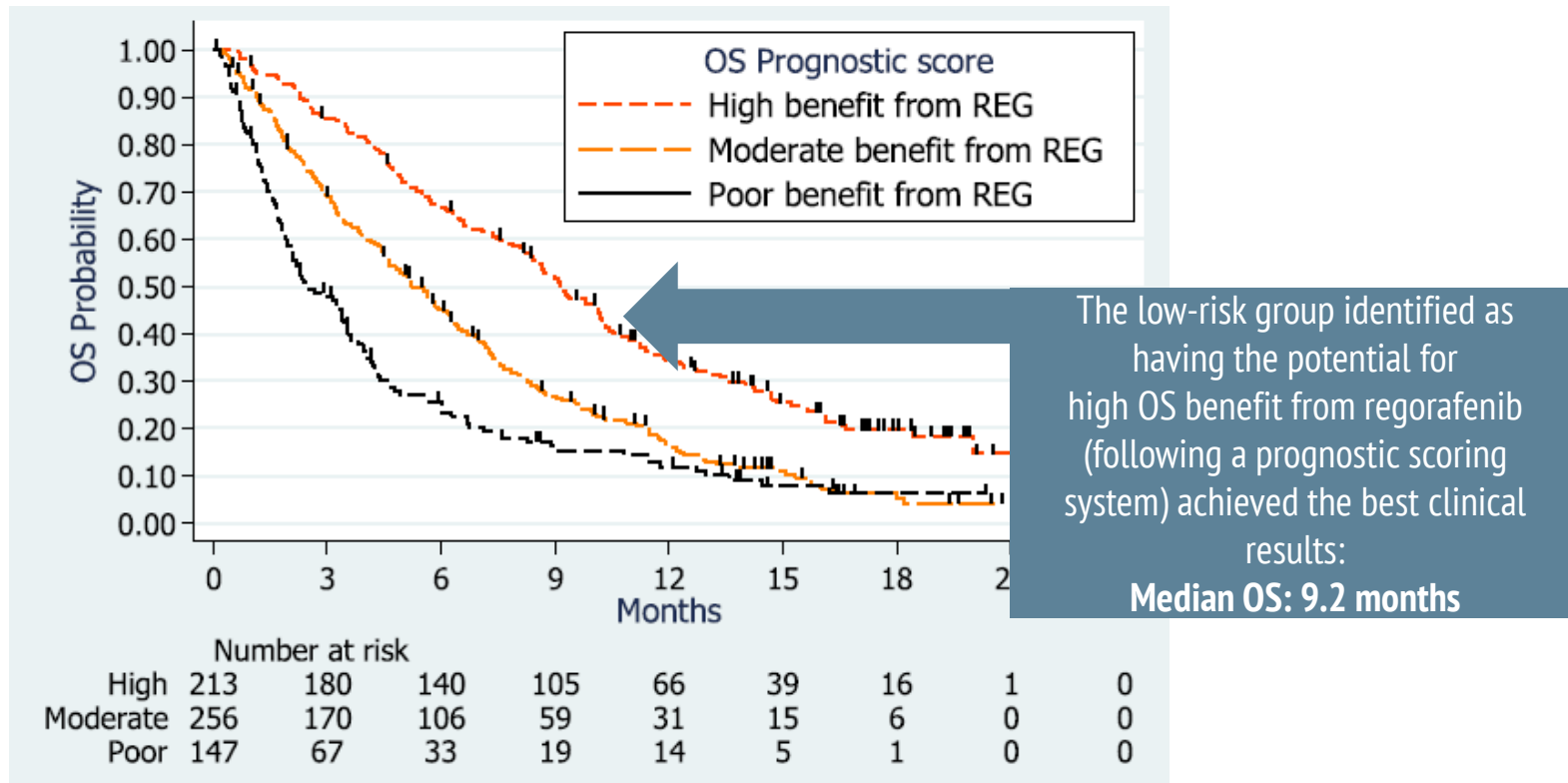
REBECCA COHORT STUDY: GOOD ECOG PS IS ASSOCIATED WITH INCREASED CLINICAL BENEFIT OF REGORAFENIB



Patients with ECOG PS ≥ 2 had a worse prognosis than those with ECOG PS 0-1

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REBECCA: PATIENTS WITH LOW RISK OF DEATH AT THE BEGINNING OF THERAPY EXPERIENCED THE BEST CLINICAL OUTCOMES



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CORRECT: KEY CHARACTERISTICS ARE LINKED WITH LONG-TERM PFS

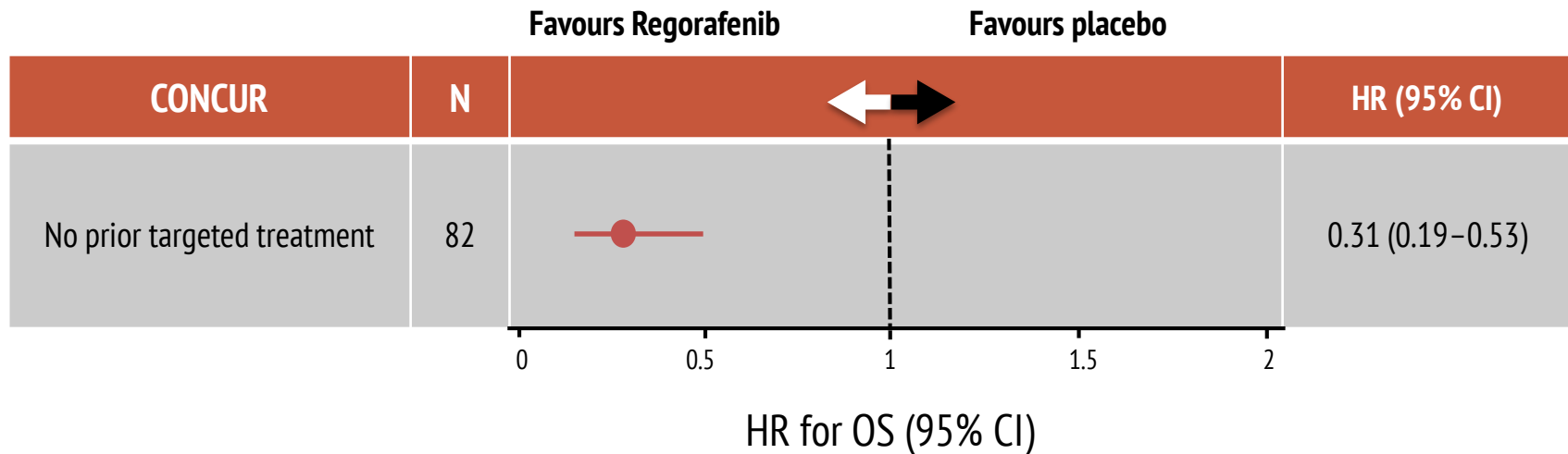
	All Patients (N=505; 100%)	Long PFS* (n=98; 19.4%)
Median age, years (range)	61 (54-67)	61 (34-82)
ECOG PS, %		
0	52	63
1	48	37
Primary tumour, %		
Colon	64	52
Rectum	30	37
Tumour metastatic sites, %		
1	19	30
2	36	38
3	27	16
KRAS status, %		
Mutant	54	47
Wild type	41	44
Time from diagnosis of metastatic disease, %		
<18 months	18	11
≥18 months	82	89
Mean treatment duration, months	2.8±2.3 [†]	6.3±2.0
Mean planned dose, % ± SD	78.9±19.9	81.4±16.3
Mean daily dose, mg ± SD	147.1±18.6	138.7±22.0
Treatment modifications, % patients	76	91

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ECOG PS, Eastern Cooperative Oncology Group performance status; KRAS, Kirsten RAS oncogene homolog; PFS, progression-free survival; SD, standard deviation
*Long-PFS: >4 months; median of 6 cycles regorafenib, 92% ≥5 cycles, and 20% >8 cycles; [†]Treated patients (n=500).

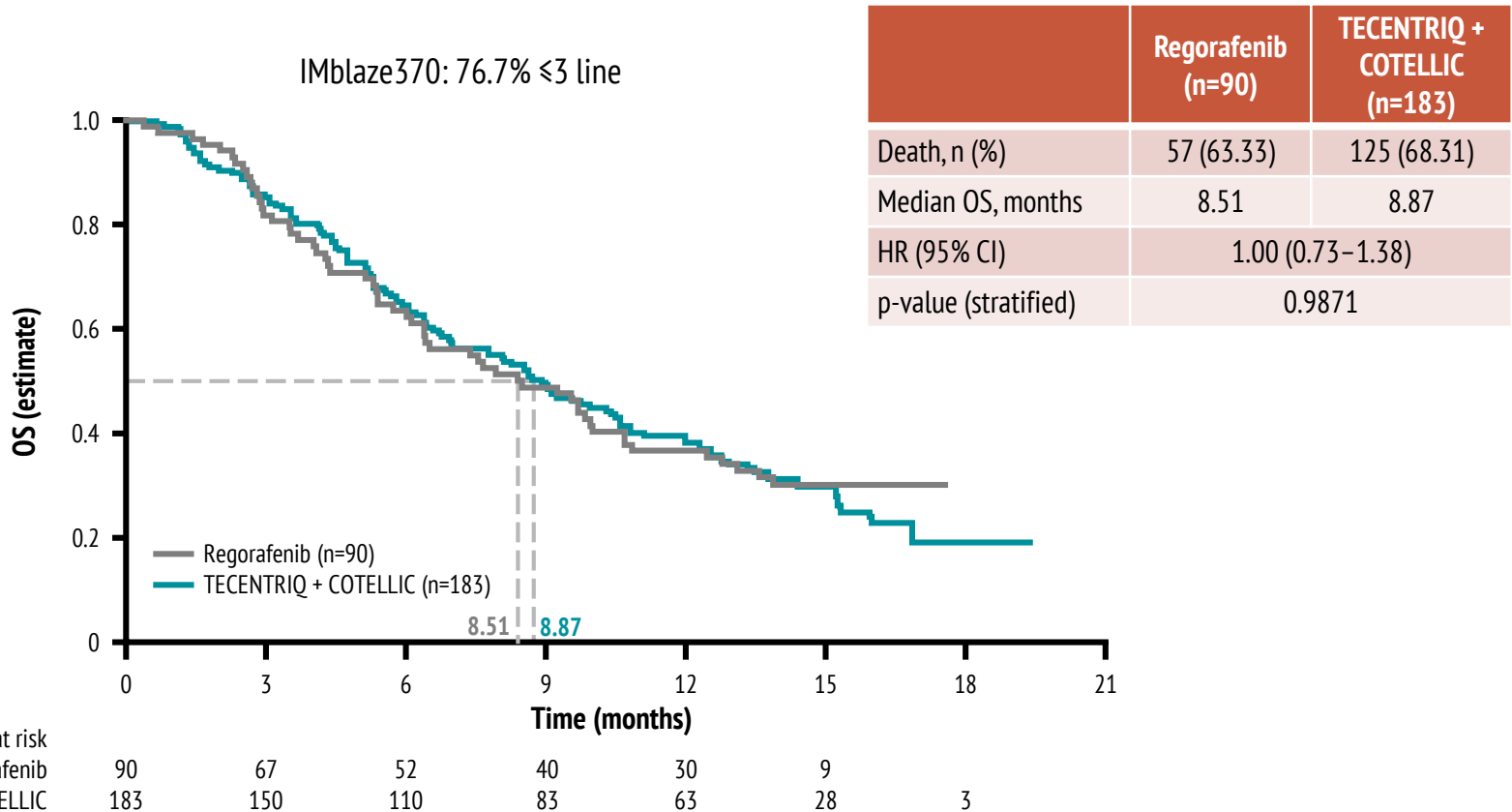
Grothey A, et al. Presented at ASCO-GI 2015, poster 710; Grothey A, et al. Lancet 2013;381:303-312

EARLY USE OF REGORAFENIB IN THE TREATMENT SEQUENCE MAY IMPROVE CLINICAL BENEFIT



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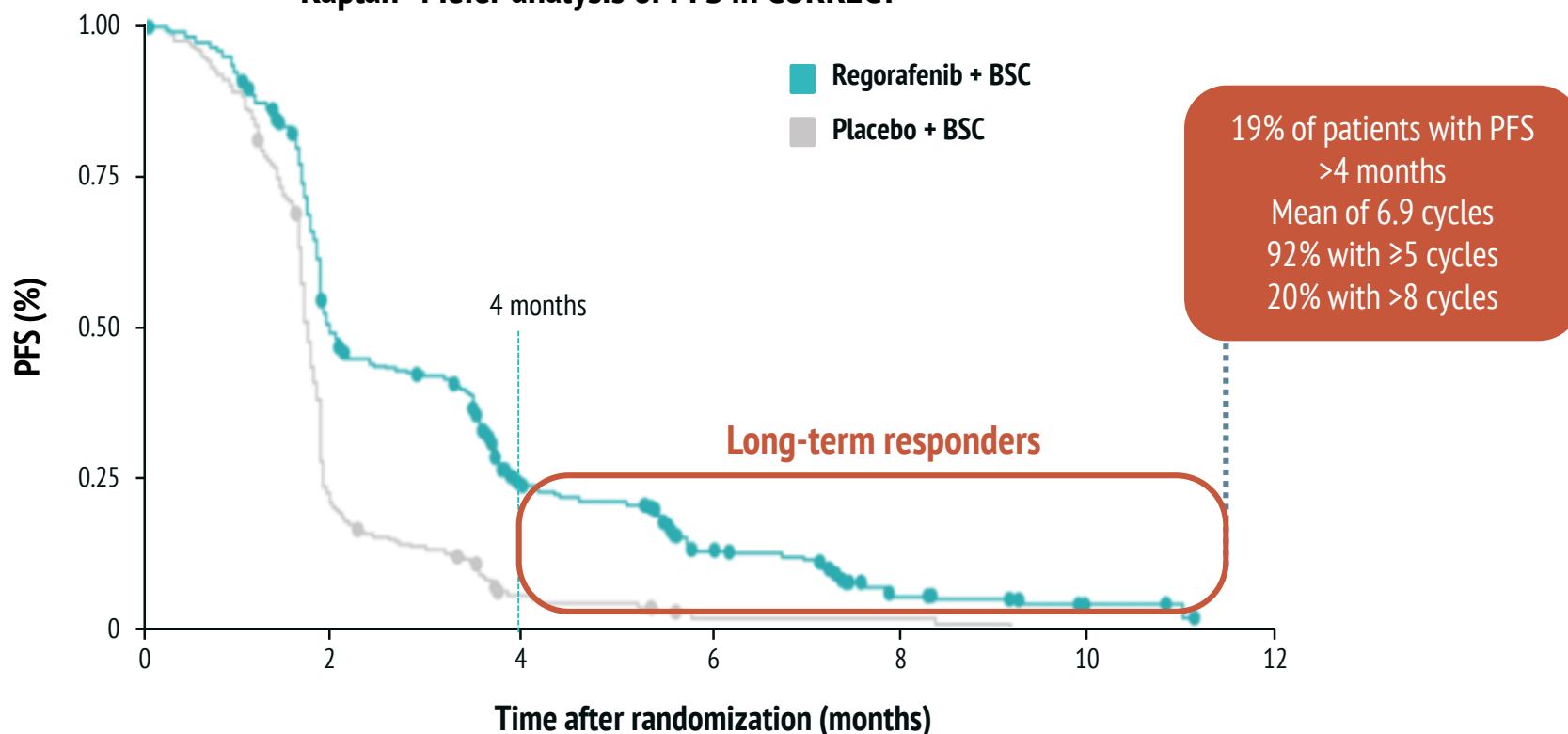
EARLY USE OF REGORAFENIB IN THE TREATMENT SEQUENCE MAY IMPROVE CLINICAL BENEFIT



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THERE IS A POPULATION OF LONG-TERM RESPONDERS TO REGORAFENIB

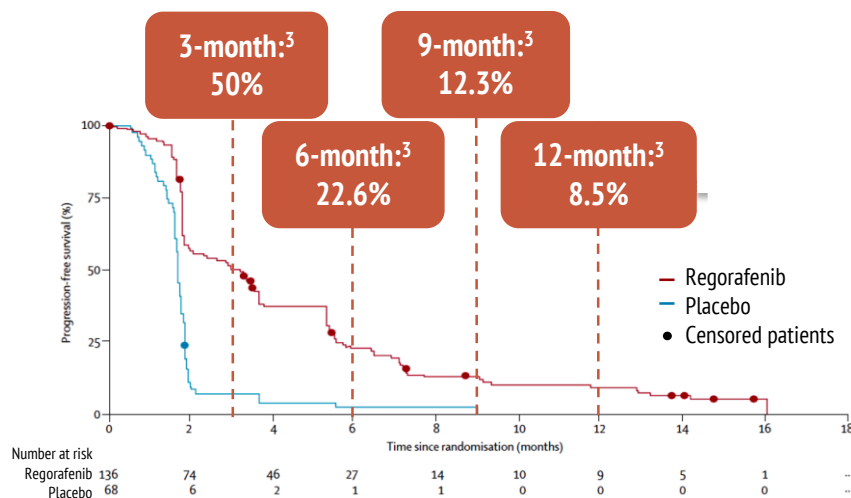
Kaplan–Meier analysis of PFS in CORRECT



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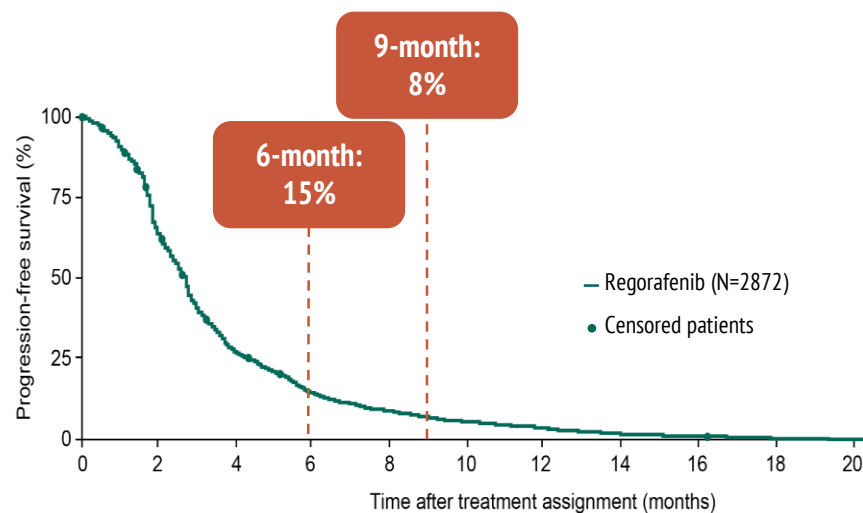
LONG-TERM RESPONDERS HAVE ALSO BEEN OBSERVED IN OTHER REGORAFENIB CLINICAL TRIALS

CONCUR: PFS¹



Median PFS: 3.2 vs 1.7 months
HR 0.31 (95% CI 0.22-0.44)
 $p < 0.0001$

CONSIGN: PFS²



Median PFS: 2.7 months

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SIMILAR SAFETY PROFILE IN LONG-TERM RESPONDER GROUP VS OVERALL CORRECT COHORT

	PFS >4 months, % (n=98)		Overall CORRECT population, % (n=500)	
	All grades	Grade ≥ 3	All grades	Grade ≥ 3
Any AE	100	82	100	78
Diarrhoea	66	17	43	8
HFSR	63	20	47	17
Weight loss	48	2	32	<1
Hypertension	42	17	30	8

Compared with the overall CORRECT cohort, the long-term response group had:

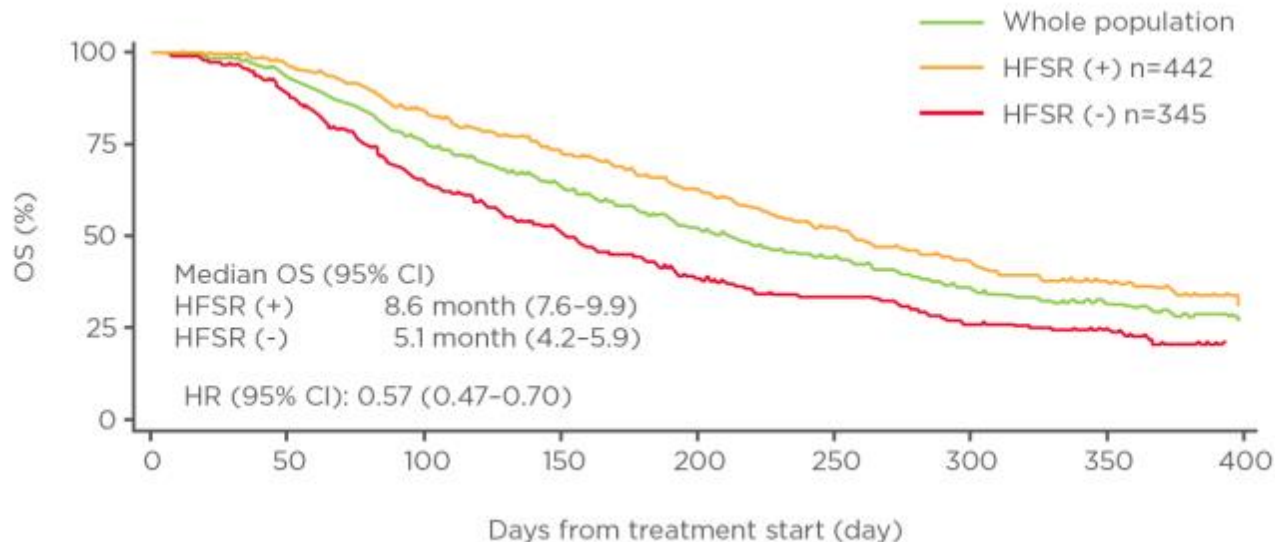
A broadly similar safety profile although some AEs were more common (possibly related to the longer duration of treatment)

Higher incidence of all-grade diarrhoea, HFSR, and weight loss

Higher incidence of grade ≥ 3 diarrhoea and hypertension vs the overall population

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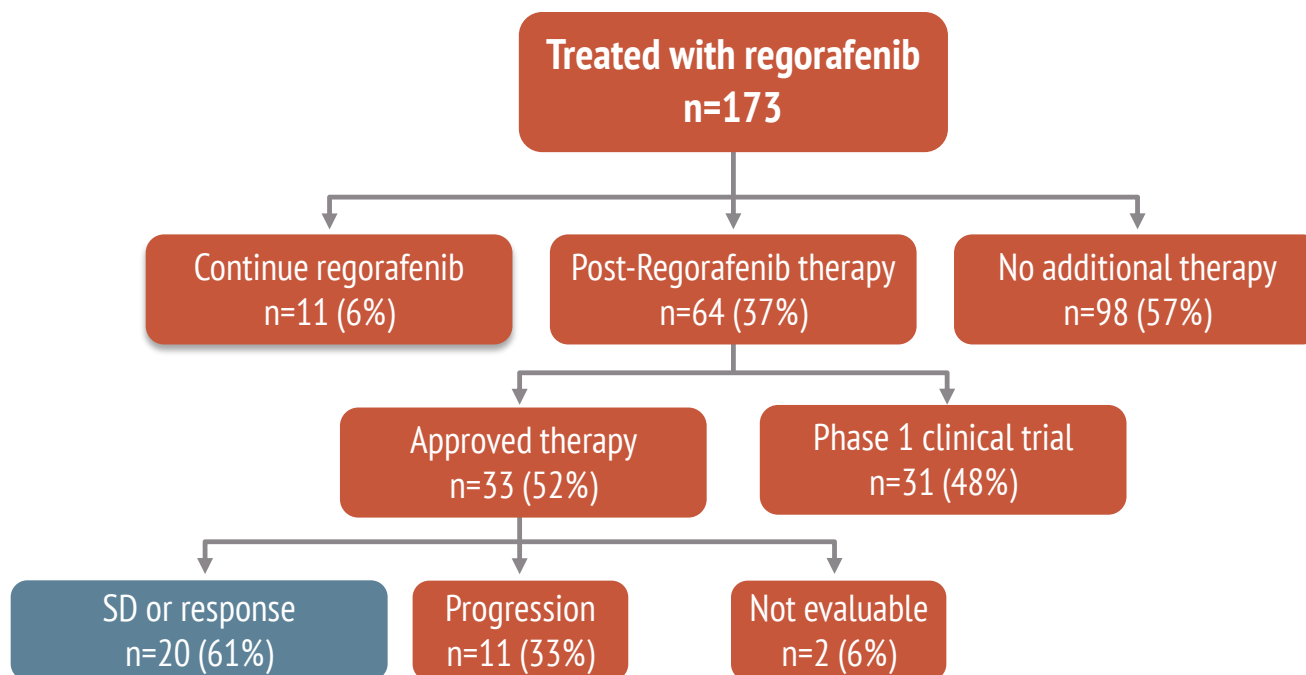
HAND-FOOT SKIN REACTION (HFSR) AND OUTCOMES IN THE USA SUBGROUP OF THE PHASE IIIB CONSIGN STUDY OF REGORAFENIB FOR METASTATIC COLORECTAL CANCER (mCRC)



Interim analysis of overall survival stratified by the presence of any grade of HFSR.

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RECHALLENGING WITH STANDARD TREATMENT OPTIONS AFTER REGORAFENIB MAY BE BENEFICIAL IN SELECT PATIENTS WITH mCRC



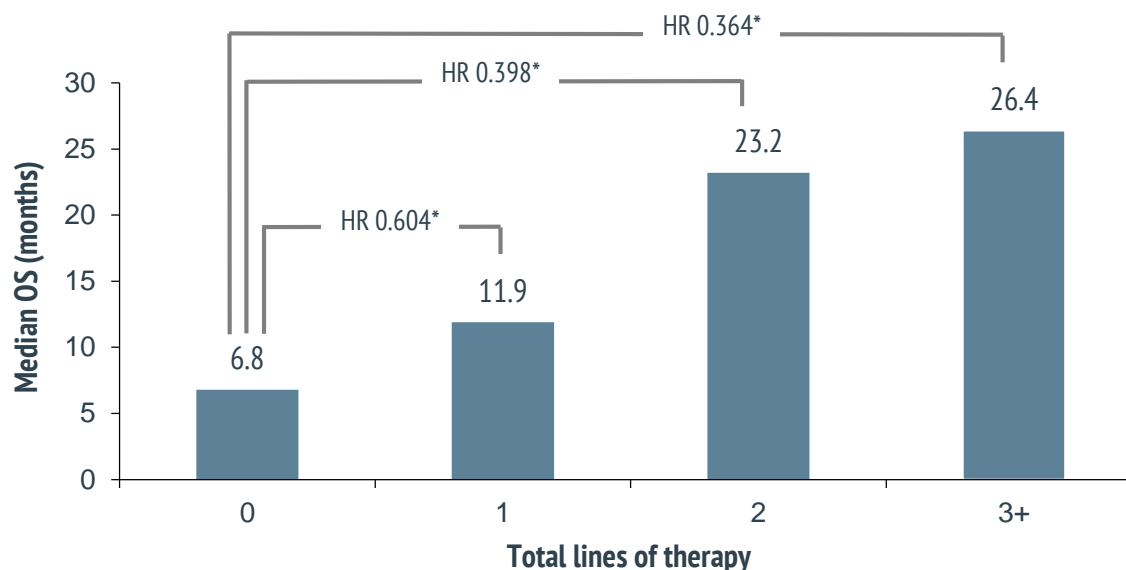
The views presented do not reflect the Experts' own opinions but are intended to represent opposing perspectives on the topic of discussion.

STANDARD LINES OF SYSTEMIC TREATMENT



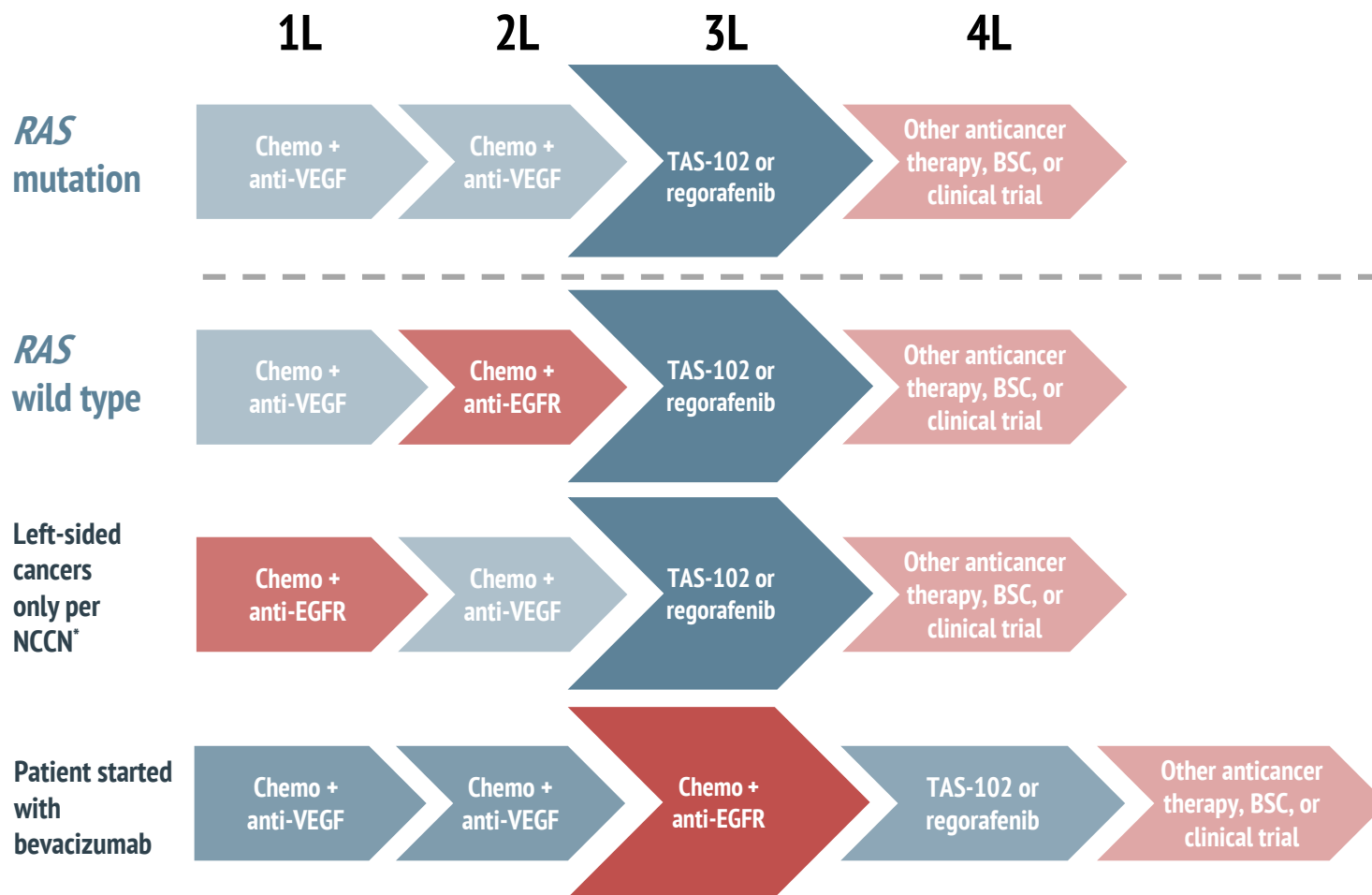
Different agents are given sequentially and switched because of disease progression, unacceptable toxicity, or patient choice

Evidence from the **SEER database** suggests survival increases in patients who are exposed to multiple treatment options



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NCCN AND ESMO GUIDELINE RECOMMENDATIONS 3RD-LINE CRC:



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BSC, best supportive care; CRC, colorectal cancer; EGFR, epidermal growth factor receptor; ESMO, European Society for Medical Oncology; NCCN, National Comprehensive Cancer Network; RAS, rat sarcoma; VEGF, vascular endothelial growth factor

*Only patients whose tumours originated on the left side of the colon should be offered EGFR inhibitors in the first line. Patients with RAS wild-type tumours can be considered for cetuximab or panitumumab in subsequent lines if neither was previously given.

Adapted from NCCN Clinical Practice Guidelines in Oncology. Colon Cancer. V4.2018; NCCN Clinical Practice Guidelines in Oncology. Rectal Cancer. V3.2018

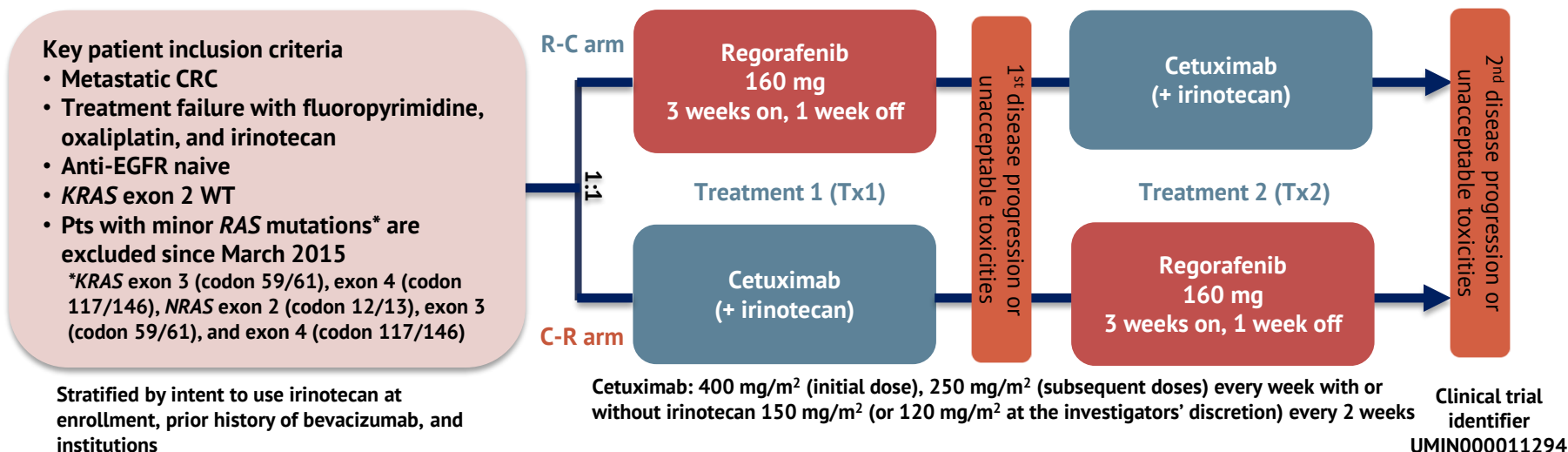
NCCN GUIDELINES EXCLUDE THE OPTION OF RECHALLENGING WITH ANTI-EGFR ANTIBODIES

The NCCN guidelines: EGFR inhibitors are only recommended **if they have not been given previously**



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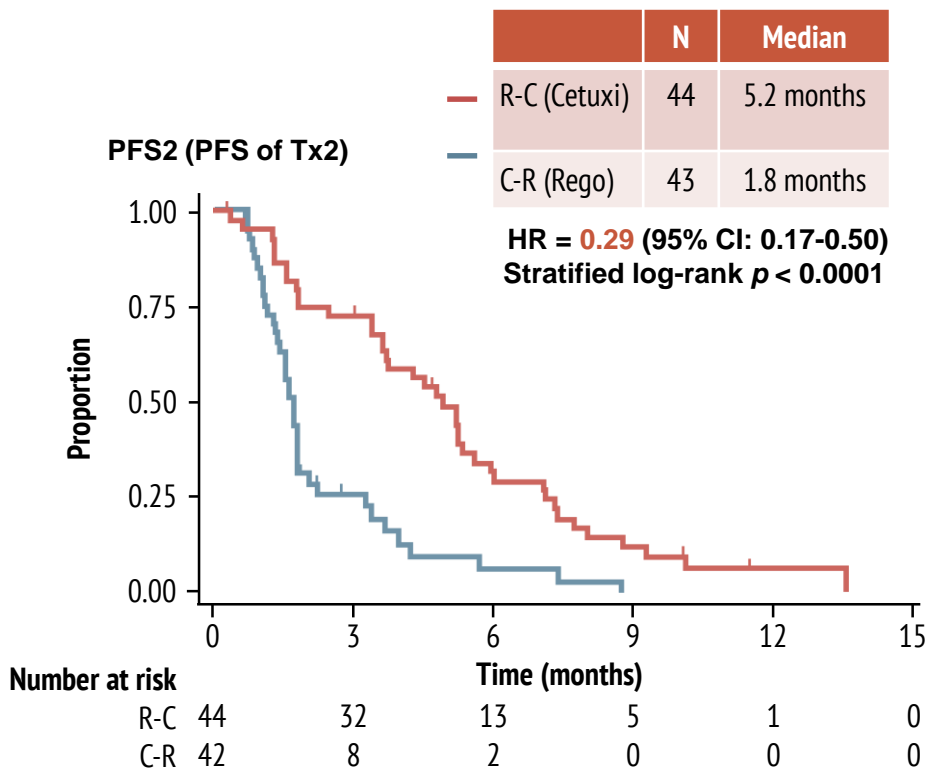
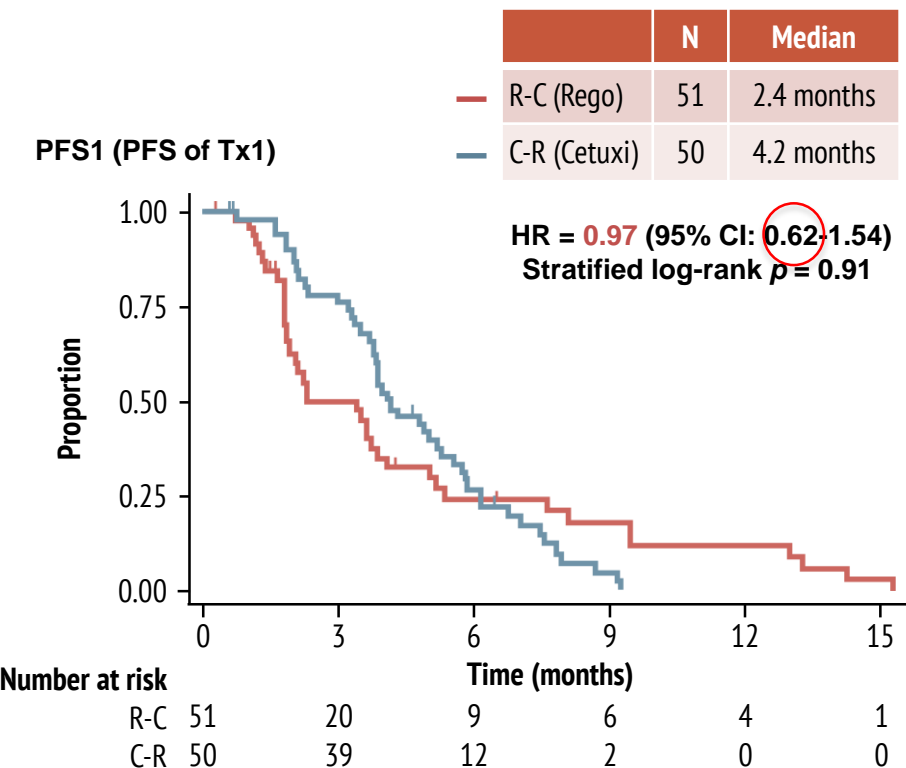
REVERCE TRIAL: CETUXI>REGO VS. REGO>CETUXI



- Primary endpoint was OS
- Secondary endpoints included PFS1, PFS2, safety, and QOL

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REVERCE TRIAL: CETUXI>REGO VS. REGO>CETUXI

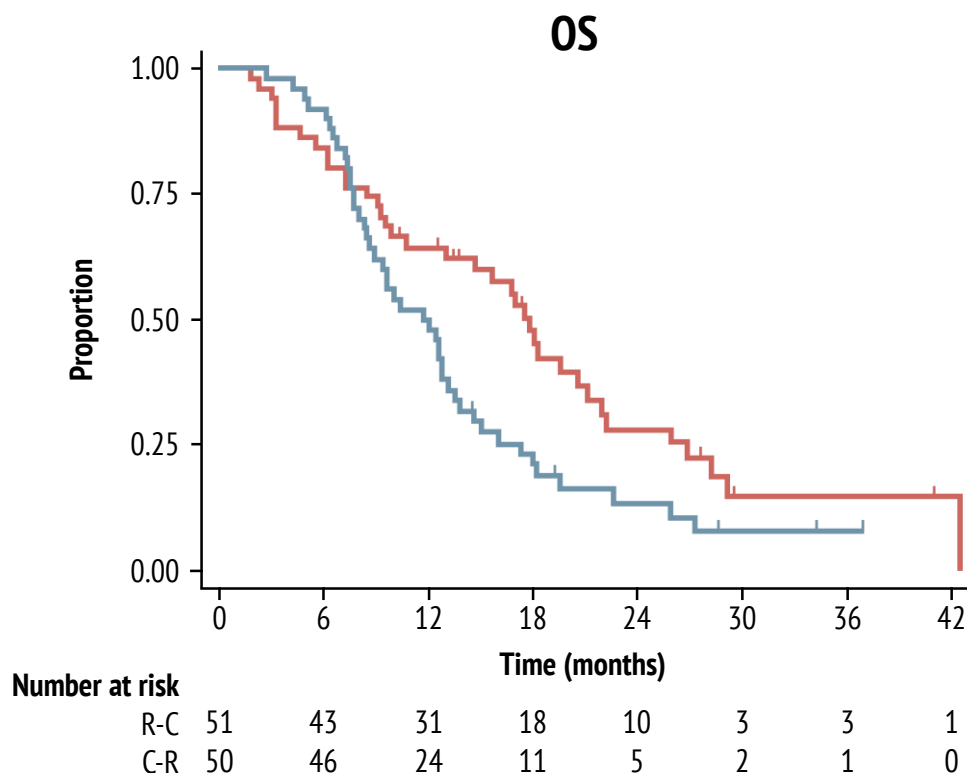


The views presented do not reflect the Experts' own opinions but are intended to represent opposing perspectives on the topic of discussion.

C, cetuximab; Cetuxi, cetuximab; CI, confidence interval; HR, hazard ratio; PFS, progression-free survival; PFS1, PFS on first treatment; PFS2, PFS on second treatment; R, regorafenib; Rego, regorafenib; Tx, treatment

Shitara K, et al. Presented at ASCO 2018, abstract 557

REVERCE TRIAL: REGO>CETUXI PROVIDED SUPERIOR OS VS. CETUXI>REGO



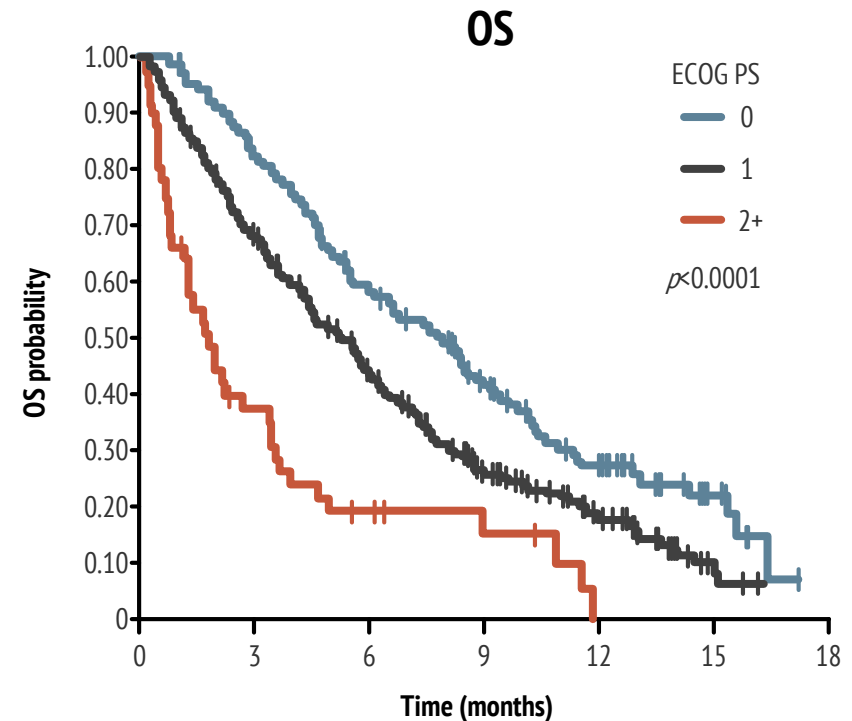
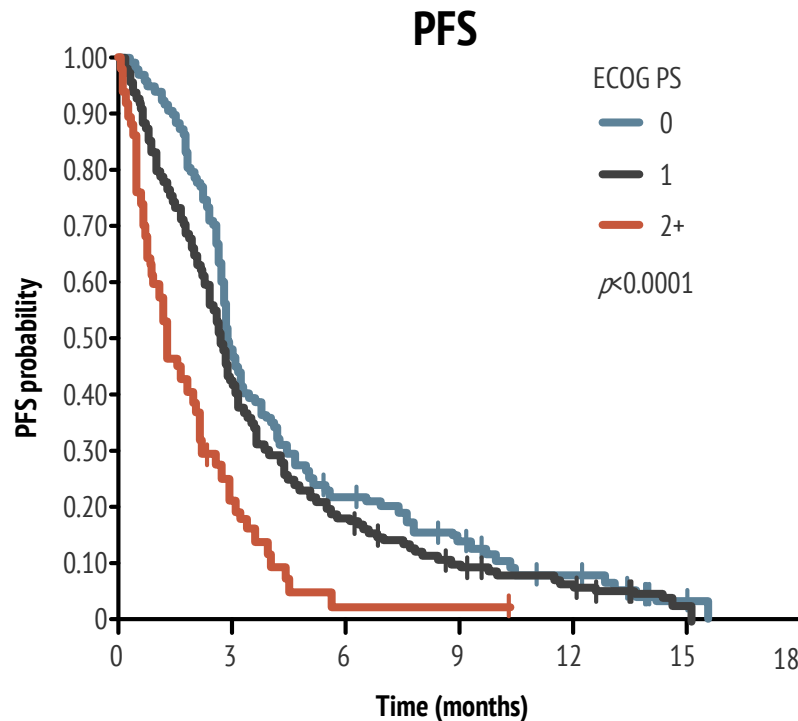
	N	Median
R-C	51	17.4 months
C-R	50	11.6 months

HR = **0.61** (95%CI: 0.39-0.96)
Stratified log rank $p = 0.029$
Median follow-up: 29.0 months

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WHO IS THE RIGHT CANDIDATE FOR REGORAFENIB?

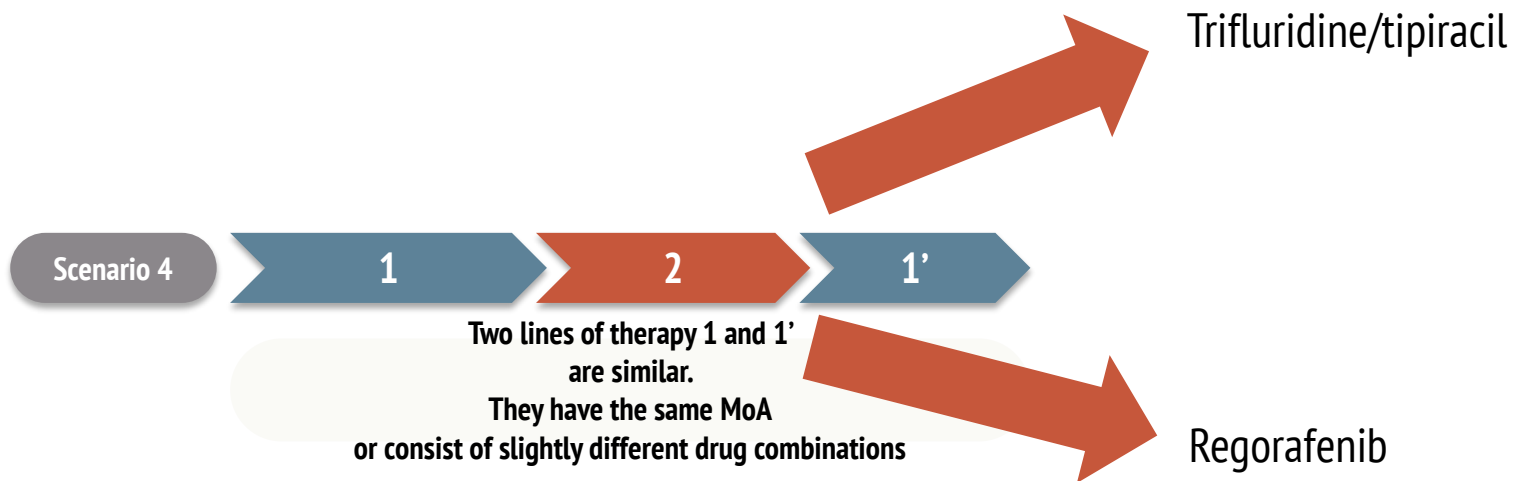
REBECCA COHORT STUDY: GOOD ECOG PS IS ASSOCIATED WITH INCREASED CLINICAL BENEFIT OF REGORAFENIB



Patients with ECOG PS ≥ 2 had a worse prognosis than those with ECOG PS 0-1

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WHAT IS THE BEST 3RD-LINE OPTION?



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COMPARISON PHASE III REGORAFENIB, TAS-102

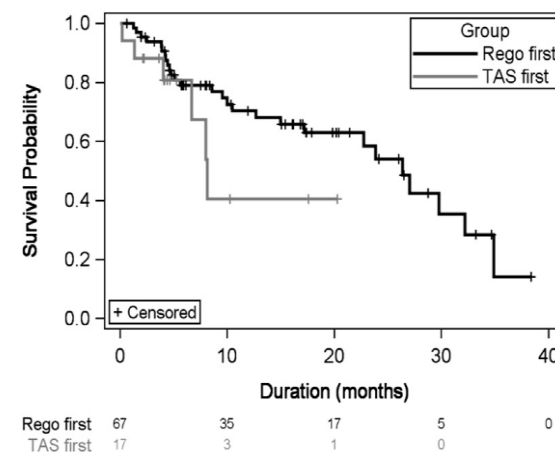
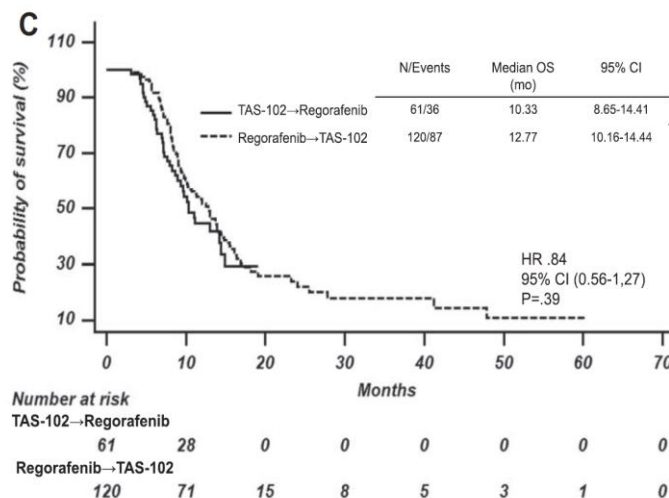
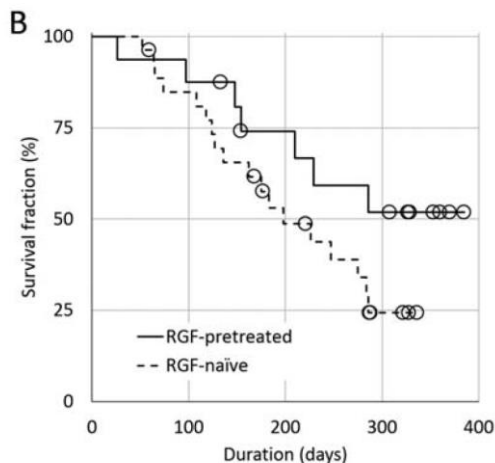
	Regorafenib				TAS-102			
Study	CORRECT		CONCUR		RECOURSE		TERRA	
Prior biologics	100% BEV 100% EGFR mAbs		59%		100% BEV 52% EGFR mAbs		19% BEV 17% EGFR mAbs	
	Rego	BSC	Rego	BSC	TAS-102	BSC	TAS-102	BSC
N pts	505	255	136	68	534	266	271	135
Median OS (mos)	6.4	5.0	8.8	6.3	7.1	5.3	7.8	7.1
	HR 0.77 p=0.0052		HR 0.55 p=0.0002		HR 0.68 p<0.001		HR 0.79 P = .035	
Median PFS (mos)	1.9	1.7	3.2	1.7	2.0	1.7	2.0	1.8
	HR 0.49 p<0.0001		HR 0.31 p<0.0001		HR 0.48 p<0.001		HR 0.43 P <.001	
RR (%)	1.0	0.4	4.4	0	1.6	0.4	1.1	0
Main AEs	HFSR Fatigue				Neutropenia Diarrhea			

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AE; adverse event; BEV, bevacizumab; BSC, best supportive care; CI, confidence interval; EGFR, epidermal growth factor receptor; HFSR, hand-foot skin reaction; HR, hazard ratio; mAb, monoclonal antibody; OS, overall survival; PFS, progression-free survival; Rego, regorafenib; RR, response rate

Grothey A, et al. Lancet 2013;381:303-12; Li J, et al. Lancet Oncol 2015;16:619-29; Mayer RJ, et al. NEJM 2015;372:1909-19; Xu, J et al. J Clin Oncol 2018;36:350-58

IS THERE A PREFERABLE SEQUENCE?

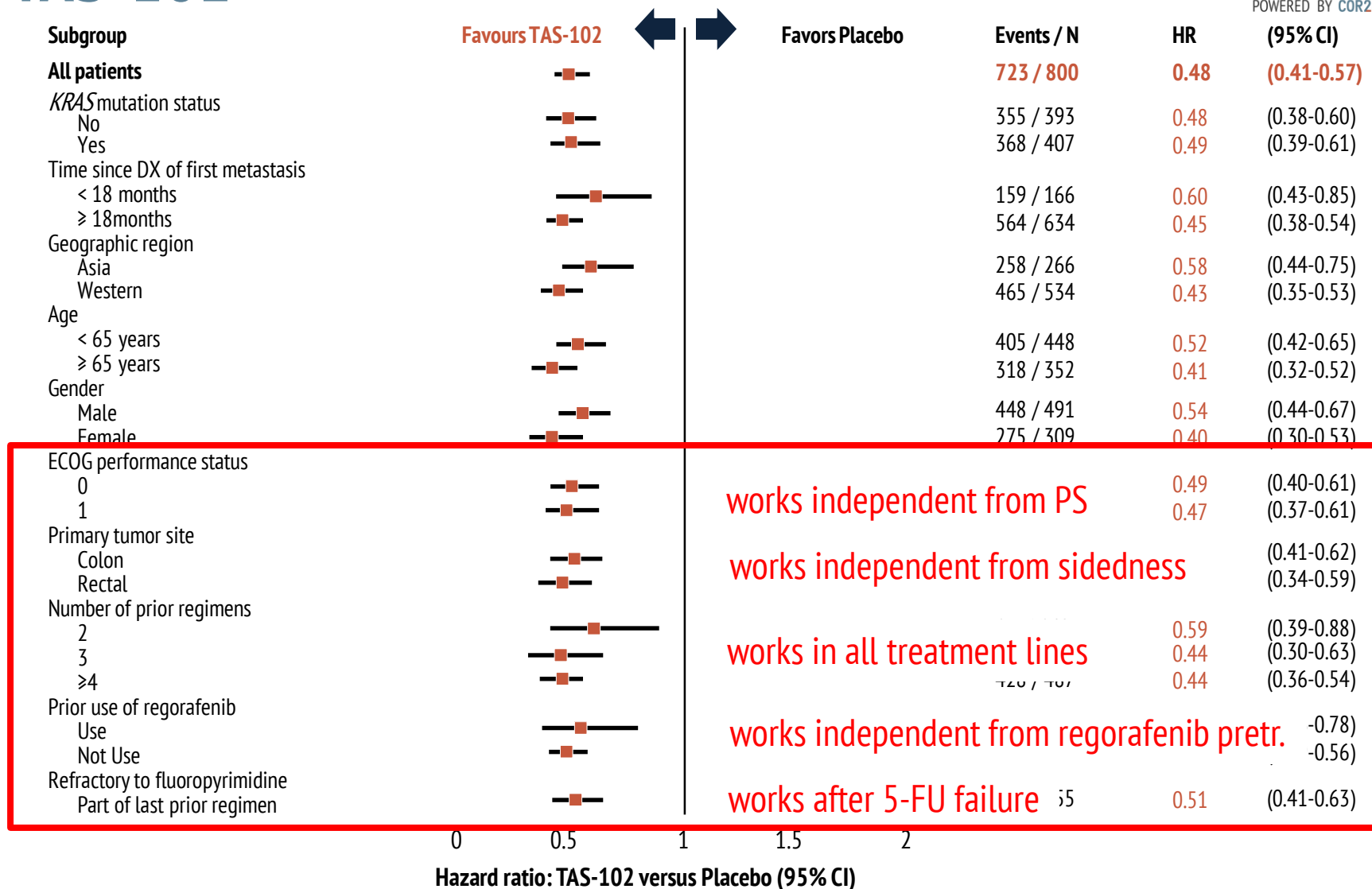


OS after TAS-102 treatment of regorafenib-pretreated and regorafenib-naïve patients (n=43)

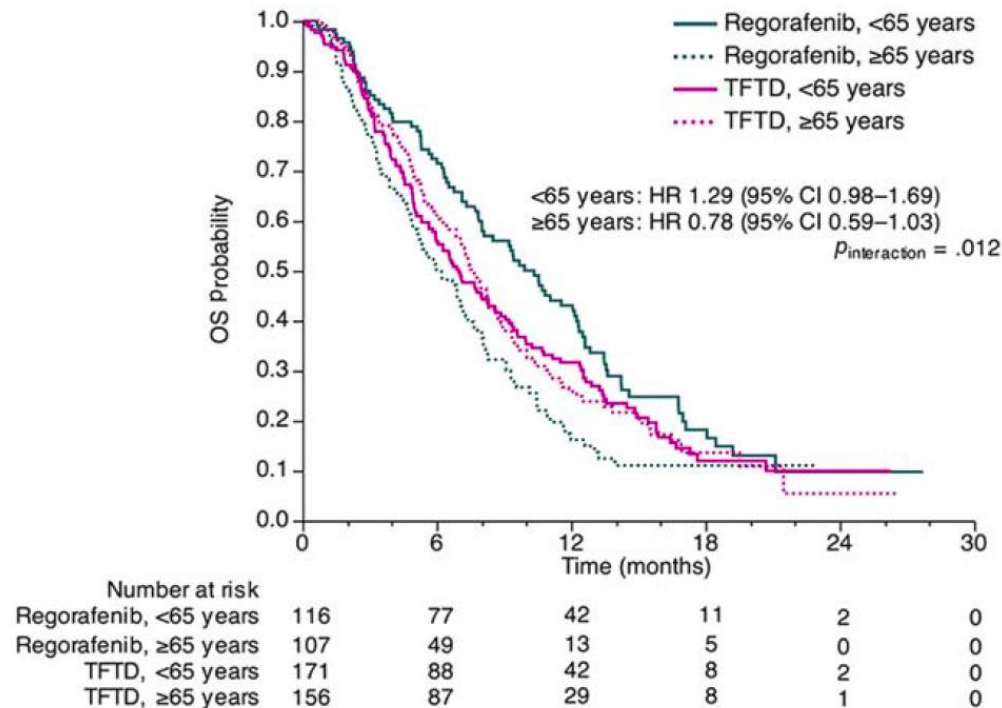
OS in patients who received TAS-102 followed by regorafenib or the reverse sequence

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RECOURSE: PFS SUBGROUP ANALYSES OF TAS-102



PROPENSITY SCORE ANALYSIS: REGORAFENIB IS FAVORED IN PATIENTS <65 YEARS, WHILE TFTD IS FAVORED IN PATIENTS ≥65 YEARS

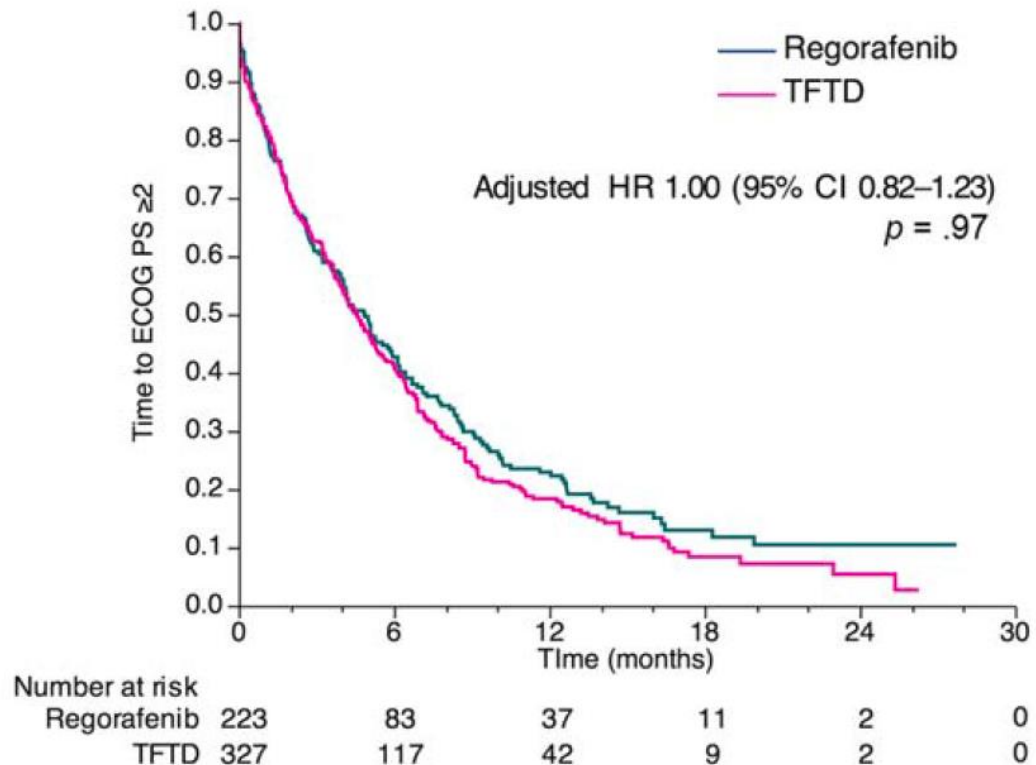


Kaplan-Meier curves for OS according to age <65 years and ≥65 years

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TIME TO DETERIORATION OF PERFORMANCE STATUS (ECOG PS 2+)

No earlier deterioration of performance status upon different toxicity profiles



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SUMMARY TO USE REGORAFENIB IN THE 3RD LINE

Patients should be exposed to **as many active agents as possible**;¹ delaying treatment with regorafenib risks patient deterioration and missing the opportunity to receive this option

Regorafenib has a **high level of evidence for use in the 3rd line**,^{2,3} and is guideline recommended

Regorafenib should be used **before deterioration of performance status**⁴

Patients may still receive **chemotherapy after regorafenib**⁵

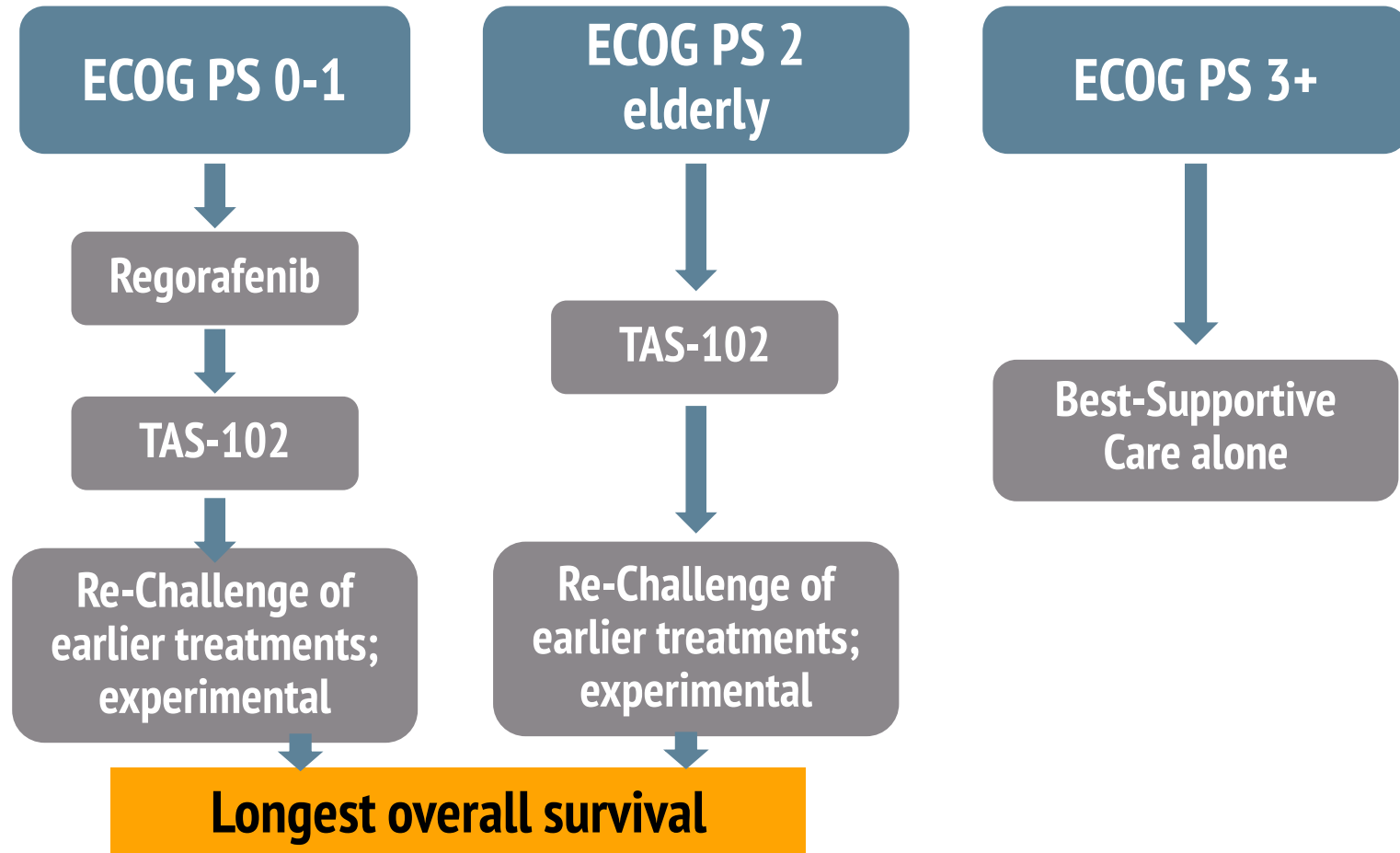
Regorafenib appears to provide **most benefit** in patients who have received **less previous treatment lines**³

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1. Hanna N, et al. J Clin Oncol 2014;32(Suppl 3): abstract 559; 2. Grothey A, et al. Lancet 2013;381:303–12;
3. Li J, et al. Lancet Oncol 2015;16:619–29; 4. Tougeron D, et al. Presented at ESMO 2014, poster 6220;
5. Kidd MT, et al. Presented at ASCO-GI 2015, abstract 678

3RD LINE TREATMENT IN mCRC:

AFTER FAILURE OF FLUOROPYRIMIDINE, OXALIPLATIN, IRINOTECAN, ANTI-VEGF AND ANTI-EGFR THERAPY (IF RAS WT)



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SUMMARY

Experience from CCC-Vienna, Austria

Regorafenib as well as trifluridine/tipiracil are effective drugs with manageable toxicity

Most common side effects differ substantially, but QOL is maintained

More lines of treatment are beneficial and improve the prognosis

Regorafenib should be given earlier, while trifluridine/tipiracil seems to be beneficial in all lines

The younger and fit patient seems to be preferable for regorafenib

Flexible dosing of regorafenib seems to be feasible

Experimental treatment concepts according to the molecular profile or re-challenging of earlier lines are subject of clinical trials or should **ONLY** be applied if **NO STANDARD** treatment options are available.

SUMMARY OF THE ARGUMENTS PRESENTED

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DISCLAIMER

Please note:

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Disclosures:

- Dr. Heinz-Josef Lenz has received financial support/sponsorship for research support, consultation or speaker fees from the following companies: Bayer, Boehringer Ingelheim, BMS, Merck Serono

SUMMARY FOR TREATMENT SEQUENCING & FLEXIBLE DOSING



Experience from CCC-Vienna, Austria

Regorafenib as well as trifluridine/tipiracil are effective drugs with manageable toxicity

Most common side effects differ substantially, but QOL is maintained

More lines of treatment are beneficial and improve the prognosis

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The younger and fit patient seems to be preferable for regorafenib

Flexible dosing of regorafenib seems to be feasible

Experimental treatment concepts according to the molecular profile or re-challenging of earlier lines are subject of clinical trials or should **ONLY** be applied if **NO STANDARD** treatment options are available.

SUMMARY AGAINST TREATMENT SEQUENCING & FOR FLEXIBLE DOSING



- Sequencing does not apply to the later line setting
- Pre-treated patients with MSI-high mCRC should receive checkpoint inhibitors
- Regorafenib may be a preferred choice for patients <65-70 years old, with good general conditions and no liver impairment
- When choosing regorafenib, available evidence strongly suggest to be “open-minded” about flexible dosing
- In the case of availability of ctDNA assessment and RAS wt ctDNA, even in the absence of phase III evidence, anti-EGFR rechallenge may be a good, more tailored option

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