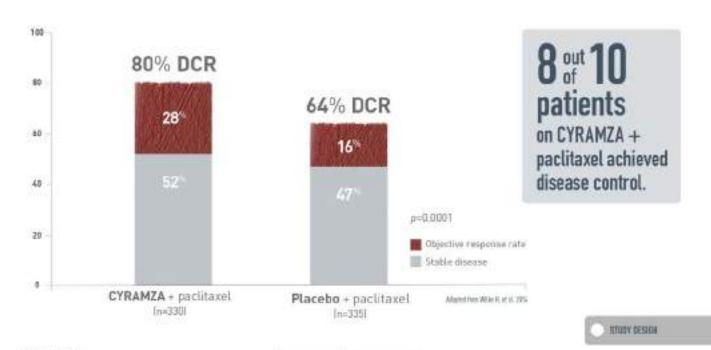




RAINBOW Study: Control of the Disease1





RAINBOW Study: Control of the Disease'



RAINBOW Study Design¹

Multicentre, randomized, double-blind trial of 665 locally advanced or metastatic gastric or GEJ adenocarcinoma patients (ECOG PS 0/1) previously treated with fluoropyrimidine- and platinum-containing chematherapy who progressed s6 months of the last dose.* Patients were randomized 1:1 to CYRAMZA 8 mg/kg every 2 weeks + paclitaxel 80 mg/m2 (n=330) or placebo + paclitaxel 80 mg/m2 (n=335).** Primary endpoint was OS; secondary endpoints were PFS, ORR and QoL.

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CYRAMZA + partitional

Placebo + paclitaxel

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^{*} TIA of patients continues in the study record prior platformilly angular to contribute transport testing without nothing close. TIA recovery platformilly angular to contribute transport to the study contribut

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RAINBOW Study: Control of the Disease'





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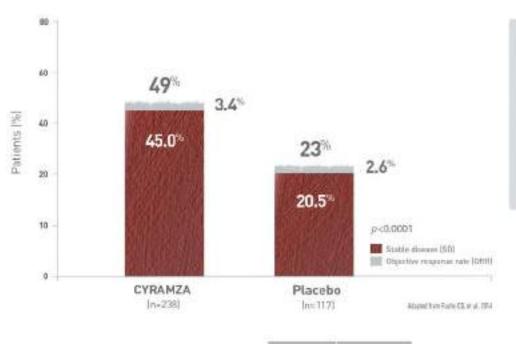
1. Wilke H. et al. Ramucirumab plus pactitaxel versus placebo plus pactitaxel in patients with previously treated advanced. gastric or gastre-sesophageal junction adenocarcinoma (RAINBOW): a double-blind, randomised phase 3 trial. Lancet Encol 2014;15:1224-1235.







REGARD Study: Control of the Disease1



More than double the Disease Control Rate in patients receiving CYRAMZA

HOUSE VENUE



REGARD Study: Control of the Disease'



REGARD Study Design'

Multinational, randomized, double-blind, placebe-controlled study in 355 patients [ECOS PS 0-1] with locally recurrent and unresectable or metastatic gastric cancer [including GEJ adenocarcinoma] following platinum- or fluoropyrimidine-containing chemotherapy. Disease progression must have occurred \$4 months from the last dose 1°-line chemotherapy or \$6 months from the last dose of adjuvant therapy. Patients were randomized 2:1° to CYRAMZA 8 mg/kg every 2 weeks [n=238] + BSC or placebo every 2 weeks + BSC (n=117]. The primary endpoint was overall survival.





^{* (}bublication or their geographic region, be after of the primary between and weight tree (\$40% or, < 40%).

Thingste-14 days.

ESC-best augustive care, ESI-speciments/baged Janutice, FORG-Carine a Couperative On along-Servey, PS-speciments status.



REGARD Study: Control of the Disease1



More than



Reference:

 Fuchs C5, et al. Ramucinumab monotherapy for previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (REGARD): an international, randomised, multicentre, placebo-controlled, phase 3 trial. Lancet 2014;383(9911):31–39.



Combination

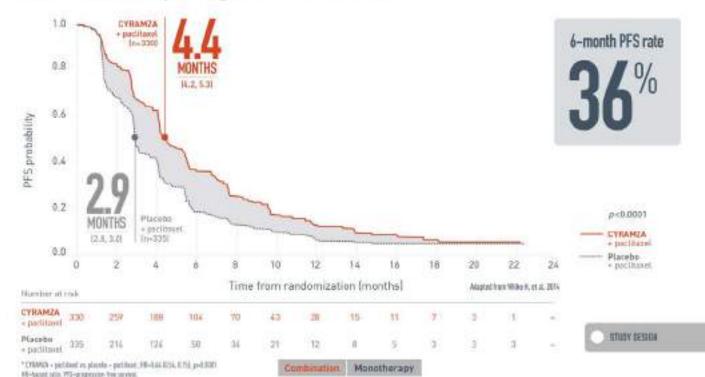
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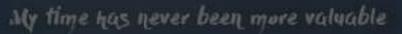




RAINBOW Study: Progression-free Survival¹









RAINBOW Study: Progression-free Survival1





4-month PFS rate



Reference:

 Wilke H, et al. Remucirumab plus pectitaxel versus placebo plus pectitaxel in patients with previously treated advanced gastric or gastre-pesophageal junction adenocarcinoma [RAINBOW]: a double-blind, randomised phase 3 trial. Lancet Oncol 2014;15:1224–1235.

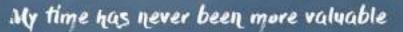
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Combination

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REGARD Study: Progression-free Survival¹







REGARD Study: Progression-free Survival1



2.1

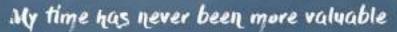
PFS rate 12 weeks

Reference:

 Fuchs CS, et al. Ramucirumab monotherapy for previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (REGARD): an international, randomised, multicentre, placebo-controlled, phase 3 trial. Lancet 2014;383(9911):31–39.

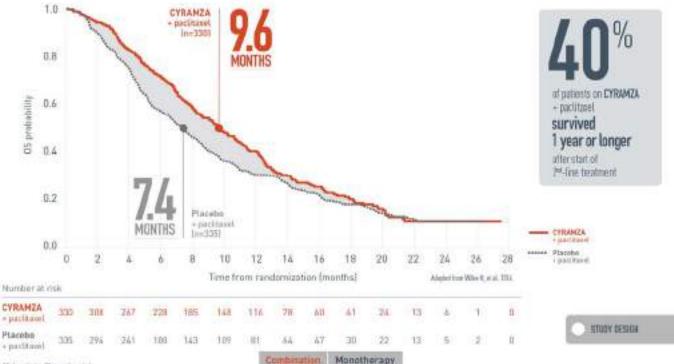








RAINBOW Study: Significant Improvement in Overall Survival¹





RAINBOW Study: Significant Improvement in Overall Survival¹



9.6



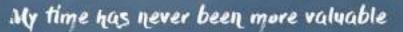


Reference:

 Wilke H, et al. Remucirumab plus pectitaxel versus placebo plus pectitaxel in patients with previously treated advanced gastric or gastre-pesophageal junction adenocarcinoma [RAINBOW]: a double-blind, randomised phase 3 trial. Lancet Oncol 2014;15:1224–1235.

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								Mining				







REGARD Study: Overall Survival1



37% relative increase in median 0S*

HR (95% CII=0.77& I0.603, 0.998); p=0.047

---- CYRAMZA

STUDY DESIGN

*CRMS is political IR-63% (Edit 8 RE p-6 NZ 21-contains stand; HR-64xx1 site: 25-cm at server

Combination

Monotherapy



REGARD Study: Overall Survival1

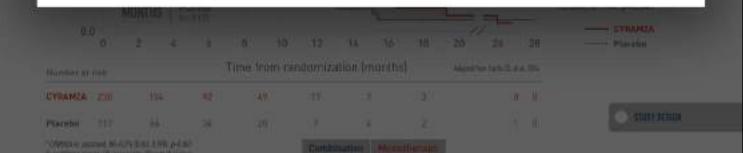






Reference:

 Fuchs C5, et al. Ramucirumab monotherapy for previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (REGARD): an international, randomised, multicentre, placebo-controlled, phase 3 trial. Lancet 2014;383(9911):31–39.







RAINBOW Study: Consistent Efficacy Across Age Groups



9.3 CYRAMZA + paclitaxel (n=204) VS. 7.1 Placebo + paclitaxel (n=212) months



10.7 CYRAMZA + paclitaxel (n=126) VS. 8.7 Placebo + paclitaxel (n=123)





RAINBOW Study: Consistent Efficacy Across Age Groups





Reference:

 Muro K, et al. Age does not influence efficacy of ramucirumab in advanced gastric cancer: subgroup analyses of REGARD and RAINBUW. J Gastroenterol Hepatol. 2018;33(4):814–824.

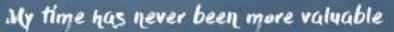


months

months





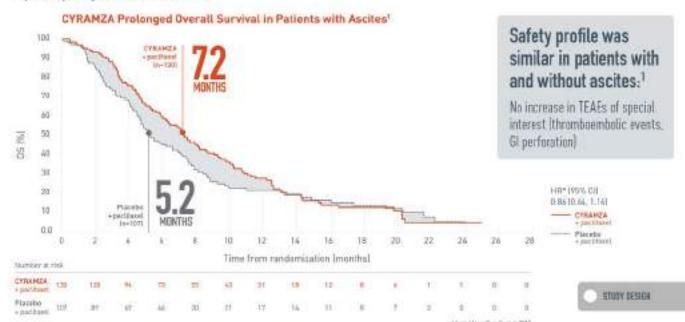


Shat Net analysis.



RAINBOW Study: Survival Benefit Maintained in Patients with Ascites

Presence of Ascites is a Poor Prognostic Factor in Gastric Cancer Patients, with Potentially Critical Complications! Exploratory Analyses from RAINBOW Trial







RAINBOW Study: Survival Benefit Maintained in Patients with Ascites

Presence of Ascites is a Poor Prognostic Factor in Gastric Cancer Patients, with Potentially Critical Complications! Exploratory Analyses from RAINEUW Trail*

CYBANZA Protenged Overall Survival in Patients with Ascites'.

Safety profile was



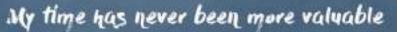
Reference:

 Muro K, et al. Is ramucirumab and paclitaxel therapy beneficial for second-line treatment of metastatic gastric or junctional adenocarcinoma for patients with ascites? Analysis of RANBOW phase 3 trial data. Cancer Manag Res 2019;11:2261-2267.

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Survival Benefit Seen with CYRAMZA Regardless of Prior Trastuzumab Use

OS, PFS and ORR Subgroup Analysis by Prior Trastuzumab Therapy, Unstratified Analysis - RAINBOW¹¹

Endpoint	Prior use of trastuzumab	CYRA	MZA + paclitaxel In=338	Place	bo + paditasel In=325)	
		n	Median	9	Median	HR
05	Yes	20	11,4	19	7.0	0.679
	No	310	9.6	316	7.4	0.835
PF5	Yes	20	4.2	19	2.7	0,399
	No	310	6.A	316	2.9	0.657
		-0:	Incidence of	30	Incidence of events	
ORR'	Yes	20	45%	19	10.5%	- 5
	No	310	26.8%	316	16.5%	4
DCR+	Yes	20	80%	19	57,9%	~
	No	310	80%	316	63.9%	- 5

Consistent efficacy was observed regardless of HER status

- HERZ+ patients receiving CYRAMZA 2rd-line appear to respond well - and for longer³



Prior use of transutumato
 No prior use of transucumato

^{*}HERCERC or HOR hading was not ministery in the SWREEV promote, so there is no inferred on or the united HERC state; in this patient, population.

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D-contitions among 1931-disease contribute 998-based ratio 5991-wear larger outs \$5-wear served. PRS-proprysion has served.





Survival Benefit Seen with CYRAMZA Regardless of Prior Trastuzumab Use

OS, PFS and ORR Subgroup Analysis by Prior Trastuzumab Therapy, Unstratified Analysis - RAINBOW*

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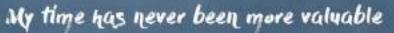
- European Medicines Agency. CHMP assessment report; CYRAMZA. September 25, 2014.
- 2. Tehfe M, et al. Ramucirumab in HER-2-positive gastroesophageal adenocarcinoma; an argument for overcoming trastuzumab resistance. Future Oncol 2018;14(3):223-228.

Country	An,	310	21.8%	114	1659	-
DORS	200	201			57.9%	
	200	310		706);	63.9%	Program di regionamento Ne prime dan el transacionado



ent efficacy was







Efficacy in patients receiving CYRAMZA + paclitaxel vs. placebo + paclitaxel in the RAINBOW study

Efficacy parameter	CYRAMZA • paclitaxel	Placebo + paclitaxel	HR ρ-value	Delta
Response rate	28%	16%	ρ=0.0001	+12%
Disease control rate	88%	64%	p<0.0001	+16%
PFS [median, months]	4.40	2.86	HR=0.635 p<0.0001	×1.5 months
PPS rate at 6 months	36% 22%	1.7% 10%	N/A N/A	+19% +10%
0S (median, months)	9.63	7.36	HR=0.807 ρ=0.0169	+2.3 months
OS rate at 6 months OS rate at 12 months	72% 40%	57% 30%	N/A N/A	=15% +10%











Efficacy in patients receiving CYRAMZA + paclitaxel vs. placebo + paclitaxel in the RAINBOW study

Efficacy	CYRAMZA			Dolta
parameter	+ paciitane)	- paclitaxel	p-value	MONTH



Reference:

 Wilke H, et al. Ramucirumab plus paclitaxel versus placebo plus paclitaxel in patients with previously treated advanced gastric or gastre-oesophageal junction adenocarcinoma [RAINBOW]: a double-blind, randomised phase 3 trial. Lancet Oncol. 2014;15:1224–1235.

OS (metian, months)			##3-0.007 p=0.0167	47.3 months
	72% 48%	57% 10%	N/A N/A	+157% +10%







Efficacy in patients receiving CYRAMZA vs. placebo in the REGARD study 1

Efficacy parameter	CYRAMZA + BSC	Placebo + BSC	HR p-value	Delta
Objective response rate	3%	3%	p=0.76	0%
Disease control rate	49%	23%	p<0.0001	+26%
PFS (median, months)	21	1.3	HR=0.483 p<0.0001	+0.8 months
OS [median, months]	5.2	3.8	HR=0.776 p=0.047	+1.4 months







Efficacy in patients receiving CYRAMZA vs. placebo in the REGARD study 1

purameter + 85C + BSC p-value		CYRAMZA - BSC	Placebo + BSC		Dolta
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Reference:

 Fuchs CS, et al. Ramucirumab monotherapy for previously treated advanced gastric or gastro-resophageal junction adenocarcinoma [REGARD]: an international, randomised, multicentre, placebo-controlled, phase 3 trial. Lancet 2014;363(99)11:31–39.









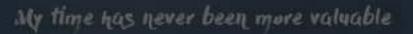
CYRAMZA Efficacy in a Multi-Institutional Real-World Setting Is Similar to RAINBOW

25 Italian Oncology Centres: Observational, Retrospective Study in Metastatic Gastric Cancer Patients Who Received CYRAMZA for Compassionate Use (RAMoss)¹

Outcome	RAINBOW ² (CYRAMZA paclitaxel)	RAINBOW ³ (Western subgroup)	RAMoss ¹ (CYRAMZA paclitaxel)
Median OS (months)	9.6	8.6	8.3
Median PFS (months)	4.4	4.2	4.5
ORR (%)	28	26.8	20.2
DCR [%]	80	76.8	59.4

Survival benefit in real-world setting is consistent with the RAINBOW study in a clinical setting.13





CYRAMZA Efficacy in a Multi-Institutional Real-World Setting Is Similar to RAINBOW

25 Italian Oncology Centres: Observational, Ratrospective Study in Metastatic



References:

- Di Bartolomeo M, et al. Ramucirumab as second-line therapy in metastatic gastric cancer: real-world data from the RAMoss study. Targeted Oncol 2018;ePub. https://doi.org/10.1007/s11523-018-0562-5.
- Wilke H, et al. Ramucirumab plus paclitaxel versus placebo plus paclitaxel in patients with previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (RAINBOW): a double-blind, randomised phase 3 trial. Lancet Oncol 2014;15;1224–1235.
- Shitara K, et al. Subgroup analyses of the safety and efficacy of ramucirumab in Japanese and Western patients in RAINBOW: a randomized clinical trial in second-line treatment of gastric cancer. Gastric Cancer 2016;19:927–938.

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