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MEETING SUMMARY

ASCO 2020, VIRTUAL MEETING

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HIGHLIGHTS FROM GI CONNECT

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**PEMBROLIZUMAB VERSUS
CHEMOTHERAPY FOR
MICROSATELLITE INSTABILITY-
HIGH/MISMATCH REPAIR DEFICIENT
METASTATIC COLORECTAL CANCER:
THE PHASE 3 KEYNOTE-177 STUDY**

Andre T, et al.

ASCO 2020. Abstract #LBA4. Oral presentation

Introduction

A subset of CRC are characterised by dMMR → resulting in MSI

CRCs with MSI-H → high levels of lymphocyte infiltrates

→ high expression of PD-1 and PD-L1¹



KEYNOTE-016 study (Phase 2)

Pembrolizumab (anti-PD-1 antibody) showed **ORR of 40% in patients with progressive dMMR mCRC** vs 0% in patients with MMR-proficient mCRC²



KEYNOTE-177 (Phase 3)

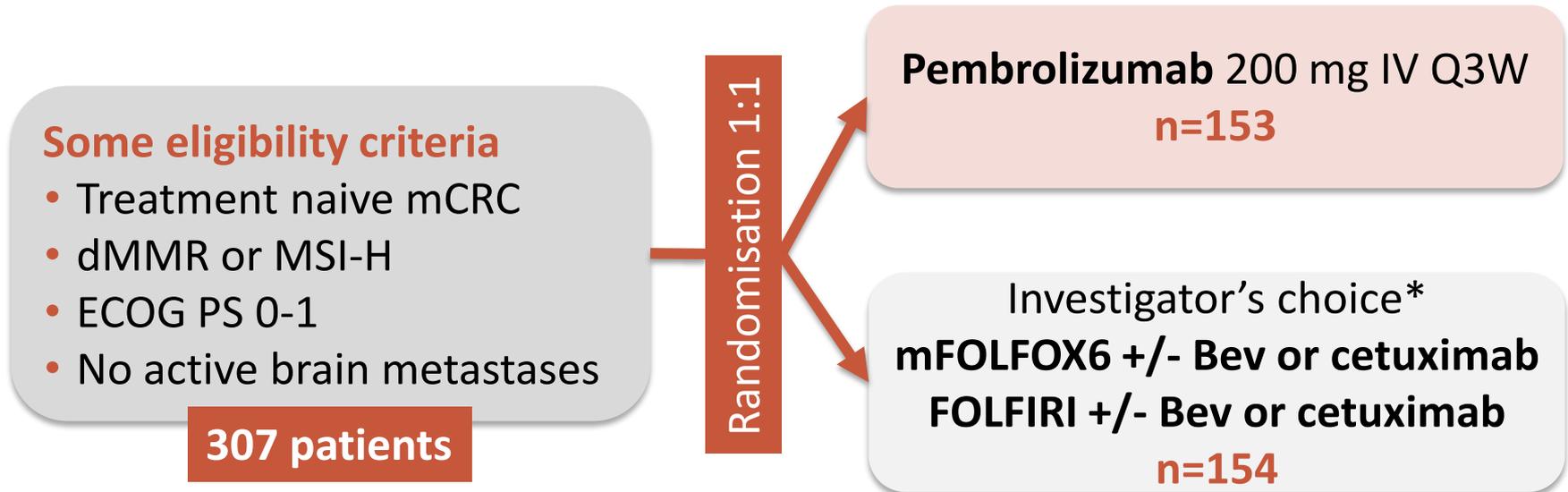
Designed to evaluate the efficacy and safety of pembrolizumab vs standard-of-care chemotherapy as first-line therapy for dMMR or MSI-H mCRC

CRC, colorectal cancer; dMMR, mismatch repair deficiency; mCRC, metastatic colorectal cancer; MSI, microsatellite instability; MSI-H, microsatellite instability-high; ORR, overall response rate; PD-1, programmed death-1; PD-L1, programmed death ligand-1

1. Llosa NJ, et al. Cancer Discov 2015;5:43-51

2. Le DT, et al. N Engl J Med 2015;372(26):2509-20

KEYNOTE-177 (NCT02563002): 2-arm, randomised, open-label, phase 3 study



Treatment Duration: until PD, unacceptable toxicity, patient/investigator decision to withdraw, or completion of 35 cycles (pembrolizumab only)

Primary endpoints: PFS (RECIST v1.1, central review) and OS
Secondary endpoints: ORR (RECIST v1.1, central review) and safety

* Patients with progressive disease have the option of receiving pembrolizumab 200 mg IV q3wk

Bev, bevacizumab; ECOG PS, Eastern Cooperative Oncology Group performance status; dMMR, mismatch repair deficiency; FOLFIRI, leucovorin + irinotecan + 5-fluorouracil; IV, intravenously; mFOLFOX6, modified oxaliplatin + leucovorin + 5-fluorouracil; MSI-H, microsatellite instability-high; ORR, overall response rate; OS, overall survival; PD, disease progression; PFS, progression-free survival; Q3W, every 3 weeks; RECIST, Response evaluation criteria in solid tumours

RESULTS

Data cut-off date: Feb 19, 2020

Primary endpoint	Pembro	Chemo
Median PFS (months)	16.5	8.2
HR (95% CI)	0.60 (0.45-0.80)	
P-value	0.0002	
12-months PFS rates	55.3%	37.3%
24-months PFS rates	48.3%	18.6%

Secondary endpoints	Pembro	Chemo
ORR	43.8%	33.1%
Median DoR (months)	NR	10.6
Grade 3-5 TRAE rates	22%	66%*

* One patient in the chemo arm died due to a treatment-related AE.

CI, confidence interval; chemo, chemotherapy; DoR, duration of response; HR, hazard ratio; ORR; overall response rate; pembro, pembrolizumab; PFS; progression-free survival; TRAE, treatment-related adverse event

PEMBROLIZUMAB = THE NEW STANDARD OF CARE IN 1-L FOR mCRC PATIENTS WITH dMMR OR MSI-H?

- Pembrolizumab provided a clinically meaningful and statistically significant improvement in PFS versus chemotherapy as first-line therapy for patients with MSI-H/dMMR mCRC, with fewer treatment-related AEs observed
- The study is ongoing in order to evaluate the OS

PEMBROLIZUMAB VERSUS PACLITAXEL FOR PREVIOUSLY TREATED PATIENTS WITH PD-L1– POSITIVE ADVANCED GASTRIC OR GASTROESOPHAGEAL JUNCTION CANCER (GC): UPDATE FROM THE PHASE III KEYNOTE-061 TRIAL

Fuchs CS, et al.

ASCO 2020. Abstract #4503. Oral presentation

- **Standard second-line therapy** for gastric/GEJ cancer:
 - **Combination therapy:** ramucirumab + paclitaxel
 - **Monotherapy:** docetaxel, paclitaxel or irinotecan

KEYNOTE-061 (NCT02370498) is a global phase 3 study of pembrolizumab vs paclitaxel as second-line therapy for gastric/GEJ cancer

Results (primary analysis: Oct 26, 2017)¹:

- In patients with CPS ≥ 1 :
 - **pembrolizumab did not significantly prolong OS** vs paclitaxel (9.1 vs 8.3 months)
 - **DoR: substantially longer with pembrolizumab** vs paclitaxel (18.0 vs 5.2 months)
- Longer-term results after additional 2 years of follow up are presented;
CPS ≥ 1 , CPS ≥ 5 and CPS ≥ 10 patient data are also assessed

RESULTS: EFFICACY BY CPS

Data cut-off date: Oct 7, 2019

	Pembro CPS ≥1 n=196	Paclitaxel CPS ≥1 n=199	Pembro CPS ≥5 n=95	Paclitaxel CPS ≥5 n=91	Pembro CPS ≥10 n=53	Paclitaxel CPS ≥10 n=55
OS, deaths, n (%)	176 (89.8)	190 (95.5)	84 (88.4)	86 (94.5)	44 (83.0)	51 (92.7)
OS, months, median (95% CI)	9.1 (6.2-10.7)	8.3 (7.6-9.0)	10.4 (6.7-15.5)	8.3 (6.8-9.4)	10.4 (5.9-18.3)	8.0 (5.1-9.9)
HR (95% CI)	0.81 (0.66-1.00)		0.72 (0.53-0.99)		0.69 (0.46-1.05)	
P value	0.03		0.02		0.04	
PFS, months, median (95% CI)	1.5 (1.4-2.0)	4.1 (3.2-4.3)	1.6 (1.4-2.8)	4.0 (2.8-4.4)	2.7 (1.4-4.3)	4.0 (2.7-4.4)
HR (95% CI)	1.25 (1.02-1.54)		0.98 (0.71-1.34)		0.79 (0.51-1.21)	
ORR, % (n)	16.3 (32)	13.6 (27)	20.0 (19)	14.3 (13)	24.5 (13)	9.1 (5)
DoR, months, (range)	19.1 (1.4+ to 47.1+)	5.2 (1.3+ to 16.8)	32.7 (4.1 to 47.1+)	4.8 (1.3+ to 15.3)	NR (4.1 to 47.1+)	6.9 (2.6 to 6.9)

CI, confidence interval; CPS, combined positive score; DoR, duration of response; HR, hazard ratio; ORR; overall response rate; OS, overall survival; NR, not reached; Pembro, pembrolizumab; PFS, progression-free survival

AS 2-L THERAPY, PEMBROLIZUMAB CAN BE BENEFICIAL FOR PD-L1-POSITIVE GC PATIENTS

- After 2 additional years of follow up: **pembrolizumab did not significantly improve OS and PFS** over paclitaxel (consistent with primary analysis)
- **Response rates were numerically higher and more durable** with pembrolizumab
- Treatment with pembrolizumab resulted in **fewer treatment-related AEs**

- With **increasing PD-L1 enrichment** among **GC patients**:
 - Second-line pembrolizumab **prolonged OS**
 - Pembrolizumab treatment **effect increased for ORR and DoR**

REGOMUNE: A PHASE II STUDY OF REGORAFENIB PLUS AVELUMAB IN SOLID TUMOURS—RESULTS OF THE NON-MSI-H METASTATIC COLORECTAL CANCER (mCRC) COHORT

Cousin S, et al.

ASCO 2020. Abstract #4019. Poster presentation

Regorafenib has anti-immunosuppressive property¹

Synergy between regorafenib and anti-PD-1/PD-L1 antibodies has been shown in pre-clinical models¹



Combination strategy studies initiated with regorafenib and anti-PD-1/PD-L1:

Studies	Phase	Location	Status
REGONIVO: regorafenib and nivolumab simultaneous combination therapy (NCT03406871)	1b	Japan	36% ORR CRC ² 44% ORR GC ²
REGOMUNE: a phase I/II study of regorafenib plus avelumab in solid tumours (NCT03475953)	1/2	France	Data on mCRC presented here
Regorafenib and pembrolizumab in treating participants with advanced or metastatic colorectal cancer (NCT03657641)	1/2	USA	Ongoing

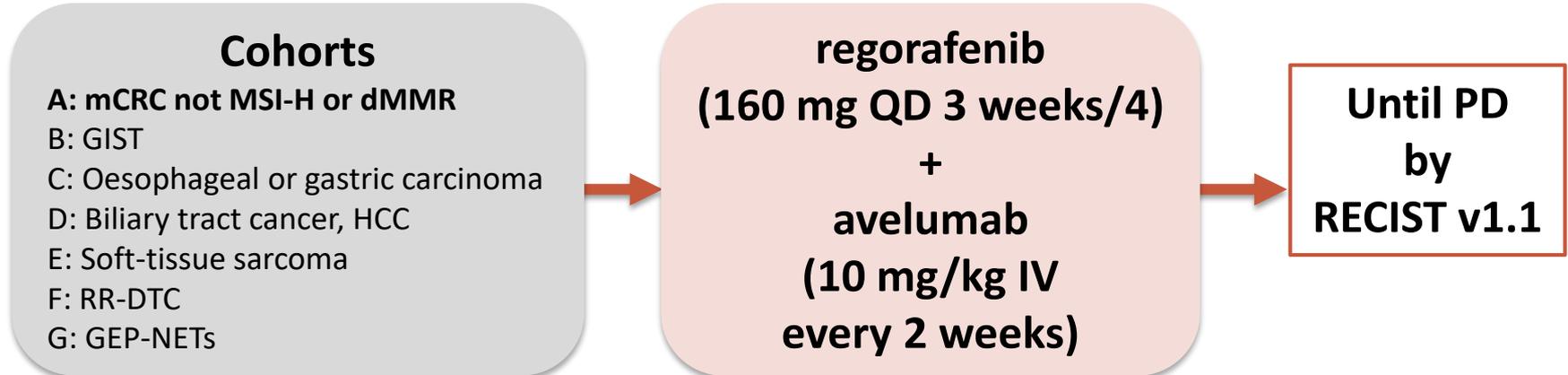
CRC, colorectal cancer; GC, gastric cancer; ORR, objective response rate; PD-1, programmed death-1; PD-L1, programmed death ligand-1

1. Arai H, et al. Cancer Treat Rev 2019;81:101912; 2. Fukuoka S, et al. J Clin Oncol 2020;JCO1903296

REGOMUNE (NCT03475953): Single arm, open-label, phase 1/2 study

Phase 1: defined the recommended phase II dose of regorafenib with avelumab

Phase 2: assessment of the antitumour activity of regorafenib with avelumab in various cohorts



Primary endpoint: 6-months ORR (RECIST v1.1, central review)

Secondary endpoints: best overall response, 6-month PFS, PFS, OS and safety

RESULTS

Period of investigation: Nov. 2018 to Oct. 2019

Cohort assessed: Cohort A: mCRC patients

Number of patients enrolled: 48 patients

- The most common grade 3/4 AEs:
 - palmar-plantar erythrodysesthesia syndrome (30%)
 - hypertension (23%)
 - diarrhoea (13%)
- Overall population:
 - Best response: SD in 23 pts (53.5%) and PD in 17 pts (39.5%)
 - Median PFS: 3.6 months (CI 95%: 1.8–5.4)
 - Median OS: 10.8 months (CI 95%: 5.9–NA)
- Subgroup with low TAMs infiltration and low tumour cells to CD8+ T-cells distance:
 - Median PFS: 5.3 vs 1.9 months (p=0.037)
 - Median OS: NR vs 5.3 months (p=0.02)

CONCLUSIONS

- **Regorafenib + avelumab** achieved PFS and OS that compared favourably with historical data of regorafenib alone in this clinical setting
- High-resolution analysis of tumour samples identified a composite score based on **TAMs infiltration and tumour cell to CD8+ T-cells distance which could be used as a biomarker** in further studies investigating this approach in mCRC patients

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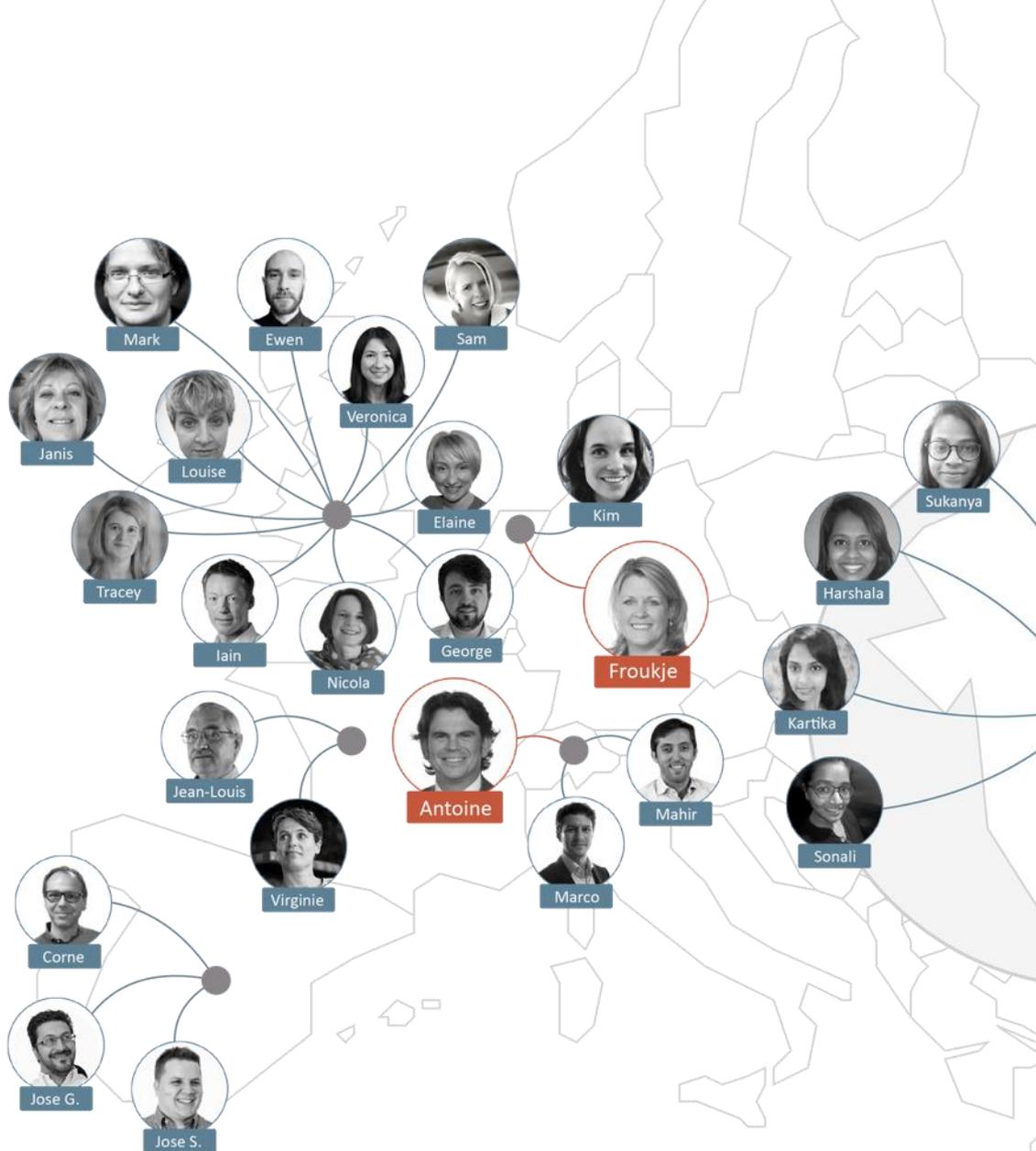
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