

POWERED BY COR2ED

## MEETING SUMMARY ESMO 2018, Munich, Germany

#### **Dr. Changhoon Yoo**

Assistant Professor, Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

## HIGHLIGHTS ON HEPATOCELLULAR CARCINOMA





#### Please note:

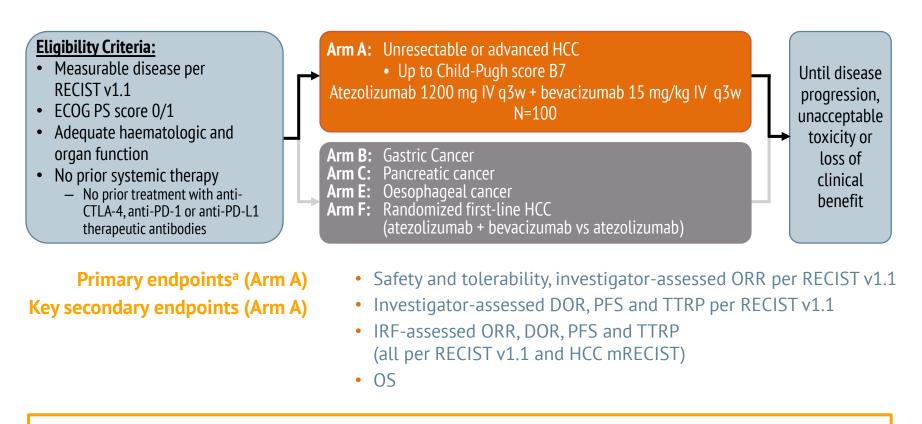
The views expressed within this presentation are the personal opinion of the author. They do not necessarily represent the views of the author's academic institution or the rest of the HCC CONNECT group

# UPDATED SAFETY AND CLINICAL ACTIVITY RESULTS FROM A PHASE IB STUDY OF ATEZOLIZUMAB + BEVACIZUMAB IN HCC

M Pishvaian et al. Abst #LBA26

#### **STUDY DESIGN**





At clinical data cut-off (26 July 2018), 103 patients with HCC treated with atezolizumab + bevacizumab were evaluable for safety and 73 patients were evaluable for efficacy with a minimum follow-up of 16 weeks

CTLA-4, cytotoxic T-lymphocyte-associated protein; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; HCC, hepatocellular carcinoma; IRF, independent review facility; IV, intravenous; mRECIST, modified RECIST; ORR, overall response rate; OS, overall survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PFS, progression-free survival; q3w, every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumours; TTRP, time to radiographic progression <sup>a</sup> Endpoints per protocol version 5 Ducreux M, et al. Presented at ESMO 2018 (abstract 782TiP)

#### **KEY EFFICACY AND SAFETY OUTCOMES**

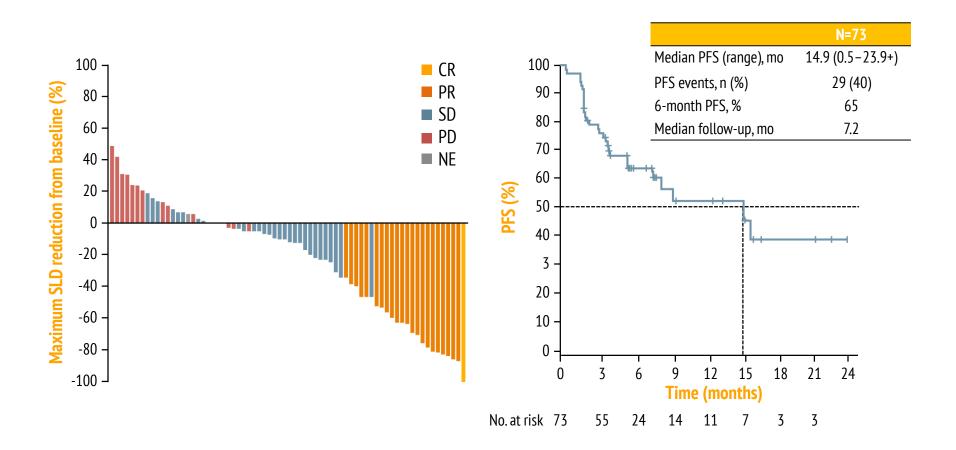


6

- Treatment-related grade 3/4 adverse events: 27%
  - No new safety signals were identified beyond the established safety profile for each individual agent
- Best Objective Response Rates (ORR)
  - Investigator-assessed ORR per RECIST v1.1: 32%
  - IRF-assessed ORR per mRECIST v1.1: 34%
- Progression Free Survival (PFS)
  - Investigator-assessed per RECIST v1.1: median 14.9 months (range 0.5 23.9+)
  - IRF-assessed per RECIST v1.1: median 7.5 months (range 0.4–23.9)
  - Further follow-up is needed considering small number of events

#### EFFICACY OUTCOMES: INVESTIGATOR-ASSESSED RECIST V1.1



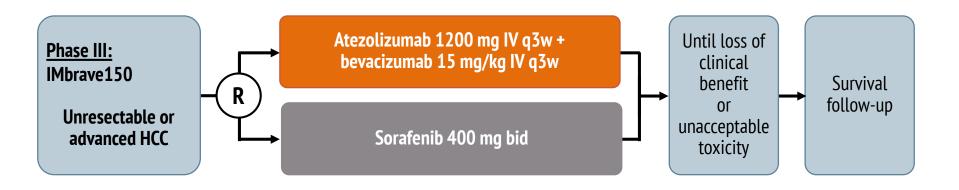


CR, complete response; NE, not evaluable; PD, progressive disease; PFS, progression-free survival; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumours; SD, stable disease; SLD, sum of longest diameter Pishvaian M, et al. Presented at: ESMO 2018 (abstr LBA26)

### ONGOING PHASE 3 TRIALS FOR ATEZOLIZUMAB PLUS BEVACIZUMAB



- Atezolizumab + bevacizumab is being evaluated in the Phase III study IMbrave150 (NCT03434379)
  - Primary endpoint: investigator-assessed ORR per RECIST v1.1 and OS



bid, twice a day; HCC, hepatocellular carcinoma; IV, intravenous; OS, overall survival; ORR, overall response rate; q3W, every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumours Pishvaian M, et al. Presented at: ESMO 2018 (abstr LBA26) RAMUCIRUMAB AS 2<sup>ND</sup>-LINE TREATMENT IN PATIENTS WITH ADVANCED HCC AND ELEVATED AFP FOLLOWING 1<sup>ST</sup>-LINE SORAFENIB: PATIENT REPORTED OUTCOME RESULTS ACROSS TWO PHASE III STUDIES (REACH-2 AND REACH)

A Zhu et al. Abst #622PD

AFP, alpha fetoprotein; HCC, hepatocellular carcinoma

## REACH-2: RAMUCIRUMAB AS 2<sup>ND</sup>-LINE TREATMENT FOR HCC (PRESENTED AT ASCO 2018)



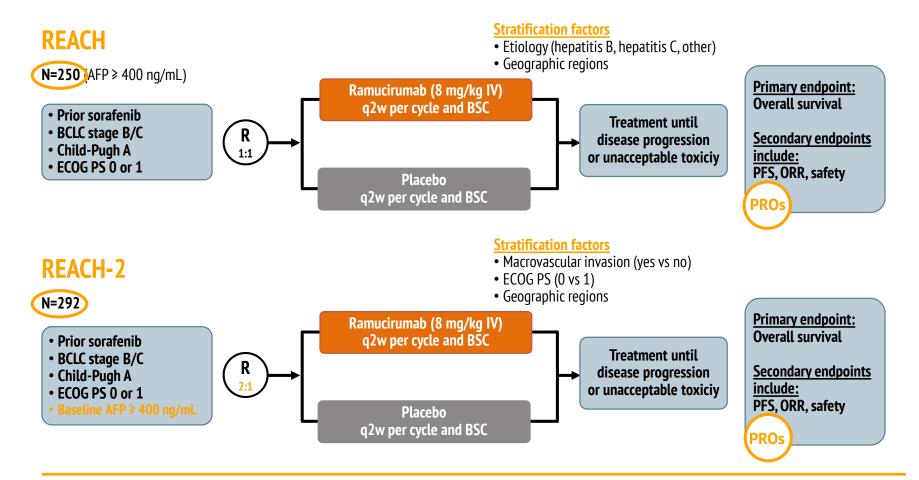
10

- Ramucirumab significantly improved survival outcomes for patients with unresectable HCC and AFP > 400 ng/mL after failure of 1<sup>st</sup>-line sorafenib
  - Median OS: 8.5 vs 7.3 months for ramucirumab vs placebo
    - HR 0.710; 95% CI 0.531, 0.949; p=.0199
  - Median **PFS**: 2.8 vs 1.6 months for ramucirumab vs placebo
    - HR 0.452; 95% CI 0.339, 0.603; p<.0001
- ORR: 4.6% vs 1.1% for ramucirumab vs placebo (p=.1156)
- **DCR** (ORR + SD): 59.9% vs 38.9% for ramucirumab vs placebo (p=.0006)

#### POOLED ANALYSIS OF REACH AND REACH-2 STUDIES FOR PROs STUDY DESIGNS

conneci

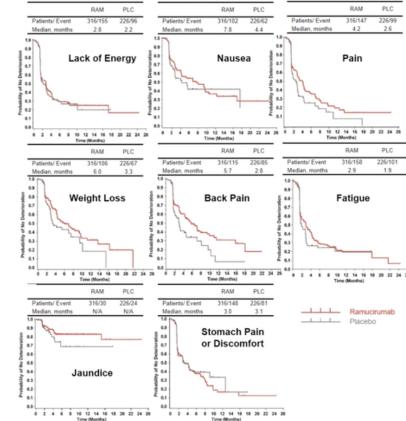
POWERED BY COR2ED



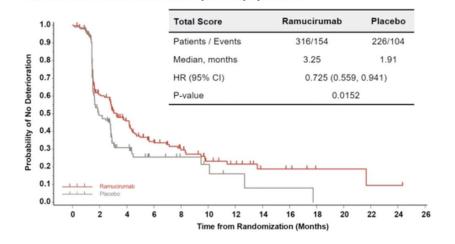
AFP, alpha-fetoprotein; BCLC, Barcelona Clinic Liver Cancer; BSC, best supportive care; ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenous; ORR, objective response rate; PFS, progression-free survival; PRO, patient-reported outcome; R, randomization; q2w, every 2 weeks 11 ClinicalTrials.gov identifier: REACH: NCT01140347, REACH-2: NCT02435433. Zhu A, et al. Presented at ESMO 2018 (abstr 622PD)

#### RAMUCIRUMAB DELAYED CLINICALLY MEANINGFUL SYMPTOM DETERIORATION VS PLACEBO





#### TtD in FHSI-8 total score in the pooled population



CI, confidence interval; FHSI-8, Functional Assessment of Cancer Therapy Hepatobiliary Symptom Index; HR, hazard ratio; N/A, not available; PLC, placebo; RAM, ramucirumab; TtD, time to deterioration Zhu A, et al. Presented at ESMO 2018 (abstr 622PD)

#### TtD in FHSI-8 individual symptoms in the pooled population

## **IN CLINICAL PRACTICE**



- Despite promising data for immune checkpoint inhibitors in the early phase clinical trials, there are no results of randomized phase 3 trials that support the use of these agents in daily practice setting<sup>1</sup>
- At present, sorafenib and lenvatinib are the standard of care as first-line systemic treatment for patients with unresectable HCC<sup>1</sup>
- Ramucirumab demonstrated a consistent trend for a benefit in disease-related symptoms<sup>2</sup>
- Regorafenib is now the only globally approved agent as second-line treatment, with nivolumab approved in the USA
  - Ramucirumab and cabozantinib are awaiting approval for this indication
  - Further efforts to find the optimal subgroup of patients for each agent are needed



HCC CONNECT Bodenackerstrasse 17 4103 Bottmingen SWITZERLAND

Dr. Antoine Lacombe Pharm D, MBA Phone: +41 79 529 42 79 antoine.lacombe@cor2ed.com

Dr. Froukje Sosef MD Phone: +31 6 2324 3636 <u>froukje.sosef@cor2ed.com</u>

