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INSIGHTS INTO TRIAL DESIGNS IN ADVANCED HEPATOCELLULAR CARCINOMA

Dr. Leonardo da Fonseca Instituto do Cancer do Estado de São Paulo, São Paulo, Brazil

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DISCLAIMER



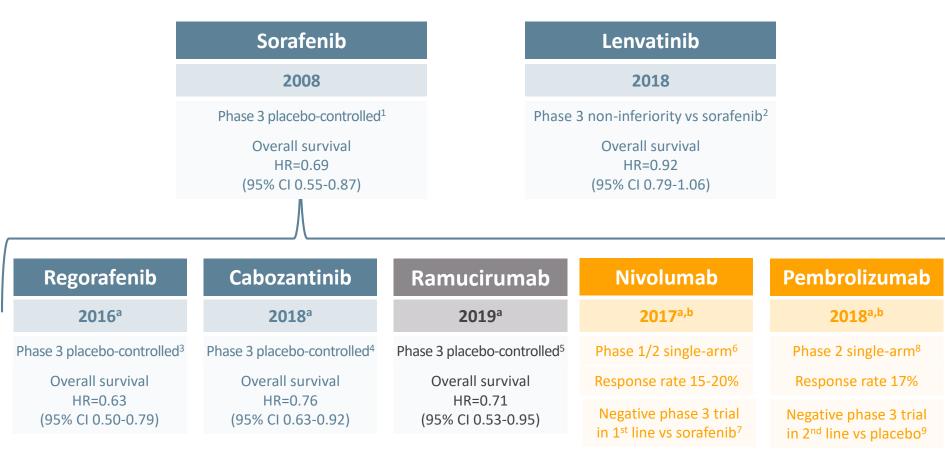
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CURRENT TREATMENT LANDSCAPE FOR ADVANCED HCC





^a after treatment with sorafenib

^b FDA approval only

CI, confidence interval; HCC, hepatocellular carcinoma; HR, hazard ratio

1. Llovet JM, et al. N Engl J Med. 2008;359:378-390; 2. Kudo M, et al. Lancet. 2018;391:1163-1173; 3. Bruix J, et al. Lancet. 2017;389:56-66; 4. Abou-Alfa GK, et al. N Engl J Med. 2018;379:54-63; 5. Zhu AX, et al. Lancet Oncol. 2019;20:282-296; 6. El-Khoueiry AB, et al. Lancet. 2017;389:2492-2502; 7. Yau, et al. ESMO 2019 Abstract #LBA38; 8. Zhu AX, et al. Lancet Oncol. 2018;19:940-952. 9. Finn R, et al. ASCO 2019. Abstract #4004

ENDPOINTS IN CLINICAL TRIALS



- Overall survival is the most robust endpoint in advanced HCC
- However, overall survival can be affected by sequential therapies received after trial discontinuation
- Increasing number of available treatments underscore the need for surrogate endpoints in HCC trials

ENDPOINTS IN CLINICAL TRIALS



Patient-centered endpoints



- Overall survival
- Health-related quality of life

Tumour-centered endpoints

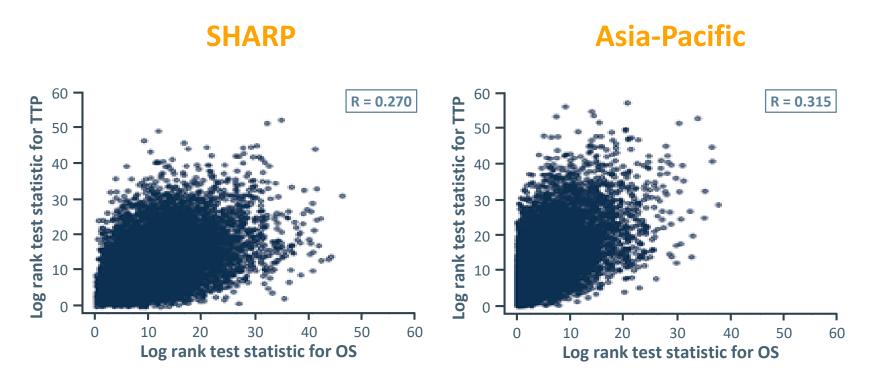


- Progression-free survival
- Time-to-progression
- Disease-free survival
- Response rate

IMPACT OF MEASURING PROGRESSION



WEAK CORRELATION BETWEEN TTP AND OS

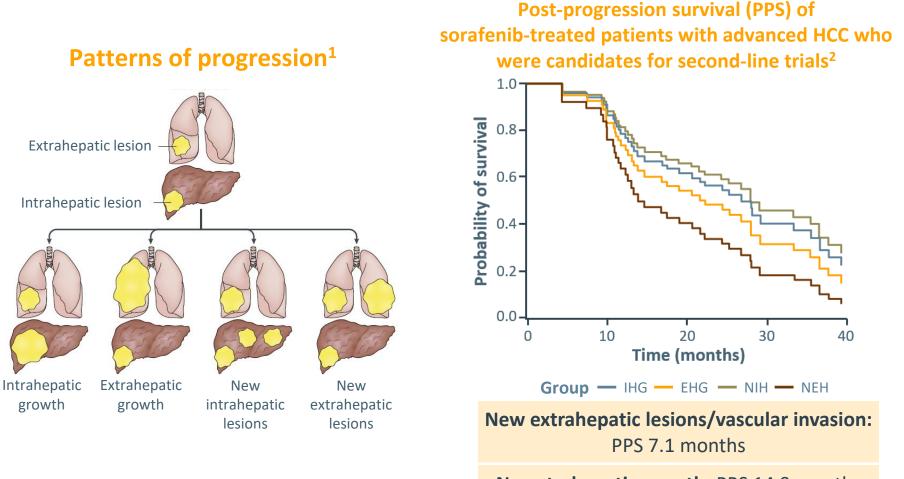


Analysis of patient-level data from the SHARP and AP trials in patients with advanced HCC randomised to sorafenib.

AP, Asia-Pacific; HCC, hepatocellular carcinoma; OS, overall survival; R, Pearson correlation coefficient; TTP, time-to-progression 1. Huang L, et al. ASCO 2017. Abstract #233. 2. Huang L, et al. ESMO 2017. Abstract #702P

NOT ALL PROGRESSIONS ARE THE SAME





No extrahepatic growth: PPS 14.9 months

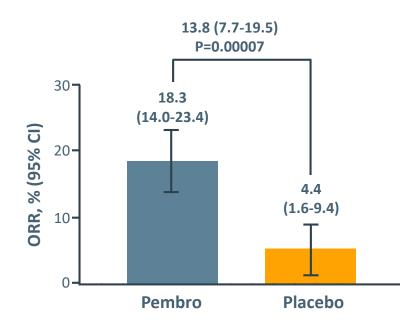
BCLC, Barcelona Clinic Liver Cancer; EHG, extrahepatic increase \geq 20% of the tumour size in lesion previously documented; HCC, hepatocellular carcinoma; IHG, intrahepatic increase \geq 20% of the tumour size in lesion previously documented; NEH, new extrahepatic lesion and/or vascular invasion; NIH, new intrahepatic lesion; PPS, post-progression survival

1. Bruix J, et al. Nat Rev Gastroenterol Hepatol. 2019;16:617-630; 2. Reig M, et al. Hepatology. 2013;58:2023-20311

IMMUNE-CHECKPOINT INHIBITORS IN HCC

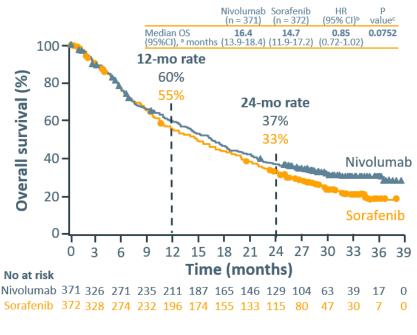


Pembrolizumab¹



Pre-specified efficacy boundaries not reached for OS and PFS (co-primary endpoints) vs placebo.

Nivolumab²



The primary endpoint of OS did not achieve statistical significance vs sorafenib.

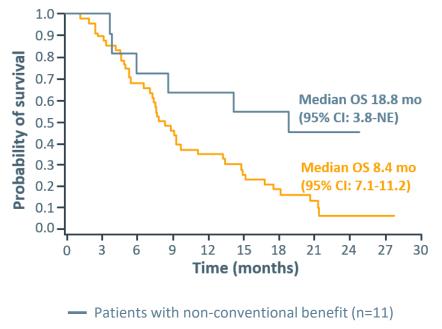
CI, confidence interval; HCC, hepatocellular carcinoma; HR, hazard ratio; ORR, overall response rate; OS, overall survival; PFS, progression-free survival

1. Finn R, et al. ASCO 2019. Abstract #4004. 2. Yau, et al. ESMO 2019 Abstract #LBA38.

NON-CONVENTIONAL BENEFIT WITH IMMUNOTHERAPY



Survival with nivolumab in sorafenibexperienced patients with advanced HCC



Patients without non-conventional benefit (n=48)

Non-conventional benefit:

- PD with new lesions followed by decrease in target lesion ≥ 10%;
- PD of target lesions followed by decrease in target lesion ≥ 30%;
- PD of target lesions or new lesions followed by stabilisation

CONCLUSIONS: CHALLENGES IN HCC TRIAL DESIGN



Stratification factors

• Pattern of progression is important in second- and third-line trials¹

Surrogate endpoints – an unmet need

- Refine definition of treatment failure and disease progression
- Pattern of spread, growth rate and occupation of functional liver parenchyma (BCLC-dismal progression-free survival)





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 froukje.sosef@cor2ed.com

