

# HCC: Evolving Concepts in Therapy

## Immunotherapy Today

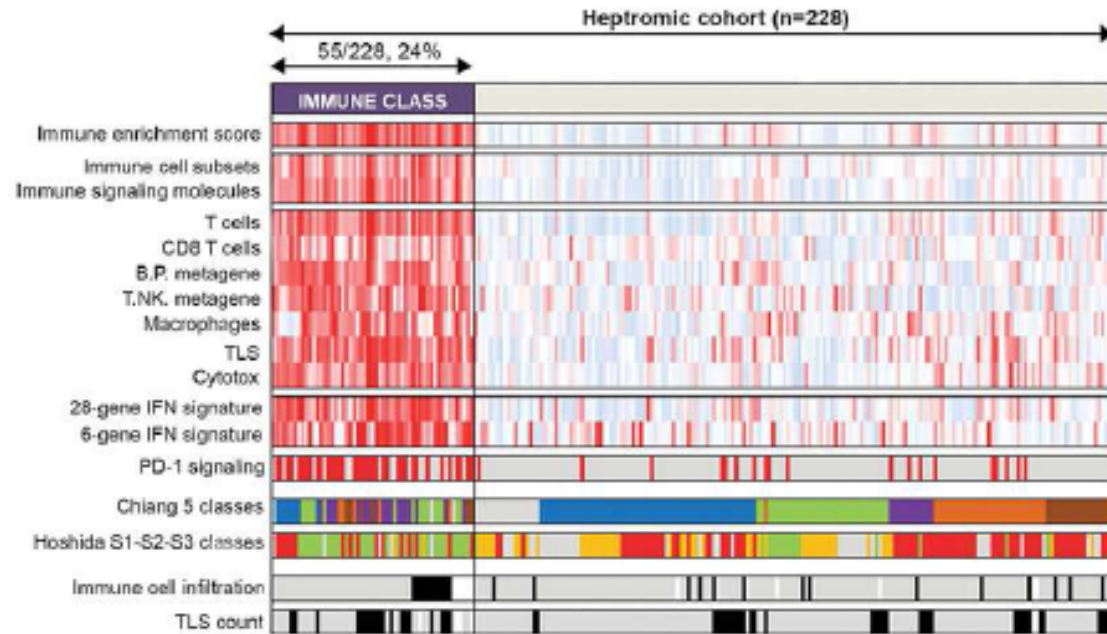


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# Rationale for immunotherapy: HCC versus other malignant diseases

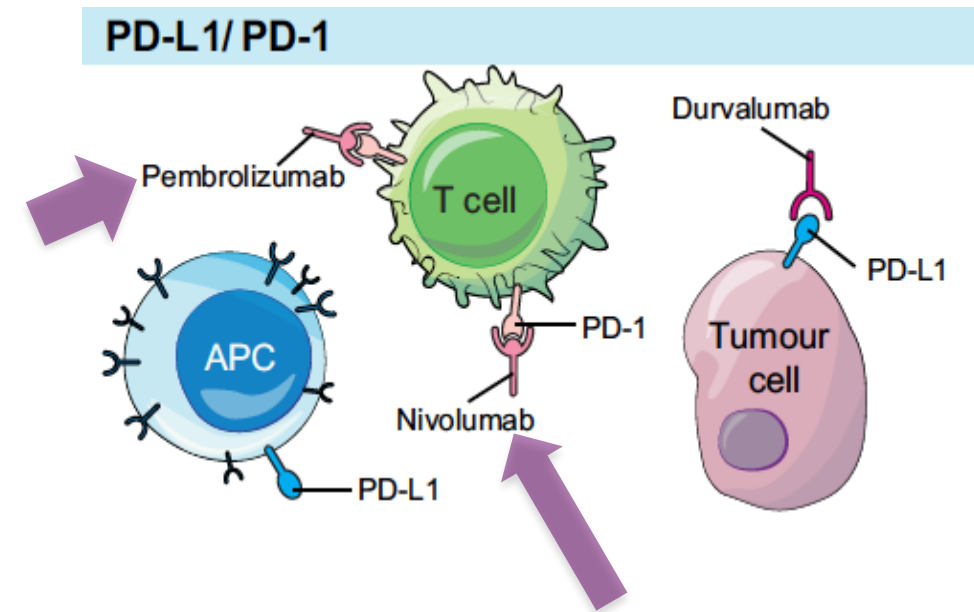
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Sia D et al, Gastroenterol 2017

- Immune class reported 24% in HCC
- HCC ranking in the low range of PD-L1 expression & RR to PD-1 inhibitors single agent

Disease	PD-L1 $\geq 1\%$	Response Rate (Overall/PD-L1 $\geq 1\%$ )
Malignant Melanoma	83-84%	40%
Lung cancer	63%	20%/15-40%
Head and neck cancer	85-86%	10-15%/15-23%
Hepatocellular carcinoma	20-25%	14-18%/20-28%



# Results of immunotherapy single agent phase III in advanced HCC

Advanced stages

First line

CheckMate-459  
(nivolumab versus sorafenib)

Yau T et al, ESMO 2019



Negative phase III trials

Second line

KEYNOTE-240  
(pembrolizumab versus placebo)

Finn R et al, J Clin Oncol 2019



Overall Survival (OS)

# The combination of atezolizumab + bevacizumab sets the first line for advanced hepatocellular carcinoma

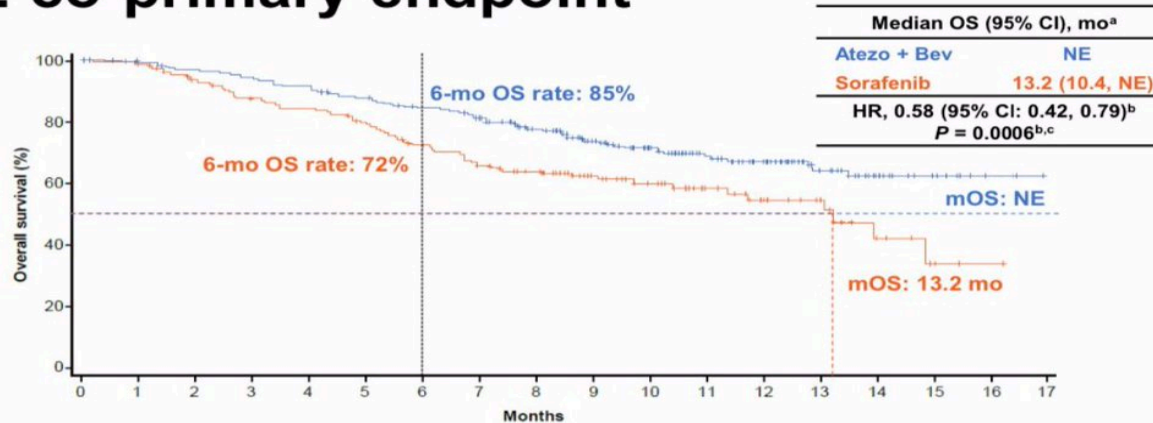
## IMbrave 150 Phase 3 Study

Atezolizumab in Combination With Bevacizumab Compared With Sorafenib in Patients With Untreated Locally Advanced or Metastatic Hepatocellular Carcinoma

SINGAPORE 2019 ESMO ASIA

SINGAPORE  
22-24 NOVEMBER 2019

### OS: co-primary endpoint



No. at risk	165	157	143	132	127	118	105	94	86	60	45	33	24	16	7	3	1	NE
Sorafenib	336	329	320	312	302	288	275	255	222	165	118	87	64	40	20	11	3	NE
Atezo + Bev																		

NE, not estimable. <sup>a</sup> 96 patients (29%) in the Atezo + Bev arm vs 65 (39%) in the sorafenib arm had an event. <sup>b</sup> HR and P value were from Cox model and log-rank test and were stratified by geographic region (Asia vs rest of world, including Japan), AFP level (< 400 vs ≥ 400 ng/mL) at baseline and MVI and/or EHS (yes vs no) per IxRS. <sup>c</sup> The 2-sided P value boundary based on 161 events is 0.0033. Data cutoff, 29 Aug 2019; median survival follow-up, 8.6 mo.

### Conclusions

IMbrave150 demonstrated statistically significant and clinically meaningful improvement with atezolizumab + bevacizumab over sorafenib for OS and IRF-assessed PFS per RECIST 1.1

- OS HR, 0.58 (95% CI: 0.42, 0.79); P = 0.0006
  - IRF-PFS HR, 0.59 (95% CI: 0.47, 0.76); P < 0.0001
- Co-primary endpoints in ITT population

PFS and OS benefits were generally consistent across subgroups

Statistically significant and clinically meaningful improvements were seen in ORR and responses were durable with atezolizumab + bevacizumab

The safety and tolerability profile of atezolizumab + bevacizumab was in line with the known safety profiles of each individual component and the underlying disease

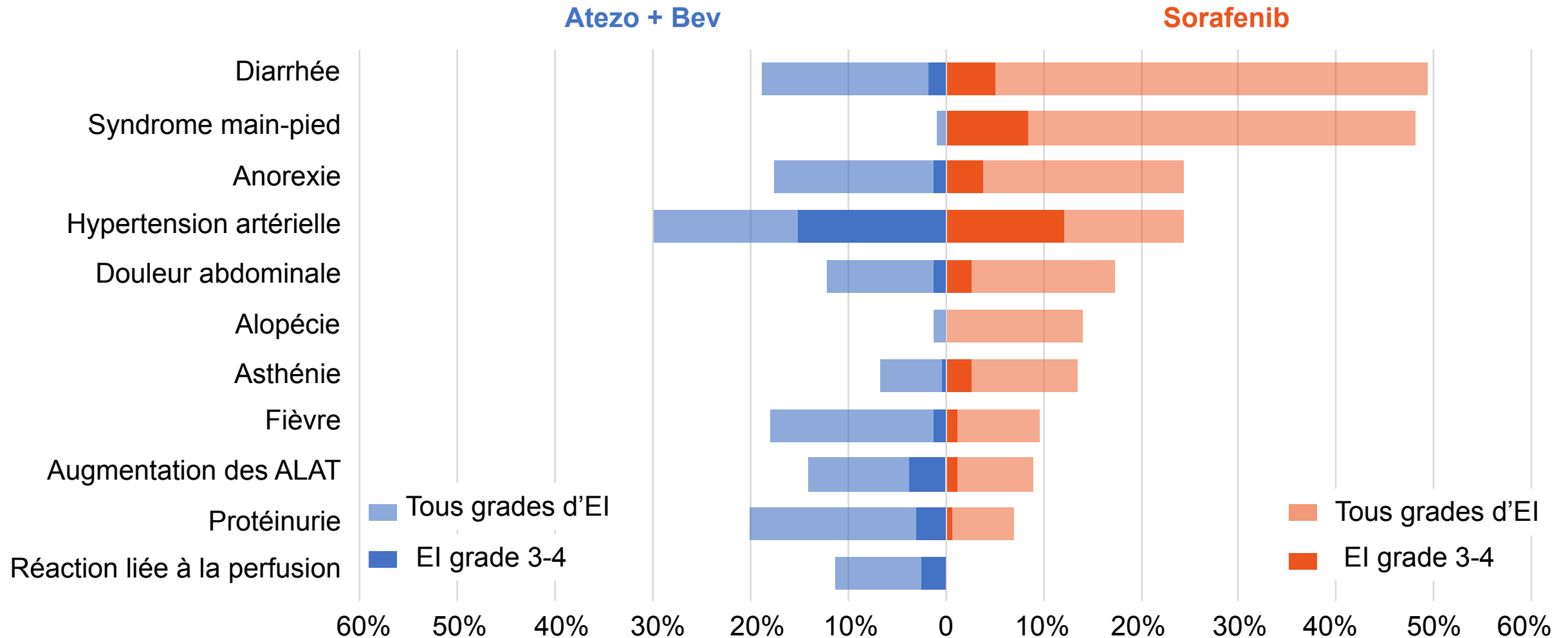
Treatment with atezolizumab + bevacizumab resulted in a clinically meaningful delay in deterioration of patient-reported quality of life vs sorafenib

Atezolizumab + bevacizumab should be considered a practice-changing treatment for patients with unresectable HCC who have not received prior systemic therapy

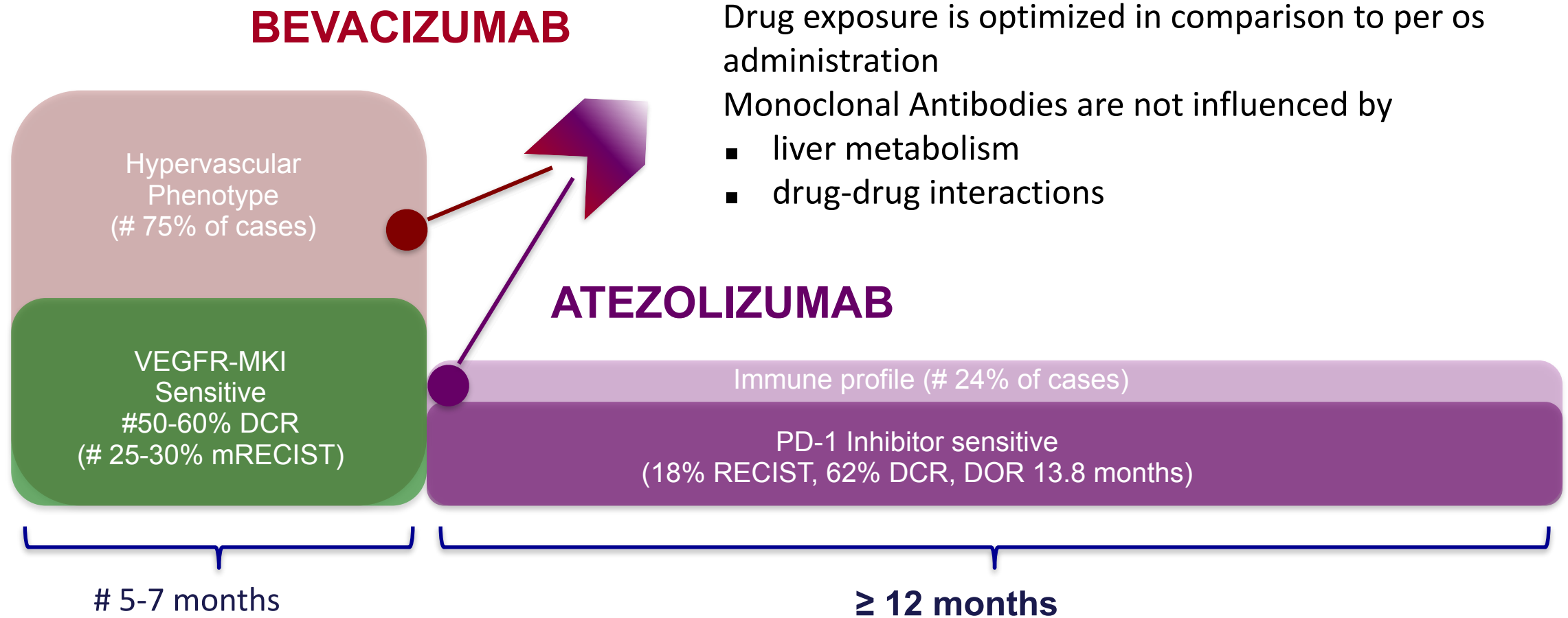
Treatment-related grade 3-4 adverse events (AEs) occurred in 36% of patients receiving atezolizumab (Tecentriq) and bevacizumab (Avastin) and 46% of patients receiving sorafenib



# Tolerance of atezolizumab + bevacizumab in first line for advanced hepatocellular carcinoma



# Associating VEGF and PD-L1 inhibition using monoclonal antibodies



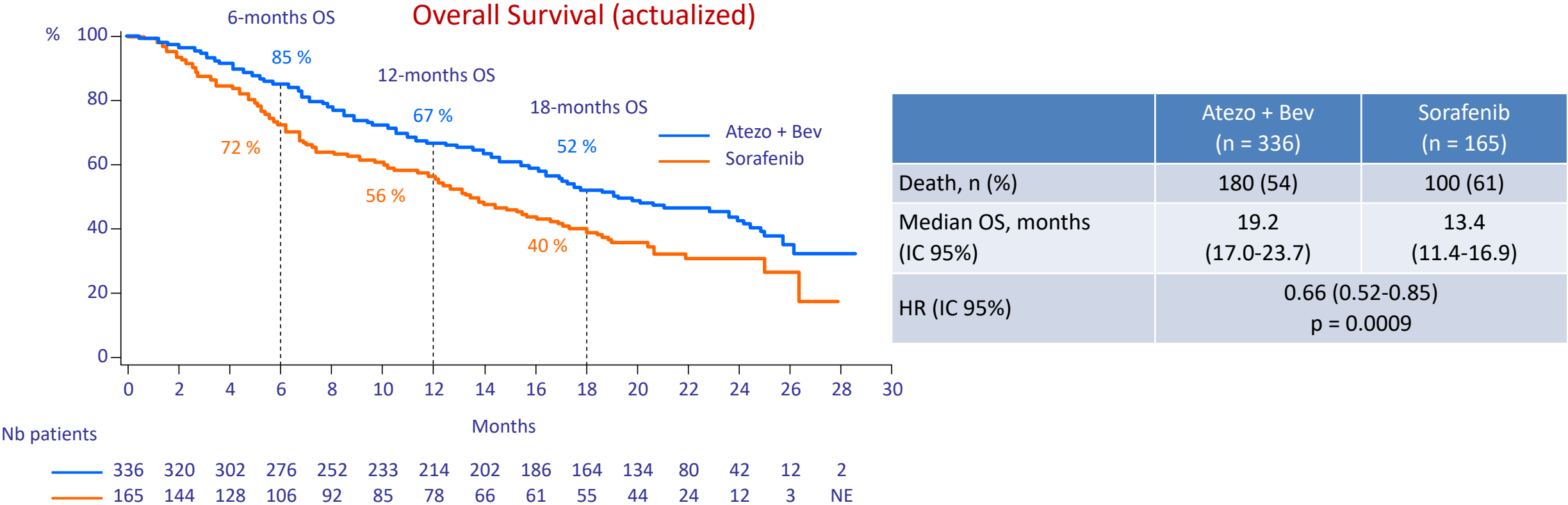
Duration of disease control

Sia D, Gastroenterol 2017; Finn RS, J Clin Oncol 2019; Finn RS, NEJM 2020



# IMbrave150: Updated overall survival (OS) of atezolizumab + bevacizumab for advanced hepatocellular carcinoma

- First analysis conducted after median follow up of 8.6 months (Finn RS et al. N Engl J Med 2020)
- Updated analysis performed after additional 12 months follow up, i.e. median FU of 15.6 months



# IMbrave150: Updated tumor response and duration of atezolizumab + bevacizumab for advanced hepatocellular carcinoma

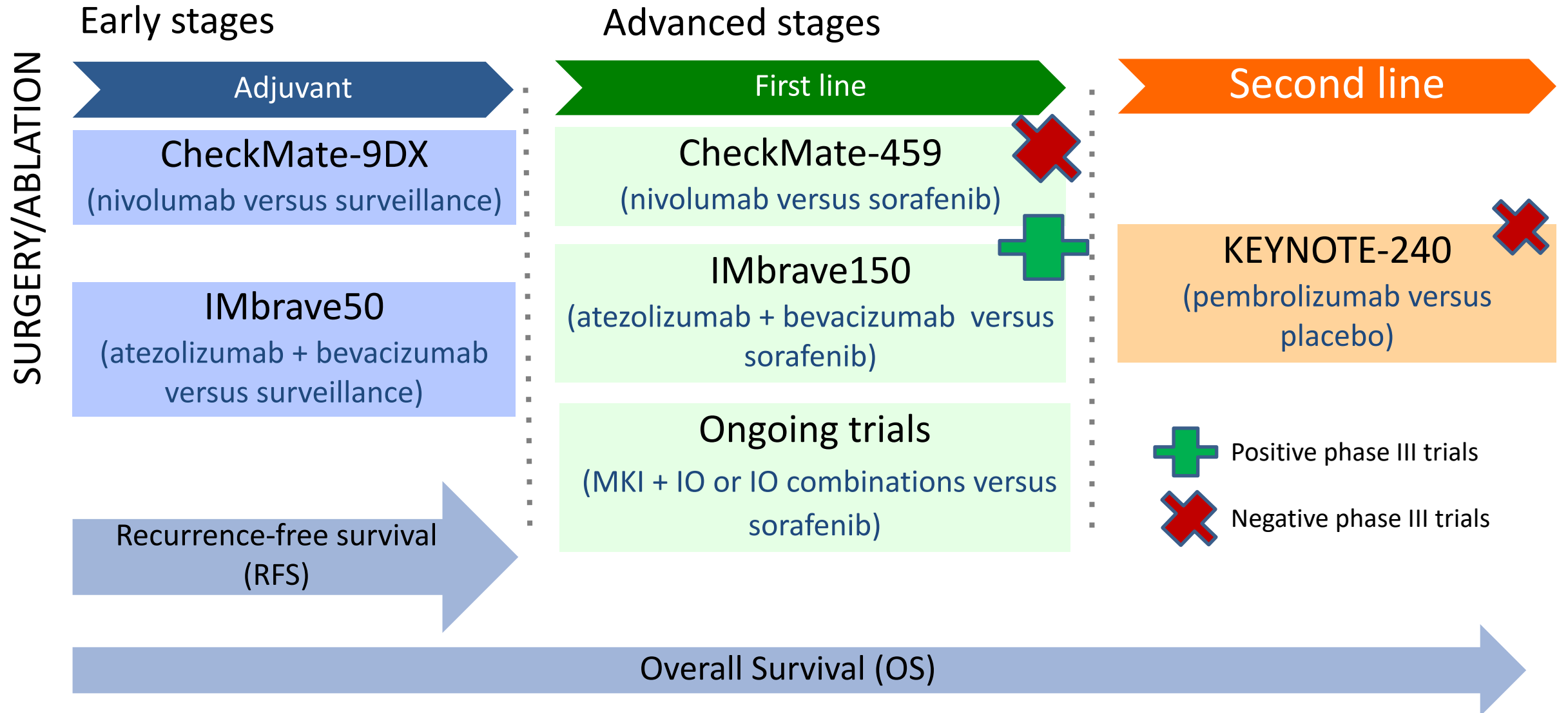
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## Updated Tumor Response and Duration

	RECIST 1.1		mRECIST	
	Atezo + Bev (n = 326)	Sorafenib (n = 159)	Atezo + Bev (n = 325)	Sorafenib (n = 158)
Objective response	30 %	11 %	35 %	14 %
Complete response	8 %	< 1 %	12 %	3 %
Partial response	22 %	11 %	23 %	11 %
Stable disease	44 %	43 %	37 %	41 %
Disease control rate	74 %	55 %	73 %	55 %
Progression	19 %	25 %	20 %	25 %
Ongoing response	56 %	28 %	50 %	27 %
Median duration of response, months (IC 95%)	18.1 (14.6-NE)	14.9 (4.9-17)	16.3 (13.1-21.4)	12.6 (6.1-17.7)



# Phase III of immunotherapy in HCC across disease stages



# Immunotherapy today in HCC – Summary

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- PD-1 inhibitors single agent phase III did not reached OS primary endpoint in 1L and 2L, possibly linked to weakness of target relevance in the overall population
- In first line, combining VEGF and PD-L1 inhibition using antibodies is superior to previous standard with oral VEGFR-MKI sorafenib (OS, PFS) in IMbrave 150 trial
- The high rate of OR by RECIST ( $\geq 30\%$ ) observed with atezolizumab + bevacizumab in advanced HCC makes it attractive for neoadjuvant/downstaging strategies
- Other immunotherapy agents (CTLA4 inhibitors) or immunotherapy + VEGFR-MKI combinations are actively investigated in first line in HCC
- Trials are ongoing in the adjuvant setting with immunotherapy used as single agent or in combination



Thank you for your attention !

