

OneLiver



Expanding horizons in HCC: early detection and systemic treatment opportunities

EASL Liver Cancer Summit 2023

18:20–19:20 Friday 21 April

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Lorenza Rimassa

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Jörg Trojan

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- Travel: Ipsen, Roche
- Institutional research funding: AstraZeneca, BMS, Ipsen, MSD, PCI Biotech, Roche

Pierce Chow

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Welcome and introductions

Lorenza Rimassa

Expert Panel



Lorenza Rimassa

Associate Professor of Medical Oncology Humanitas University and IRCCS Humanitas Research Hospital, Italy



Jörg Trojan

Professor of Medicine and Head of the Gastrointestinal Oncology Unit University Hospital and Cancer Center, Frankfurt, Germany



Pierce Chow

Senior Consultant Surgeon, National Cancer Centre Singapore and Professor and Program Director Duke-NUS Medical School, Singapore

Agenda

Time	Торіс	Speaker
18:20–18:25	Welcome and introductions	Lorenza Rimassa
18:25–18:35	Where do we stand in clinical practice? Systemic HCC treatment today	Lorenza Rimassa
18:35–18:45	Improving patient survival and care: early HCC screening and diagnosis	Jörg Trojan
18:45–18:55	Evolving perspectives in the HCC treatment landscape	Pierce Chow
18:55–19:15	Q&A and panel discussion: insights into the patient journey	All faculty Moderator: Lorenza Rimassa
19:15–19:20	Summary and close	Lorenza Rimassa



Where do we stand in clinical practice? Systemic HCC treatment today

Lorenza Rimassa

Insights into the patient journey: a case study

Screening

Early-stage HC

Intermediate-stage HCC

Advanced-stage HCC

1L treatment

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Relapsed and progressed to advanced-stage HCC after previous locoregional treatment

Confirmed advanced-stage HCC

- Child-Pugh A
- BCLC stage C
- ECOG PS 1
- AFP 356 ng/ml

Patient characteristics:

- Compensated liver cirrhosis
- NASH
- BMI 32
- Arterial hypertension
- HBV-/HCV-
- Two tumours, both \geq 5cm
- Spread to multiple lymph nodes
- Main portal invasion
- EHS



What is the most important feature in the patient characteristics that you base your treatment decision on?

1. Age

2. MVI

3. PD-L1 status

4. Cardiovascular comorbidities

5. Tumour load

Progress has been made in 1L systemic treatment of HCC in recent years



*The TECENTRIQ[®] indication in combination with Bevacizumab is funded by the HNS for the treatment of adult patients with advanced or unresectable hepatocellular carcinoma who have not received prior systemic therapy, with liver function (Child-Pugh stage A), an ECOG score of 0 or 1, in the absence of untreated or undertreated esophagogastric varices and in the absence of autoimmune diseases; **In China only; [†]The use of this product has EMA authorisation but is pending for obtaining funding conditions from HNS; [‡]Does not currently have EMA authorisation; [¶]The use of this product has EMA authorisation and funding conditions from the HNS; [§]The reflected information refers to the Avastin[®] data sheet. In case of administering another bevacizumab, the corresponding data sheet should be consulted; This slide has research data from products without EMA authorisation, with the only purpose of medical education; **Trials in bold supported an approval** Llovet et al. N Engl J Med 2008; 2. Cheng et al. J Clin Oncol 2013
 Zhu et al. J Clin Oncol 2015; 4. Cainap et al. J Clin Oncol 2015
 Kudo et al. Lancet 2018; 6. Yau et al. Lancet Oncol 2022
 Finn et al. N Engl J Med 2020; 8. Ren et al. Lancet Oncol 2021
 Qin et al. J Clin Oncol 2021; 10. Kelley et al. Lancet Oncol 2022
 Abou-Alfa et al. N Engl J Med 2022; LBA36)
 Finn et al. ESMO 2022; (LBA35)

IMbrave150 (phase III): study design



Stratification

- Region (Asia excluding Japan[‡]/RoW)
- ECOG PS (0 or 1)
- MVI and/or EHS (presence/absence)
- Baseline AFP (<400/≥400ng/mL)

Primary endpoints

• OS, PFS (IRF RECIST v1.1)

IMbrave150 (phase III): efficacy Atezo + bev Sorafenib Atezo + bev Sorafenib 1.0 1.0 (n=326)(n=159) (n=326)(n=159)Median PFS,* Median OS. 6.9 4.3 19.2 13.4 months months 0.8 0.8 HR=0.65[‡] (95% CI: 0.53–0.81) log-rank p <0.001 HR=0.66[‡] (95% CI: 0.52–0.85) log-rank p <0.001 estimate estimate 0.6-0.6 0.4 SO 0.4 PFS 0.2-0.2 -Atezo + bev Atezo + bev Sorafenib Sorafenib 0 0 12 14 16 18 20 22 24 26 28 10 8 22 16 18 20 12 14 24 26 10 0 Time (months) Time (months)

Atezo + bev (n=326)

97 (30; 25-35)

25 (8)

72 (22)

144 (44)

63 (19)

241 (74)

18.1 (14.6-NE)

CCOD: 31 August 2020; median follow-up: 15.6 months; *IRF, RECIST v1.1; [‡]Stratified: stratification factors included in the Cox model are geographic region (Asia excluding Japan vs RoW), AFP level (<400ng/mL vs ≥400ng/mL) at baseline and MVI and/or EHS (Yes vs No) per IxRS

Clinical response: RECIST 1.1

CR, n (%)

PR, n (%)

SD, n (%)

PD, n (%)

DCR, n (%)

Confirmed ORR, n (%*; 95% CI)

Median DoR, (95% CI) months[‡]

Sorafenib (n=159)

18 (11; 7–17)

1 (<1)

17 (11)

69 (43)

40 (25)

87 (55)

14.9 (4.9–17.0)

IMbrave150 (phase III): safety and HRQoL



HIMALAYA (phase III): efficacy and safety







	T300 + durvaulmab (n=393)	Durvalumab (n=389)	Sorafenib (n=389)
Median OS, (95% CI) months	16.43 (14.16–19.58)	16.56 (14.06–19.12)	13.77 (12.25–16.13)
HR vs sorafenib	0.78 (96.02% CI: 0.65–0.93)	0.86 (95.67% CI: 0.73–1.03)	-
Median PFS, (95% CI) months	3.8 (3.68–5.32)	3.7 (3.19–3.75)	4.1 (3.75–5.49)
HR (95% CI)	0.9 (0.77–1.05)	1.0 (0.88–1.19)	-
ORR (RECIST v1.1), %	20	17	5
DCR, %	60	55	61
Median DoR, months	22.34	16.82	18.43

Event, n (%)	T300 + durvalumab (n=393)	Durvalumab (n=389)	Sorafenib (n=389)
Any Grade 3/4 TRAE	196 (51)	144 (37)	196 (52)
imAEs requiring high-dose steroids	78 (20.1)	37 (9.5)	7 (1.9)
imAEs leading to treatment discontinuation	22 (5.7)	10 (2.6)	6 (1.6)

Abou-Alfa et al. ASCO GI 2022 Abou-Alfa et al. N Engl J Med Evid 2022

RATIONALE-301 (phase III): efficacy and safety



Primary endpoint: OS (ITT) Secondary endpoints: ORR, PFS, DoR by BIRC per RECIST 1.1 and safety



	Tisleizumab (n=342)	Sorafenib (n=332)	
Median OS, (95% CI) months	15.9 (13.2–19.7)	14.1 (12.6–17.4)	
Stratified HR (95% CI)	0.85 (0.712–1.019)		
Median PFS, (95% CI) months	2.1 (2.1–3.5)	3.4 (2.2–4.1)	
Stratified HR (95% CI)	1.11 (0.92–1.33)		
ORR n (%) [95% Cl]	49 (14.3) [10.8–18.5]	18 (5.4) [3.2–8.4]	
Median DoR, (95% CI) months	36.1 (16.8–NE)	11.0 (6.2–14.7)	

Event, %	Tisleizumab (n=338)	Sorafenib (n=324)
Occurrence of Grade ≥3 TRAE	22.2	53.4
imAE requiring steroids	12.7	3.1
TRAE leading to discontinuation	6.2	10.2

Qin et al. ESMO 2022 (LBA36)

SHR-1210-III-310 (phase III): efficacy and safety





Safety, n (%)	Camrelizumab + rivocernaib (n=272)	Sorafenib (n=269)
Any grade 3/4 TRAE	219 (80.5)	140 (52.0)
TRAEs leading to dose modification or interruption of treatment	219 (80.5)	135 (50.2)

Recommendations for 1L cancer immunotherapy in the HCC setting differ between regional guidelines

ASCO (2020)¹

 Atezolizumab + bevacizumab is the preferred 1L regimen (Child-Pugh class A)

AASLD (2020 Consensus

Conference)²

Atezolizumab + bevacizumab is

recommended as 1L therapy

ESMO (2021 eUpdate)³

 Atezolizumab + bevacizumab is recommended as standard of care in 1L therapy

EASL (2021)⁴

- Atezolizumab + bevacizumab is recommended as 1L therapy
- · If not feasible sorafenib or lenvatinib

BCLC (2022)⁵

- Atezolizumab + bevacizumab / durvalumab + tremelimumab* is recommended as 1L therapy for advanced-stage HCC
- If not feasible sorafenib or lenvatinib or durvalumab

APASL (2017)61

 No recommended cancer immunotherapy options at time of guideline publication

ILCA (2020)7

- Atezolizumab + bevacizumab is recommended as 1L therapy
- If not feasible sorafenib
 or lenvatinib

*On 15 December 2022, the EMA's CHMP adopted a positive opinion for durvalumab + tremelimumab as firstline treatment for adults with advanced or unresectable HCC; [¶]Patients not amenable to surgical resection, liver transplantation, LRT or TACE, in patients with good performance status and Child-Pugh class A liver function Gordan et al. J Clin Oncol 2020; 2. Llovet et al. Hepatology 2021
 Vogel et al. Ann Oncol 2021; 4. Bruix et al. J Hepatol 2021
 Reig et al. J Hepatol 2022; 6. Omata et al. Hepatol Int 2017
 ILCA Systemic Therapy Guidance (last updated November 2020)

BCLC staging is the foundation of the treatment algorithm for HCC



*Except for those with tumour burden acceptable for transplant †Resection may be considered for single peripheral HCC with adequate remnant liver volume

BCLC staging is the foundation of the treatment algorithm for HCC



*On 15 December 2022, the EMA's CHMP adopted a positive opinion for durvalumab + tremelimumab as first-line treatment for adults with advanced or unresectable HCC; [†]The use of this product has EMA authorisation but is pending for obtaining funding conditions from HNS

Reig et al. J Hepatol 2022; Copyright (2023), with permission from Elsevier



Improving patient survival and care: early HCC screening and diagnosis

Jörg Trojan

What is your current preferred choice of surveillance method?

1. US

2. US & AFP

- **3.** US & algorithms
- 4. GALAD alone
- **5.** GAAD alone

HCC diagnosis is often made too late



Because early-stage HCC gives no symptoms, screening of population at risk plays crucial role in HCC treatment



Diagnosing HCC at earlier stages is critical so more patients can benefit from potentially curative therapies



*Except for those with tumour burden acceptable for transplant ‡Resection may be considered for single peripheral HCC with adequate remnant liver volume

HCC surveillance is associated with improved early detection, use of curative treatment and longer OS



*Except for those with tumour burden acceptable for transplant ‡Resection may be considered for single peripheral HCC with adequate remnant liver volume

Barriers to HCC surveillance can be related to the patient, clinician or broader healthcare system



Traditional surveillance techniques such as ultrasound and AFP profiling have limited sensitivity for early-stage HCC^{1,2}



There is an unmet need for specific and sensitive surveillance modalities that can detect HCC in at-risk patients as early as possible²

Published GALAD evidence generated in independent cohorts since 2014



Johnson et al. Cancer Epidemiol Biomarkers Prev 2014; 7. Best et al. Z Gastroenterol 2016
 Lambrecht et al. J Clin Med 2021; 9. Schotten et al. Pharmaceutials 2021; 10. Huang et al. Liver International 2021
 Lin et al. Hepatol Commun 2022; 12. Ahn et al. Hepatoma Res 2022; 13. Best et al. Clin Gastroenterol Hepatol 2020
 Berhane et al. Clin Gastroenterol Hepatol 2016; 15. Chalasani et al. Clin Gastroenterol Hepatol 2022

Elecsys® GAAD score has shown strong clinical performance for detection of HCC in its early stages

<u>GAAD:</u> Gender Age AFP DCP (PIVKA-II)	GAAD cut-off: 2.57 Sensitivity, (95% CI) Specificity, (95% CI)	Elecsys [®] GAAD		Elecsys [®] AFP assay		
			All HCC (N=156)	Early-stage (n=71)	All HCC (N=156)	Early-stage (n=71)
		Sensitivity, (95% CI)	86.5 (80.2–91.5)	78.9 (67.6–87.7)	52.6 (44.4–60.6)	38.0 (26.8–50.3)
		Specificity, (95% CI)	91.4 (86.7–94.8)	91.4 (86.7–94.8)	98.1 (95.2–99.5)	98.1 (95.2–99.5)



GALAD vs GAAD

Sensitivity, %

Specificity, %

Sensitivity, %

Specificity, %

GALAD

GAAD

- A comparison of the Elecsys[®] GALAD and Elecsys[®] GAAD algorithms for differentiating HCC from benign chronic liver disease showed that the algorithms had a similar clinical performance
- Both algorithms were superior to individual biomarkers alone

ROC curves for GALAD and GAAD algorithms and biomarker assays for discriminating between HCC and liver disease



Specificity

AFP, alpha-fetoprotein; AFP-L3, Lens culinaris-agglutinin-reactive fraction of AFP; AUC, area under the curve; HCC, hepatocellular carcinoma; PIVKA-II, protein induced by vitamin K absence-II; ROC, receiver operating characteristic

Early-stage

HCC

90.8

92.2

73.8

72.9

All-stage

HCC

85.8

90.8

85.0

92.2

Sensitivity of GAAD compared with clinical biomarkers and ultrasound has been investigated in patients with HCC

	SEN, %	SPE, %	AUROC	P value
		Non-liver of	cirrhosis	
AFP >20 ng/mL	28.6	98.4	0.78	<0.001
PIVKA-II >28.4 ng/mL	66.7	98.1	0.94	<0.001
GAAD score >2.57	71.4	96.8	0.87	<0.001
GAAD score >2.57 plus US	100	96.8		<0.001
		Liver ch	irrosis	
AFP >20 ng/mL	53.1	91.7	0.76	<0.001
PIVKA-II >28.4 ng/mL	71.9	80.0	0.87	<0.001
GAAD score >2.57 plus US	87.5	83.3		<0.001
GAAD score >2.57	81.3	83.3	0.90	<0.001

HCC all stages

Early-stage HCC



GAAD testing combined with ultrasound has demonstrated improved sensitivity for detecting early-stage HCC compared with other surveillance techniques



Insights into the patient journey: a case study

Screening

Early-stage HC

Intermediate-stage HCC

Advanced-stage HCC

Surveillance

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Asymptomatic for HCC but has characteristics considered high-risk for HCC

Patient monitored regularly every 6 months

Patient characteristics:

- Liver cirrhosis
- NAFLD
- BMI 32
- Arterial hypertension
- HBV_/HCV_
- FIB4 score >3.5
- Liver enzymes slightly elevated



Which choice of surveillance would you use for this patient?

1. US

2. US & AFP

3. US & algorithms

4. GALAD alone

5. GAAD alone



Evolving perspectives in the HCC treatment landscape

Pierce Chow

Insights into the patient journey: a case study

Screening

Early-stage HCC

Intermediate-stage HCC

Advanced-stage HCC

Diagnosis

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Asymptomatic for HCC but has characteristics considered high-risk for HCC
- Diagnostic work-up performed including imaging, blood tests and biopsy
- Surveillance with ultrasound not conclusive; GAAD score shows value of 4.05; referred to MR which shows 5.1 cm LI-RADS 5 lesion in left liver lobe

Confirmed early-stage HCC

- Child-Pugh class A
- BCLC stage A
- ECOG PS 0

- AFP 15.2 ng/ml
- PIVKA II 23 ng/ml

Patient characteristics:

- Compensated liver cirrhosis
- NASH
- BMI 32
- Arterial hypertension
- HBV_/HCV_
- Single tumour 5.1 cm



There are still unmet needs across the HCC treatment spectrum

	BCLC stage				
	0	Α	В	С	D
Description	Very early	Early	Intermediate	Advanced	End-stage
ECOG PS	0	0	0	1/2	3/4
Child-Pugh class	A	A/B	A/B	A/B	С
Tumour stage	Single nodule ≤2 cm	Single tumour or ≤3 nodules each ≤3 cm	Large multinodular	Vascular invasion or EHS	Any
Unmet need	Developing adjuvant therapy to prevent recurrence		Systemic therapies, alone or combined with LRT, to enhance efficacy	How to sequence sy beyond the 1L set prolong s	estemic treatment ting in order to urvival

For patients who undergo resection, early recurrence of disease (within 2 years) can significantly impact OS



Adjuvant treatment may overcome the risk of early HCC recurrence and improve patient prognosis; however, there are currently no approved agents in this setting for HCC – this represents an urgent unmet need³

1. Imamura et al. I J of Hepatology 2003; Copyright (2023), with permission from Elsevier 2. Jung et al. J Gastrointest Surg 2019; Copyright (2023), with permission from Springer; 3. Hack et al. Future Oncol 2020

Phase III research is ongoing for adjuvant HCC global trials







IMbrave050 (phase III): study design

12 months or 17 cycles



*High-risk features include: tumour >5 cm, >3 tumours, microvascular invasion, minor macrovascular invasion Vp1/Vp2, or Grade 3/4 pathology *Intrahepatic recurrence defined by EASL criteria. Extrahepatic recurrence defined by RECIST 1.1



*RFS after randomisation, defined as the time from randomisation to the first documented occurrence of intrahepatic HCC (according to EASL criteria) or extrahepatic HCC (according to RECIST 1.1) as determined by an IRF, or death from any cause (whichever occurs first) [†]Stratification factors: region; high-risk features and procedures. CCOD: 21 October 2022. median follow-up time: 17.4 months; CI, confidence interval; HR, hazard ratio; INV, investigator; IRF, independent review facility; NE, not estimable; RFS, recurrence-free survival

IMbrave050 (phase III): safety summary

	Atezo + bev (n=332)	Active surveillance (n=330)	IMbrave150 ^{2,3} (n=329)
Treatment duration, median, months	Atezo: 11.1 Bev: 11.0	NA	Atezo: 7.4 Bev: 6.9
Patients with ≥1 AE, n (%)	326 (98.2)	205 (62.1)	323 (98.2)
Treatment-related AE	293 (88.3)	NA	276 (83.9)
Grade 3/4 AE, n (%)	136 (41.0)	44 (13.3)	186 (56.5)
Treatment-related Grade 3/4 AE	116 (34.9)	NA	117 (35.6)
Serious AE, n (%)	80 (24.1)	34 (10.3)	125 (38.0)
Treatment-related serious AE	44 (13.3)	NA	56 (17.0)
Grade 5 AE, n (%)	6 (1.8)	1 (0.3)	15 (4.6)
Treatment-related Grade 5 AE	2 (0.6)*	NA	6 (1.8)
AE leading to dose interruption of any study treatment, n (%)	155 (46.7)	NA	163 (49.5)
AE leading to withdrawal from any study treatment, n (%)	63 (19.0)	NA	51 (15.5)

Clinical cutoff: 21 October 2022; median follow-up duration: 17.4 months. In safety-evaluable patients. AE, adverse event. NA, not available; *Oesophageal varices haemorrhage and ischemic stroke; 1 was related to atezo and bev and the other was related to bev only

1. Chow et al. EASL LCS 2023 (also presented at AACR 2023) 2. Finn et al. N Engl J Med 2020; 3. Data on file

Key ongoing trials in intermediate-stage HCC

Systemic therapy vs TACE



Key ongoing trials in intermediate-stage HCC

TACE + systemic therapy vs TACE



Key ongoing trials in intermediate-stage HCC

Y90 + immunotherapy



Current ongoing studies addressing treatment sequencing in HCC



Q&A and panel discussion: insights into the patient journey

All faculty Moderated by Lorenza Rimassa

Insights into the patient journey: a case study

Screening

Early-stage HC

Intermediate-stage HCC

Advanced-stage HCC

Surveillance

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Asymptomatic for HCC but has characteristics considered high-risk for HCC

Patient monitored regularly every 6 months

Patient characteristics:

- Liver cirrhosis
- NAFLD
- BMI 32
- Arterial hypertension
- HBV_/HCV_
- FIB4 score >3.5
- Liver enzymes slightly elevated

What barriers to screening and surveillance do you see in your clinic?

- 1. Cost
- **2.** Scheduling difficulties
- **3.** Technology unavailable
- **4.** No MTD collaboration
- **5.** Lack of awareness

6. Other

Insights into the patient journey: a case study

Screening

Early-stage HCC

Intermediate-stage HCC

Advanced-stage HCC

Diagnosis

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Asymptomatic for HCC but has characteristics considered high-risk for HCC
- Diagnostic work-up performed including imaging, blood tests and biopsy
- Surveillance with ultrasound not conclusive; GAAD score shows value of 4.05; referred to MR which shows 5.1 cm LI-RADS 5 lesion in left liver lobe

Confirmed early-stage HCC

- Child-Pugh class A
- BCLC stage A
- ECOG PS 0

- AFP 15.2 ng/ml
- PIVKA II 23 ng/ml

Patient characteristics:

- Compensated liver cirrhosis
- NASH
- BMI 32
- Arterial hypertension
- HBV_/HCV_
- Single tumour 5.1 cm

What would be your treatment of choice for this patient?

1. Resection

2. Ablation (RFA/MWA)

3. TACE

4. TARE

5. Transplant

Insights into the patient journey: a case study

Screening

Early-stage HCC

Intermediate-stage HCC

Advanced-stage HCC

Loco-regional and systemic treatment options

• 62-year-old male patient with pre-existing autoimmune disorder who undergoes regular blood tests to assess liver function

Confirmed intermediate-stage HCC

- Child-Pugh A
- BCLC stage B
- ECOG PS 1
- AF 15.2 ng/ml

Patient characteristics:

- Compensated liver cirrhosis
- NASH
- BMI 32
- Arterial hypertension
- HBV-/HBC-
- Bilobar disease
- Two tumours, both ≥5 cm
- Preserved portal vein flow

What do you consider when initiating systemic therapy over TACE?

- 1. Tumour burden exceeds "up to seven" criteria
- 2. Bilobar tumour
- **3.** Response to TACE
- 4. High number of nodules
- 5. Other

Insights into the patient journey: a case study

Screening

Early-stage HC

Intermediate-stage HCC

Advanced-stage HCC

1L treatment

- 62-year-old male patient with pre-existing autoimmune disorder (hypothyroidism) who undergoes regular blood tests to assess liver function
- Relapsed and progressed to advanced-stage HCC after previous locoregional treatment

Confirmed advanced-stage HCC

- Child-Pugh A
- BCLC stage C
- ECOG PS 1
- AFP 356 ng/ml

Patient characteristics:

- Compensated liver cirrhosis
- NASH
- BMI 32
- Arterial hypertension
- HBV-/HCV-
- Two tumours, both \geq 5cm
- Spread to multiple lymph nodes
- Main portal invasion
- EHS

What is the most important feature in the patient characteristics that you base your treatment decision on?

1. Age

2. MVI

3. PD-L1 status

4. Cardiovascular comorbidities

5. Tumour load

Summary and close

Lorenza Rimassa