

Fostrox – The first oral, liver-targeted treatment for advanced HCC

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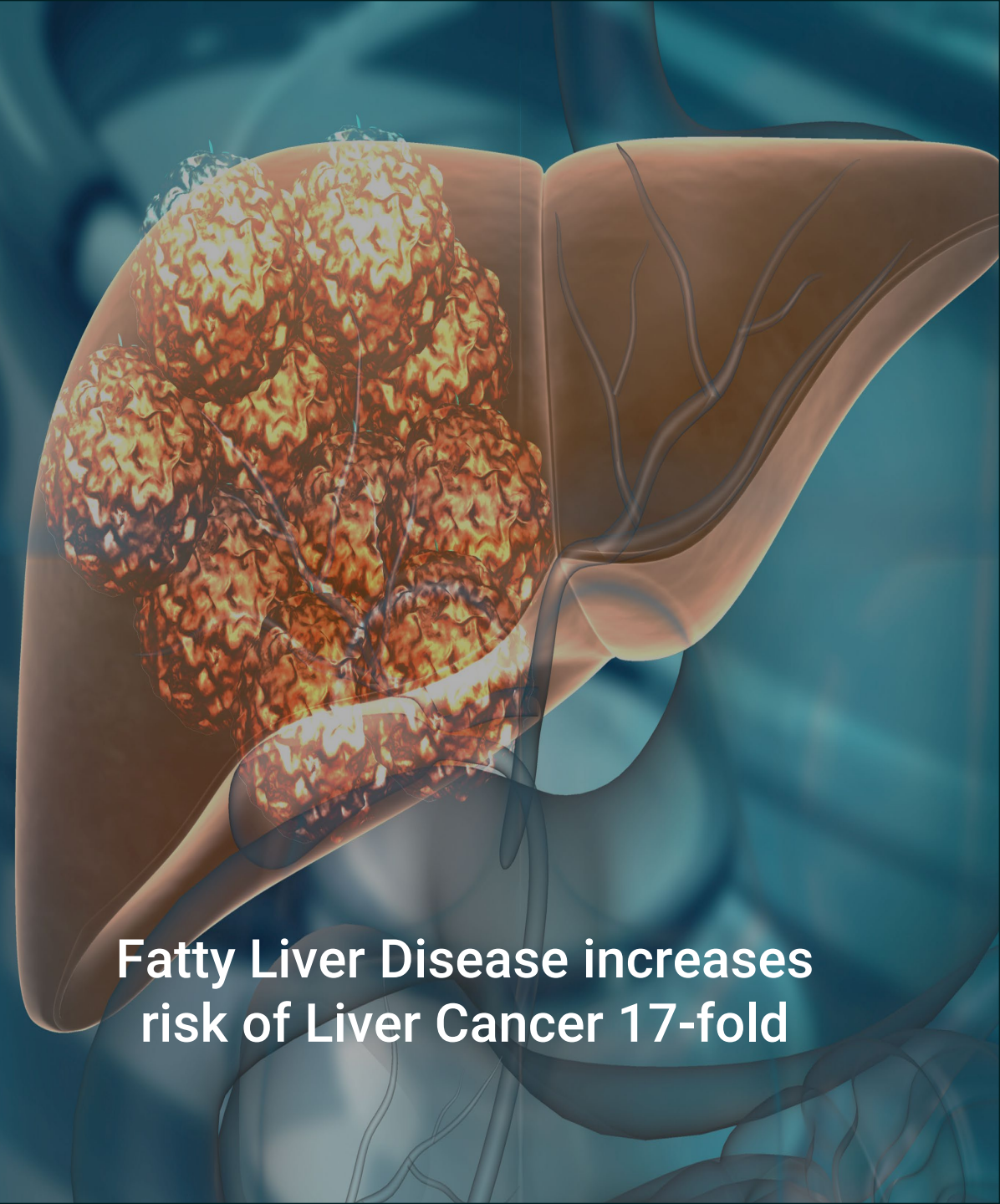
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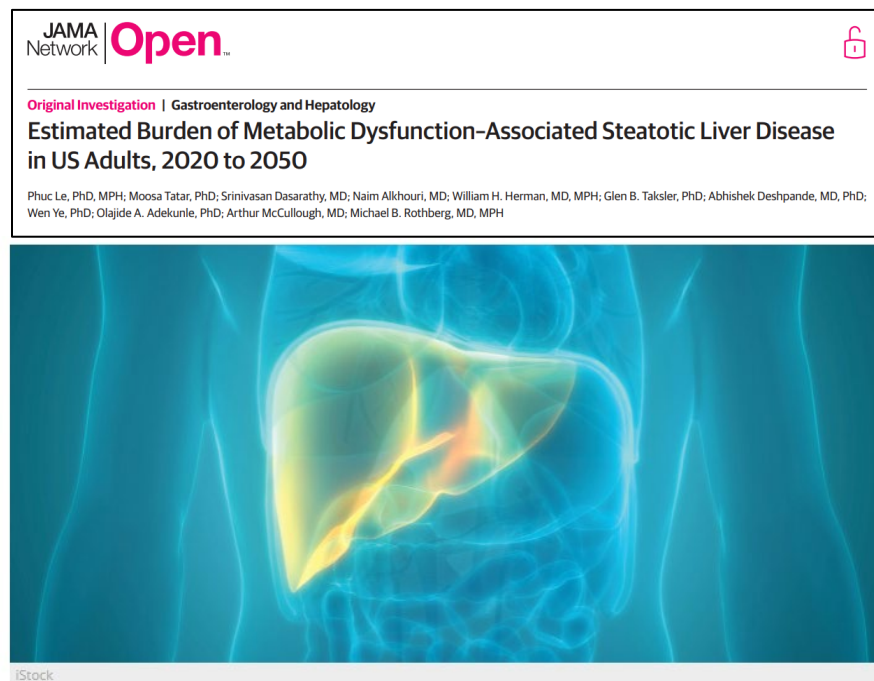


**45% of US adults are obese
More than 25% have Fatty Liver Disease**



**Fatty Liver Disease increases
risk of Liver Cancer 17-fold**

Growth in Fatty Liver Disease expected to drive an alarming increase in liver cancer cases¹



SCIENCE NEWS

Fatty Liver Disease Is Expected to Skyrocket By 2050

A model predicts the rise in MASLD and MASH will drive an alarming increase in liver failure, liver cancer and liver transplants.



Fatty Liver Disease (MASLD/MASH) expected to rise dramatically over the next 30 years



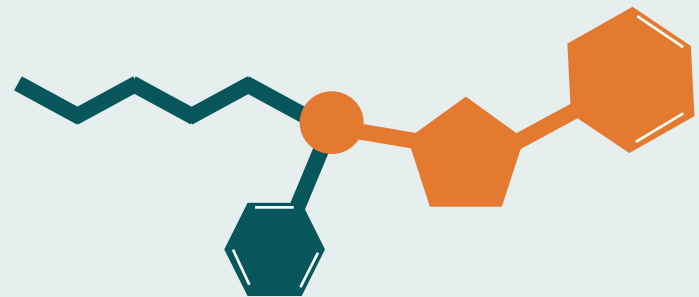
The number of newly diagnosed liver cancer patients each year is expected to double



HCC market growth further spurred by more and better treatments enabling patients to be treated longer

Fostrox – designed to selectively kill tumor cells in the liver

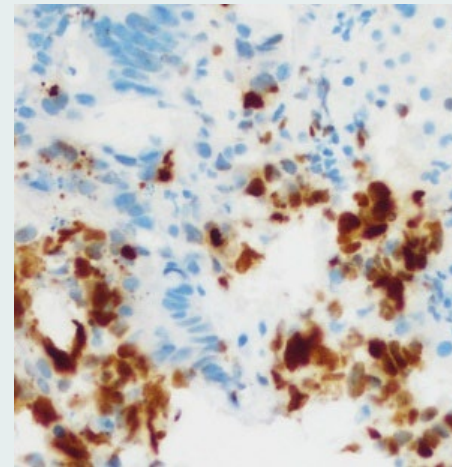
Prodrug transports inactive payload to the liver, where it is rapidly activated by liver enzymes¹



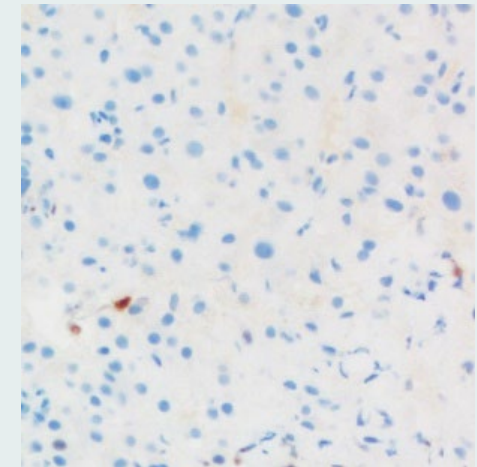
Liver-guided
delivery –
prodrug

Tumor-selective
payload –
troxacitabine

Kills tumor cells^{2,3,4}



Spares healthy cells^{2,3,4}



¹Bethell, R. et al P-035, ILCA 2016

²Kukhanova, M et al J Biol Chem 1995

³Albertella, M. et al EASL Summit P01-05, 2018

⁴Öberg F. et al, EASL PO-221, 2022

Fostrox + Lenvima targets 2L population where no treatments are approved today

Advanced HCC – Treatment Algorithm

1L

- Majority treated with IO combo
- **Tecentriq + Avastin preferred with recent data strengthening its position**

90%

IO combination

10%

Lenvatinib (or Sorafenib)

2L

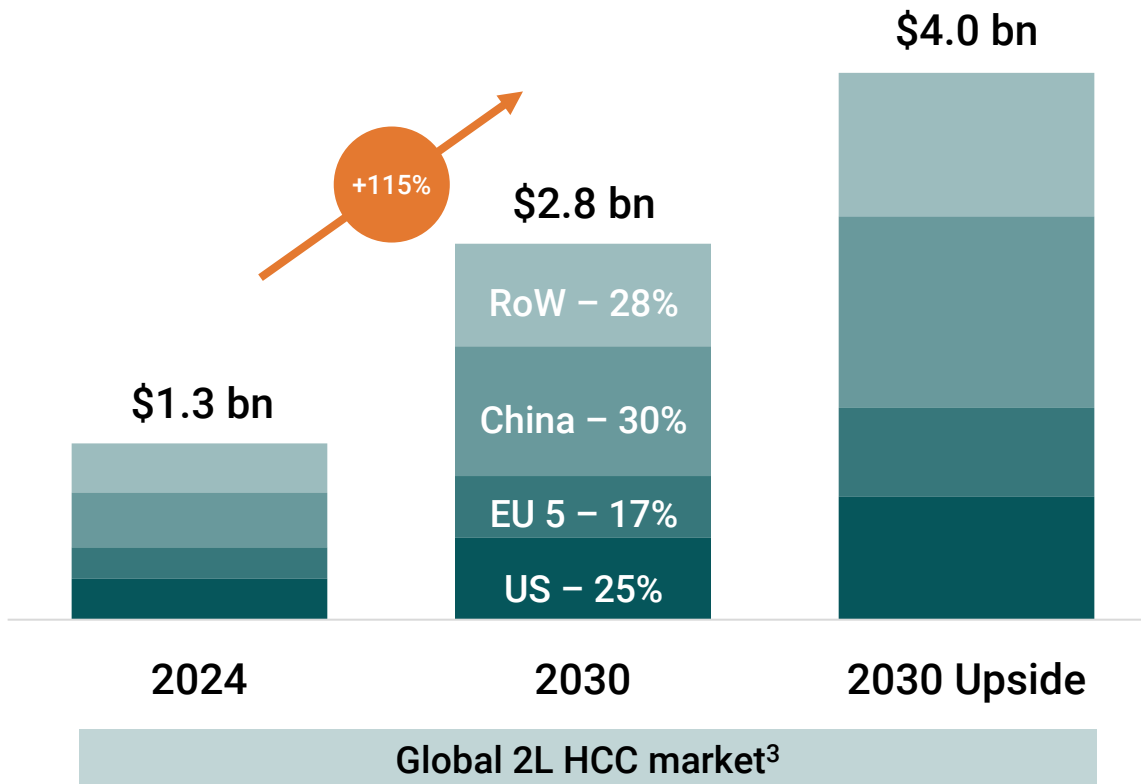
- No approved options in 2L
- Fostrox + Lenvima target population

- Data presented at ASCO & ESMO-GI confirming the promise of fostrox + lenvatinib combination

Lenvatinib/TKI
monotherapy preferred

IO combination

2nd line HCC – a ~\$3bn commercial opportunity³



Growth driven by:

- HCC to increase **+122% in the US** and **+82% in China²** by 2030, caused by fatty liver disease
- With improved 1L treatment, more patients will be **fit enough for 2L**, 50% → 70%

2030 Upside:

- Average treatment duration increases to 10 months based on fostrox + Lenvima[®] study

¹Rumguy et al. Journal of Hepatology 2022

²Huang et al., Nature Reviews, Gastroenterology & Hepatology, Vol 18, 2021

³GlobalData 2021 and internal analysis

Key patent approval in Japan for fostrox + Lenvima extending protection until 2041, complementing previous approval in EU

Medivir receives Notice of Allowance for fostrox plus lenvatinib combination patent by Japan Patent Office

2025-07-08

Medivir AB (Nasdaq Stockholm: MVIR), a pharmaceutical company focused on developing innovative treatments for cancer in areas of high unmet medical need, announces today that it has received a Notice of Allowance by the Japan Patent Office (JPO) for the company's patent application covering claims for the combination of fostroxacitabine bralpamide (fostrox) with lenvatinib (Lenvima) for the treatment of hepatocellular carcinoma (HCC) and cancer metastases to the liver.



Covers the combination of fostrox + Lenvima for the treatment of HCC and metastases to the liver



Now approved in Japan, EU and Australia which indicates likelihood of other key regions to follow

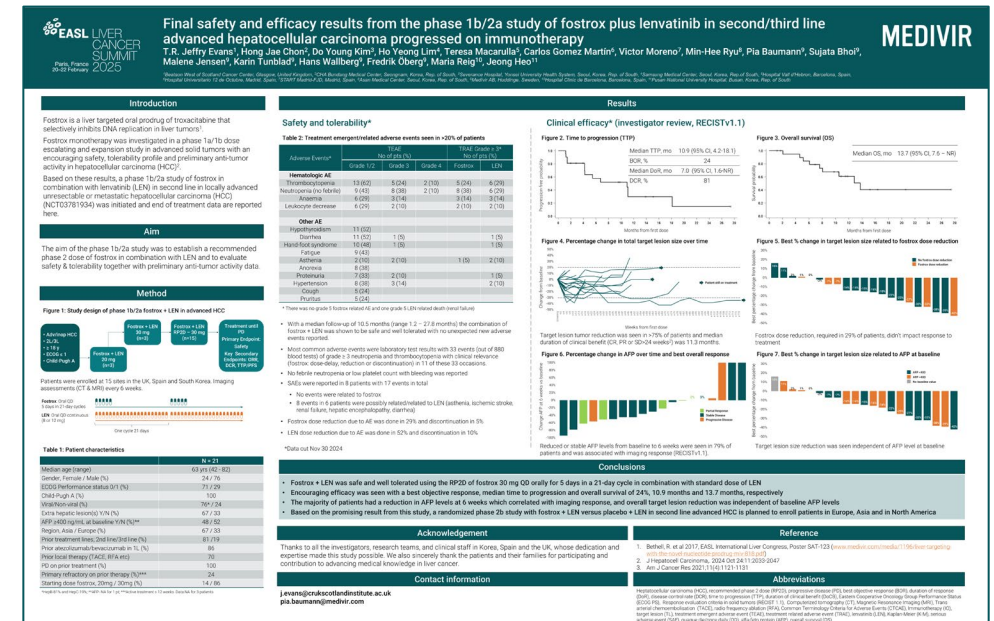


Generates critical extension of patent protection until 2041

Global phase 1b/2a study with fostrox + Lenvima (TKI) positive, final data presented at EASL in February

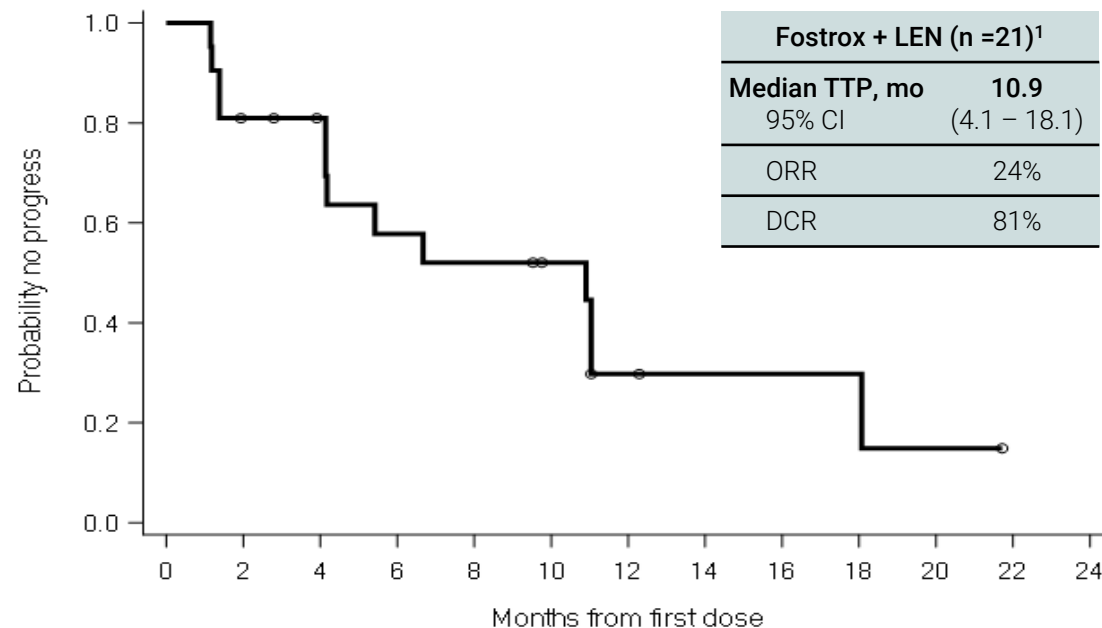


Poster P02-13 presented by Dr. Jeff Evans, Glasgow, at
EASL Liver Cancer Summit in February in Paris



Median TTP 10.9 months, indicating substantially improved efficacy compared with Lenvima alone¹

Median time to progression (TTP) with fostrox + LEN – investigator review, RECISTv1.1

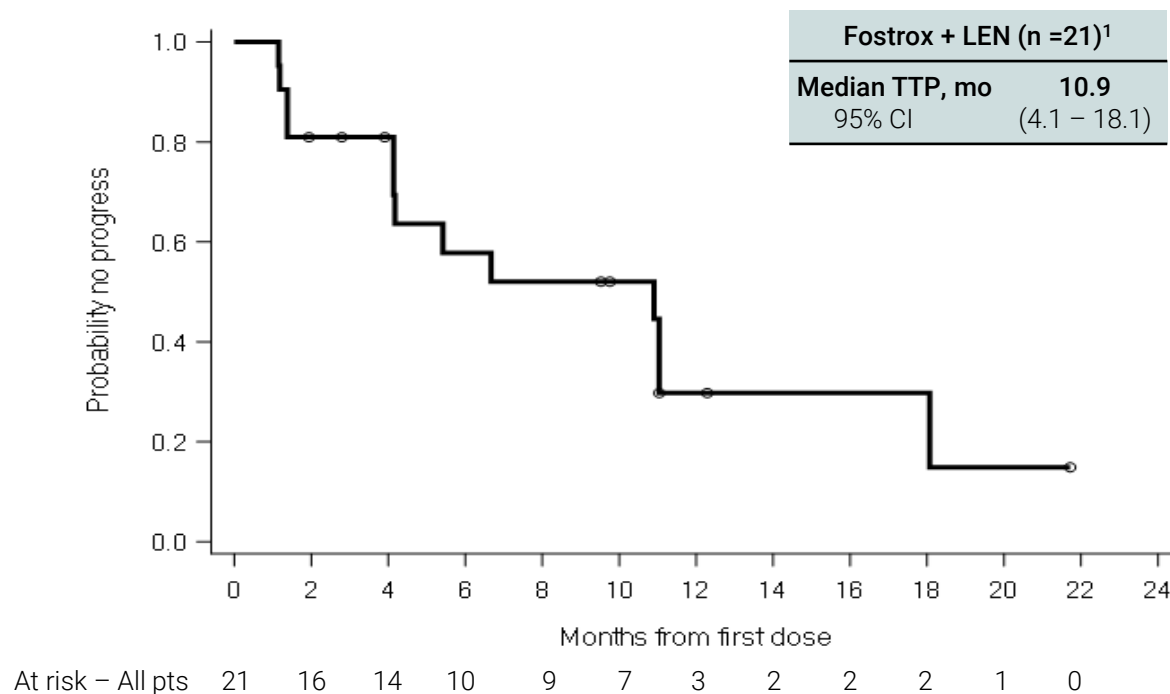


At risk – All pts 21 16 14 10 9 7 3 2 2 2 1 0

- Median time to progression 10.9 months
- Overall Response Rate 24%
- Longest running patient still on treatment after 3 years

Median time to progression (TTP) 10.9 months, remarkably longer than Lenvima monotherapy and other 2L HCC treatments

Median TTP (Kaplan-Meier) with fostrox + Lenvima



Median TTP/PFS vs previous studies in 2L HCC

Lenvima after IO combo:

Kobayashi et al. 2023 (n=12)
Chon et al. 2024 (n=40)
Hiraoka et al. 2023 (n=101)
Palmer et al. 2023 (n=53)
Yoo et al. 2023 (n=19)
Yano et al. 2023 (n=24)
Persano et al. 2024 (n=86)

Other TKIs in 2L:

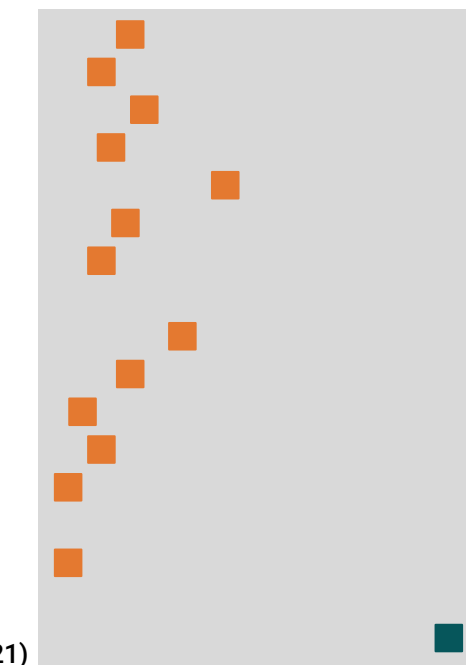
Abou-Alfa et al. 2018 (n=470)
Chan et al. 2022 (n=48)
Bruix et al. 2016 (n=379)
Yoo et al. 2024 (n=40)
Zhu et al. 2019 (n=292)

Pembro + regorafenib in 2L:

El-Khoueiry et al. 2024 (n=68)

Fostrox + Lenvima (n=21)

~3.5-4 months



TTP - Months

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Recent review of HCC studies in 2nd line confirms unmet need with an ORR < 10% and a PFS of around 4 months

Table 3
Selected clinical studies reporting efficacy and safety of subsequent MKI treatments following progression of atezolizumab plus bevacizumab.

Treatment	Sorafenib or lenvatinib	MKIs (predominantly sorafenib)	Sorafenib	Lenvatinib	Cabozantinib	Regorafenib	Pembrolizumab plus regorafenib (prior atezolizumab plus bevacizumab cohort)	Lenvatinib
Authors (year)	Yoo et al. (2021) [39]	Falette-Puisieux et al. (2023) [40]	Chon et al. (2024) [41]	Chon et al. (2024) [41]	Chan et al. (2024) [21]	Yoo et al. (2023) [23]	El-Khoueiry et al. (2024) [22]	Yoo et al. (2024) [44]
Number of patients	49	53	86	40	47	40	68	50
Region	Asia	France	Korea	Korea	Asia	Asia	Global	Korea
Study design	Retrospective	Retrospective	Retrospective	Retrospective	Prospective	Prospective	Prospective	Prospective
BCLC– C (%)	100	92.4	86.6	90.0	94	97.5	78	76
Macrovascular invasion (%)	38.8	43.4	46	52.1	30	–	28	24
Extrahepatic spread (%)	–	77.4	69	72.5	–	–	66	–
mPFS (months)	3.4	2.8	3.5	1.8	4.1*	3.5	2.8	5.4
mOS (months)	14.7	7.0	10.3	7.5	11.8*	9.7	Not reached	8.6
ORR (%)	6.1	–	5.8	7.5	6.4	10.0	5.9	12
DCR (%)	63.3	–	24.4	67.5	83.0	82.5	54.4	84
Gr3/4 TRAE (%)	16.3	28.3	35.0	38.4	–	–	40	–
Most common Gr3/4 TRAE	HFS	–	Proteinuria	HFS, rash	Platelet count decrease	Platelet count decrease	HFS	Hypertension

BCLC: Barcelona Clinic Liver Cancer; DCR: disease control rates; HFS: hand-foot syndrome; mOS: median overall survival; mPFS: median progression-free survival; ORR: objective response rates.
* mPFS and mOS after atezolizumab plus bevacizumab-based therapy.

Chan et al., “Treatment for hepatocellular carcinoma after immunotherapy”

Annals of Hepatology, February 2025

	TKIs (lenvatinib, sorafenib etc) Mean results across 8 studies
ORR	7.7%
DCR	65.6%
PFS/TTP	3.4 months

Recent review of HCC studies in 2nd line confirms unmet need with an ORR < 10% and a PFS of around 4 months

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	TKIs (lenvatinib, sorafenib etc) Mean results across 8 studies	Fostrox + lenvatinib
ORR	7.7%	24%
DCR	65.6%	81.0%
PFS/TTP	3.4 months	10.9 months

IND approval obtained for randomized FOCuS-2 study of fostrox + Lenvima vs Lenvima



Medivir obtains IND approval for fostrox - the first oral, liver-targeted treatment for advanced liver cancer

2024-12-16

- FDA clearance of Investigational New Drug (IND) application to evaluate fostrox (fostroxacitabine bralpamide) in combination with Lenvima® vs Lenvima alone in a randomized phase 2b study in second-line advanced liver cancer (hepatocellular carcinoma, HCC).
- Phase 1b/2a data has demonstrated that the combination of fostrox + Lenvima has shown a manageable safety profile and encouraging anti-tumor activity in second-line population, including a median time to progression (TTP) of 10.9 months [1].
- Medivir plans to recruit patients in at least 8 countries across USA, Europe and Asia, aiming for study read-out in 2027.



Study design with dose run in to select optimal dose, aligned with FDA Project Optimus

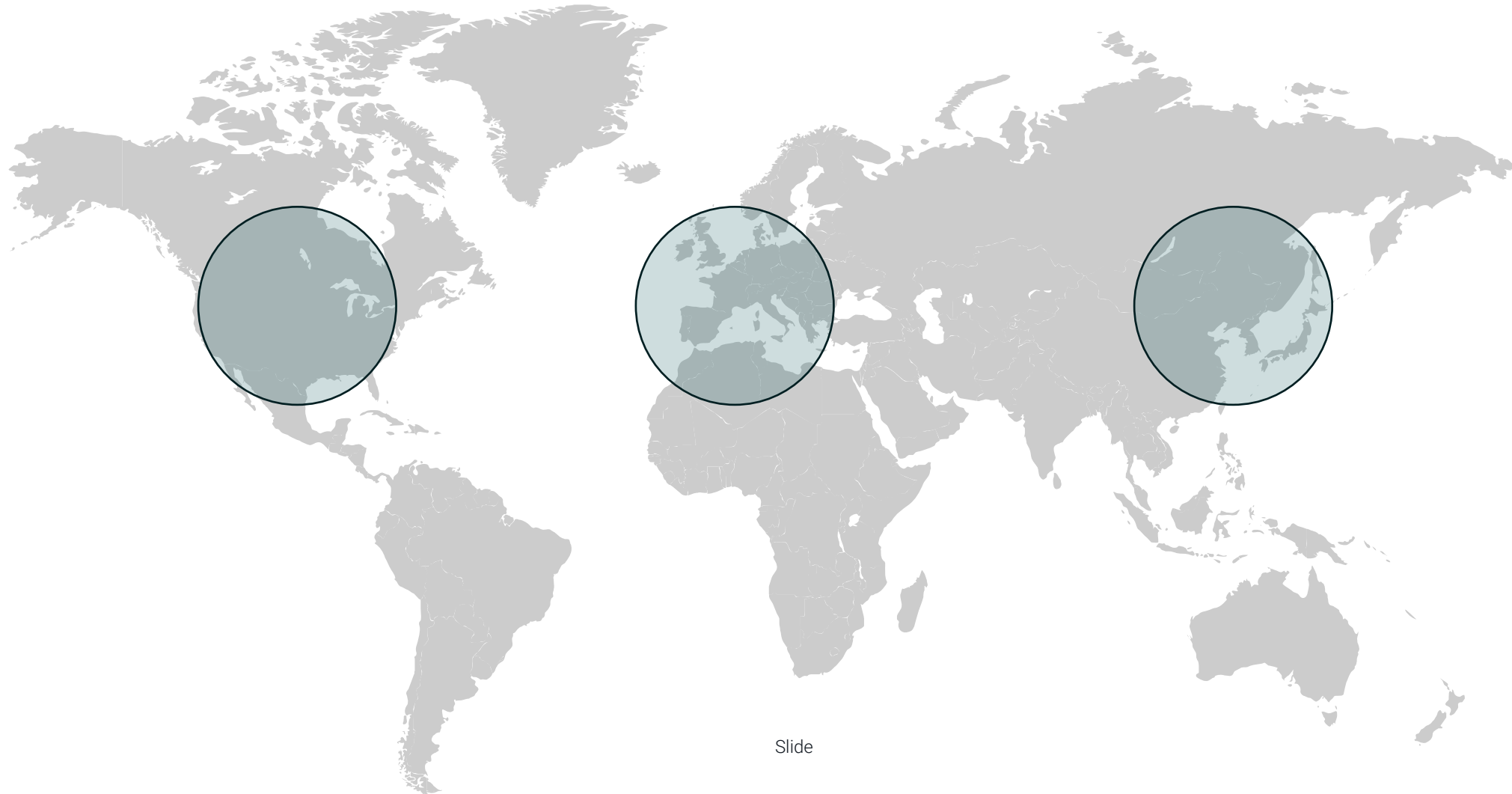


ORR selected as primary endpoint, a surrogate endpoint accepted for accelerated approvals in HCC

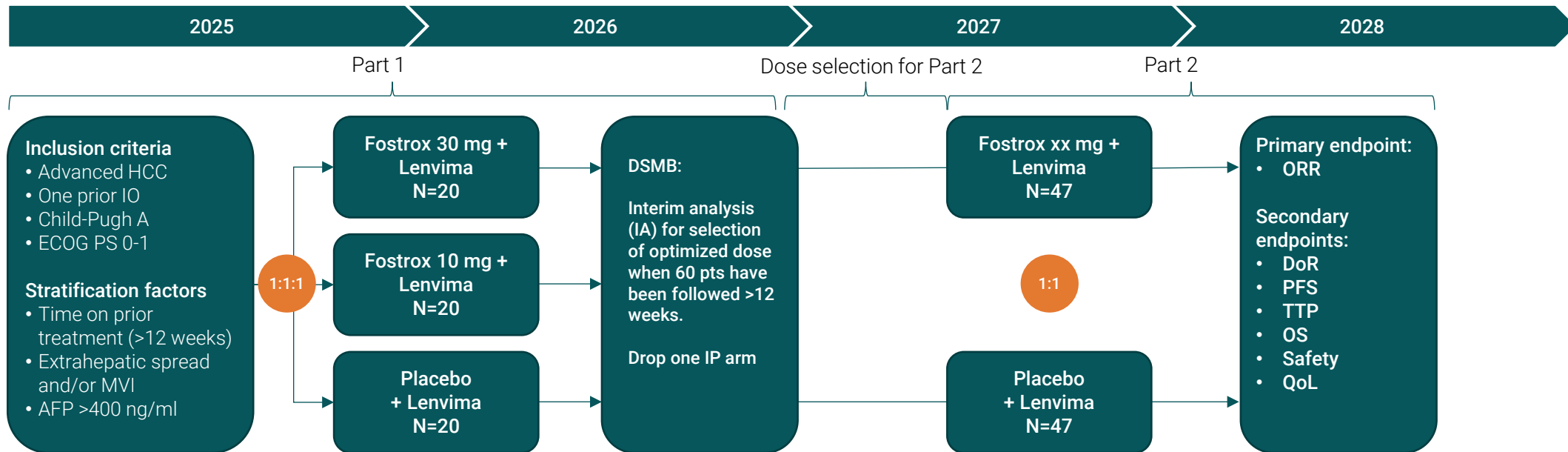


Statistically powered to show a clinically meaningful difference between fostrox + Lenvima vs Lenvima alone

Focus-2: Global phase 2b at 40 sites in 8-9 countries across 3 regions to maximise speed & clinical relevance



FOCuS-2 IND approved; design optimized for potential breakthrough therapy designation & accelerated approval filing



Statistics

- **Total sample size = 154**
- Interim analysis: dose selection by independent board (DSMB)
- Final analysis: Statistical power >80% to detect clinically meaningful difference in ORR

Time estimate and sites:

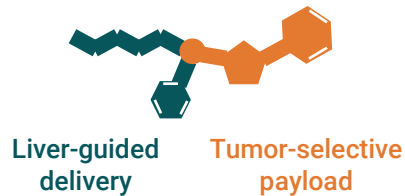
- Assumed enrolment: 12 months in each part (1+2)
- 40 sites in 8-9 countries in the US, Europe and Asia

Fostrox (fostroxacitabine bralpamide)

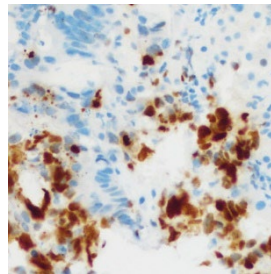
The first oral, liver-targeted treatment tailored for HCC

Selectively kills tumor cells, sparing healthy liver cells³

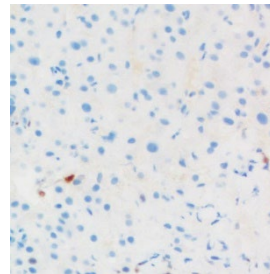
Unique, liver-targeted approach in HCC



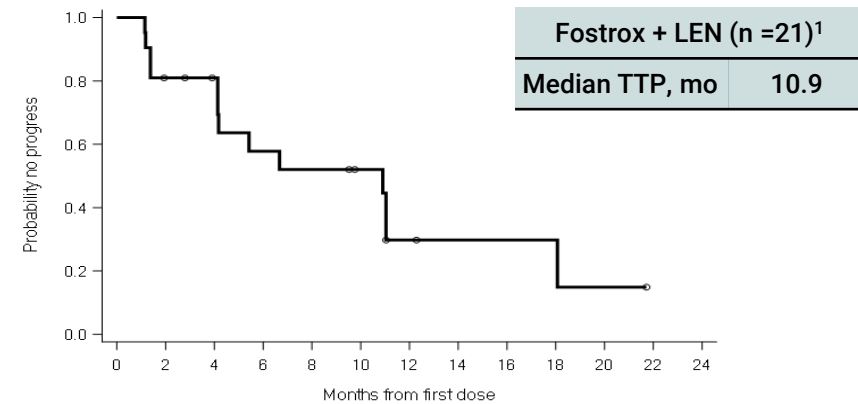
Kills tumor cells



Sparers healthy cells



Efficacy substantially better than current treatments^{1,2}



First-to-market opportunity for fostrox + Lenvima

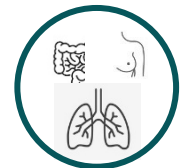


- No 2nd line treatments approved in HCC
- Global phase 2b, designed to enable breakthrough designation & accelerated approval process

In 2nd line HCC market valued >\$2.5bn

>\$2.5bn

2nd line HCC market by 2030, fastest growing cause of cancer death in US⁴



Significant upside in liver metastasis from other solid tumors

¹Chon et al., ESMO, 2024, Poster 986

²Based on data from previous 2L phase 3 HCC studies with Stivarga, Cyramza & Cabometyx and investigator initiated prospective & retrospective 2L studies with Lenvatinib

³Evans et al ASCO GI, 2021

⁴Ma et al., Cancer, June 15, 2019; 2089-2098

Thank You!

