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# SEQUENCING OF HCC TREATMENT

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# DISCLAIMER

## **Please note:**

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# OPTIMIS STUDY: OBSERVATIONAL STUDY OF TACE

## Analysis of **OPTIMIS**:

- An observational study including 977 patients treated with TACE
- Followed or not followed by sorafenib
- Most (n=686, 70%) were BCLC stage B
- 23% (n=227) were BCLC stage C

# OPTIMIS STUDY: OBSERVATIONAL STUDY OF TACE

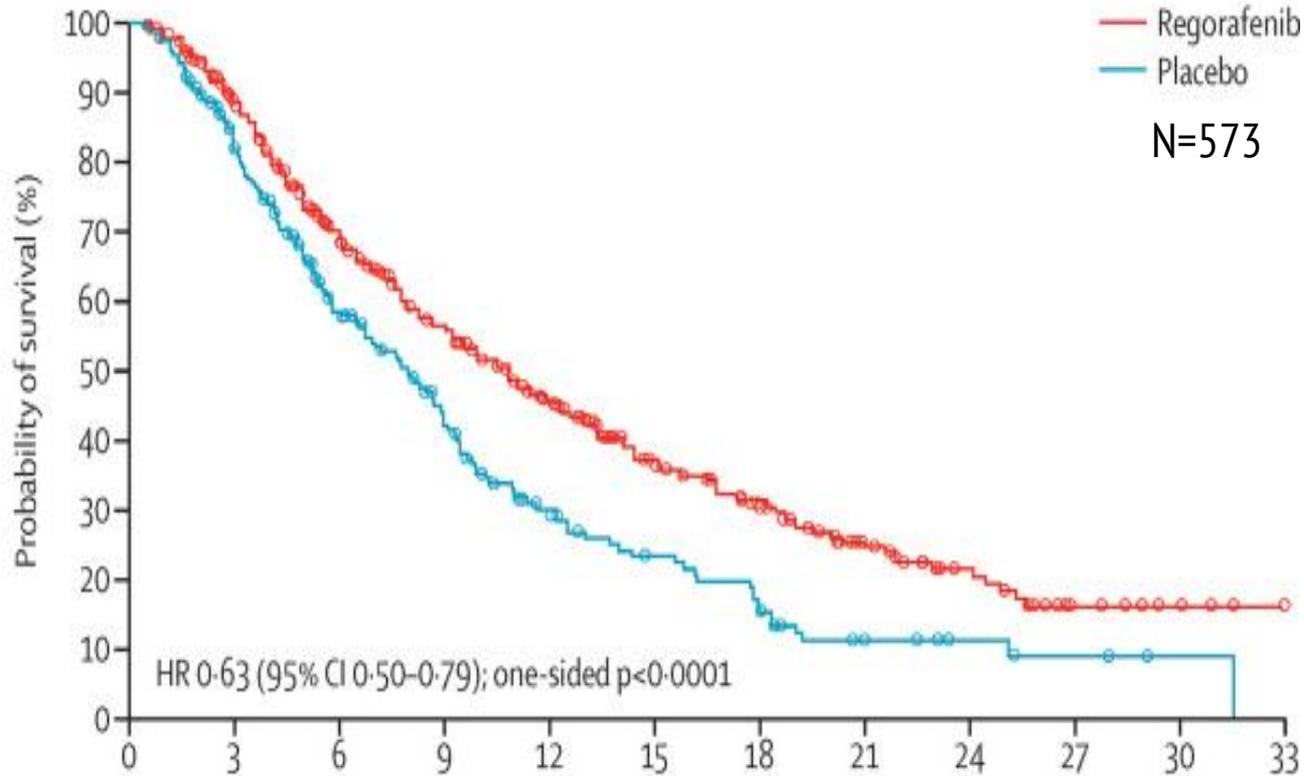
Deterioration	All patients	BCLC B	BCLC C
Any parameter	46%	44%	52%
AST	22%	20%	26%
ALT	15%	14%	15%
Albumin	25%	23%	29%
Bilirubin	14%	12%	19%
INR	11%	10%	15%

In addition to BCLC stage, liver deterioration was also associated with tumor burden (number of lesions and maximum tumor diameter), highlighting the importance of patient selection of TACE versus systemic therapy

# UPDATED ANALYSIS OF RESORCE TRIAL

- RESORCE was a global phase III randomized trial of regorafenib versus placebo in patients who progressed on sorafenib
- Cut-off for primary analysis was February 2016 and cut-off for this updated analysis was January 2017

# PREVIOUSLY REPORTED RESULTS OF RESORCE



Median survival: 10.6 months for regorafenib vs. 7.8 months for placebo

# UPDATED OVERALL SURVIVAL ANALYSIS FROM RESORCE TRIAL

	Primary Analysis		Updated Analysis	
	Regorafenib	Placebo	Regorafenib	Placebo
Patients with event, n(%)	233 (61%)	140 (72%)	290 (77%)	169 (87%)
Median overall survival	10.6 (9.1 – 12.1)	7.8 (6.3 – 8.8)	10.7 (9.1 – 12.2)	7.9 (6.4 – 9.0)
HR (95% CI)	0.62 (0.50 – 0.78)		0.61 (0.50 – 0.75)	
P-value (1-sided)	<0.0001		<0.0001	

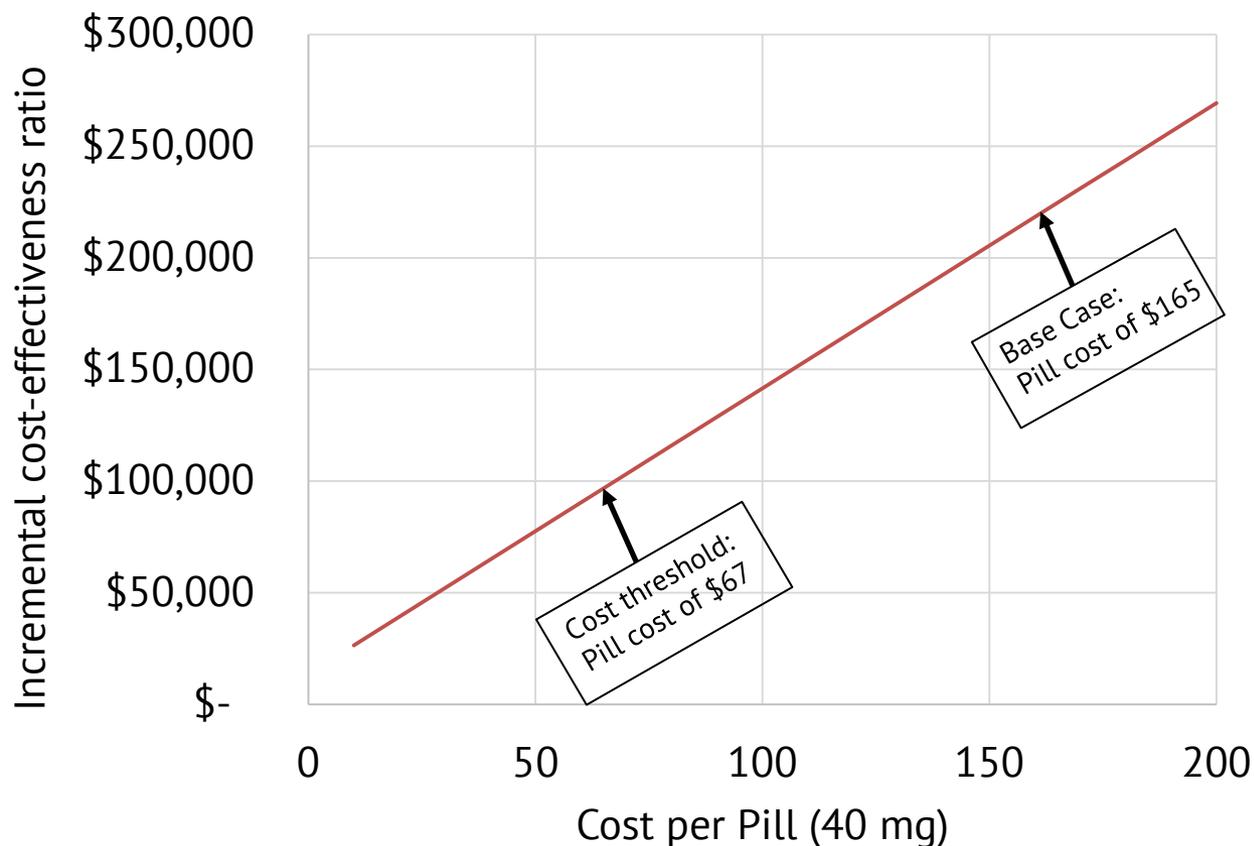
## Overall survival at:

- 12 months: regorafenib 47% versus placebo 28%
- 18 months: regorafenib 32% versus placebo 16%
- 30 months: regorafenib 16% versus placebo 7%

# COST-EFFECTIVENESS OF REGORAFENIB

- Markov model including patients with unresectable HCC and Child A cirrhosis comparing regorafenib versus best supportive care
- Model inputs based on RESORCE Trial and literature review
- Calculated quality adjusted life years (QALY) and incremental cost effectiveness ratio (ICER) for regorafenib versus best supportive care

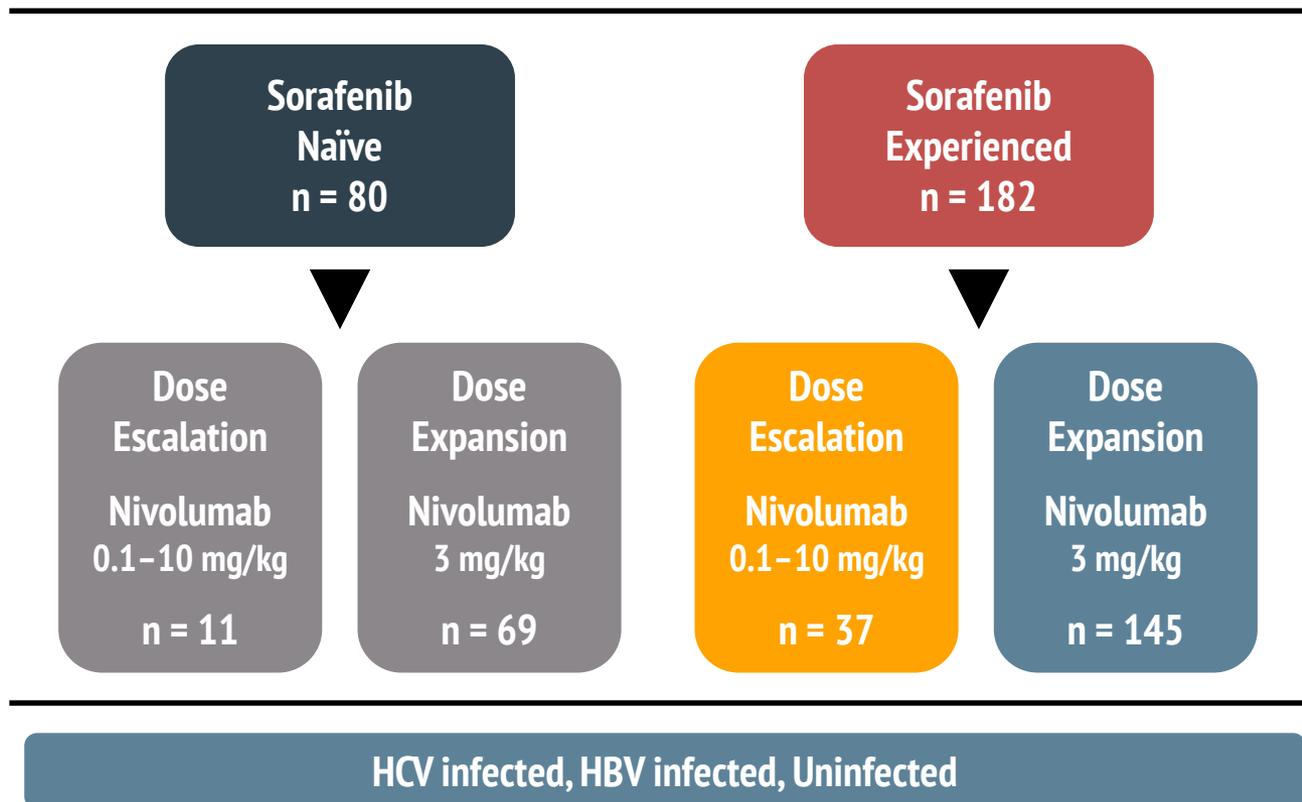
# COST-EFFECTIVENESS OF REGORAFENIB



Regorafenib provided increase of 0.18 QALY at a cost of \$47,112  
ICER was \$224,362 in base case

# CHECKMATE 040 PHASE I/II STUDY

All Patients (N = 262)



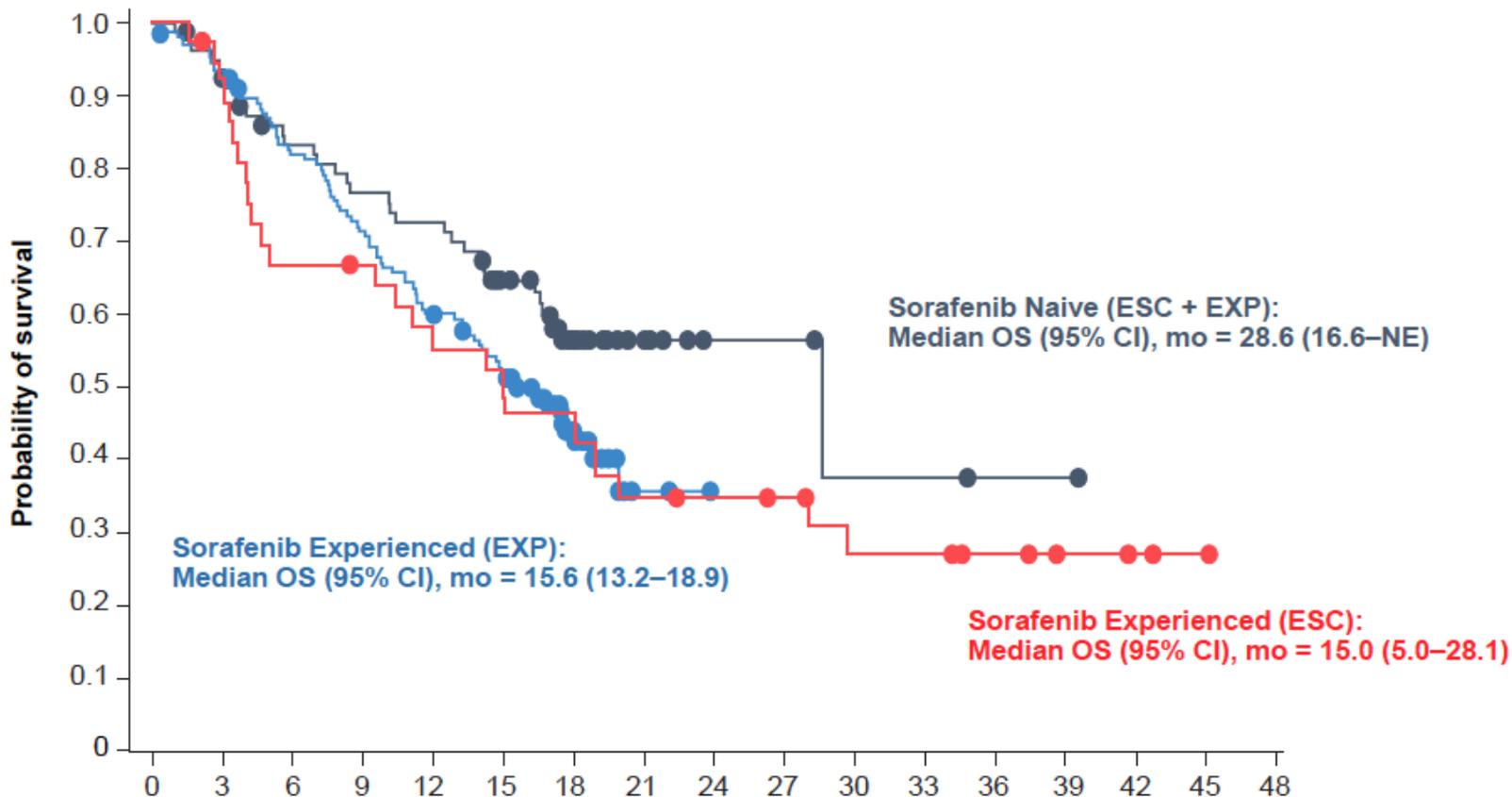
# CHECKMATE 040 PHASE I/II STUDY

Patients, n (%)	Sorafenib Naïve ESC + EXP n = 80*	Sorafenib Experienced ESC n = 37*	Sorafenib Experienced EXP n = 145
<b>Objective response using RECIST v1.1</b>	<b>16 (20)</b>	<b>7 (19)</b>	<b>21 (14)</b>
Complete response	1 (1)	1 (3)	2 (1)
Partial response	15 (19)	6 (16)	19 (13)
Stable disease	25 (31)	12 (32)	60 (41)
Progressive disease	32 (40)	13 (35)	56 (39)
Not evaluable	5 (6)	4 (11)	8 (6)

\*Two sorafenib-naïve patients and 1 sorafenib-experienced (ESC) patient had a best overall response reported as non-CR/non-PD by BICR.

15% of sorafenib progressors and 23% of patients who were intolerant of sorafenib achieved an objective response

# CHECKMATE 040 PHASE I/II STUDY



# BENEFITS OF MULTIDISCIPLINARY CARE

- Retrospective cohort study of 694 patients with HCC who received multidisciplinary care at a single center in Korea between 2005 and 2013
- Compared to matched cohort (n=694) who did not receive multidisciplinary care
  - Matched on age, gender, etiology of liver disease, year of diagnosis, BCLC stage, ALBI grade, and AFP

# BENEFITS OF MULTIDISCIPLINARY CARE IN HCC

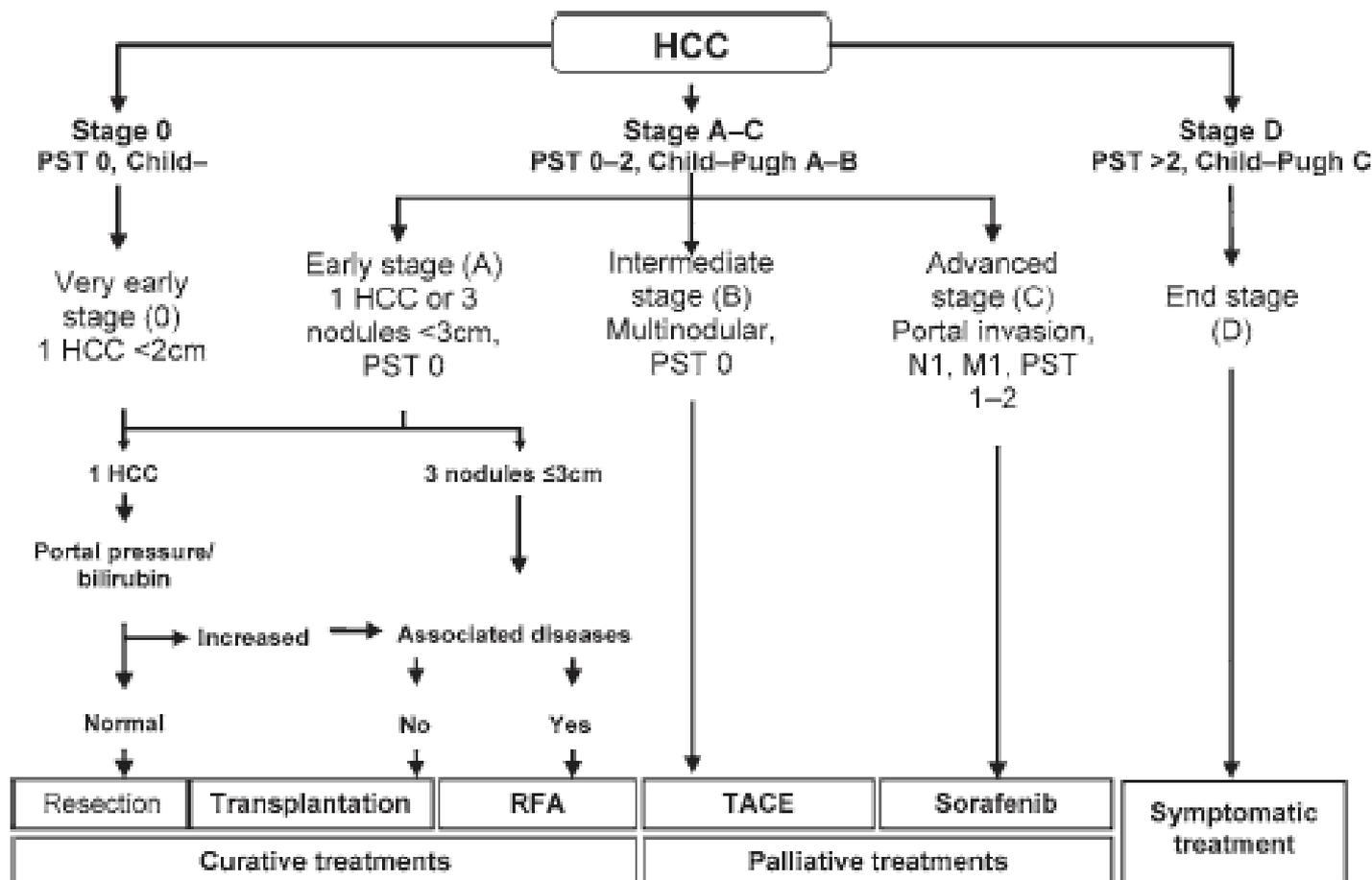
- 5-year survival 73.4% versus 61.9% (HR 0.66, 95% CI 0.56 – 0.78)
- In subgroup analysis, improved survival noted for BCLC stage B (HR 0.44, 95%CI 0.28 – 0.69) and stage C (HR 0.45, 95%CI 0.32 – 0.63) but not for BCLC stage A (HR 0.79, 95%CI 0.61 – 1.04)

# BENEFITS OF MULTIDISCIPLINARY CARE IN HCC

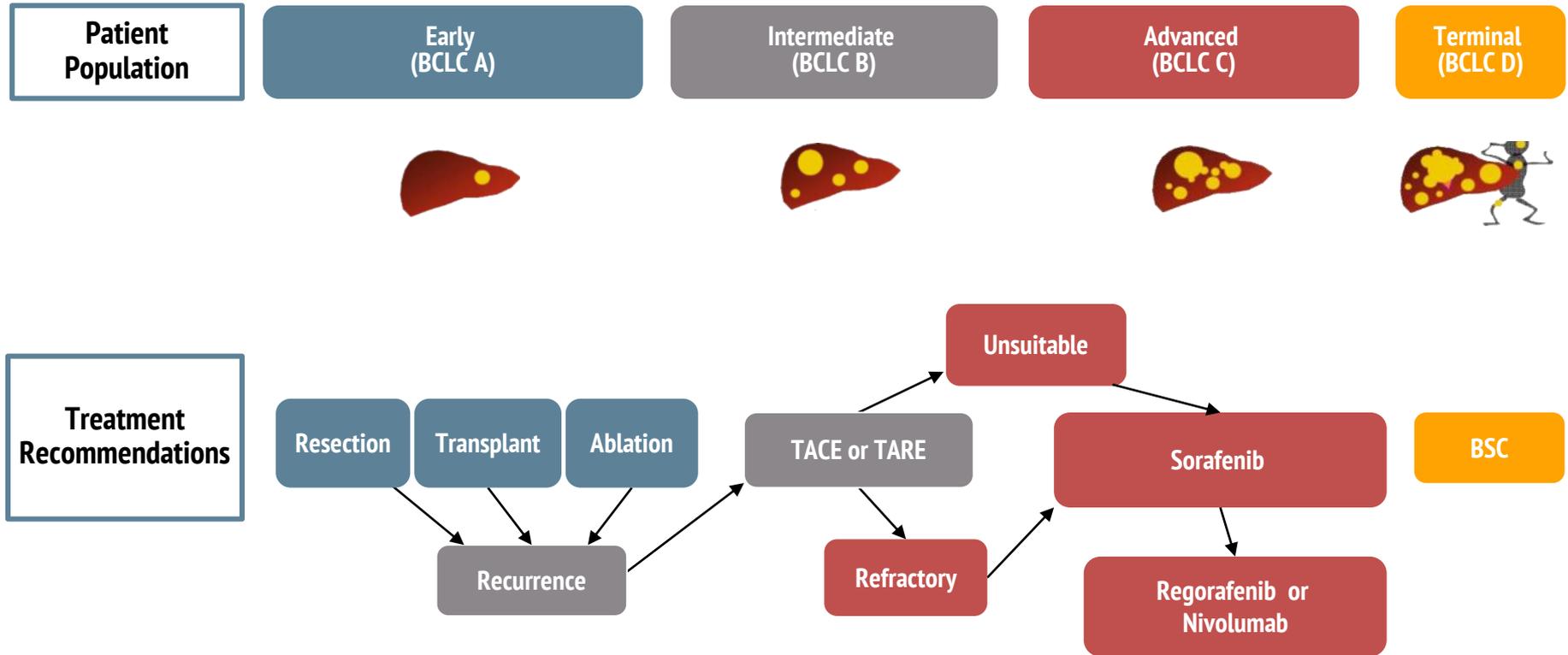
Study	# Patients	Description	Outcomes
Serper 2017 <sup>1</sup>	3988	Multidisciplinary conference	Increased curative treatment and reduced mortality
Yopp 2014 <sup>2</sup>	355	Single day MDT clinic and conference	Improve early detection, curative treatment, time to treatment, survival
Zhang 2013 <sup>3</sup>	343	Single day MDT clinic	Changed imaging/pathology interpretation and therapy plan
Chang 2008 <sup>4</sup>	183	Fluid referrals and joint conference	Improve early detection, curative treatment, and survival

1. Serper M et al. Gastroenterology 2017 Jun;152(8):1954-1964; 2. Yopp AC et al. Ann Surg Oncol 2014 Apr;21(4):1287-95; 3. Zhang J et al. Curr Oncol 2013 Apr;20(2):e123-31; 4. Chang TT et al; HPB (Oxford) 2008;10(6):405-11

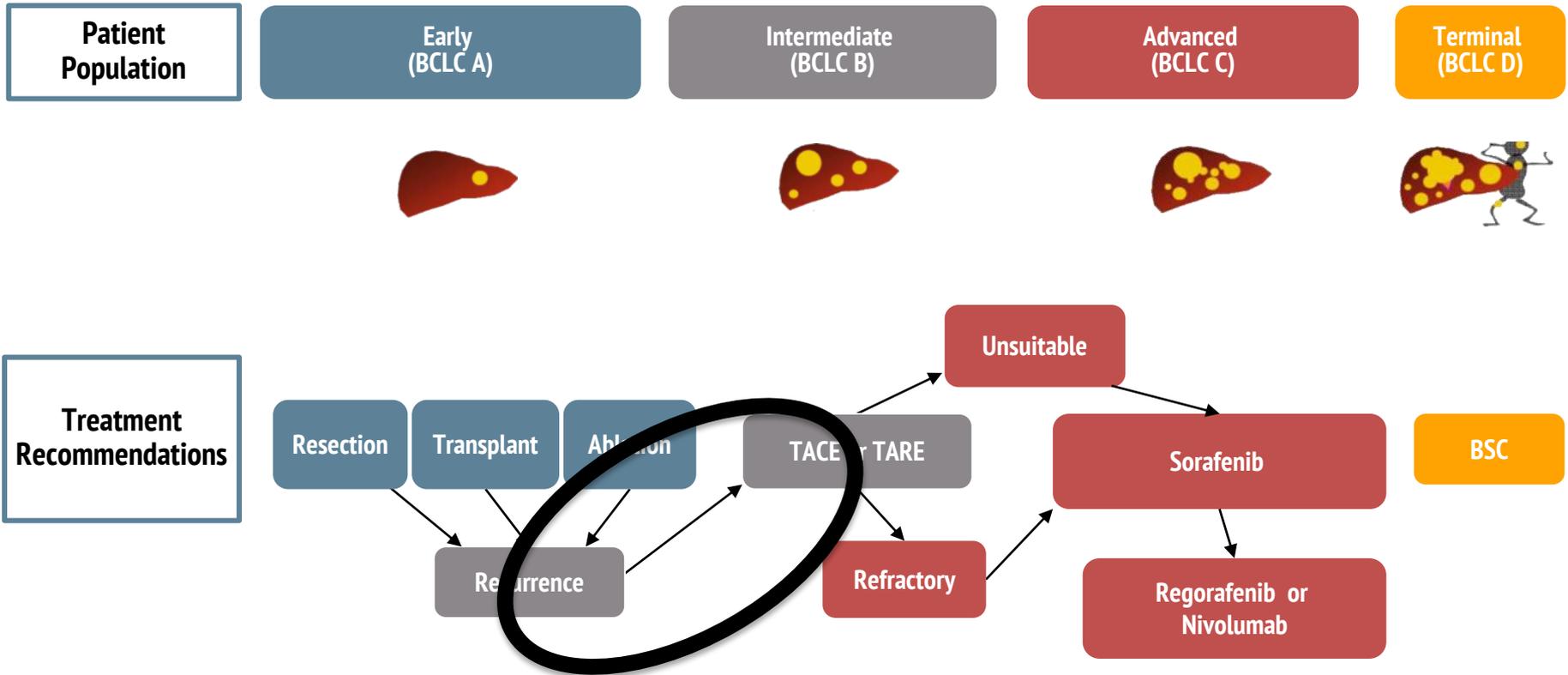
# OLD PERSPECTIVE OF HCC TREATMENT LANDSCAPE



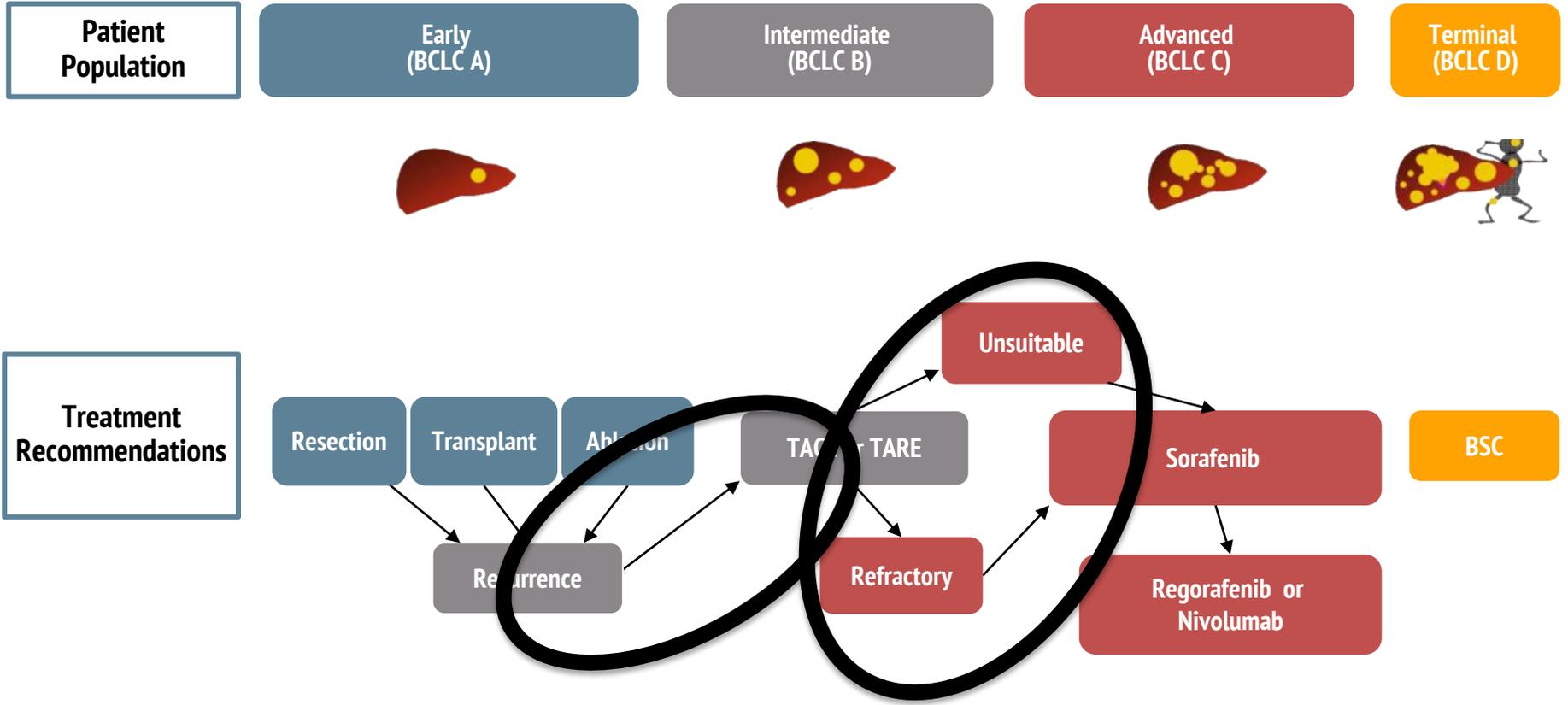
# NEW PERSPECTIVE OF HCC TREATMENT LANDSCAPE



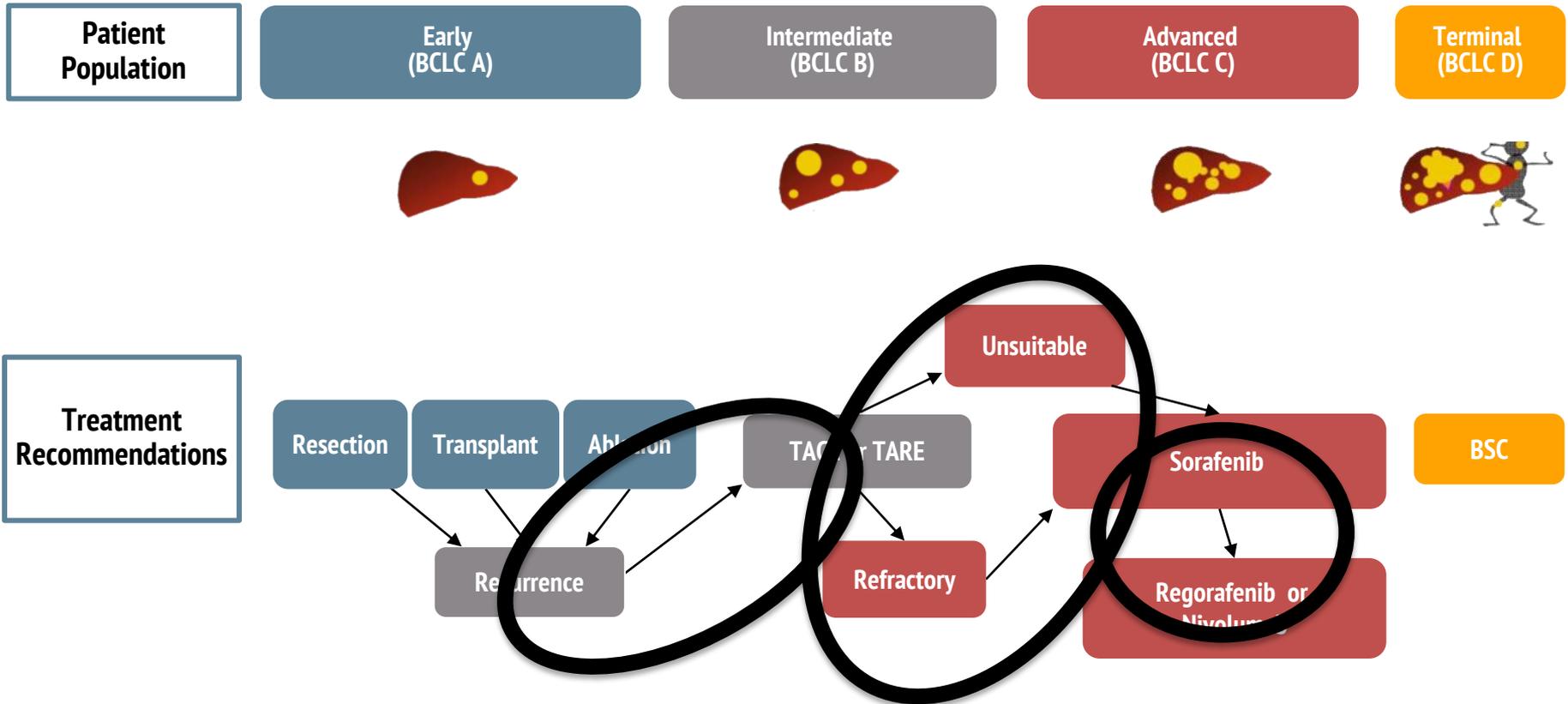
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