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MEETING SUMMARY

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**UPDATE ON
HCC TREATMENT**

DISCLAIMER

Please note:

The views expressed within this presentation are the personal opinion of the author. They do not necessarily represent the views of the author's academic institution or the rest of the HCC CONNECT group

**REACH-2: RAMUCIRUMAB VS PLACEBO AS
2ND LINE TREATMENT IN PATIENTS WITH
ADVANCED HCC AND ELEVATED BASELINE
AFP FOLLOWING 1ST LINE SORAFENIB,**

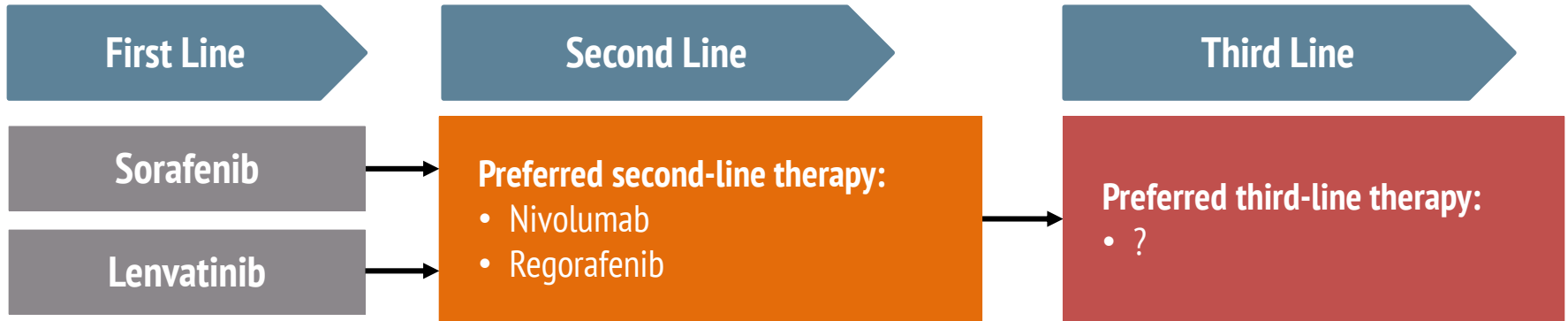
**A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-
CONTROLLED TRIAL**

Abstract O-001

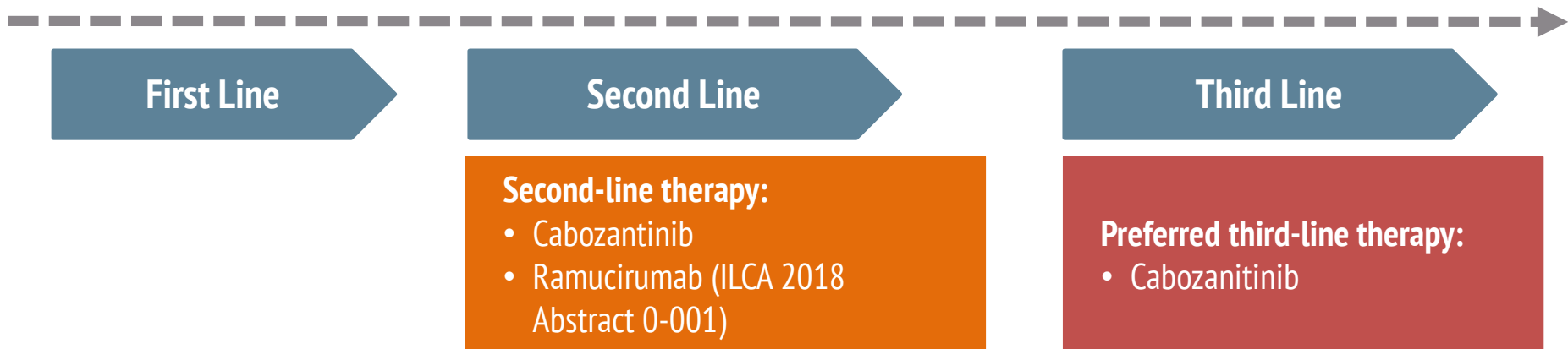
Peter Galle et al.

CURRENT SYSTEMIC THERAPY SEQUENCES IN ADVANCED HCC

FDA approved in the US

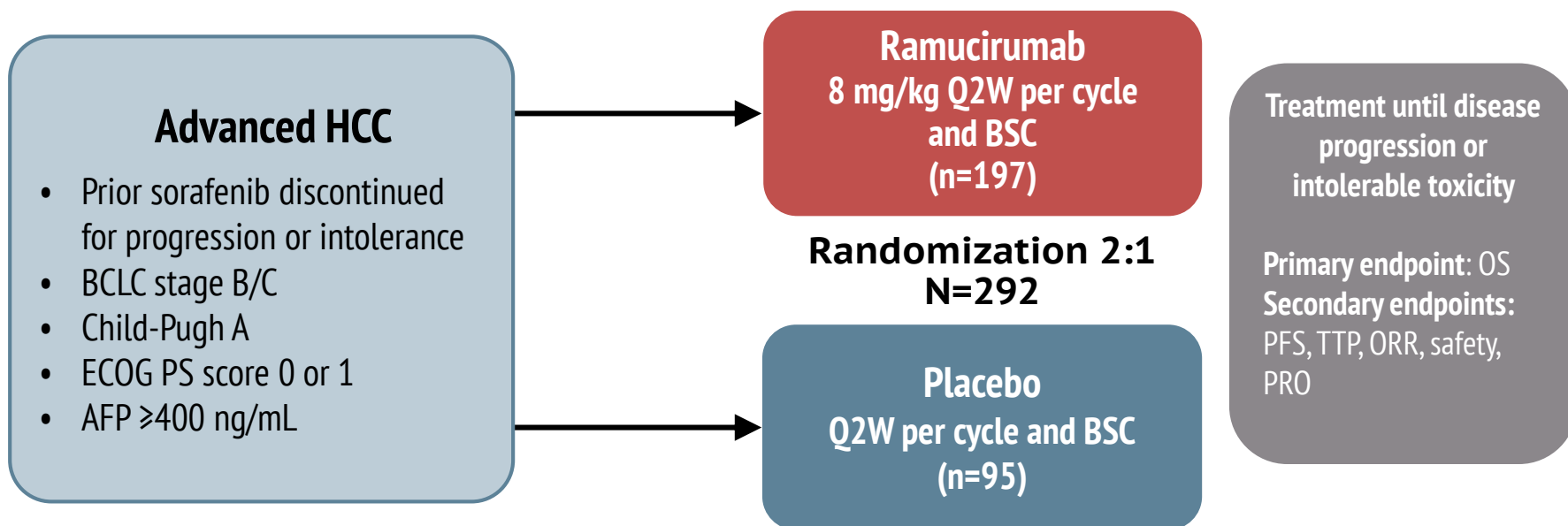


Positive data from randomized phase III studies, under FDA review in the US, pending approval



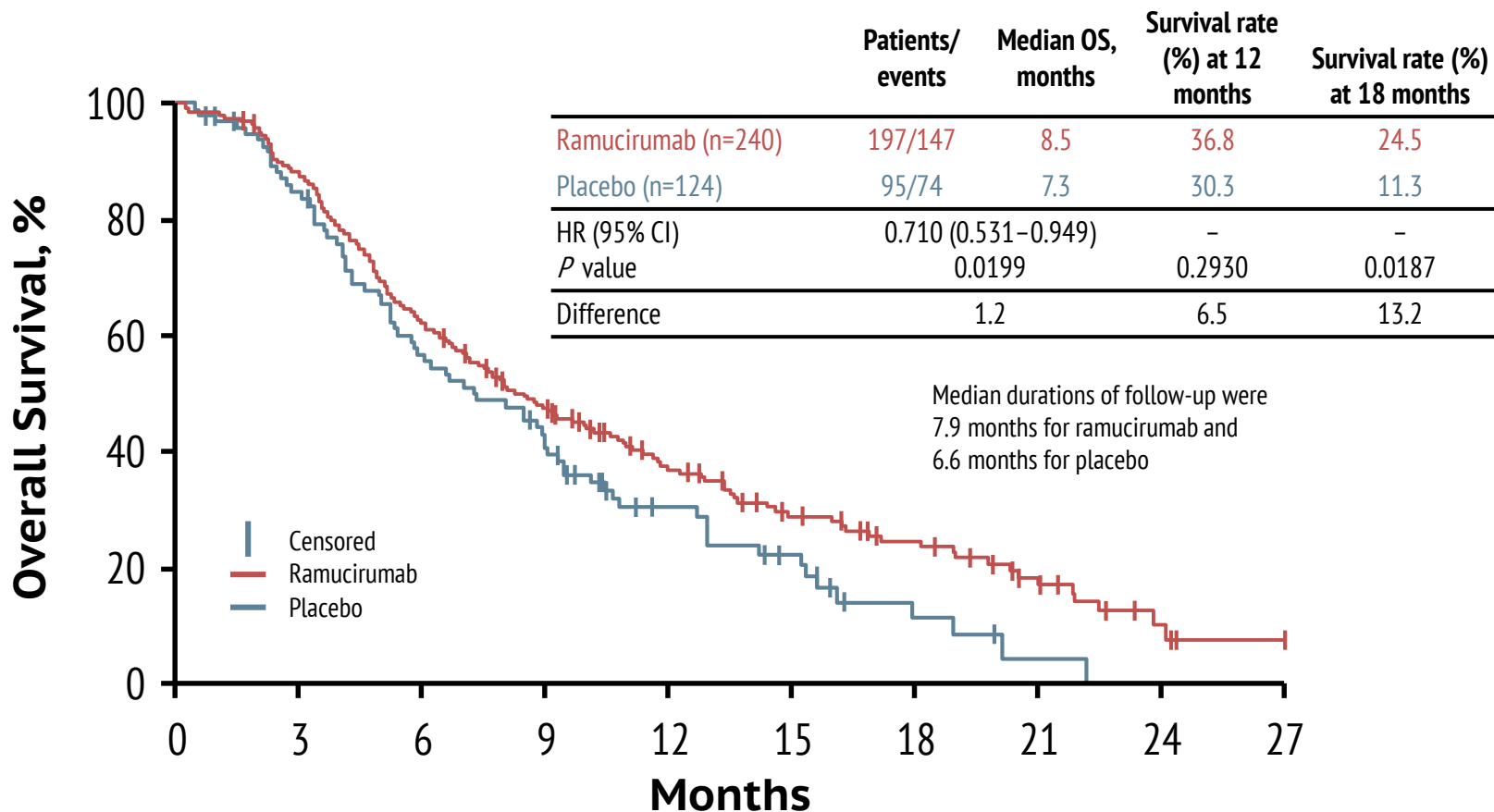
REACH-2 STUDY DESIGN

Main Cohort*



*A second, single arm, open-label cohort of ~44 patients will be enrolled with the same eligibility and treatment as the main cohort except a requirement for prior treatment other than sorafenib and some exclusions of checkpoint inhibitor-related adverse events. The primary objective is safety; secondary objectives include OS, PFS, and PRO. A third randomized cohort of ~65 Chinese patients will be enrolled with the same objectives, eligibility, treatment, and evaluations as the main cohort. Analysis of Open-Label and Chinese cohorts will be independent of the main REACH-2 cohort.

REACH-2: OVERALL SURVIVAL



No. at Risk

| | | | | | | | | | | |
|-------------|-----|-----|-----|----|----|----|----|----|---|---|
| Ramucirumab | 197 | 172 | 121 | 87 | 56 | 37 | 26 | 14 | 4 | 0 |
| Placebo | 95 | 76 | 50 | 36 | 19 | 12 | 4 | 1 | 0 | 0 |

REACH-2: PFS AND ORR

| n (%) except where indicated | Ramucirumab (n=197) | Placebo (n=95) | P Value |
|------------------------------|------------------------|-------------------|---------|
| Median PFS, months | 2.8 | 1.6 | <0.0001 |
| HR, 95% CI | 0.452 (0.339–0.603) | | |
| ORR (CR+PR) | 9 (4.6) | 1 (1.1) | 0.1697 |
| 95% CI | 1.7-7.5 | 0.0-3.1 | |
| DCR (CR+PR+SD) | 118 (59.9) | 37 (38.9) | 0.0006 |
| 95% CI | 53.1–66.7 | 29.1–48.8 | |
| Best overall response | | | |
| CR | 0 (0.0) | 0 (0.0) | – |
| PR | 9 (4.6) | 1 (1.1) | – |
| SD | 109 (55.3) | 36 (37.9) | – |
| PD | 66 (33.5) | 48 (50.5) | – |
| Not evaluable | 13 (6.6) | 10 (10.5) | – |

CI, confidence interval; CR, complete response; DCR, disease control rate; HR, hazard ratio; ORR, overall response rate; PD, progressive disease; PFS, progression free survival; PR, partial response; SD, stable disease. Zhu AX, et al. Presented at: ASCO. 2018 (abstr 4003).

Galle P, et al. Presented at: ILCA 2018 (abstr 0-001)

REACH-2: ADVERSE EVENTS

| n (%) | Ramucirumab (n=197) | | Placebo (n=95) | |
|--|------------------------|------------|-------------------|-----------|
| Discontinuation due to treatment-related AE* | 21 (10.7) | | 3 (3.2) | |
| Dose adjustment [†] due to AE | 68 (34.5) | | 13 (13.7) | |
| Deaths due to treatment-related AE* | 3 (1.5) | | 0 | |
| TEAEs in ≥15% patients in ramucirumab arm | Any Grade | Grade ≥3 | Any Grade | Grade ≥3 |
| Patients with ≥1 TEAE | 191 (97.0) | 116 (58.9) | 82 (86.3) | 42 (44.3) |
| Fatigue | 54 (27.4) | 7 (3.6) | 16 (16.8) | 3 (3.2) |
| Peripheral edema | 50 (25.4) | 3 (1.5) | 13 (13.7) | 0 |
| Hypertension | 48 (24.4) | 24 (12.2) | 12 (12.6) | 5 (5.3) |
| Decreased appetite | 46 (23.4) | 3 (1.5) | 19 (20.0) | 1 (1.1) |
| Proteinuria | 40 (20.3) | 4 (2.0) | 4 (4.2) | 0 |
| Abdominal pain | 39 (19.8) | 3 (1.5) | 12 (12.6) | 2 (2.1) |
| Nausea | 37 (18.8) | 0 | 11 (11.6) | 0 |
| Ascites | 35 (17.8) | 8 (4.1) | 7 (7.4) | 2 (2.1) |
| Diarrhea | 32 (16.2) | 0 | 14 (14.7) | 1 (1.1) |

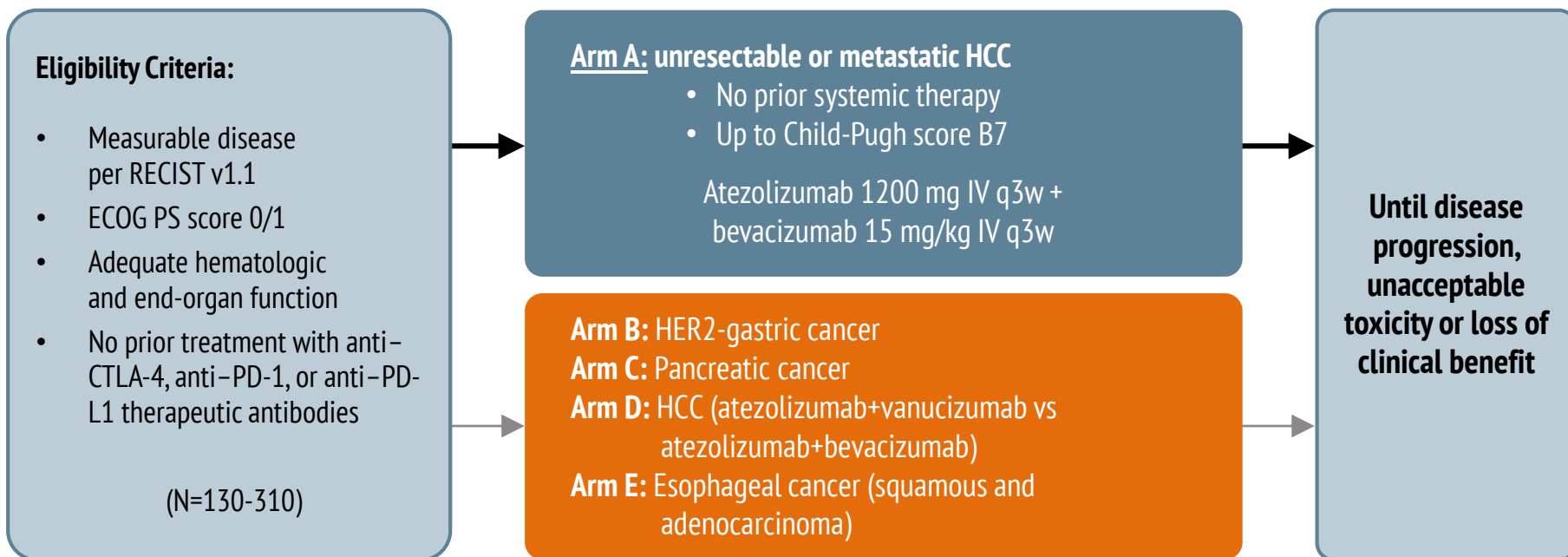
*Related per investigator judgment; [†]Dose adjustment = dose delay, dose reduction, and dose omission.

**PRELIMINARY SAFETY AND CLINICAL
ACTIVITY RESULTS FROM A
PHASE 1B STUDY OF ATEZOLIZUMAB +
BEVACIZUMAB IN HCC**

Abstract O-011

Aiwu Ruth He et al.

PHASE IB GO30140 STUDY (NCT02715531)



- **Primary endpoints:** Safety and tolerability
- **Key secondary endpoints:** ORR, DOR and PFS per RECIST v1.1 and HCC mRECIST per IRF, and OS

At clinical data cut-off (January 11, 2018), 43 patients were evaluable for safety and 23 patients were evaluable for efficacy with a minimum follow-up of 16 weeks

EFFICACY RESULTS BY INV- AND IRF- ASSESSED RECIST v1.1

| | INV-Assessed (n=23) | IRF-Assessed (n=23) |
|----------------------------|-----------------------------|-----------------------------|
| ORR, n (%) | 14 (61) | 15 (65) |
| CR | 0 | 1 (4) |
| PR | 14 (61) | 14 (61) |
| SD, n (%) | 5 (22) | 7 (30) |
| PD, n (%) | 4 (17) | 1 (4) |
| DCR, n (%) | | |
| CR + PR + SD | 19 (83) | 22 (96) |
| CR + PR + SD ≥6 months | 15 (65) | 16 (70) |
| Median DOR, months | Not reached (1.7+ to 14.0+) | Not reached (1.9+ to 14.0+) |
| Median PFS (range), months | Not reached (1.7 to 17.0+) | Not reached (1.9 to 17.0+) |
| 6-month PFS | 65% | 65% |
| Median OS (range), months | Not reached (3.5+ to 17.3+) | |
| 6-month OS | 86% | |

Clinical cut-off date: January 11, 2018

CONCLUSIONS

- The combination of atezolizumab + bevacizumab was safe and well tolerated
 - No new safety signals were identified beyond the established safety profile for each single agent
- The combination of atezolizumab + bevacizumab showed promising early efficacy
 - The confirmed ORR was 61% by INV assessment and 65% by IRF assessment (both per RECIST v1.1)
 - Responses were observed in all clinically relevant patient subgroups, including etiology, geographic region and AFP level at baseline
- Responses were durable, with 10 responses ongoing for ≥ 6 months and 3 of these ongoing for ≥ 1 year per INV assessment (median follow-up: 10.3 months)
 - Median OS, PFS and DOR had not been reached at the clinical cut-off date
- The promising clinical activity of atezolizumab + bevacizumab supports further investigation as first-line treatment option for patients with advanced HCC
 - The US FDA has granted Breakthrough Therapy Designation for atezolizumab in combination with bevacizumab as a first-line treatment for patients with advanced or metastatic HCC

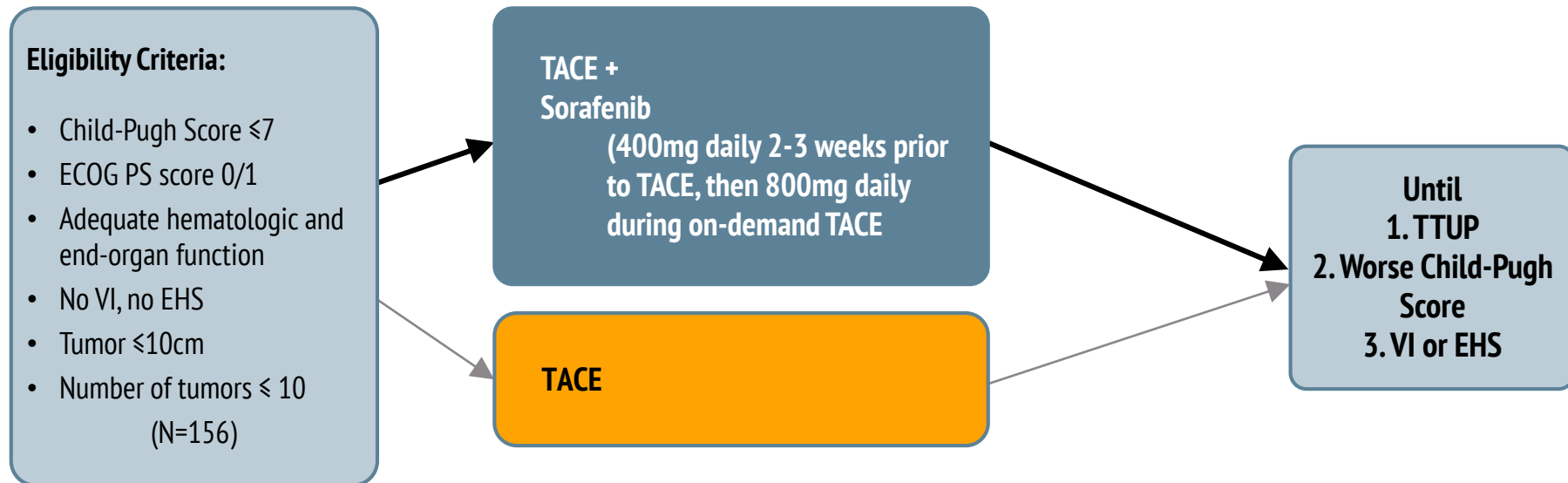
TACTICS: TACE THERAPY IN COMBINATION WITH SORAFENIB AS COMPARED WITH TACE ALONE IN PATIENTS WITH HCC,

A RANDOMIZED, OPEN LABEL, MULTICENTER, PHASE 2
TRIAL (NCT01217034)

Abstract O-004

Kazuomi Ueshima et al. and TACTICS Study
Group

TACTICS: STUDY DESIGN



- **Primary endpoints:** PFS and OS
(PFS is expected to 40% extension from 18 months (control arm) to 25 months, target HR was 0.71, with a power of 0.80)
- **Key secondary endpoints:** time to progression and safety

Stratification by institution, Milan criteria (in or out), and number of previous TACE (0 or 1-2)

TACTICS: RESULTS

| Median survival and time to progression (months) | TACE | TACE + Sorafenib | HR (95% CI) | <i>P</i> value |
|--|-------------|------------------|---------------------|----------------|
| PFS | 13.5 | 25.2 | 0.59 (0.41–0.87) | 0.006 |
| OS | Not reached | Not reached | | |
| TTUP | 20.6 | 26.7 | 0.57 (0.35–0.92) | 0.02 |

TACTICS: CONCLUSION

- Sorafenib in combination with TACE significantly improved PFS over TACE alone in patients with unresectable HCC
- Adverse events were consistent with the known safety profile with previous TACE combination trials



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