

A phase 1/2 multi-center study of ABI-009 (*nab*-sirolimus) combined with FOLFOX and bevacizumab as first-line (1L) therapy in patients (pts) with metastatic colorectal cancer (mCRC) with or without PTEN loss

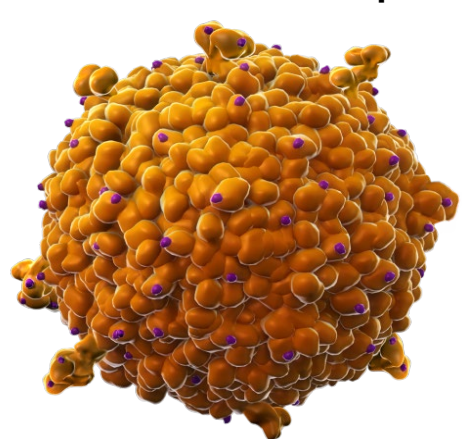
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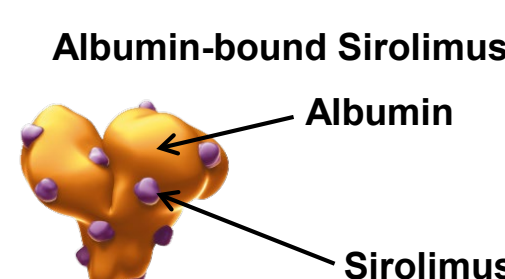
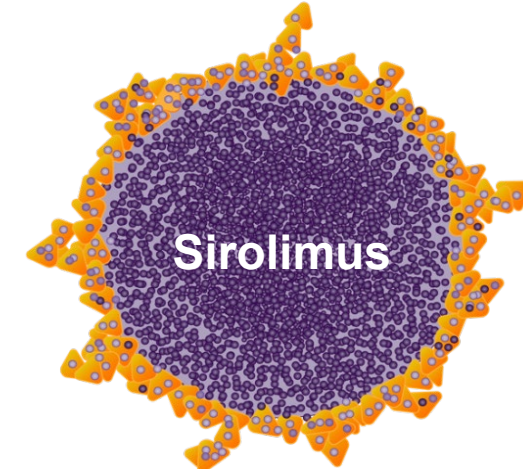
INTRODUCTION

- Colorectal cancer is the 3rd most common cancer, with a 5-year survival of 14% for pts with mCRC.¹
- FOLFOX + bevacizumab is a standard of care (SOC) for the 1st-line treatment of pts with mCRC.² The median PFS is 9-11 months, and ORR is ~50% in most studies.³⁻⁵
 - Improvement in reducing tumor burden and time to progression in the 1st-line setting is still needed.
- The mTOR oncogenic pathways (PI3K/AKT/mTOR) are frequently dysregulated in human cancers, including colorectal cancer.⁶
- A recent phase 1/2 study with everolimus, an mTOR inhibitor, plus mFOLFOX6 + bevacizumab for the 1st-line treatment of mCRC showed promising results (NCT01047293):⁷
 - 6-month PFS rate was 96% at the maximum-tolerated dose (MTD)
 - ORR: 53% for all pts and 86% in pts with PTEN loss
- ABI-009 is a novel injectable albumin-bound sirolimus nanoparticle (*nab*[®]-sirolimus, *nab*[®]-rapamycin) with a mean particle size of ~100 nm and that has demonstrated both a favorable safety profile and evidence of efficacy in patients with metastatic solid tumors (NCT00635284).⁸

nab-Sirolimus Nanoparticles



Cross Section



- ABI-009 IV produced significantly greater antitumor activity and prolonged survival vs with equal weekly dosing of oral rapamycin and oral everolimus in a tumor xenograft model.⁹
- This phase 1/2 study investigates ABI-009 given IV with mFOLFOX6 + bevacizumab (an SOC) as 1st-line treatment for mCRC with respect to PTEN status.

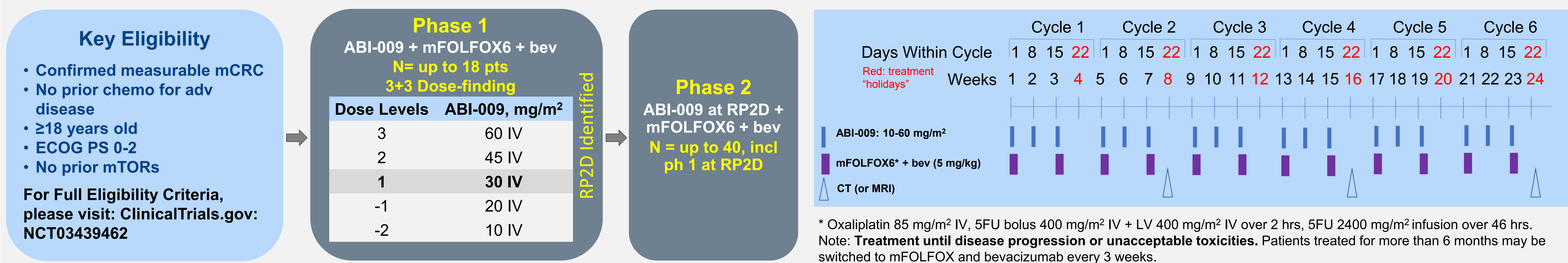
References

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METHODS

- The goal of this phase 1/2 multi-center study is to evaluate if ABI-009 + a standard of care A) is safe and efficacious and B) may have improved benefit in patients with PTEN loss.

Study Design



Primary Endpoints

- Phase 1:** MTD and dose-limiting toxicities of ABI-009 in combination with mFOLFOX6 and bevacizumab
- Phase 2:** Progression-free rate at 6 months

Secondary Endpoints

- Phase 1:**
 - Safety profile of dose cohorts analyzed separately and together
 - Disease control rate assessed by investigators, all pts and per dose cohorts
- Phase 2:** data both from phase 1 and 2
 - Median progression-free survival, overall response rate, duration of response, and disease control rate in all pts and based on PTEN status
 - Progression-free rate at 6 months based on PTEN status
 - Safety at the recommended phase 2 dose (RP2D)

Exploratory Endpoints

- Biomarkers:**
 - Pre-treatment metastatic tumor biopsy:** baseline biomarker and mutational analysis for PTEN loss, PIK3CA and Ras mutational status, and mTOR pathway markers.
 - Blood samples:** cell-free plasma DNA collection (pretreatment, C3 D1, C6 D1, and end treatment) to assess changes over time as response to therapy.

Dose Modifications

- ABI-009: max 2 dose level reductions are allowed based on a predefined guideline.
- Modified FOLFOX6: Dose modifications of each agent in FOLFOX may be made independently based on specific toxicities observed and should follow the package insert.
- Bevacizumab (5 mg/kg) may be skipped or discontinued for toxicities, but not reduced.

Key Safety and Efficacy Assessments

- All AEs will be collected throughout the study until 28 days after the last dose of ABI-009. AEs will be graded by NCI CTCAE v5.0.
- Tumor response assessed by CT per RECIST v1.1 until disease progression or unacceptable toxicity at:
 - baseline
 - every 8 weeks for the first year
 - every 12 weeks thereafter.
- Post-treatment follow-up every 12 weeks until death, withdrawal of consent, or the study closes.

ANTICIPATED CONCLUSIONS

- This trial may help determine whether ABI-009 IV plus a standard of care mFOLFOX6 + bevacizumab is an effective and safe treatment option for pts with mCRC with respect to PTEN status.
- The trial is currently enrolling patients to cohort 1 in the phase 1 dose-finding portion of the study.

Acknowledgements

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