

Regulatory Update Primary Sclerosing Cholangitis

Y. Veronica Pei, MD, MEd, MPH
PSC Forum
Paris, France
April 11, 2018

Disclaimer

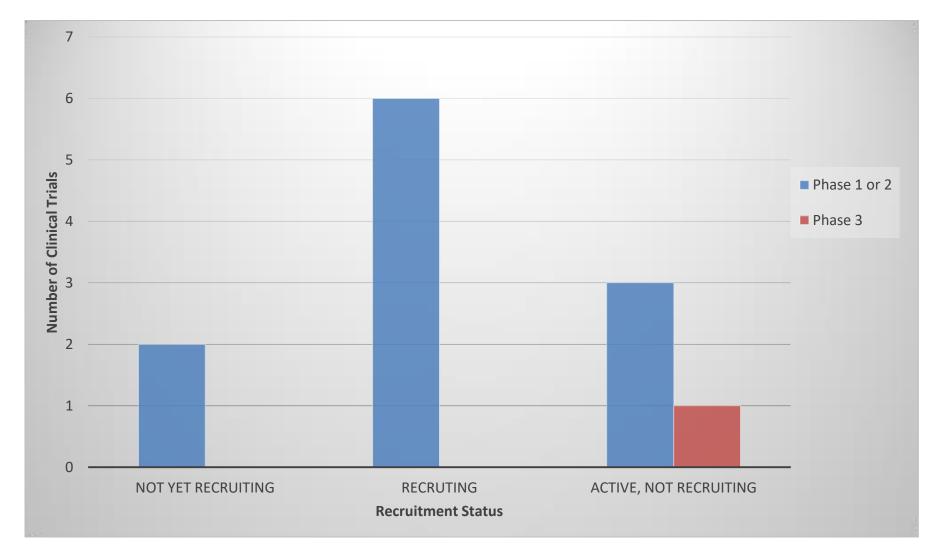


 The views and opinions expressed here are my own and do not represent official FDA position.

I have nothing to disclose

Current U.S. Drug/Biologic Interventional Clinical Trials for PSC (April 2018)





	Intervention	Phase	PSC Population	Primary Outcome/Endpoint(s)*
Recruiting	Drug: DUR-928	2	Adults (18-80 yr) N ≈ 40	% change ALP after 4 weeks
	Drug: HTD 1801	2	Adults (18-75 yr) N ≈ 90	Δ ALP after 6 weeks
	Drug: Curcumin	1/2	Adults (18-75 yr) N ≈ 15	40% Reduction in ALP after 12 weeks ALP <1.5 × ULN
	Drug: BTT1023	2	Adults (18-75 yr) N ≈ 41	↓ ALP after 99 days
	Drug: Vancomycin	1	Adults & children ≤ 40 yr N ≈ 200	Benefit (blood tests, imaging studies and/or liver biopsy changes) after 3 months
	Drug: Mitomycin	2	≥18 yr N ≈ 130	Therapeutic Effect on Disease Prognosis as Determined by the Mayo Natural History Model for PBC at 2 years
Active Not Recruiting	Drug: Vancomycin	3	≥1 yr N ≈ 40	Benefit (blood tests, imaging studies and/or liver biopsy changes) after 3 months
	Drug: GS-9674	2	Adults (18-75 yr) N ≈ 52	Safety and tolerability after 12 weeks
	Drug: OCA	2	Adults (18-75 yr) N ≈ 77	Δ ALP after 24 weeks
	Biologic: Fecal Microbiota	1/2	Adults (≥18 yr) N≈10	Improvement in serum alkaline phosphatase, total bilirubin, alanine aminotransferase (ALT), or aspartate aminotransferase (AST) by 50 % or greater after 12 weeks
Not Yet Recruiting	Drug: Hymecromone	1/2	Adults (≥18 yr) N ≈ 10	Safety and tolerability (6 months on treatment and 6 months post treatment)
	Biologic: Orbcel	1/2	Adults (18-70 yr) N ≈ 56	% change and duration of change in ALP after 56 days
https://clinicaltrials.gov/ct2/home; Accessed on April 4, 2018 * Reported endpoints have not been accepted by the FDA to support a marketing application.				

Types of Endpoints



- Clinical Benefit Regular Approval
 - How patients feels, functions or survives
- Validated Surrogate Regular Approval
 - Validated by evidence based justification (e.g., randomized controlled clinical trials) that it can be relied upon to predict, or correlate with clinical benefit
- Surrogate Accelerated Approval
 - Reasonably likely to predict clinical benefit
 - Determination made on a case-by-case basis by the Agency
 - Requires confirmatory trial(s) that verifies clinical benefit (ongoing at the time of approval)

Surrogate Endpoint For PSC



• There is no <u>single</u> biomarker that is a clear standalone candidate surrogate that is reasonably likely to predict clinical benefit at this time.

 Choice of surrogate endpoint should depend on the mechanism of action.

 Consideration should be given to developing a composite of multiple biomarkers.

