



# PSC Project and working group updates

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# PSC Inclusion/ Exclusion Criteria Working Group

## Goal:

- examine inclusion/ exclusion criteria for PSC clinical trials
- consider the evidence in support of inclusion/ exclusion criteria
- recommend standardized criteria when appropriate



### INTERCEPT: STUDY INCLUSION/EXCLUSION CRITERIA

#### **Population**

- PSC specific considerations
  - UDCA
  - IBD (+medications)
  - Diagnosis/Secondary cholangitis



#### **Endpoint**

- Population enrichment
  - Biochemistry?
  - Outcomes?
- Intended indication/relevance



#### **Investigational treatment**

- Mechanism of action
- Drug-specific considerations or limitations



#### **PSC SPECIFIC CONSIDERATIONS**

#### Orphan population

Selecting appropriate endpoints and populations which will still allow for practical trial enrollment

#### Co-morbidities

Include or exclude?

Severity?

Clarity to assess the study endpoint may limit applicability of results?

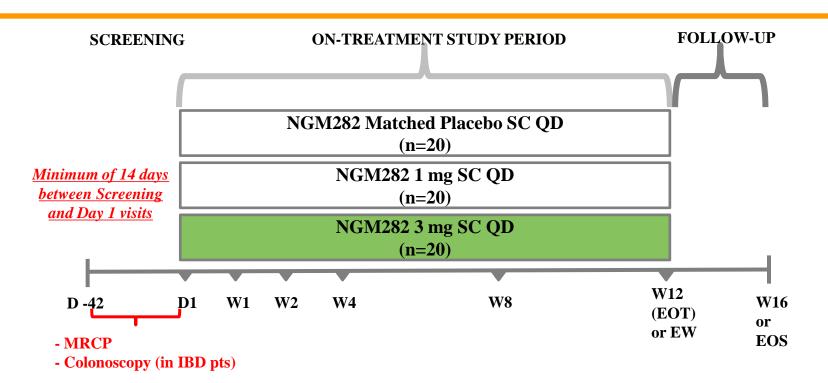
#### UDCA treatment

Not approved but commonly used

- Strictures
- Cholangiocarcinoma



## NGM282 PHASE 2A STUDY IN PSC: **OVERVIEW OF STUDY DESIGN**

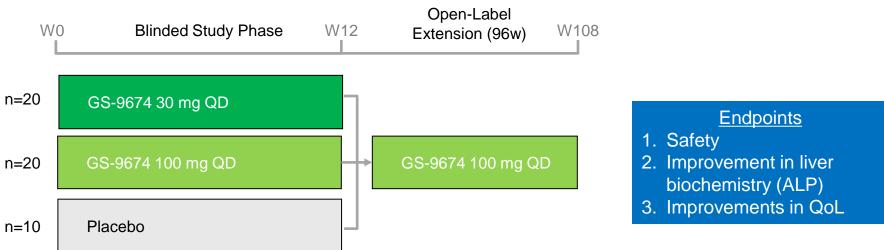


- Proof of concept study to evaluate safety, biologic activity and PK
- Primary endpoint was change in ALP from baseline
- Stratified by UDCA use at Baseline
- 35 sites in the US, Netherlands, UK and France
- 95 subjects screened
  - 62 subjects randomized and treated
  - 33 screen failures (35% screen failure rate)
- First patient enrolled March 2016, last patient enrolled Feb 2017 (~10.5m)

c/o NGM



### GS-9674 for PSC: Phase 2 Study Design



**Purpose:** To determine the safety, tolerability, and efficacy of GS-9674 in

patients with PSC.

**Population:** Non-cirrhotic PSC (cholangiography)

**ALP > 1.67x ULN** 

PSC Forum/Apr 2018 Gilead



## **IPSCSG**

Host centre: Amsterdam

Academic lead (Beuers/Poinsioen)

Working groups: clinical, cancer, definitions



## **IPSCSG Definitions**

- Delphi process
- Ongoing
- Goal is a manuscript that is a "goto" manual for PSC definitions and that aligns with forum, including working group on trial design



## **IPSCSG Definitions Paper Outline**

Introduction and unmet need

Methodology

Delphi process

**Diagnosis** 

Clinical presentation Laboratory markers

Imaging incl. dominant stricture

**Pathology** 

**Exclusion of secondary sclerosing cholangitis** 

**IBD** 

Phenotypes-

Classical Small duct

Overlap

Paediatric - Mark

**PSC** no IBD

Staging of liver disease

**Clinical endpoints** 

Liver transplant, liver related death, cholangitis, cirrhosis, cholangiocarcinoma, CRC

**Symptoms** 

**Post-transplant recurrence** 

Definitions in Context of clinical practice and trials (gaps and opportunities)



## Example

Cholestasis is a defining features of primary sclerosing cholangitis and in reaching a diagnosis for inclusion in clinical trials, the expectation should be that the majority of patients will have evidence of an abnormal serum liver test profile for more than 6 months

In patients with PSC a combination of serum liver tests and simple clinical parameters, has the ability to define those patients at greater or lower risk of disease progression, and can be used to define risk strata for trial purposes.

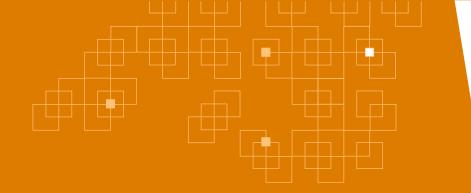
For patients with normal serum liver tests, the definition of PSC requires a convincing cholangiopathy evident by either imaging or histology

Serologic testing for ANCA reactivity should not be used as a disease defining test.

Serum levels of CA19.9 whilst sensitive for biliary inflammation and malignancy, cannot be used alone to define the presence of cholangiocarcinoma.

Serum markers of liver fibrosis are associated with underlying liver disease severity across liver diseases, and can be used to define the risk of disease-associated events.

Serum IgG4 concentrations cannot be used to define absolutely a sub-group of patients with different clinical course in PSC.





# Discussion

