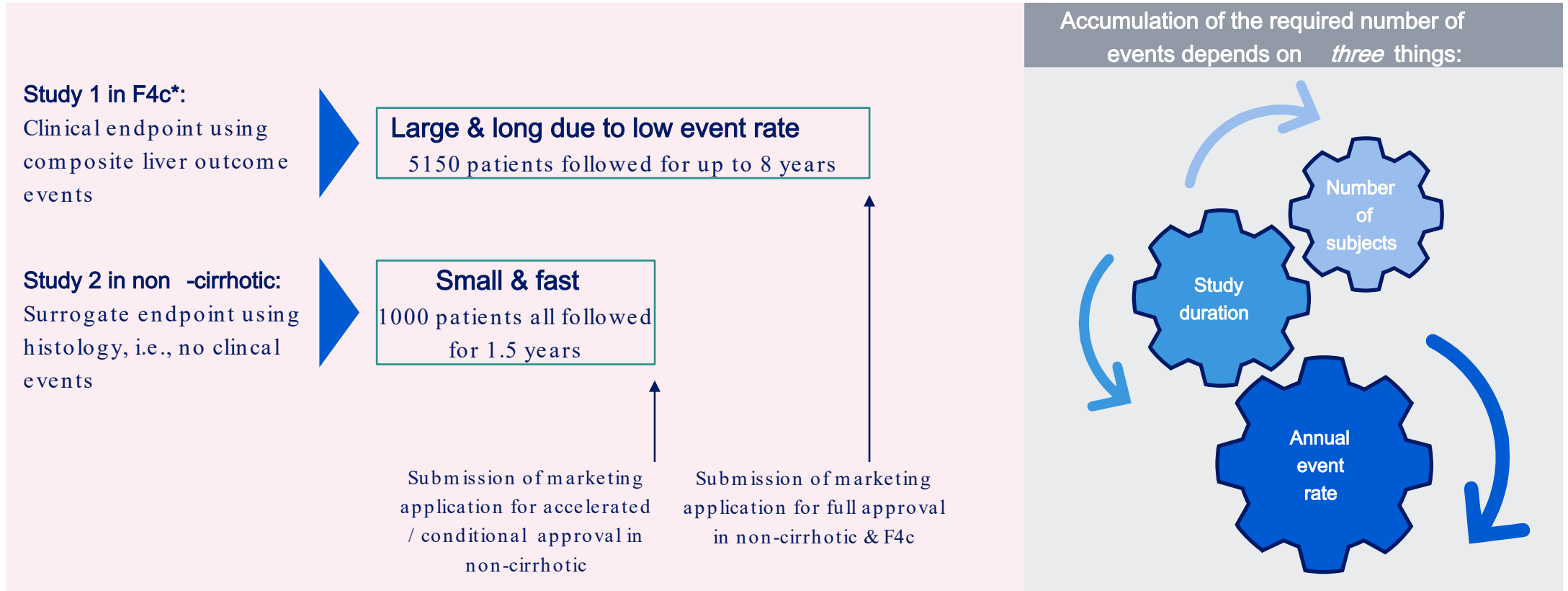




Clinical trial design pooled or meta -analysis



An alternative approach for phase 3 NASH drug development presented by the FDA**



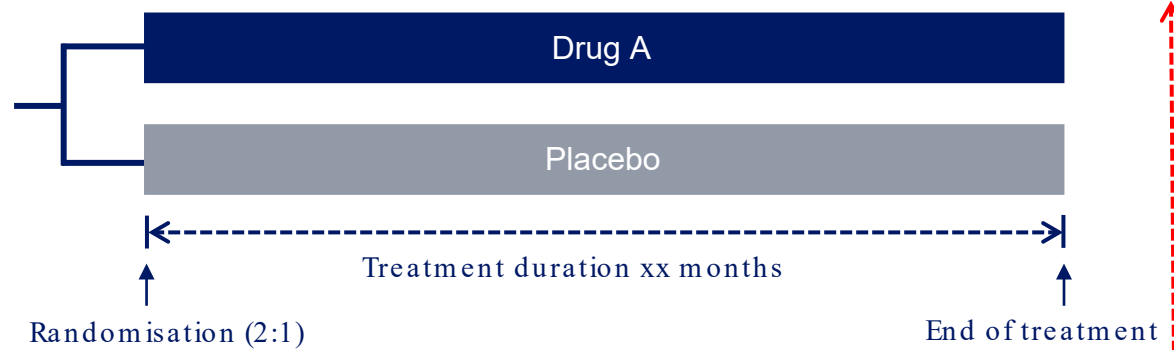
*Study 1: 5150 patients followed for 8 years is based on: a hazard ratio of 0.8 (20% risk reduction), an annual event rate of 3%

**FDA. Matsubayashi T. Drug Development for Nonalcoholic Steatohepatitis (NASH) with Fibrosis: A Regulatory perspective. 2021 Available from [NASHWebinar-January-2021.pdf \(sbiaevents.com\)](#)

If we pool separate F3 and F4 studies?

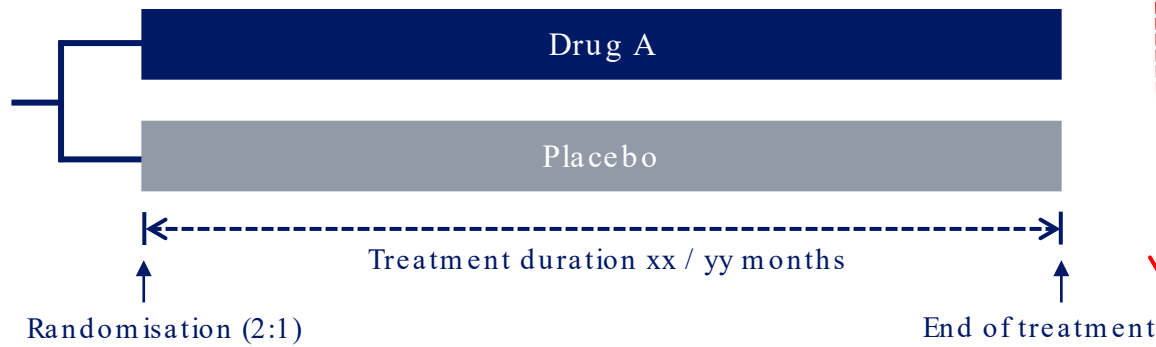
Trial 1

- Time driven by biopsy/histology
- NASH with **F3**



Trial 2

- Event driven
- NASH with **F4c**



Pool end points



Aspects to deliberate in the working group

Pros	Points to consider and discuss
<ul style="list-style-type: none">• Simultaneous F3+F4 trial• Impact on required persons in trial• Comprehensive approval• No repeated biopsy in F4c	<ul style="list-style-type: none">• What end points to pool?• Longer time to approval (event-driven)• Defining duration of both trials• How to power studies individually according to outcomes?• Statistical Vs Numerical superiority