EMBED: *A Pragmatic Trial of User Centered Clinical Decision Support for **EM**ergency Department Initiated **B**uprenorphin**E** for Opioid Use **D**isorder*

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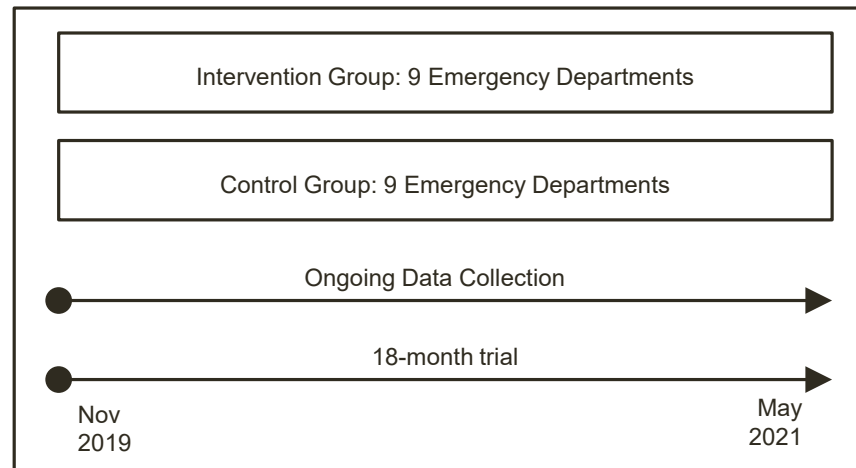
NIH Collaboratory Steering Committee
April 21, 2022

NIH PRAGMATIC TRIALS COLLABORATORY
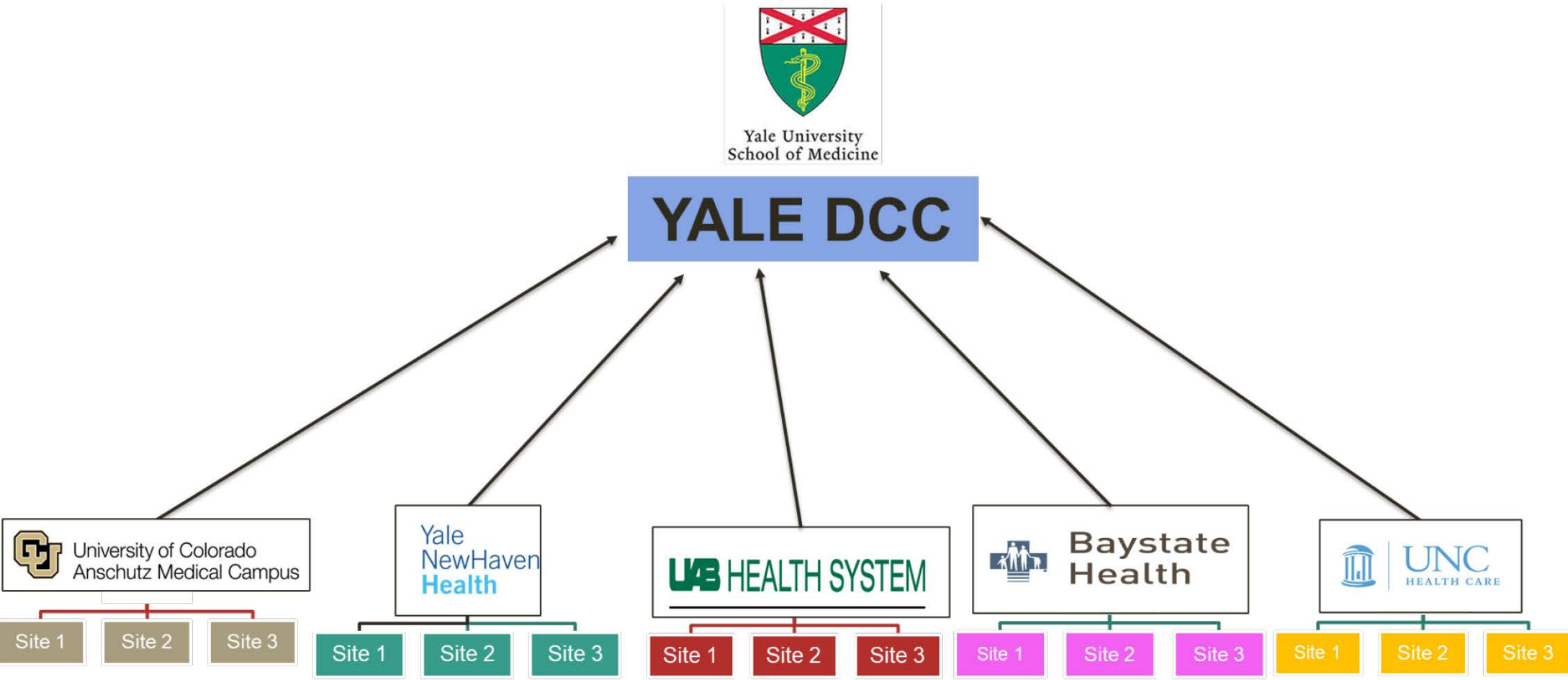Rethinking Clinical Trials®

EMBED Trial - Methods

- 18-month pragmatic, parallel, group randomized trial
- 18 ED clusters (**21sites**) in 5 healthcare systems randomly allocated in 1:1 ratio to intervention versus usual care arm
- Intervention: CDS to support diagnosis & withdrawal assessment & automate orders, notes, Rx, AVS, referral
- Primary outcome: initiation of BUP in ED at patient level
- Protocol approved by Western IRB (**WIRB**)

EMBED Trial Protocol.
BMJ Open, 2019

EMBED Data Collection: Yale Data Coordinating Center & External Sites

Data Collection: Challenges

- Clinician demographic data outside of EHR:

    - IRB amendment

    - Mismatch between EHR & human resources data

- Data privacy measures:

    - Visit data as PHI: confusing for start and end date

    - Aggregated clinician age data, patient >85

- Multiple rounds of iteration for finalizing data dictionary

- Secondary outcome referral data not feasible

- EHR race/ethnicity data inconsistent internally and across systems