# **Pilot & Feasibility Testing**

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### Learning goals

- Identify approaches to evaluating the capabilities of the partner healthcare system and testing key elements of various types of interventions
- Q & A with attendees

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### Important things to know 60

- Pilot testing the ePCT methods increases likelihood of completing the trial and can prevent silly mistakes
- You need a biostatistician in the pilot/feasibility stage
- "Process issues" can derail the ePCT
- Use the pilot study to maximize acceptability, maintain affordability, and consider scalability of your intervention

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## During the pilot phase

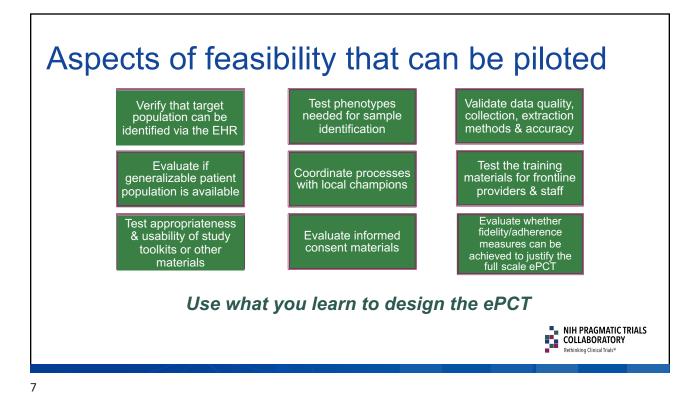
- Establish close partnerships with healthcare system personnel
- Test and validate EHR data collection and extraction
- Evaluate whether generalizable patient population can be identified and enrolled with available healthcare systems
- Assess how well the intervention can be integrated into the clinical workflow

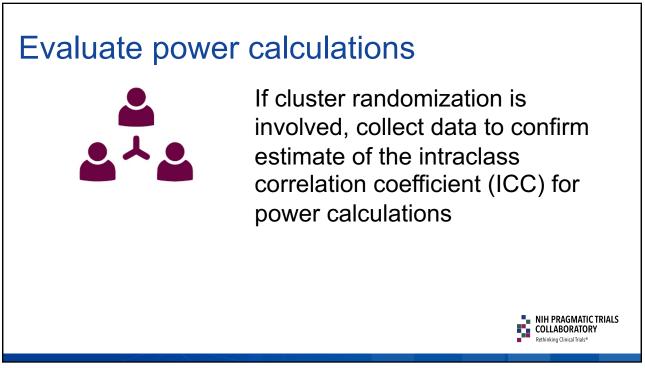
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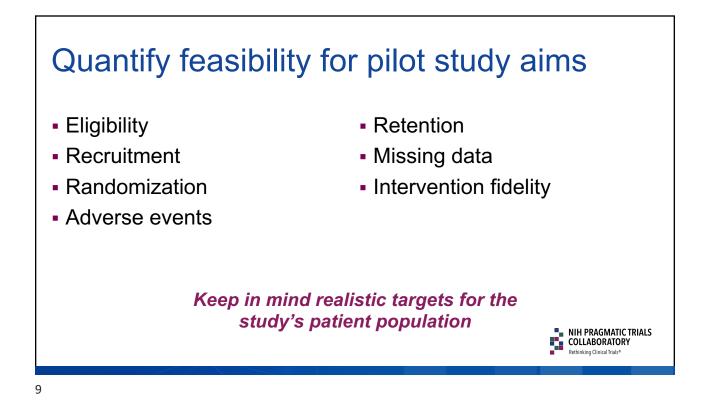
- Identify multiple local champions at each study site

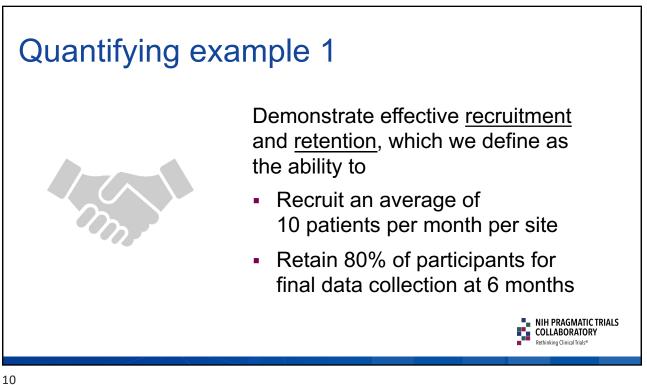
Build partnerships
Is the intervention aligned with the priorities of the partner
How ready is the partner?
Are extra resources needed to support the intervention, identify participants, and extract necessary data?
How many sites are available to fully participate?
How much provider training will be needed, and can training use existing healthcare system infrastructure?
If the intervention proves successful, what adaptations would be needed to implement it in other healthcare settings?

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# Quantifying example 2

Determine whether the <u>intervention</u> can be <u>delivered</u> with reasonable feasibility, which we define as 70% of the enrolled participants engaging in the intervention



Determine whether the smoking cessation intervention can be delivered with reasonable feasibility, which we define as 20% of the approached participants engaging in the intervention



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## Quantifying example 3

Demonstrate ability to <u>collect primary outcomes</u> and <u>minimize</u> <u>missing data</u> to less than 5% of primary outcome measures



Demonstrate ability to collect primary outcome of depression symptoms (patient-reported) and minimize missing data to less than 10% of primary outcome measures



### **Ensuring trial readiness**

- Troubleshooting and iterative testing
- Flexibility to accommodate local conditions and changes over time
- Continuous engagement with healthcare system
- Readiness tasks
  - Recruitment plans are finalized with backup plans available
  - Ethical/regulatory aspects are addressed
  - Intervention is fully developed and finalized
  - Data collection methods are adequately tested
  - Budget and timeline are realistic and feasible



### Readiness checklist

Milestone	Completed
Recruitment plans are finalized	
All sites identified (documentation of site commitment)	
Methods for accurately identifying participants validated	
All agreements for necessary subcontracts in place	
Ethical/regulatory aspects are addressed	
Coordinated IRB oversight in place	
Finalized plans for informed consent or waiver of informed consent	
Finalized data and safety monitoring plan	
Intervention is fully developed and finalized	
Finalized intervention (including materials and training at sites) ready for site implementation	
Finalized protocol is IRB approved (informed consent and data collection forms, if applicable)	
Data collection methods are adequately tested	
Validated methods for the electronic health record information	
Validated study surveys, interviews, or other data collection modes	
Demonstrated quality assurance and harmonization of data elements across healthcare systems/sites	
Statistical and data analysis methods have been adequately developed	
Budget is realistic, feasible, and accounts for potential changes	
Implementation Readiness Checklist available on the Living Textbook	NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials®

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### In the end, good planning will help

- Avoid silly mistakes
- Maximize acceptability
- Maintain affordability
- Remember scalability

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