

ROAD MAP OF A CLINICAL TRIAL



START

1

DISCOVERIES

Discoveries made by researchers identifying new potential therapeutic targets, new, or re-purposed old drugs to 'hit' that target, or new therapeutic approaches to known targets



Research conducted to:

- ✓ Improve 'drug'-like properties
- ✓ Test benefits and safety
- ✓ Test best route for drug or treatment
- ✓ Test interactions with other drugs
- ✓ Determine dosages
- ✓ Determine potential adverse side effects
- ✓ Determine effectiveness compared to similar drugs or treatment



RESEARCH

2

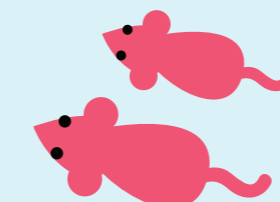


PRE-CLINICAL

Pre-Clinical Research
Before testing can begin on humans, researchers must determine the safety of the drug or treatment. There are two types of preclinical research: In vitro and In vivo



IN VITRO



IN VIVO

3

Once safety is determined, the drugs or therapies move into the first phase of a clinical trial

Phase I: Assess human safety; tested on a small sample of people to determine the body's reaction and safe dose ranges

🕒 Days - Weeks 📈 76% Success Rate*

Phase II: Determine the efficiency of the drug or treatment. It is tested on a bigger sample of people; Safety continues to be evaluated.

🕒 Weeks - Months 📈 50% Success Rate*

Phase III: This phase validates the effectiveness, the benefits and possible side effects on a larger sample

🕒 Several Years 📈 73% Success Rate*

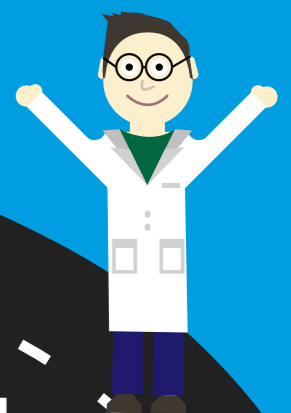
* TOTAL SUCCESS RATE = (0.76 x 0.5 x 0.73 x 0.89) = 0.25 = 25%

25% TOTAL SUCCESS RATE*



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CLINICAL TRIAL



FINISH

To find out more visit cysticfibrosis.ca/clinicaltrials