

PROBLEMS

We hear the same statistics over and over. Bringing a new treatment to market costs anywhere between 800 million and 2 billion dollars and can take over a decade from discovery to market. Attrition in each part of the system has climbed steeply, but most critically at the later, more expensive stages.

We believe, however, these are symptoms of larger issues that need to be resolved. The larger, overarching problems, are:



MISSING HUMAN EXPERIENCE

Critical aspects of the modern human experience are not prioritized in clinical trial design.



LIMITED MATH

Standard statistical approaches inherently restrict clinical research resulting in increased trial complexity and restrictive eligibility criteria, ultimately discouraging participation.



DATA DEADLOCK

Stakeholders are unable or unwilling to share data throughout the system creating missed opportunities for generating knowledge and improving clinical care.



SAUSAGE MAKING

People don't fully understand how treatments are developed and brought to market.

VISION

What type of Clinical Trials system do we envision?

An inclusive¹, intuitive², integrated system that generates, captures, and utilizes evidence³ to produce and provide the right treatment for the right patient⁴.

- 1 Everyone should have the ability to participate-from health data donation to pragmatic trial participation.
- 2 Basic science, clinical and non-clinical researchers must be able to learn from each other's successes and failures.
- 3 Data and information needed to inform decisions affecting health and healthcare
- 4 Clinicians and payers need better information on what works for whom.

RECOMMENDATIONS

What must happen for this vision to happen?



ECOSYSTEM

Health data and information must be valued, exchanged, bought, and sold -- not just shared among stakeholders.



REDUCE, RECALIBRATE, REDESIGN

Exposing inefficiencies in clinical trial design to provide more information for risk-based decisions.



NEW MATH

Pure mathematicians and clinical trialists must work together to invent new mathematical and computational approaches for use in the treatment development system.



UNLEASH FEEDBACK

The clinical trials system needs platforms and communities where participants can freely share their experiences without compromising trial integrity.



GET THE WORD OUT

Engaging and informing everyone about treatment development is a critical step in transforming the system.