

UNLOCKING HEALTHCARE INSIGHTS

Randomized Controlled Trials - RCTs



Cochrane

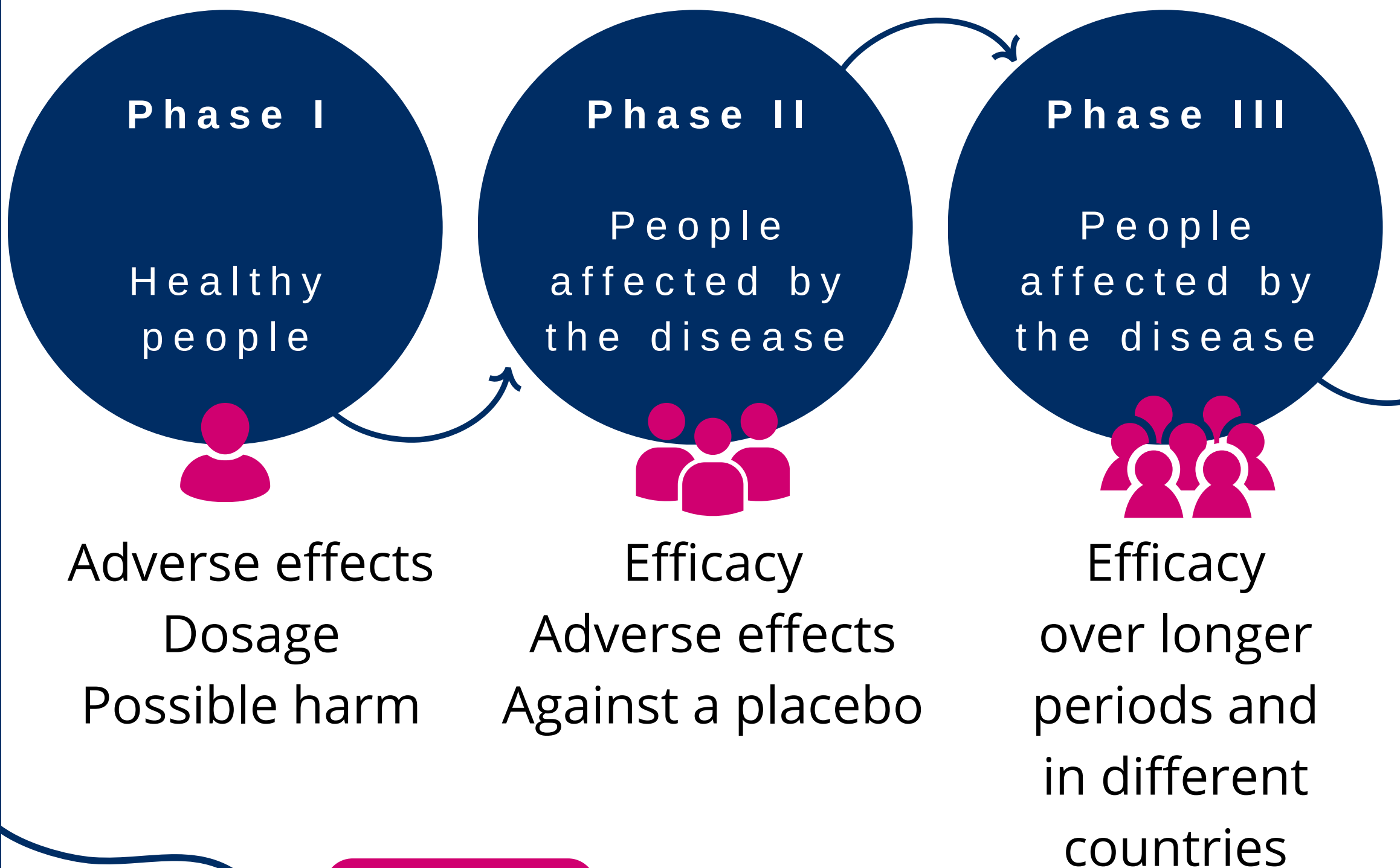
Multiple Sclerosis and Rare Diseases
of the Central Nervous System



Clinical trials are specialized medical research studies designed to determine if a healthcare intervention is effective compared to others, following research plans called protocols.

They also assess the safety of interventions and explore their effectiveness in specific settings or for particular groups of people.

PHASES OF A CLINICAL TRIAL



10-15 years

CLINICAL TRIAL LICENSING



a treatment is deemed safe by relevant national regulatory body

Phase IV: Safety Surveillance

Longer period of time
Different groups of people
Long-term adverse effects

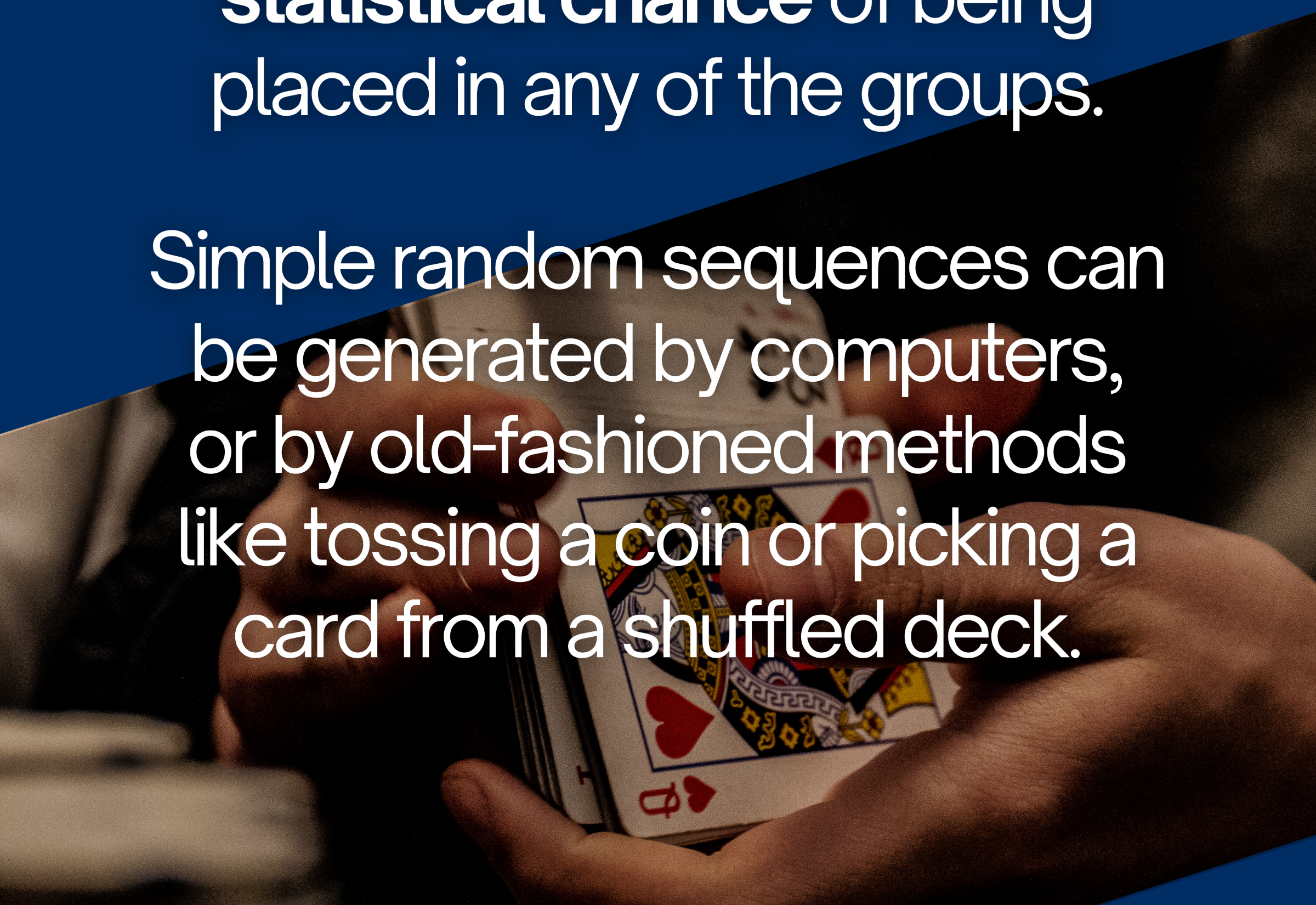




In an RCT, participants are assigned to groups using special techniques.

Each person has the same **statistical chance** of being placed in any of the groups.

Simple random sequences can be generated by computers, or by old-fashioned methods like tossing a coin or picking a card from a shuffled deck.



CONTROLLED SETTING



One group of participants receives the intervention that is being investigated, while another group - the **control group**, receives a different intervention, or an inactive intervention (a placebo), or standard care.

The results from the groups are then **compared**.

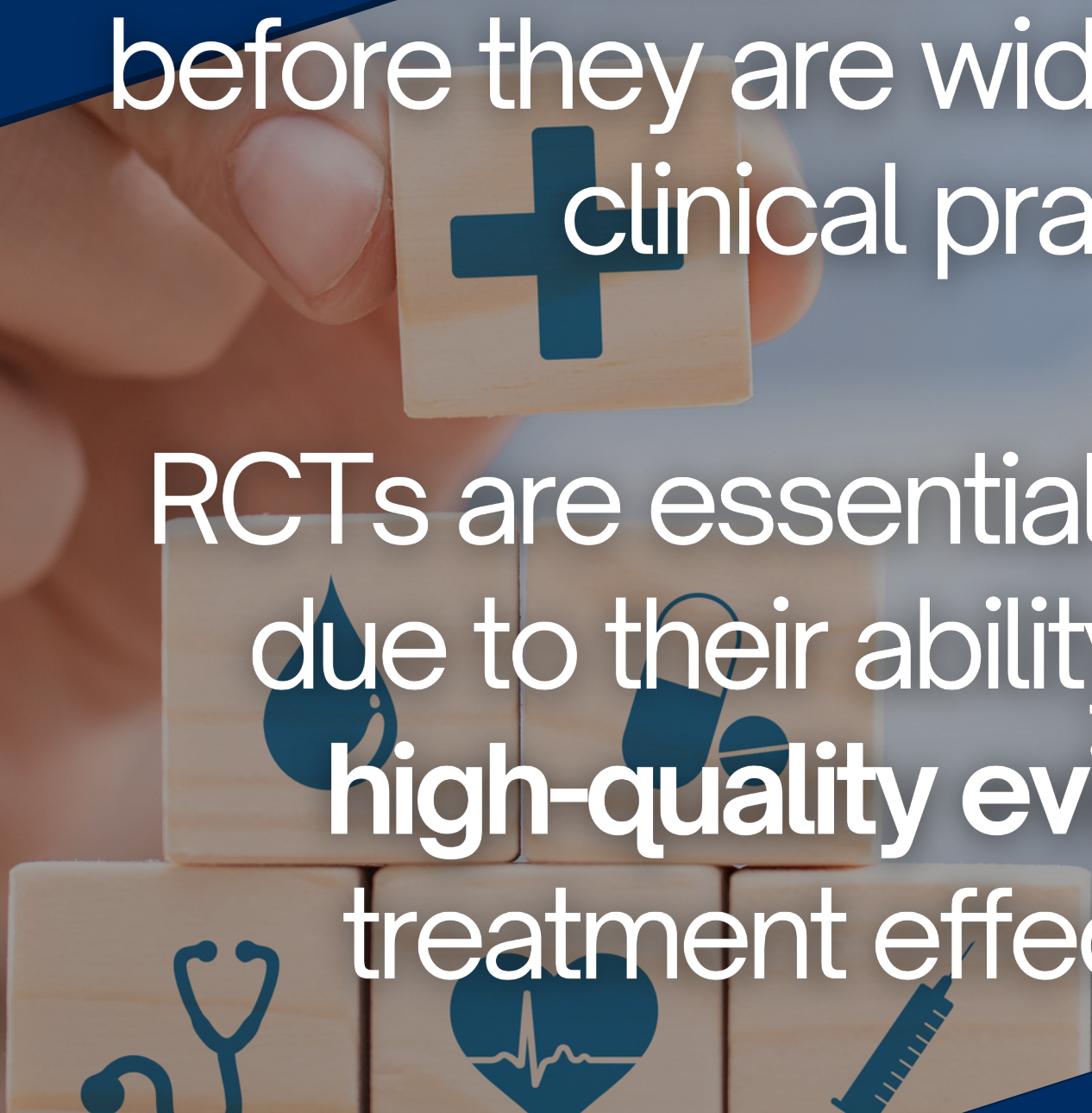




By comparing interventions in a controlled setting, RCTs offer insights about the **best outcomes** for patients.

Also, with their rigorous design RCTs can assess potential **risks and benefits** of new treatments before they are widely adopted in clinical practice.

RCTs are essential in healthcare due to their ability to provide **high-quality evidence** on treatment effectiveness.



GET INVOLVED

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- Check out [Cochrane Evidence Essentials](#)
- Read our reviews on [Cochrane Library](#).
- Follows us for being updated about EBM practice in the field of MS!



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