

Clinical Trials 101: Why They Are Important and What You Should Know

Celebrating a Second Chance at Life Survivorship Symposium

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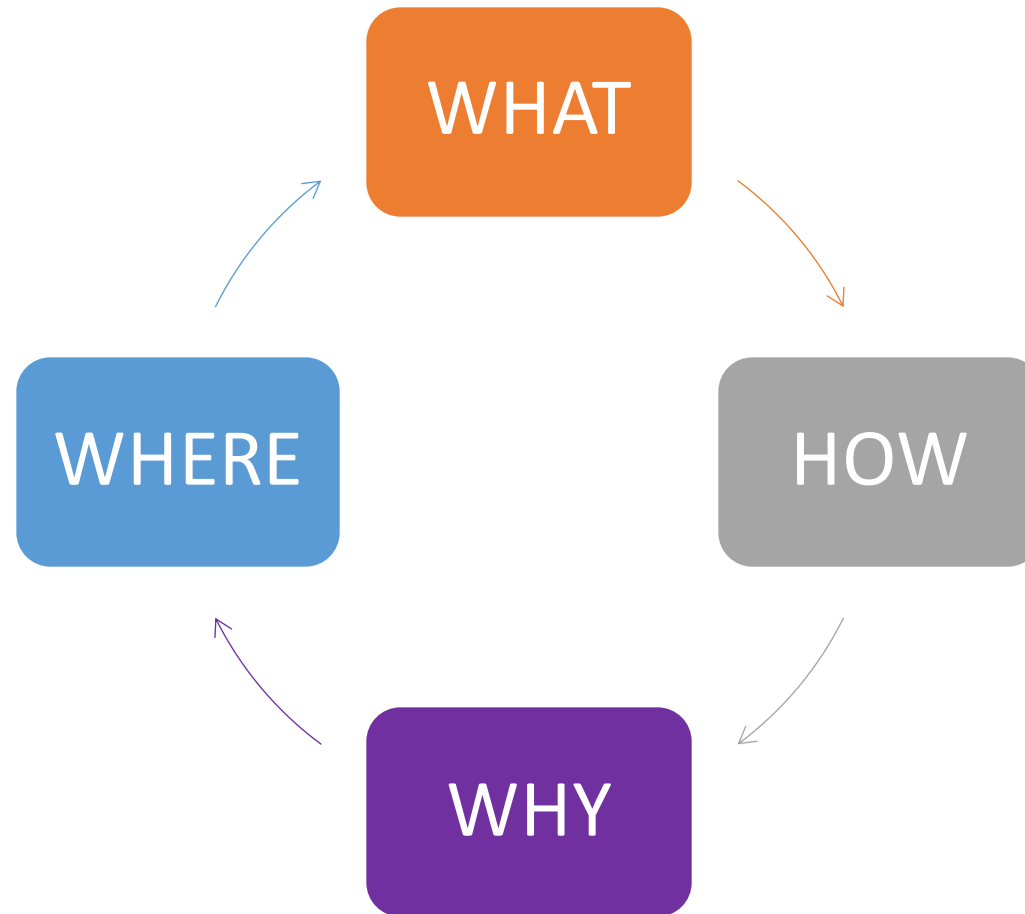
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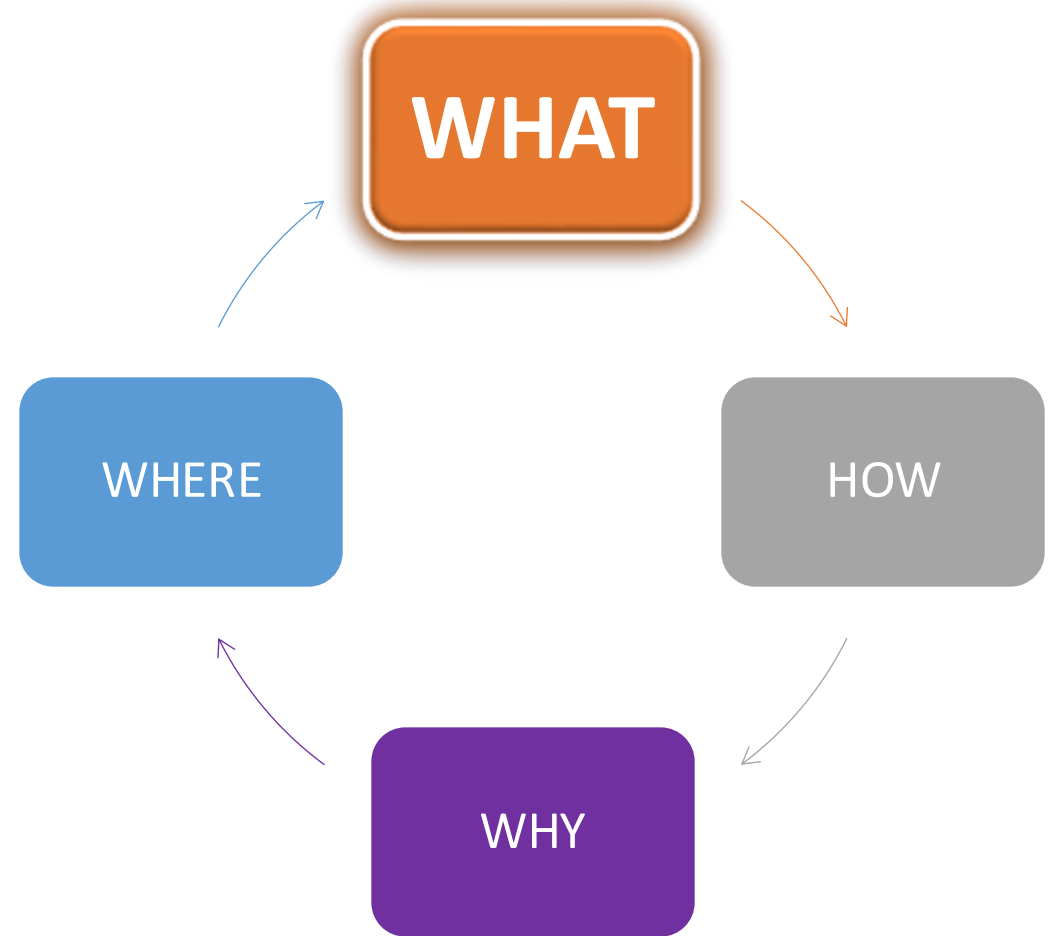


Agenda



WHAT?

- What is a Clinical Trial?
- What are the phases of a Clinical Trial?
- What is the purpose of a Clinical Trial?
- What are the general features of a Clinical Trial?



WHAT is a Clinical Trial?

- Who:
 - Patient **volunteers**
 - Healthy vs. Unhealthy
- What:
 - **Answer** questions
 - **Gather** information
- Why:
 - Find **new ways** to prevent, detect, diagnose, and treat disease
 - Better patient **outcomes**
- Observation
 - **Collection** of data while receiving standard medical care
 - Purpose is to find out **more information**
- Interventional
 - Treatment is given and **investigated**
 - **Develop new** treatments to prevent, detect, diagnose, and treat diseases

WHAT are the phases of Clinical Trials?

Interventional

- Phase 1
 - Focus on **tolerability** and the **proper dose**
 - Total accrual: 15-50 patients
- Phase 2
 - Focus on **effectiveness** and **side effects**
 - Total accrual: <100 patients
- Phase 3
 - Compare **new** treatment to **existing** treatment
 - Total accrual: 100+ patients

Observational

- Phase 4
 - Observe **long-term effects** of approved treatment
 - Total accrual: 1,000+ patients

WHAT is a Phase 1 Clinical Trial?

- Early investigation
 - Brand new treatment
 - Older treatment in a new indication
- Primary goal/objective
 - Tolerability
 - Safest dose
- Rationale
 - Test a new concept
 - Early non-clinical results are favorable

Generally First-in-Human (FIH)
=
Low Accrual Numbers

Patients dosing staggered to
assess safety and tolerability

Dose escalation to the
maximum tolerated dose (MTD)

WHAT is a Phase 2 Clinical Trial?

- Continual Investigation
 - Phase I goal achieved
 - Most common phase in oncology
- Primary goal/objective
 - Efficacy
 - Safety
- Rationale
 - Discover how well it works
 - Phase I data is favorable

More patients enrolled with less strict requirements

Open enrollment, no dose staggering

Dose expansion
=
More data collected at safest dose level

WHAT is a Phase 3 Clinical Trial?

- Comparison Investigation
 - Compare to standard of care
 - Randomization
- Primary goal/objective
 - Outcomes
 - True benefit
- Rationale
 - Unbiased results
 - Better assessment of side effects

Large trials with hundreds of patients enrolled

Randomization
=
Random assign to
intervention, like a flip of a
coin

Cannot choose treatment
Gives balance to investigations

WHAT is the purpose of a Clinical Trial?

TOLERABILITY

- New drug → new side effects
- Old drug → new indication → new side effects

EFFICACY

- Does it work well
- New, better ways to treat cancer

OUTCOMES

- Overall survival
- Relapse-, GVHD-free

COMPARISONS

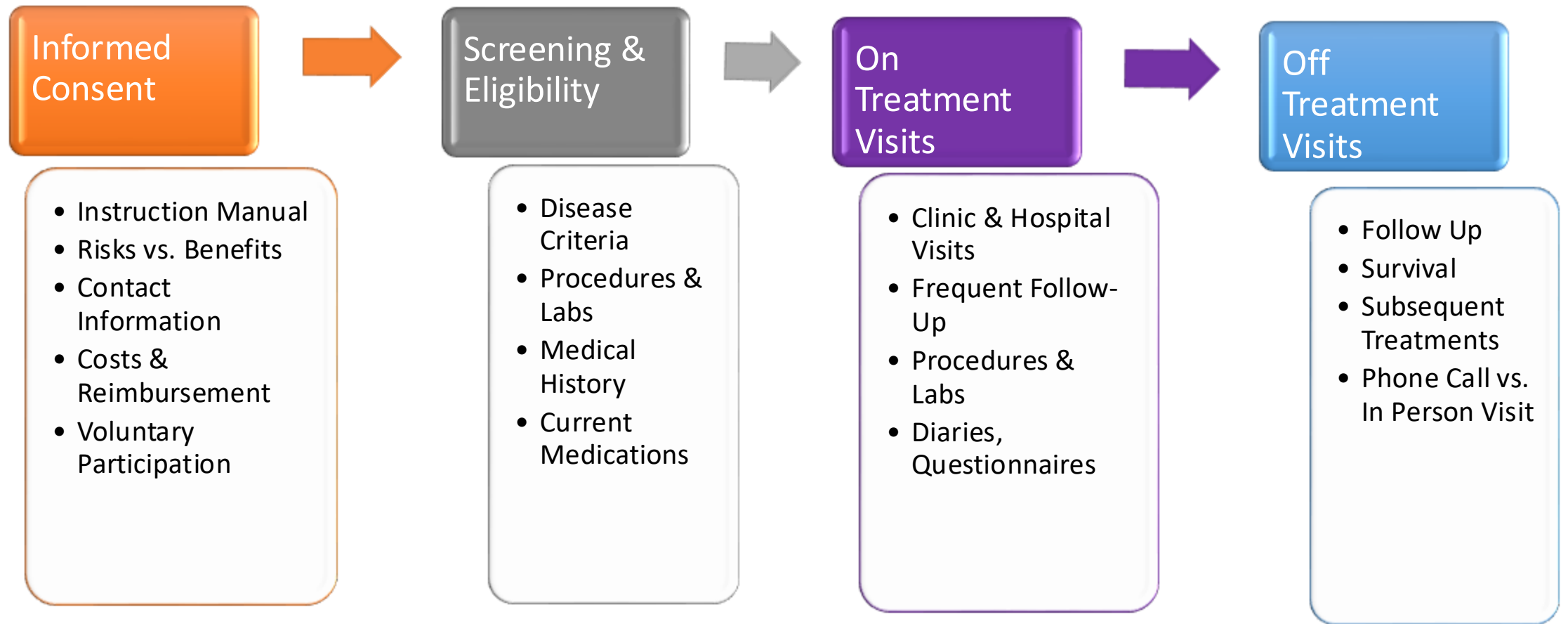
- Group A vs. Group B
- Who does better?

CHANGE

- The new standard
- Better outcomes

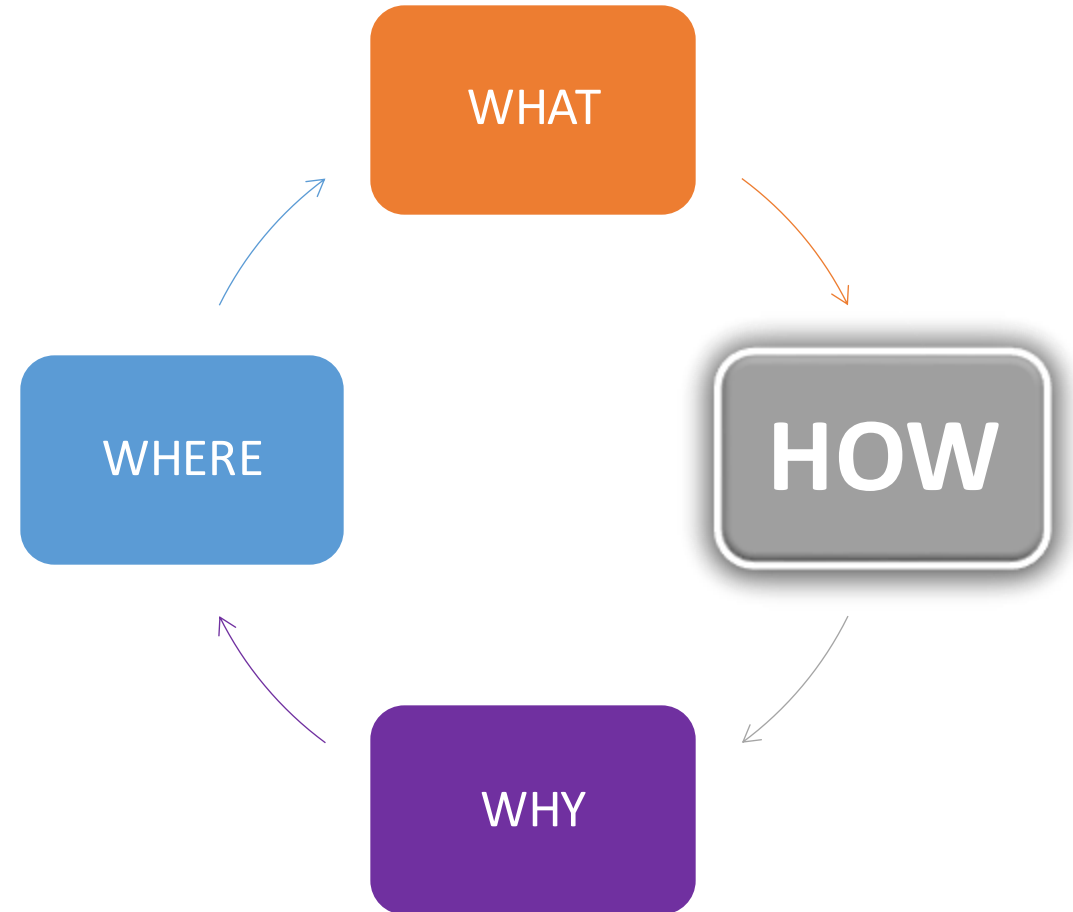


WHAT – are the general features of a Clinical Trial?



HOW?

- How are Clinical Trials different?
- How are Clinical Trials reviewed and deemed appropriate for patients?
- How are patients selected and evaluated for a Clinical Trial?
- How are patients monitored during a Clinical Trial?
- How are Clinical Trials funded?



HOW are Clinical Trials different?

Clinical Trials

- Experimental
- Voluntary participation
- Informed consent
- Protocol guidelines and rules



Standard of Care

- Established care
- Proven results
- Physician choice
- Supportive care algorithms

Clinical Trials help establish
Standard of Care algorithms and
procedures



HOW are Clinical Trials different?

Chemotherapy

- New drug to kill cancer cells
- Newly diagnosed or relapsed (cancer comes back)/ refractory (cancer does not respond to initial treatment)

Transplant

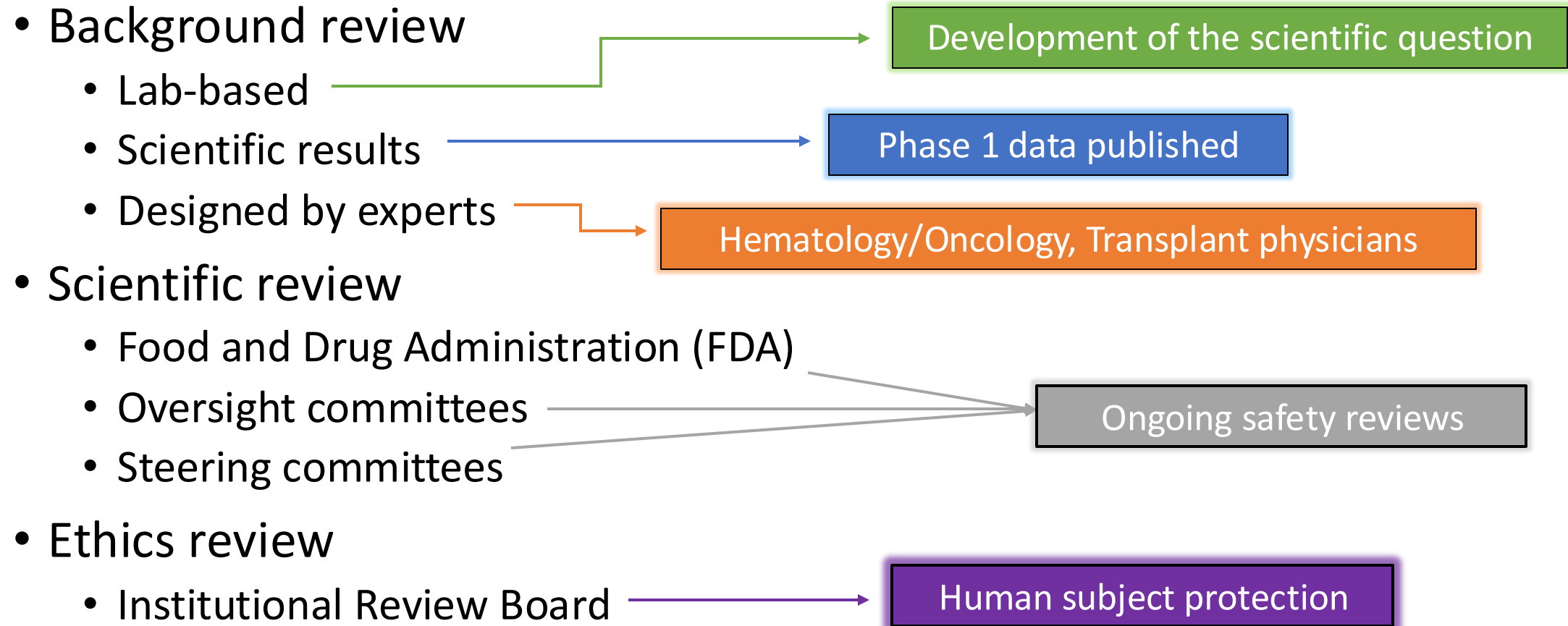
- New GVHD prophylaxis or treatment
- New conditioning regimen
- Standard medication given earlier to prevent infection

Immune Effector Cell (IEC) Therapy

- New kid on the block
- Using own or healthy donor immune cells to kill cancer cells



HOW are Clinical Trials reviewed and deemed appropriate for patients?



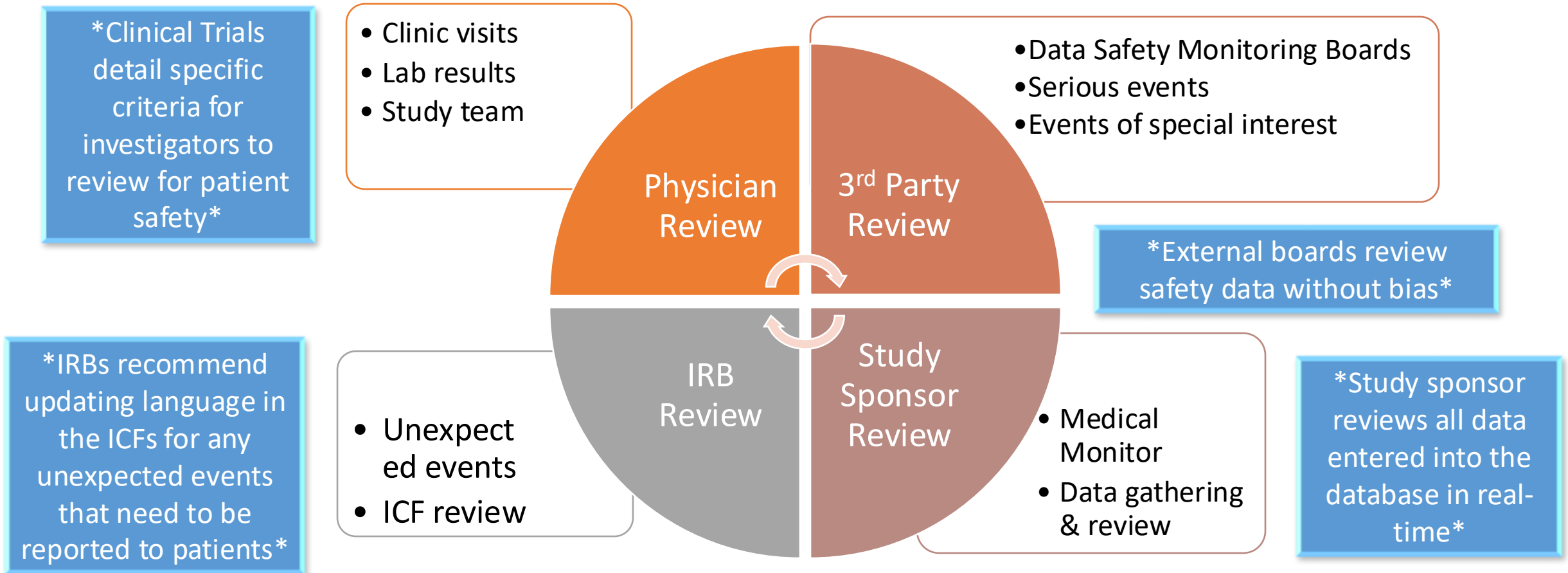
HOW are patients selected and evaluated for a Clinical Trial?



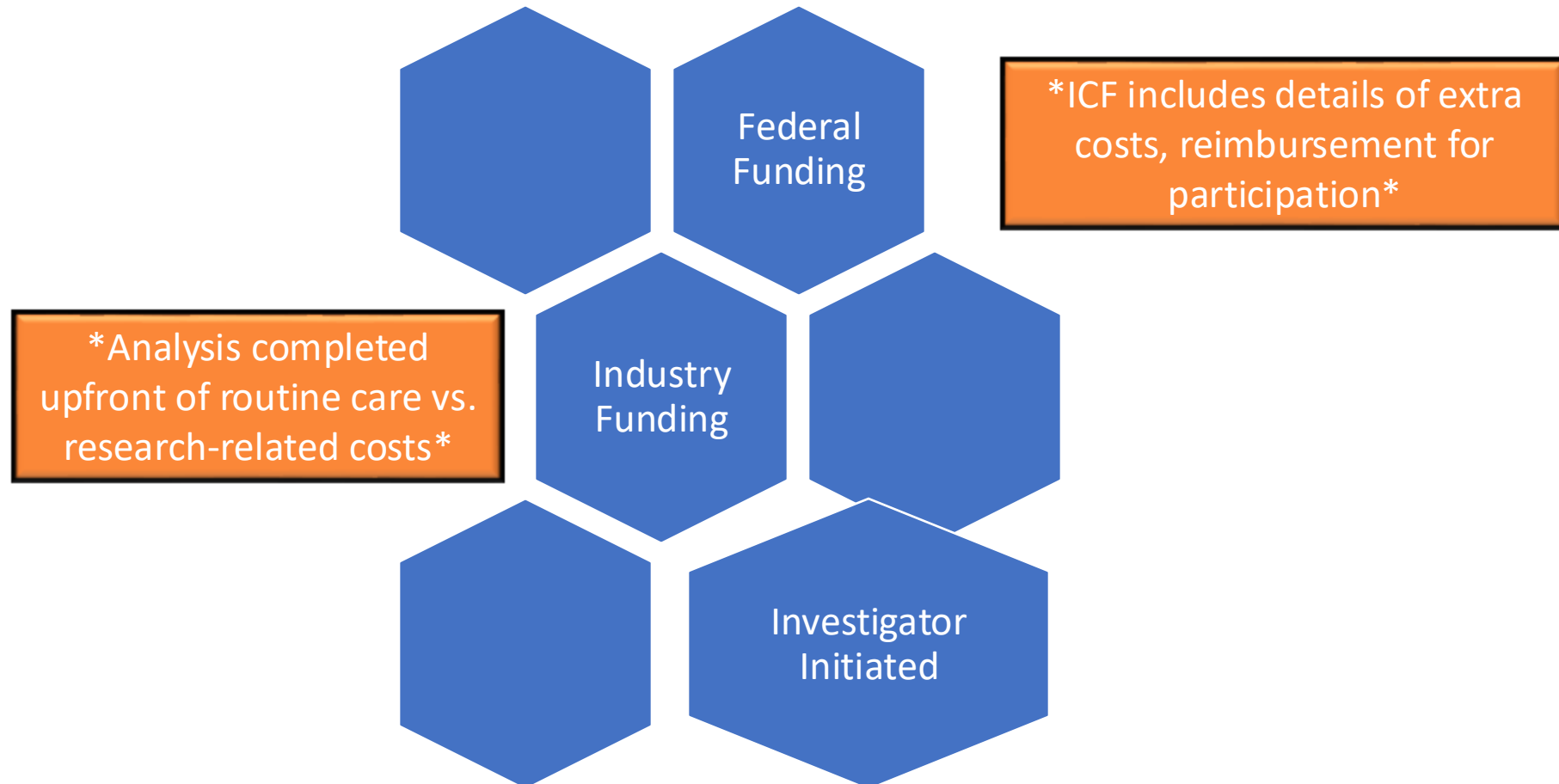
- Physician consult
 - Pre-Screening
 - Basic eligibility criteria
 - Informed consent discussion
- Screening
 - Labs, physical exam, procedures, other specific tests
 - In-depth eligibility criteria
 - Protocol-specified, carefully designed



HOW are patients monitored during a Clinical Trial?

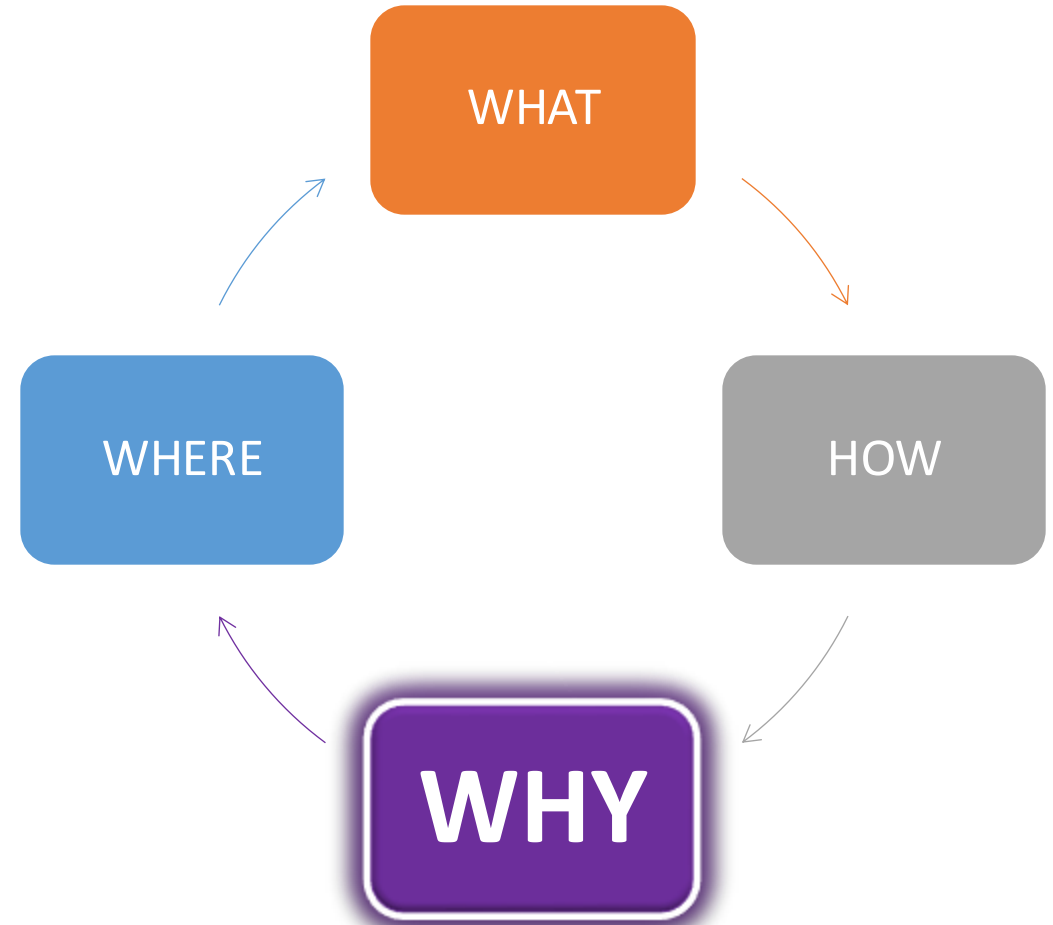


HOW are Clinical Trials funded?



WHY?

- Why are Clinical Trials stopped early?
- Do Clinical Trials use placebo?
- Should I participate in a Clinical Trial?



WHY are some Clinical Trials stopped early?

- Side effects
 - Risk vs. benefit analysis
 - Too much toxicity
- Clinical benefit
 - Good results
 - Better than routine care
- Sponsor decision
 - Re-prioritization
 - Slow enrollment



WHY do Clinical Trials use placebo?

- Randomization
 - Flip of a coin
 - Reduce bias
- Blinded vs. Unblinded
 - Blinded = unaware of treatment assignment
 - Unblinded = aware of treatment assignment
- Cause-and-effect
 - Relationship between treatment and its outcome
 - Reliable evidence

Randomized trials are considered the gold standard

No choice = less bias

Leads to more reliable evidence for clinical decision-making

WHY should I participate in a Clinical Trial?

- Receive expert medical care
- Gain access to latest treatments and techniques
- Contribute to medical advancements
- Help future patients
- Things to consider:
 - Time commitments
 - Visit requirements
 - Second opinions

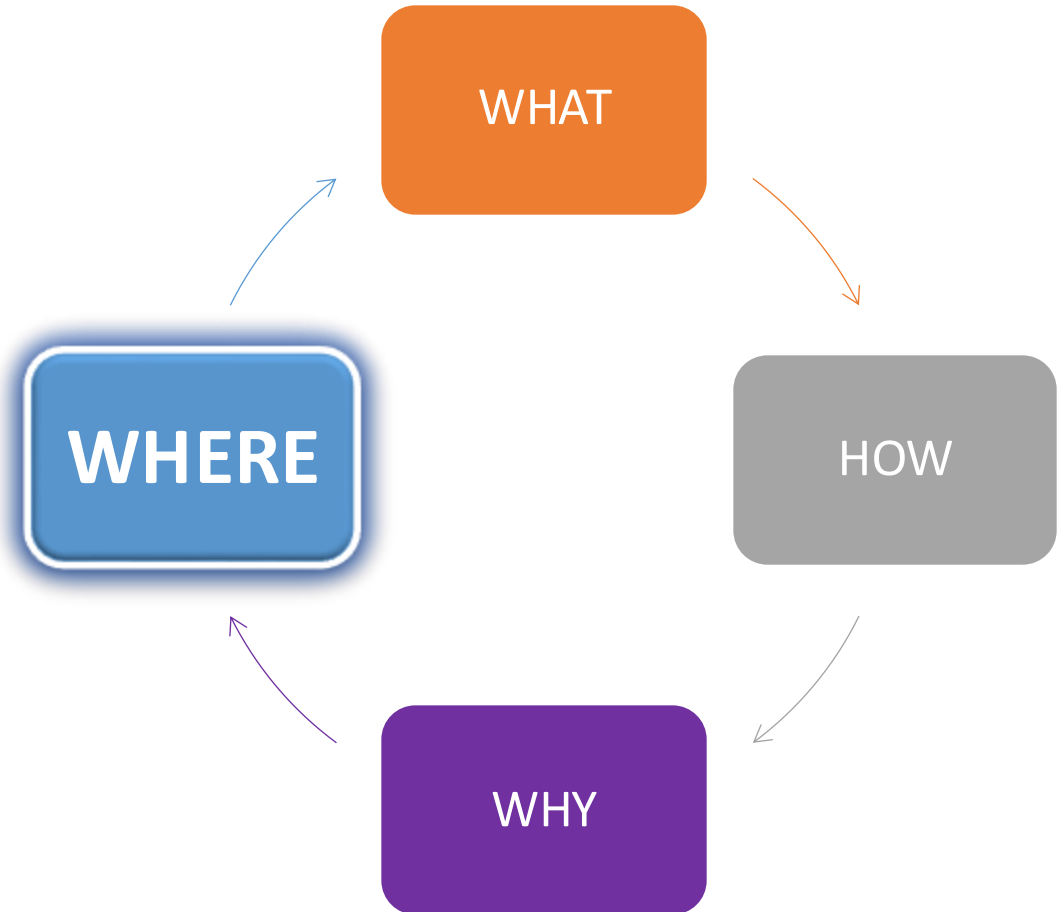
Clinical Trials are always OPTIONAL

Sponsors and sites try to reimburse patients for parking, meals, mileage, etc. to offset costs



WHERE?

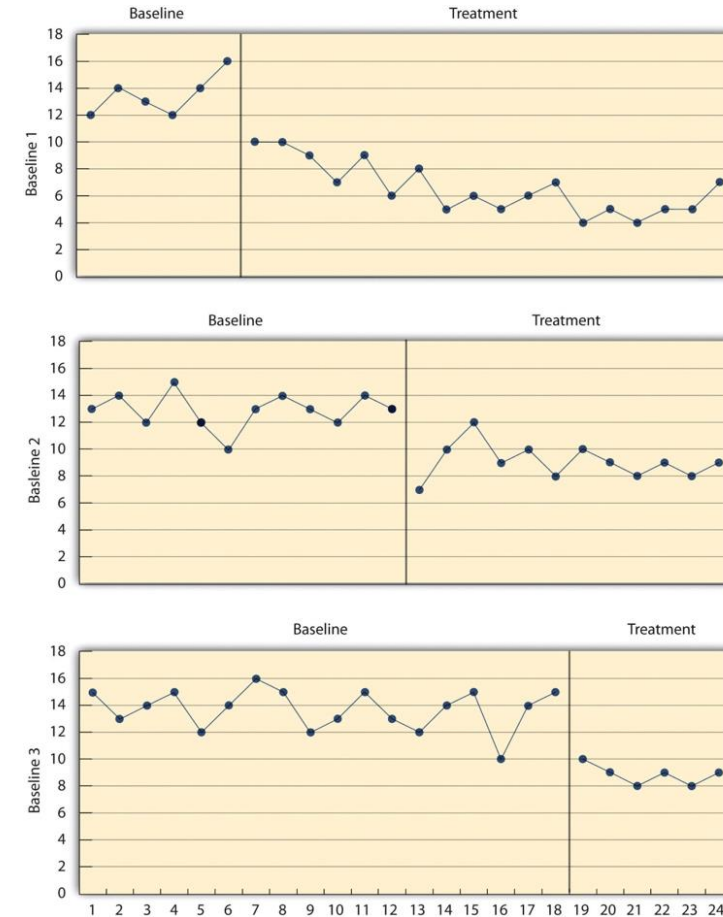
- Where can I find out the results of a Clinical Trial?
- Where can I find more information about a Clinical Trial?



Where can I find the results of a clinical trial?

- Sponsor provided information
- Study Physician
- Clinicaltrials.gov

Results are usually not available until the Clinical Trial has enrolled all patients and completed all data analysis



WHERE can I find more information about a Clinical Trial?

- [Clinicaltrials.gov](https://clinicaltrials.gov)
- [LLS.org](https://lls.org)
- [Bmtinfonet.org](https://bmtinfonet.org)
- Local hospital/university/clinic websites
- Social media



[ClinicalTrials.gov](https://clinicaltrials.gov)



Useful questions to ask about a Clinical Trial?

- What is being researched?
- How is the treatment given?
- Will I need to make extra trips to see my doctor?
- Do I have to pay for any part of the trial?
- Will my insurance cover treatment if I participate in a trial?
- Will I be able to see my own doctor?
- Can I change my mind and withdraw from the trial at any time?
- What if the treatment doesn't work for me or I have bad side effects?
- What happens to my medical care when the trial is over/finished?

Questions?



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Let Us Know How We Can Help You

Visit our website: bmtinfonet.org

Email us: help@bmtinfonet.org

Phone: 888-597-7674 or 847-433-3313

