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CANCER CENTER

Clinical Trials

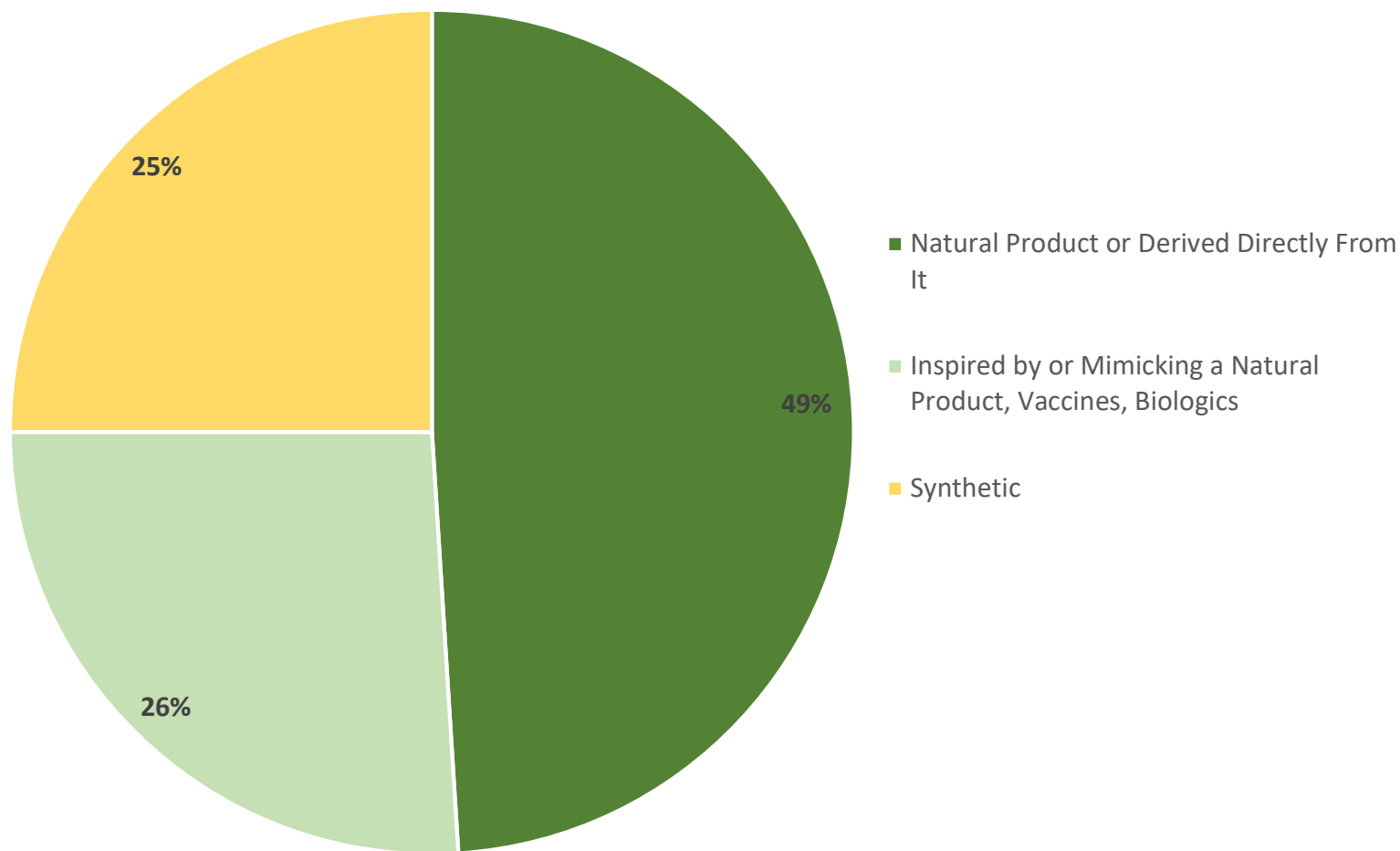
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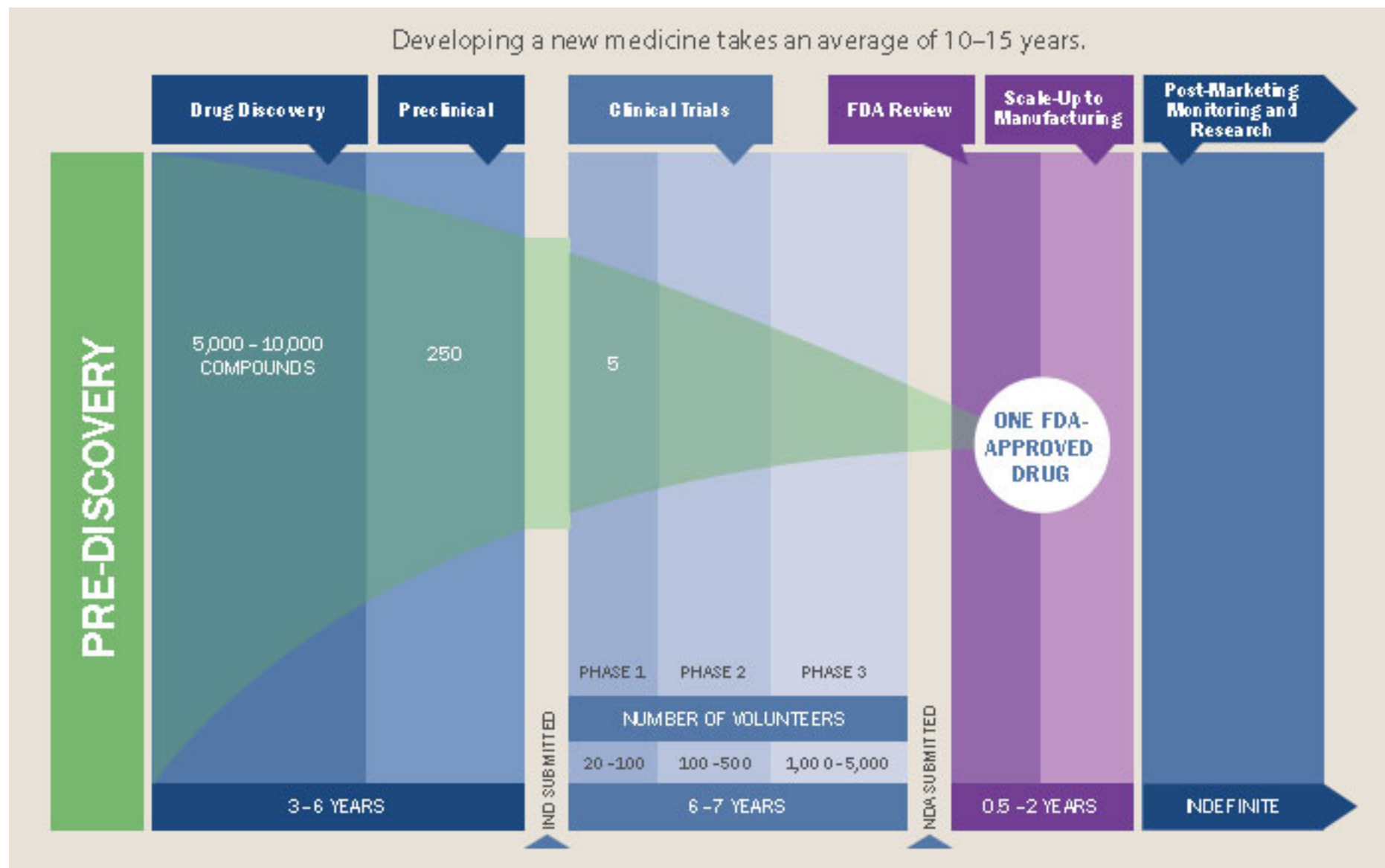
Where Anti-Cancer Drugs Come from

Sources of Anti-Cancer Drugs, 1940–2014



Clinical Trials Are an Important Part of Drug Development for Any Disease including Cancer...

The Drug Pipeline



What Is a Clinical Trial?

- Study that aims to improve existing treatments or to replace them with new and better ones
- Before a new treatment is made widely available for patients, it must be tested in clinical trials for efficacy (how well it works) and safety

Why Do We Need Clinical Trials?

- Clinical trials are designed to help us learn more about the **benefits** and **side effects** of a new treatment
- A treatment's benefit and side effects can only be fully assessed after long-term use on patients in everyday clinical practice



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What Do the Different Phases Mean?

- Phase I: Safety, finding the safest dose
 - Small group
- Phase II: Safety, finding if it works (efficacy)
 - Medium group
- Phase III: Confirming efficacy, side effects
 - Large group
 - Compare to “gold standard”
 - Usually **randomized**, may be “**Single-**” or “**Double-**” **blind**

Why would YOU want to be part of a Clinical Trial?

Everybody's reason may be different!

1. **Benefits?** **Access to new approaches**
2. Helping others
3. Moving science forward
4. **Risks??** **New approach may not be of benefit to you:**
 - Initial studies are small**
 - Possible drug side effects**



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Patient Safety on a Clinical Trial

- Informed Consent (**You/family**)
- **Physician** oversight
- **Institutional** oversight (Institutional Review Board, “IRB”)
- National (**FDA**) oversight

Multiple Safety Levels

Multiple Caring Levels



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Before You Enroll

You must qualify

- Inclusion criteria
- Exclusion criteria

You will go through informed consent

- Study purpose and details
- Risk/benefits

Know your rights

- You can stop participating **at any time for any reason**



What Will Happen on a Trial?



Protocol-driven treatment
(aka “study plan”)



Frequent monitoring



Additional support and
coordination



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Facts about Clinical Trials

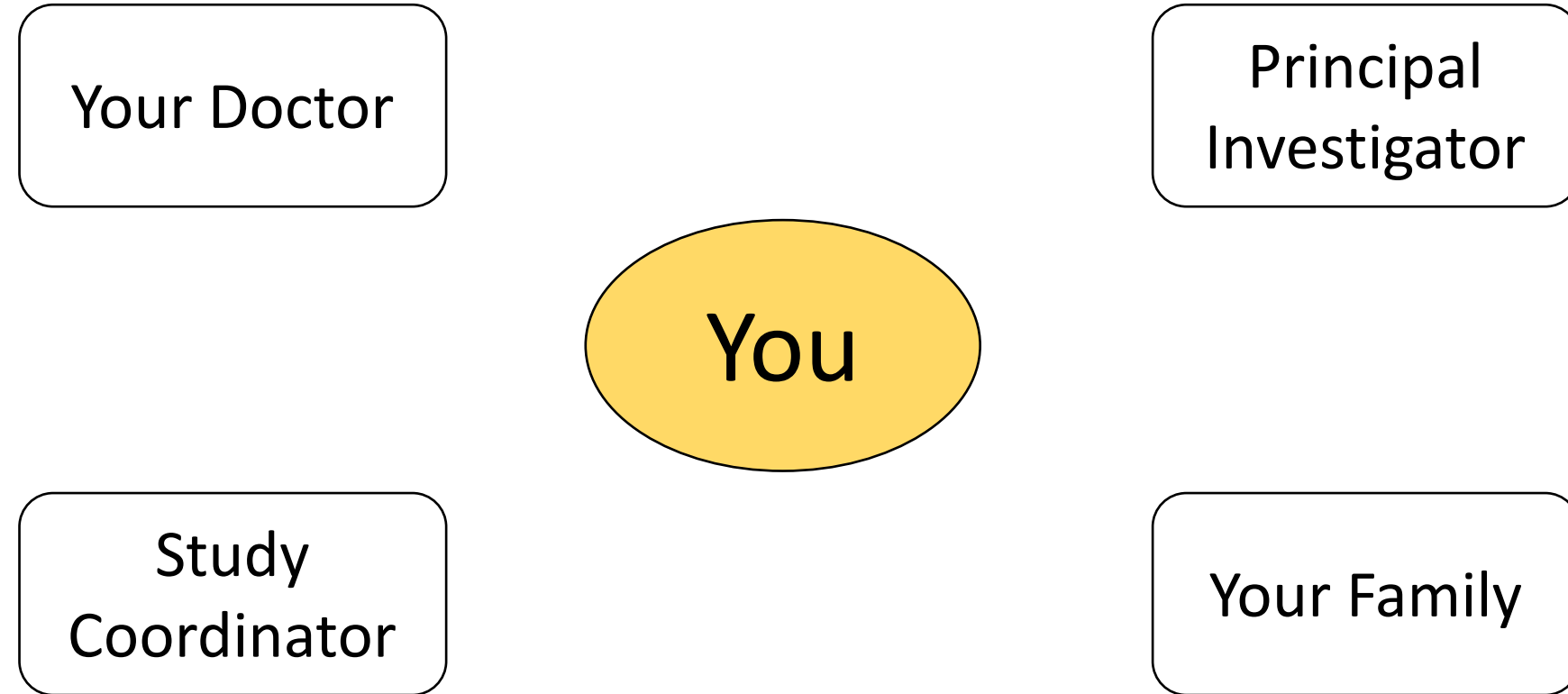
- **What will happen to my data?** The informed consent form will inform you how your data will be shared. **There are laws that require your data to be kept securely.**
- **What are the costs to me of participating?** Information about who is responsible for certain costs will be outlined in the informed consent
 - **Patient care costs:** Costs related to treating your cancer, whether you are in a trial or receiving standard treatment. The participant is usually expected to pay for these costs, which are often covered by health insurance.
 - **Research costs:** Costs associated with the trial itself, such as **research medications or extra tests which are not part of your usual medical care**. These costs are usually paid by the trial sponsor.



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Who Are the Key People in a Trial?



What Happens after the Trial?

- Data is checked and audited to make sure it is correct
- Data is analyzed by a statistician
- Results are presented and/or published
- **Where can I see the study results?**
 - You may receive the study results from the study Principal Investigator (the study informed consent form will tell you if you will receive results)
 - Study results are required to be published on [ClinicalTrials.gov](https://clinicaltrials.gov)



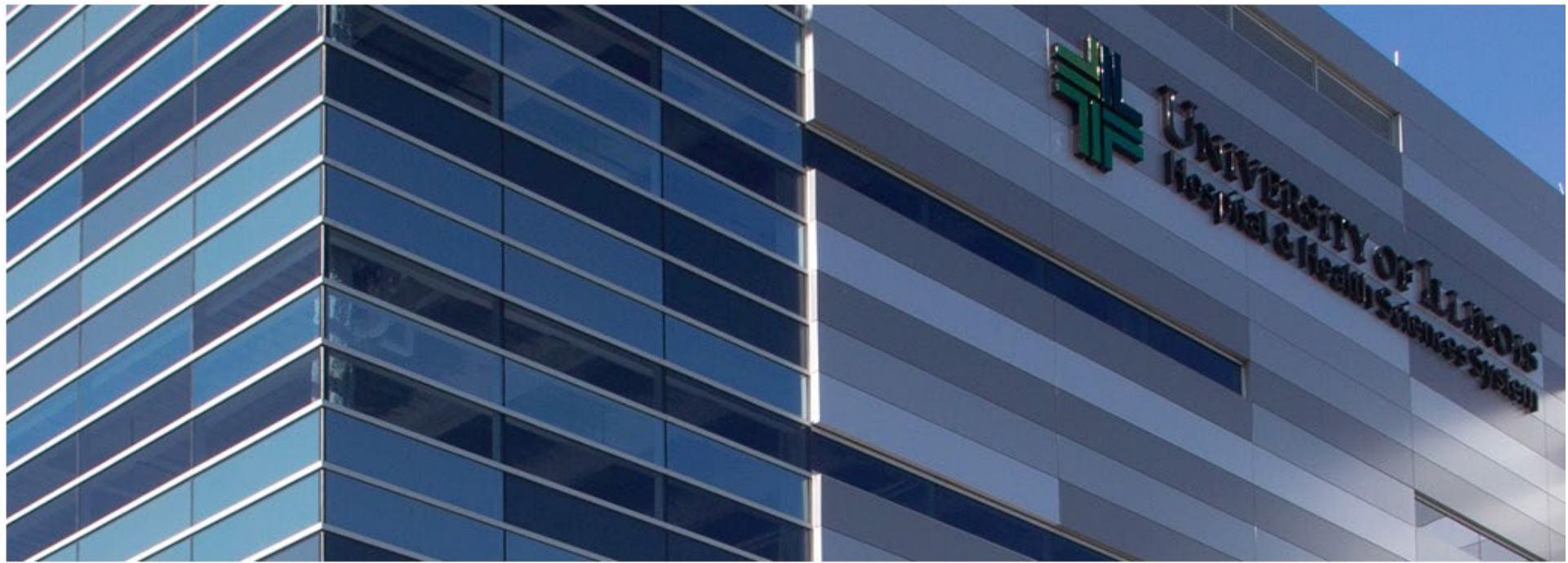
Good Questions to Ask

- Are clinical trials an option for me? If so, what types of clinical trials am I eligible for?
- What are my other options?
- What are my rights as a clinical trial participant?



Clinical Trial Resources

- University of Illinois Cancer Center: <https://cancer.uillinois.edu/patients-survivors/#aboutclinicaltrials>
- Food & Drug Administration (FDA): <https://www.fda.gov/patients/clinical-trials-what-patients-need-know>
- National Cancer Institute (NCI): <https://www.cancer.gov/about-cancer/treatment/clinical-trials>
- ClinicalTrials.gov



Questions?



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