



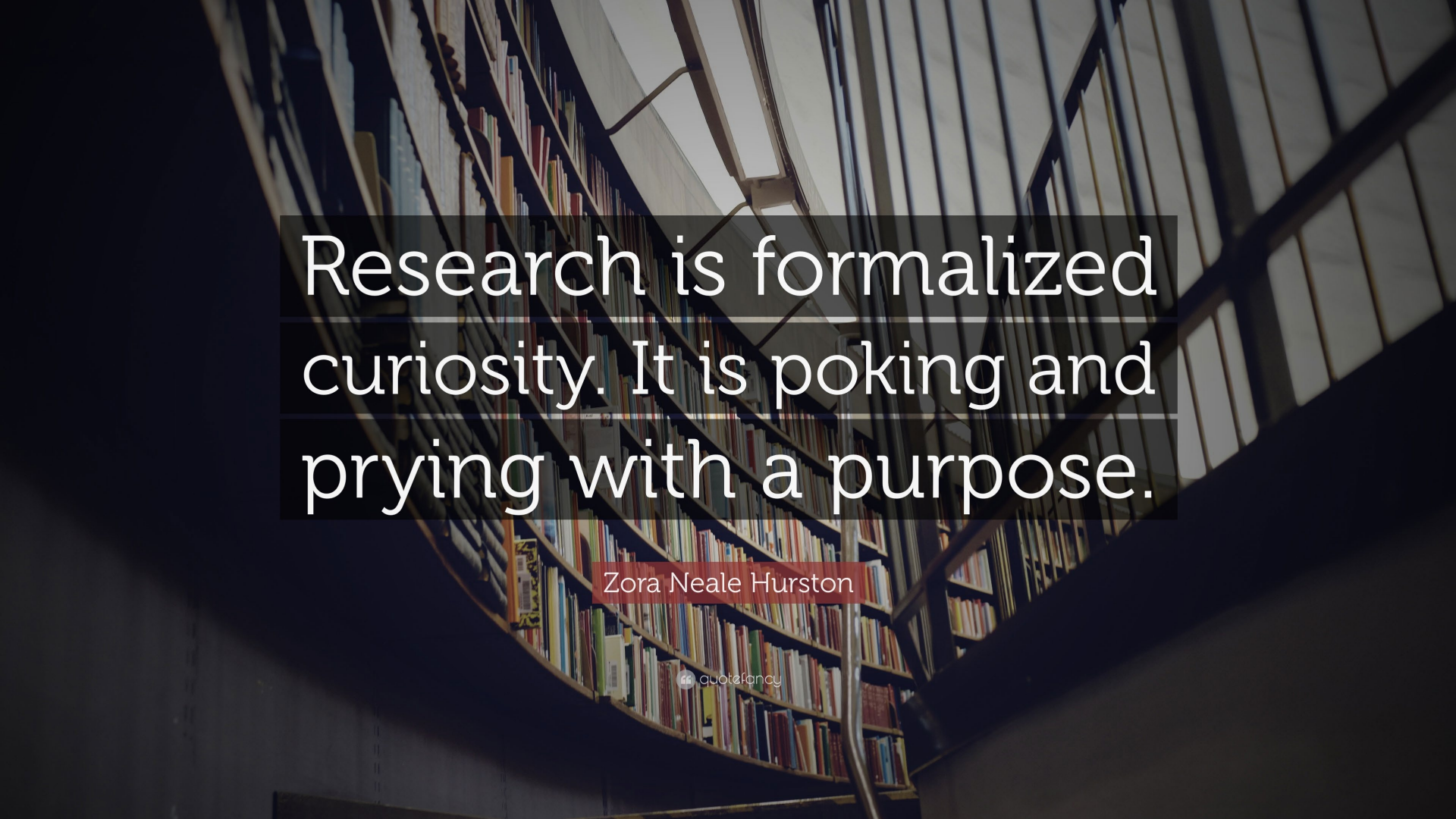
University of California
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Residency Training:

Section 4.1 Research Design and Human Subjects

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Research is formalized
curiosity. It is poking and
prying with a purpose.

Zora Neale Hurston

 quote fancy

Learning Objectives



Describe how the type of question determines study design



Be able to name three common clinical research study designs



Discuss the importance of human research subject protections

Research



What types of research questions can be answered in primary care settings?

	<i>Clinical research</i>	<i>Implementation research</i>	<i>Quality Improvement</i>
Goals	New or not fully tested intervention	Adapt an EBI for a new setting or population	Change with specific patients in a local context
Types of Questions	Can annual FIT between the ages of 45-49 lead to early detection of colorectal cancer?	Does mailing FIT kits to patients aged 45-49 every year lead to higher screening rates compared to usual care?	Does our clinic's mailed FIT program work better if we send kits on patients' birthdays with postage paid return envelopes?
Types of Interventions	Drugs, procedures, therapies, narrowly defined interventions	Evidence-based interventions adapted for new situations or populations	Process change, training, work-flow redesign, staffing, IT solutions, etc.
Types of Outcomes	Health outcomes	Health outcomes but also implementation	Health outcomes but also

Human
Subjects
Research $\neq$ Quality
Improvement

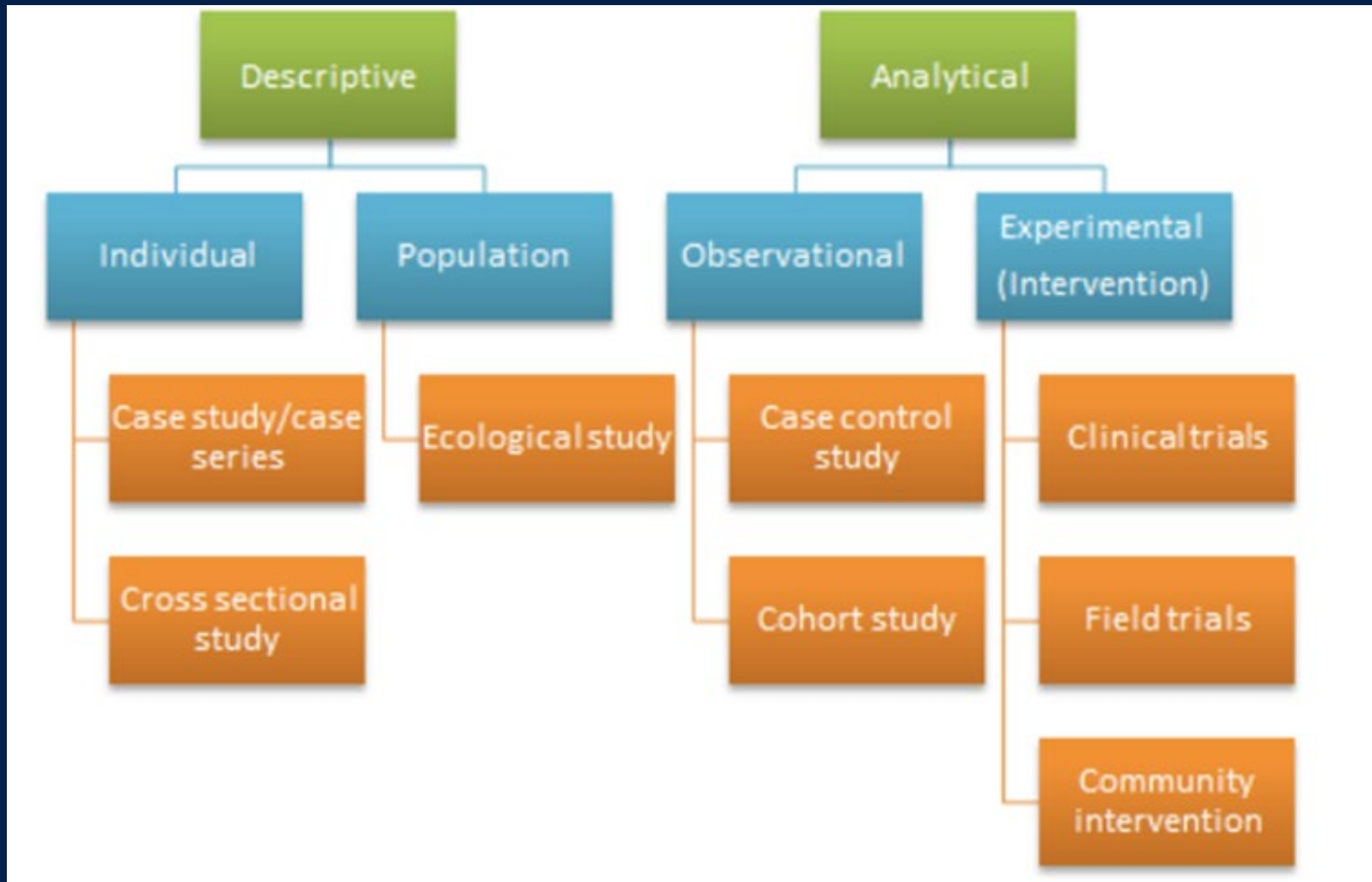
Research design



Clinical Research Designs

- Variety of ways to be designed
- Includes human subjects

Most common clinical research designs



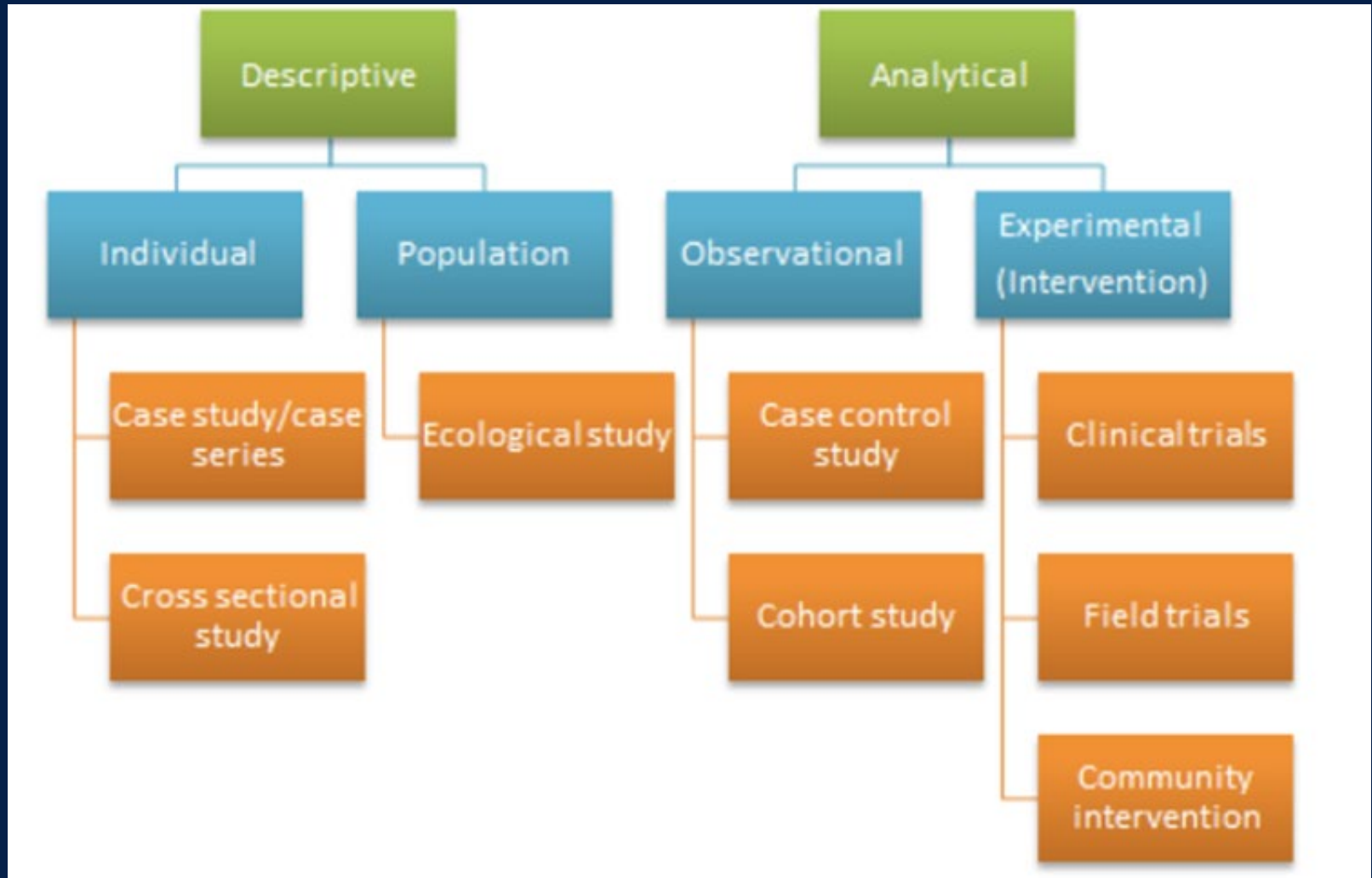
Why Human Research Subjects Protections



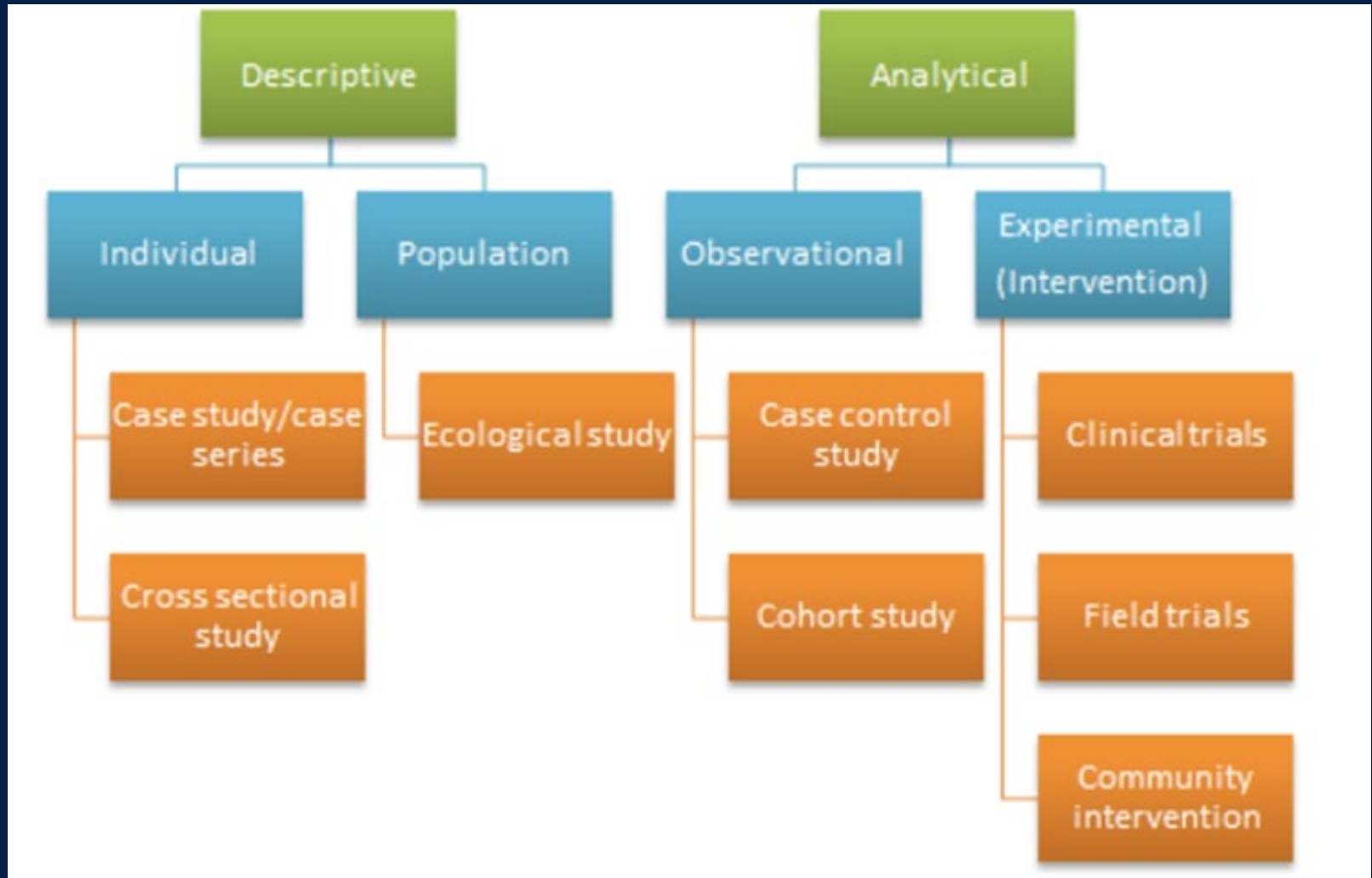
Human Research Subjects



Focus on Descriptive



Focus on Observational



Learning Objectives



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