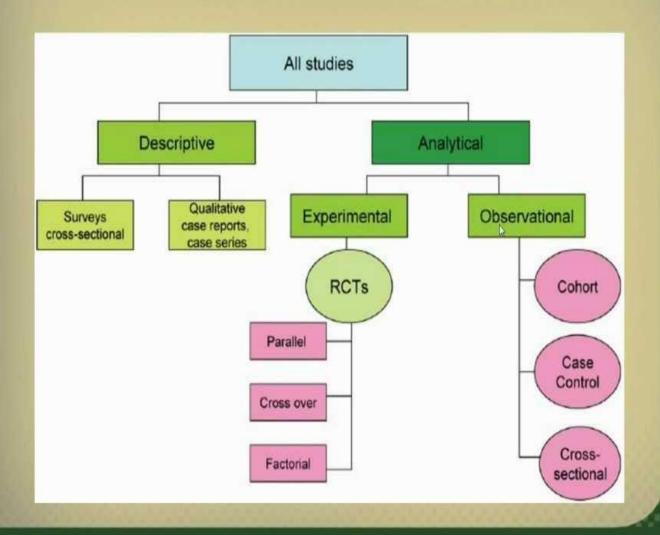
# Cohort Studies

Done by: Tengizbay Dinara

## **Overview of Study Designs**

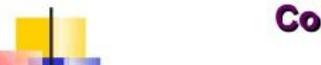


## What is Cohort?

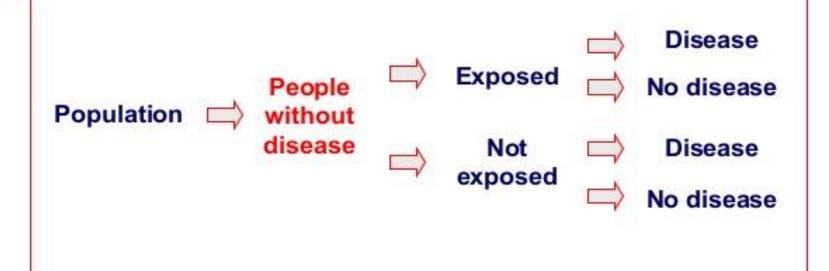
The term was introduced by Frost in 1935

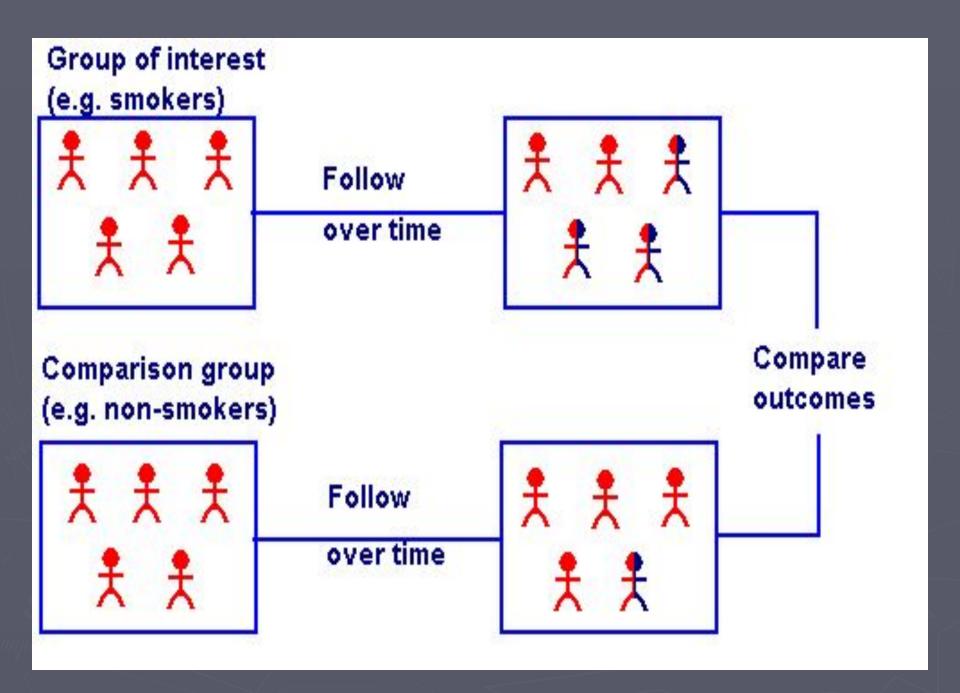


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#### **Cohort Studies**





	Cancer of the pancreas	No disease	Total	Incidence rate
Smokers	42	27,000	27,042	1.5/1000/yr
Non-smokers	7	63,000	63,007	0.1/1000/yr
Total	49	90,000	90,049	

## Types of Cohort Studies

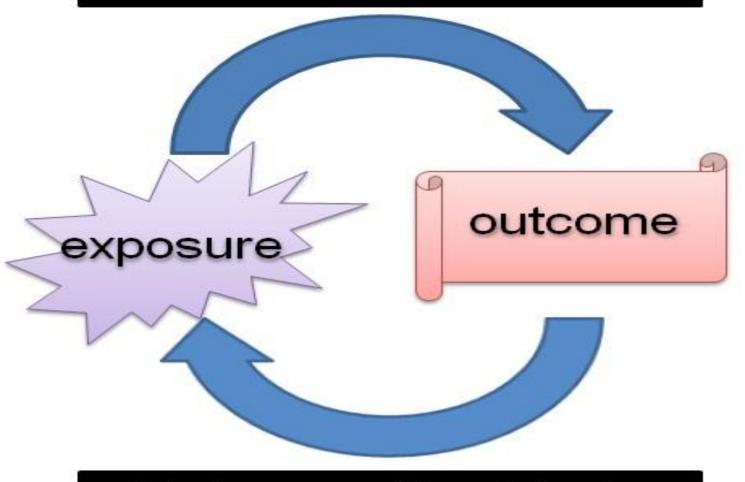
- Prospective (concurrent)
- Retrospective (historical)

## Prospective vs. Retrospective Cohort Studies

	Exposure	Outcome
Prospective	Assessed at the beginning of the study (present)	Followed into the future for outcome
Retrospective	Assessed at some point in the past	Outcome has already occurred

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## **Prospective Study**



Retrospective Study



# Advantages and disadvantages of cohort studies

#### Advantages

- Can study rare exposures
- Can measure incidence and risks
- Several outcomes calculated
- Direct estimate of relative risk
- Less subject to selection bias

#### Disadvantages

- Requires a large sample size
- Long period
- Lost to follow-up
- Ethical considerationsobliged to intervene to reduce or eliminate risk factor
- Expensive

# Thank you for your attention