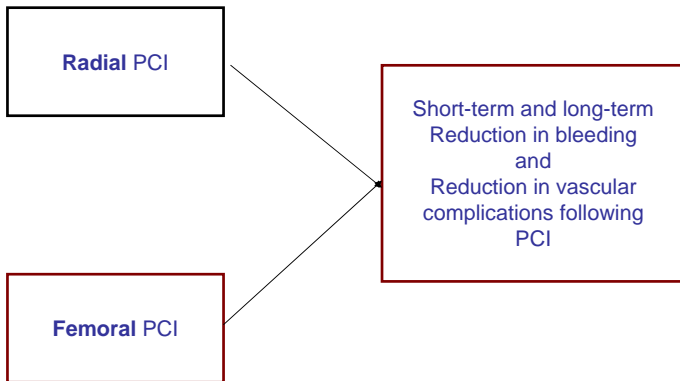


# CONSIDERATIONS FOR AN OBSERVATIONAL STUDY: RADIAL VERSUS FEMORAL APPROACHES TO PCI

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# HYPOTHESIS



# SOURCES OF VARIATION

- ▶ PCI
  - ▶ Approach (radial versus femoral)
  - ▶ Stenting – BMS versus DES
- ▶ Short-term outcomes
  - ▶ Approach (radial versus femoral)
  - ▶ Patient characteristics
  - ▶ Operator (skill)
  - ▶ Center (environment, nursing team, etc)
- ▶ Long-term outcomes
  - ▶ Approach (radial versus femoral)
  - ▶ Patient characteristics
  - ▶ Compliance with anticoagulation therapy
- ▶ Adverse events
  - ▶ Procedural – radial (loss of use of arm)

# IF WE COULD RANDOMIZE

	Center 1			Center k			Center l		
	Operator			Operator			Operator		
PCI Approach	1	2	$n_1$	1	..	$n_k$	1	2	$n_l$
Radial									
Femoral									

# OBSERVATIONAL STUDY

- ▶ How well can we predict radial versus femoral PCI use?
- ▶ Skill of operator to perform radial approach?
- ▶ Accuracy of bleeding outcomes and complications.
- ▶ Anticoagulation compliance post discharge?