non-systematic observations

induction

STEP 1
Scientifically relevant problem = theory

deduction

STEP 2
Research formulation
= research hypothesis
= research question
= population
= variables
1. Research design
   = sampling design
   = measurement instruments
   = measurement timing
   = method of analysis
2. Approval by Medical Review Ethics Committee and informed consent procedure

STEP 3
Research implementation
= systematic data collection

STEP 4
Research evaluation/interpretation
= results
= acceptance or rejection of hypothesis
= public accountability

Doubly sided arrow only in participatory research