Bayesian Analysis

Legend:
- prior (red)
- likelihood (blue)
- posterior (purple)

parameter
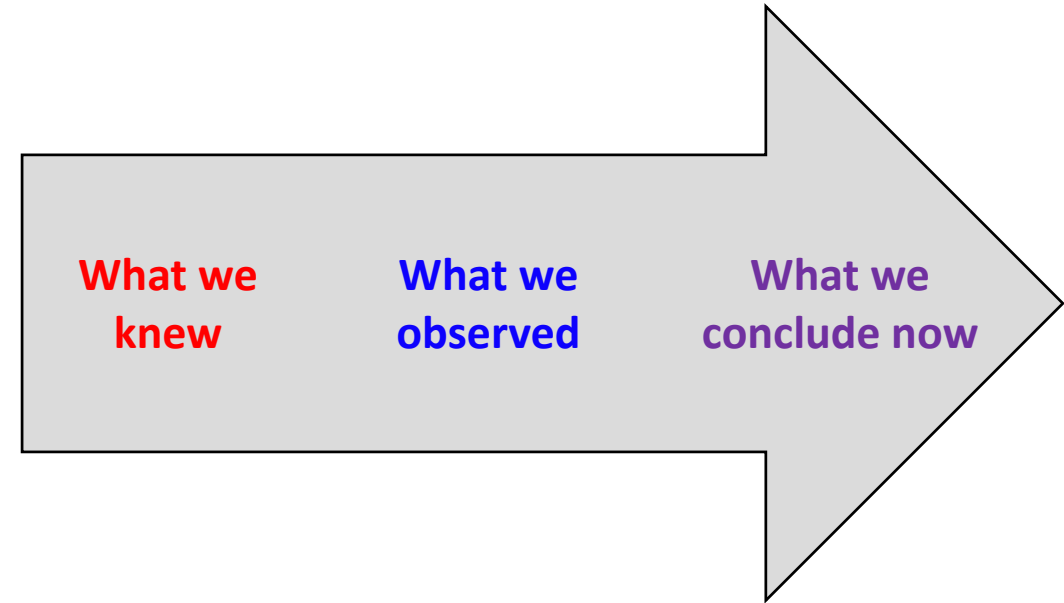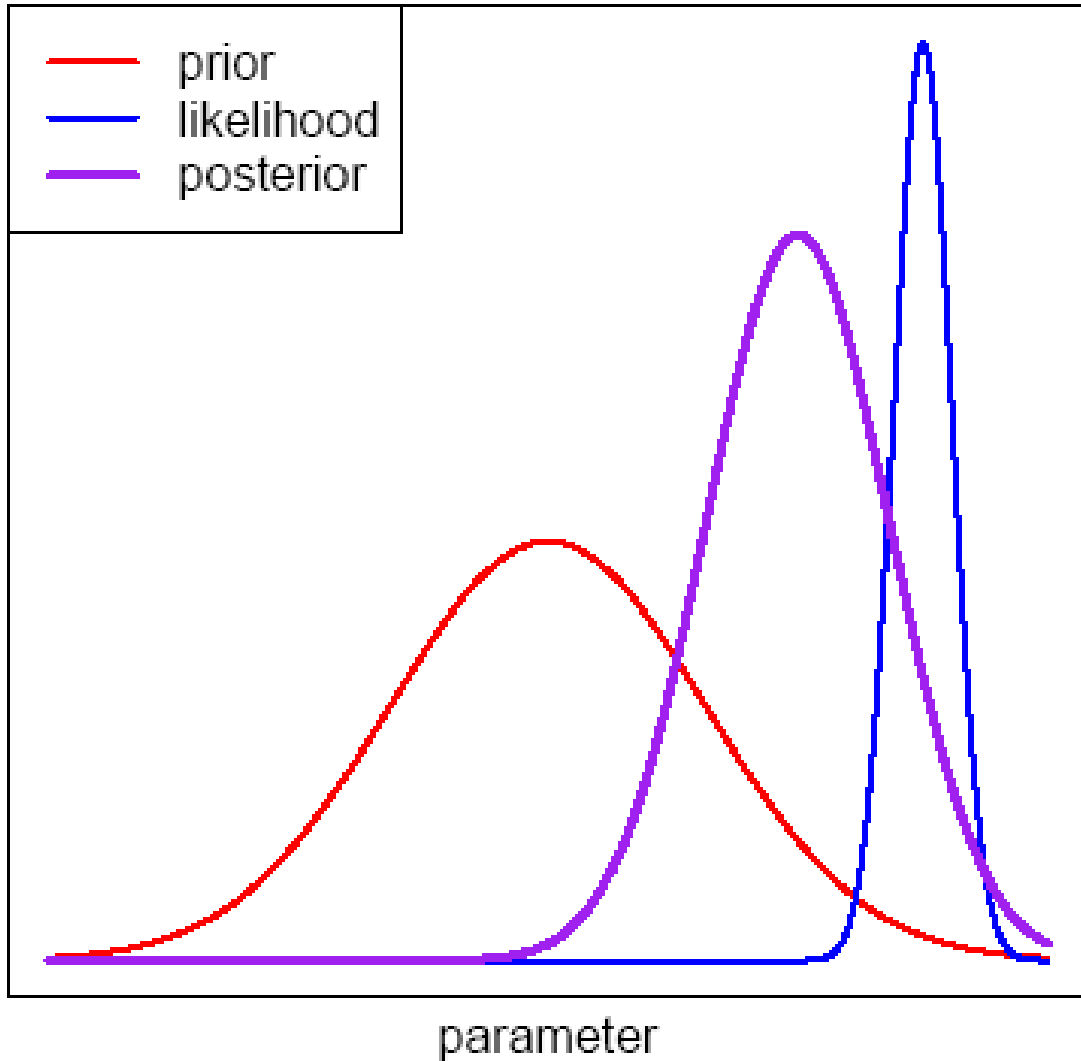
What we knew → **What we observed** → **What we conclude now**

Bayesian Analysis in Rare Diseases

- Advantages
  - Borrowing/sharing information -> efficiency gain
  - Account for uncertainty in prior knowledge
  - Flexible
  - Decision making and interpretation with probability thinking on clinical scale

- Disadvantages
  - Paradigm shift