

# Computer simulation modelling of bloodstream infection

*Hospital in a box*

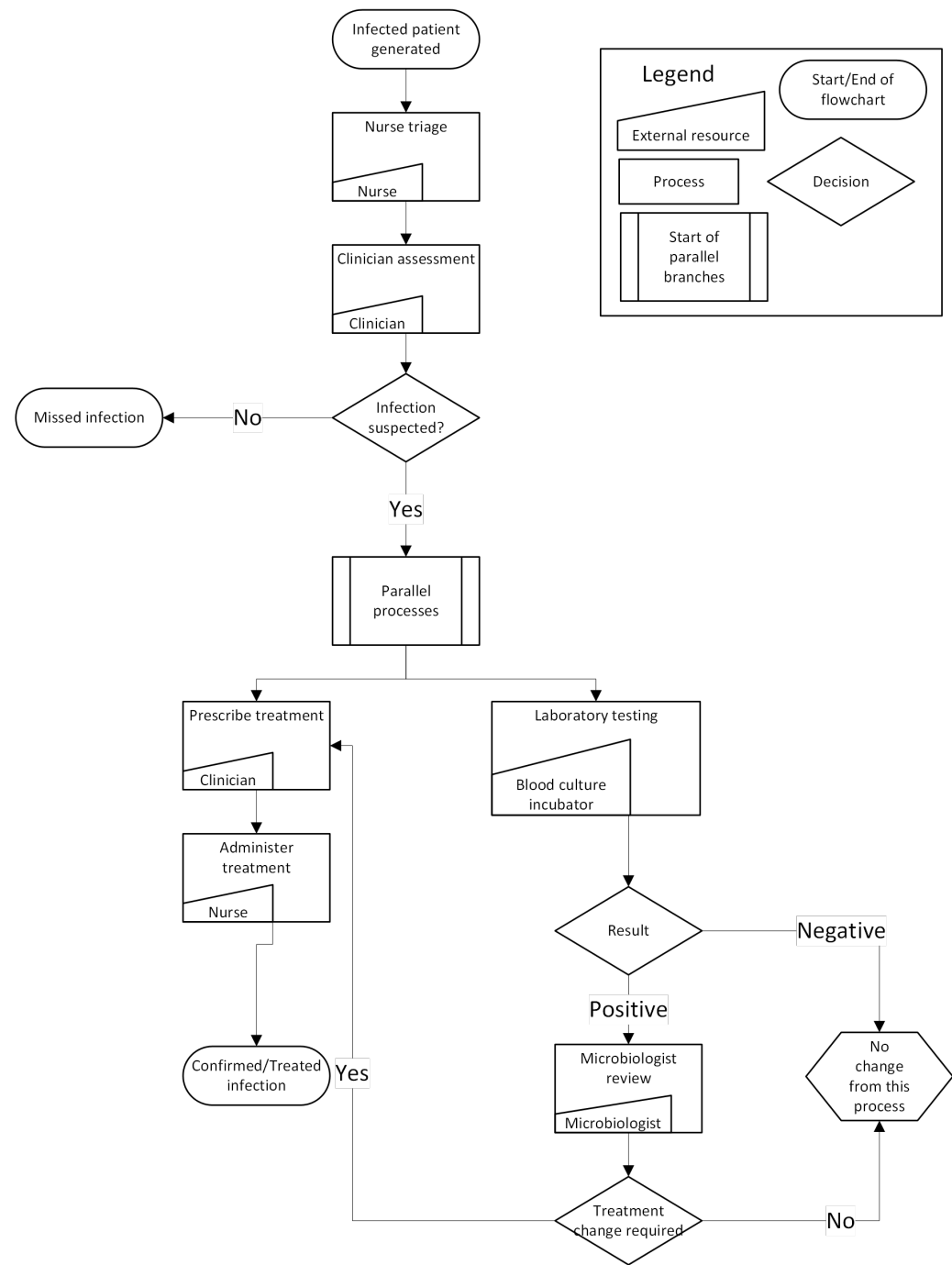
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# System wide decision making

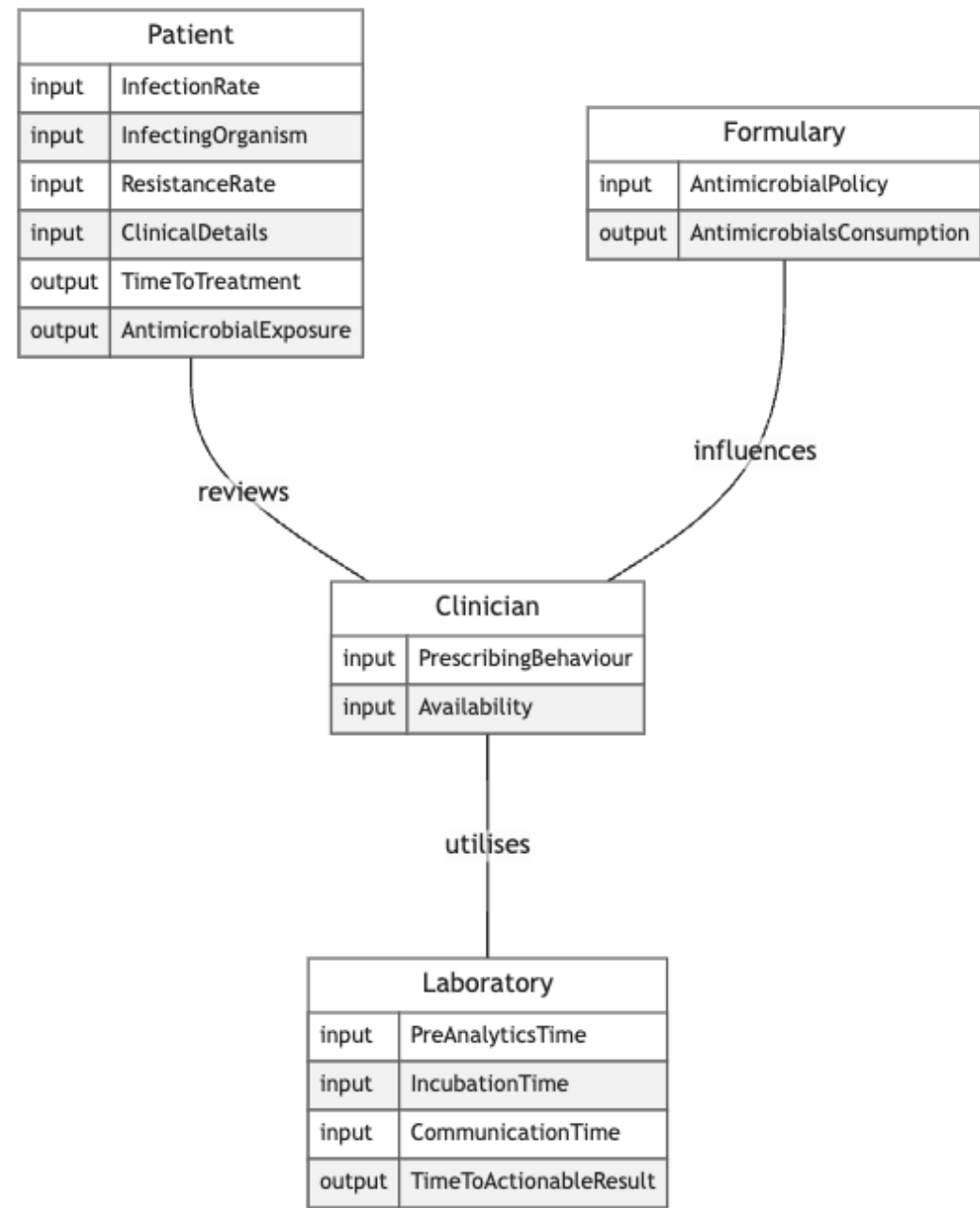
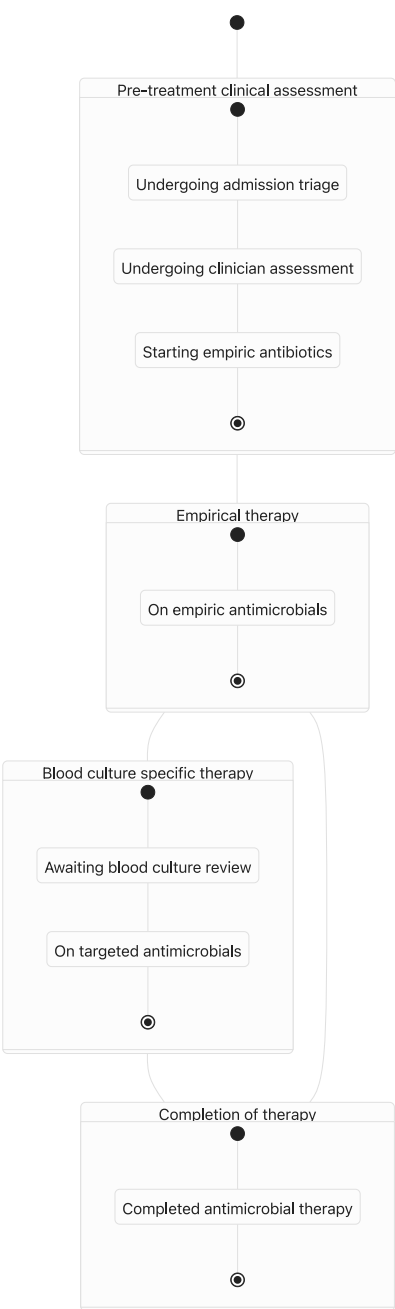
- For example, antimicrobial formulary decisions
- Based on aggregate retrospective data
- Forward modelling of impact is difficult, relies mainly on surveillance
- Understanding impact on longitudinal patient journey is difficult without time consuming manual audit
- The challenge is that healthcare systems are complex and difficult to model











# Next Steps

- Structured interviews to produce flowcharts
- Collect retrospective data on time intervals
- Direct patient observations as necessary
- Start programming the laboratory simulation module