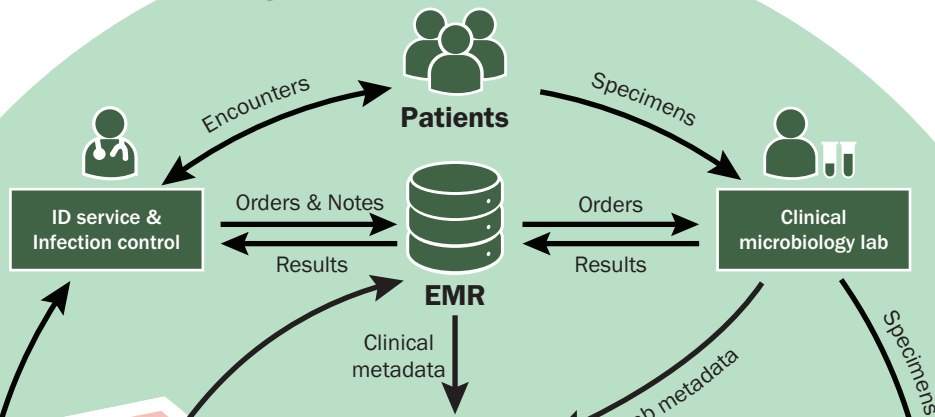


CLINICAL PRACTICE



Management Strategies



Transmission? Outbreak?	Resistance phenotypes
Virulence phenotypes	Risk prediction

Pathogen phenotypes



e.g. prior outcomes

Multiscale analysis

INTEGRATIVE MODELING

Normalization & Warehousing

Sequencing & Typing



Genomic analysis

Pathogen databases

NEXT GENERATION SEQUENCING

Imputed annotations

Annotated sequences