

## Clinical Decision Support: Clinical Decision Support Systems

Multimodal CDSS provides integrated diagnosis, treatment recommendations, and prognosis prediction

### Diagnostic Support

Multi-data based diagnosis

- Imaging + Laboratory tests
- Symptoms + Medical history
- Vital signs + Physical examination
- Probabilistic diagnosis presentation

### Treatment Recommendations

Personalized treatment planning

- Drug selection and dosage
- Surgery vs Conservative treatment
- Side effect risk assessment
- Guideline compliance

### Prognosis Prediction

Long-term outcome estimation

- Survival rate prediction
- Complication risk level
- Recurrence probability
- Functional recovery expectation

### Real-time Monitoring

Continuous patient observation

- Early deterioration warning
- Automated alert system
- Trend analysis
- Intervention timing suggestion

Emergency Room  
Triage

ICU  
Management

Chronic Disease  
Management