

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