Cognitive Computing
Cognitive Computing

1. Understands natural language and human communication

2. Generates and evaluates evidence-based hypothesis

3. Adapts and learns from user selections and responses
 Manipal Hospital, Bangalore

• 600-bed quaternary care facility
• 50,000 admissions/year
• 52 specialties & 60 sub-specialties
• Comprehensive Cancer Center
• Ranked in top 10 multi-specialty hospitals in India
Concordance

Manipal MMDT-WFO

- All Cases: 92% (n=1000)
- Breast cancer: 92% (n=638)
- Colon cancer: 81% (n=126)
- Rectal cancer: 93% (n=124)
- Lung cancer: 89% (n=112)
Conclusion

Cognitive computing:
- reduce cognitive burden
- systems of insights and learning

Cognitive computing clinical decision support systems
- very promising for solid tumor cancer treatment advice
- can be applied to any professional domain