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## **Multimedia Appendix**

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## 1 Multimedia Appendix 1

### 1.1 HIMSS Analytics Maturity Assessment Model (AMAM) Stages

Stage	Name	Description	Key Capabilities
Stage 0	Data Collection	Basic data capture without integration	Manual data entry, paper records
Stage 1	Data Verification	Automated data validation and error checking	Basic quality controls, automated checks
Stage 2	Data Utilization	Standard reporting and basic analytics	Automated reports, dashboard creation
Stage 3	Automated Decision Support	Rule-based clinical and operational support	Clinical alerts, automated protocols
Stage 4	Population Health Analytics	Population-level analysis and intervention	Cohort identification, risk stratification
Stage 5	Predictive Analytics	Statistical modeling and predictive capabilities	Predictive models, trend analysis
Stage 6	Cognitive Analytics	Machine learning and AI integration	Advanced AI, pattern recognition

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Stage	Name	Description	Key Capabilities
Stage 7	Precision Medicine	Personalized treatment and genomic integration	Personalized care, genomic analytics

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