
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 |

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