

Case Studies

 **Diabetic Retinopathy AI**
Google Health / Screening Tool

SUCCESS

90% Sensitivity	98% Specificity	50K+ Patients
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- Strong clinical validation across populations
- Clear regulatory pathway (FDA approved)
- Effective provider training program

 **Watson for Oncology**
IBM / Treatment Recommendations

LESSONS

Limited Adoption	High Cost	Variable Results
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- Insufficient local data adaptation
- Over-promised capabilities
- Poor integration with workflows

 **Sepsis Prediction Model**
Epic Systems / Risk Alert

EVOLVING

63% PPV	Wide Deploy	Mixed Reviews
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- Alert fatigue concerns addressed
- Continuous model improvement
- Need for local calibration

 **IDx-DR**
First Autonomous AI / FDA De Novo

LANDMARK

1st FDA AI	87% Accuracy	2018 Approved
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- Clear intended use definition
- Robust clinical trial design
- Set regulatory precedent