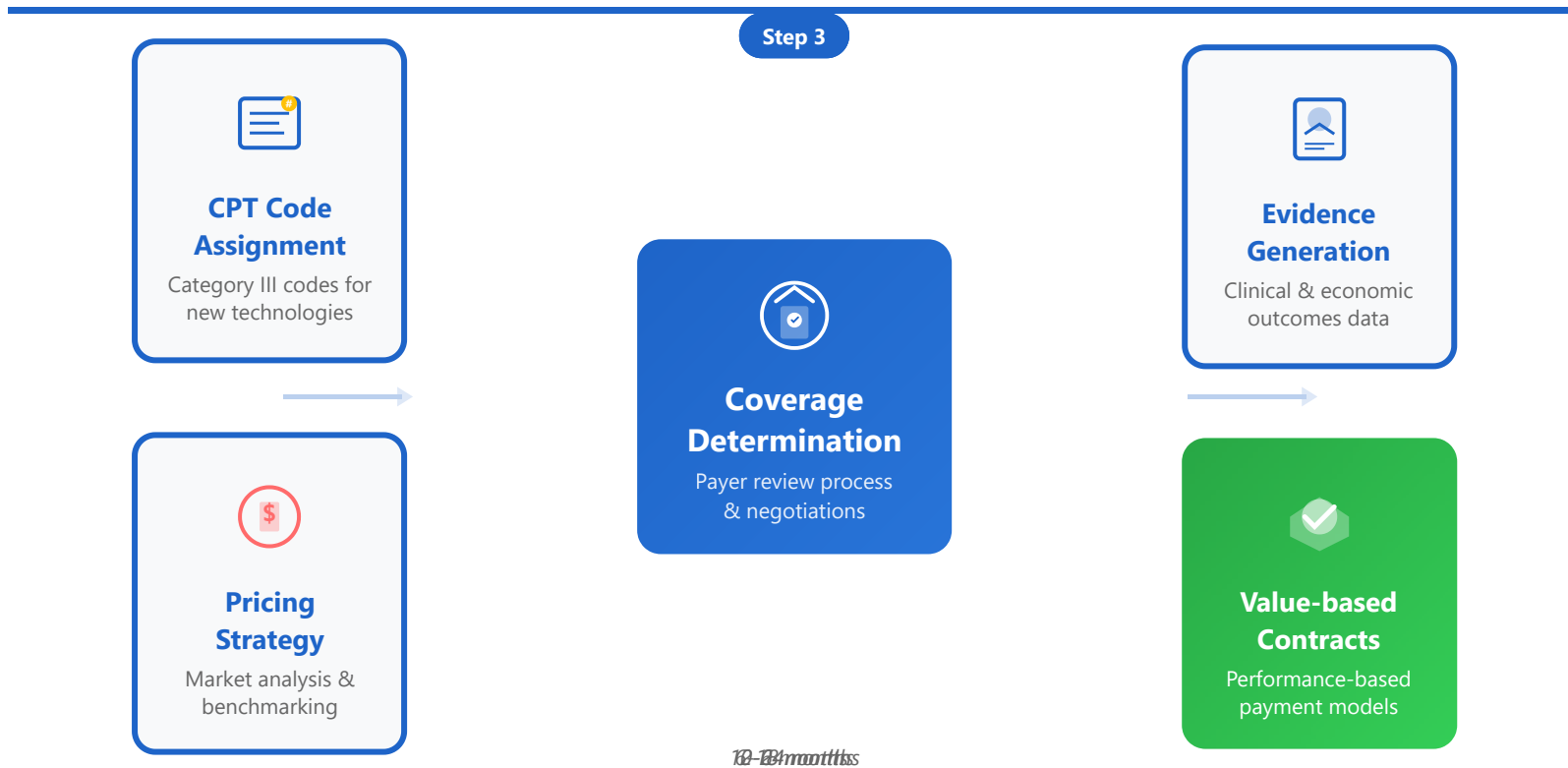
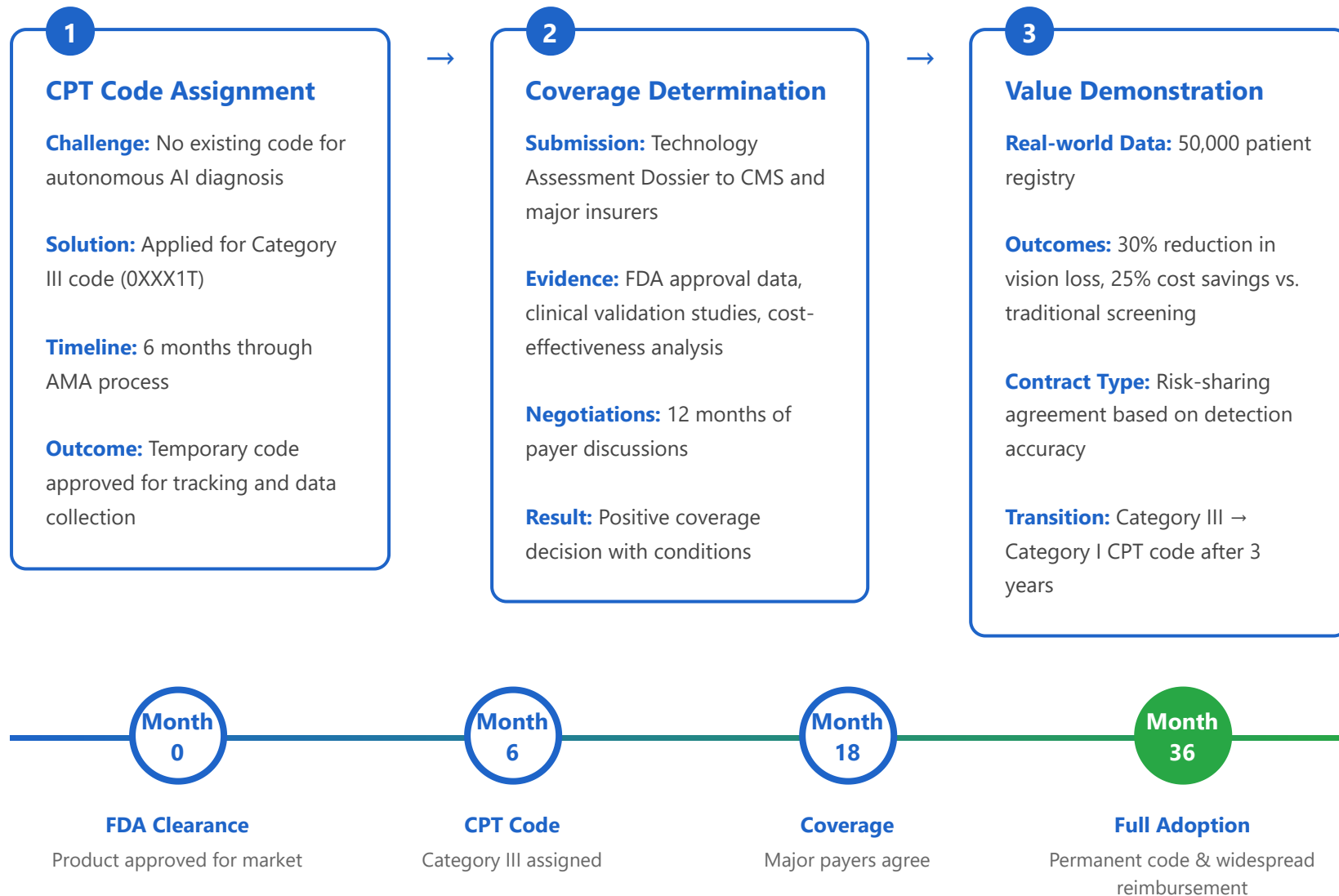


Reimbursement



Real-World Example: AI-Powered Diagnostic Tool

Case Study: AI-Based Diabetic Retinopathy Detection System



Key Success Factors

- **Strong Clinical Evidence:** Multi-center validation studies demonstrating comparable or superior performance to ophthalmologists

- **Health Economics Data:** Clear cost-benefit analysis showing healthcare system savings through earlier detection
- **Stakeholder Engagement:** Early collaboration with medical societies, payers, and healthcare providers
- **Real-world Evidence:** Continuous data collection demonstrating consistent performance in diverse clinical settings
- **Risk Mitigation:** Willingness to enter value-based contracts and share financial risk based on outcomes

Understanding Each Reimbursement Component

CPT Coding

Purpose: Establishes a standardized way to bill for services

Category I: Established procedures with proven clinical efficacy (permanent codes)

Category III: Emerging technologies, temporary codes valid for 5 years

Application Process: Submit to AMA CPT Editorial Panel with supporting clinical data

Pricing Strategy

Cost-Plus Approach: Calculate development costs + desired margin

Value-Based Pricing: Price based on clinical and economic value delivered

Competitive Benchmarking: Analyze comparable procedures and technologies

Considerations: Payer mix, market access strategy, volume projections

Coverage Policies

National Coverage: CMS decisions affect Medicare/Medicaid (45M+ patients)

Local Coverage: Regional Medicare Administrative Contractors (MACs)

Private Payers: Individual negotiations with commercial insurers

Evidence Requirements: Clinical utility, safety, effectiveness vs. alternatives

Evidence Generation

Clinical Trials: Randomized controlled trials when feasible

Real-World Evidence: Registry studies, observational data from actual use

Economic Analysis: Cost-effectiveness, budget impact models

Patient-Reported Outcomes: Quality of life, satisfaction measures

Common Challenges & Mitigation Strategies

Challenge 1: Long Timeline to Reimbursement → Start CPT application early, pursue pilot programs with self-pay or research funding

Challenge 2: Insufficient Evidence → Design prospective studies during development, establish patient registries from launch

Challenge 3: Payer Skepticism → Build relationships early, provide transparent data, offer risk-sharing arrangements

Challenge 4: Variable Coverage → Create standardized medical policy templates, engage multiple payers simultaneously

Challenge 5: Pricing Pressure → Demonstrate unique value proposition, consider tiered pricing or bundled payment models