# Transparency Paradox Tradeoff: Short-term Attack Gains vs Long-term Defensive Benefits
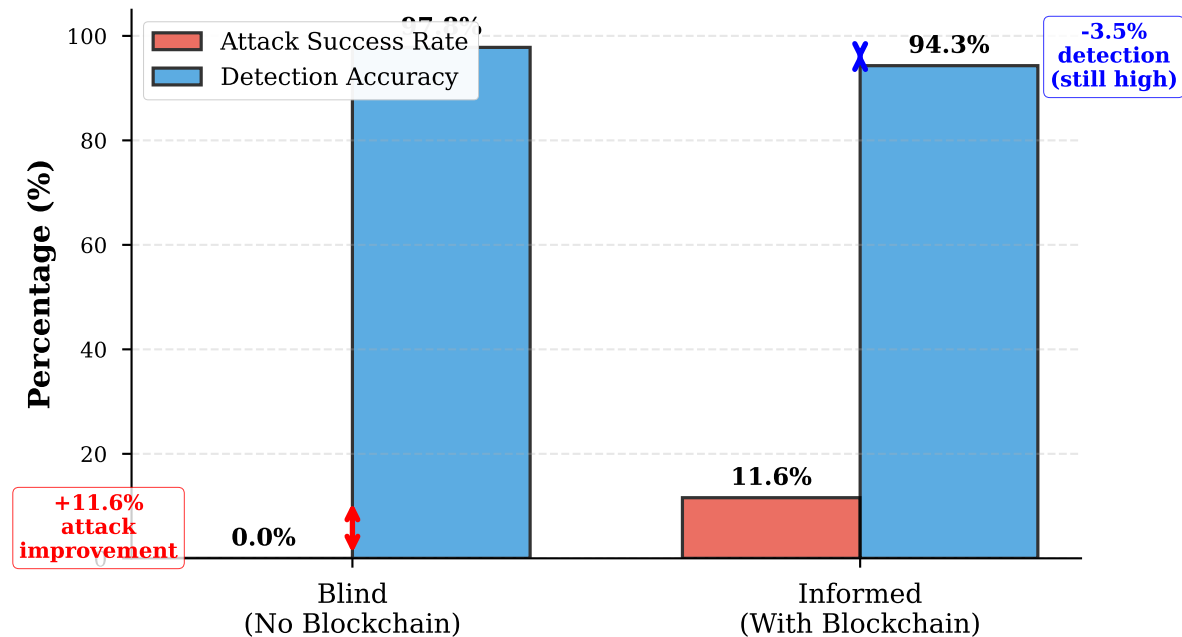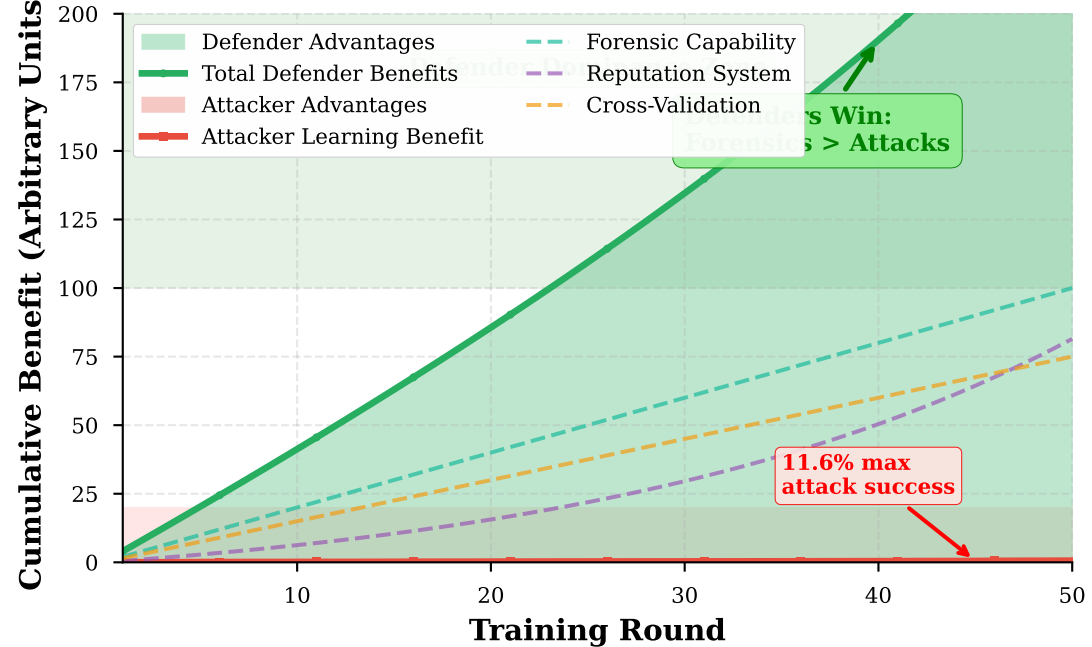


**(a) Immediate Impact: Attack Success vs Detection**

Legend:
- Attack Success Rate
- Detection Accuracy

- +11.6% attack improvement
- -3.5% detection (still high)
- Blind (No Blockchain): 0.0%, 97.8%
- Informed (With Blockchain): 11.6%, 94.3%

**(b) Lifecycle Analysis: Cumulative Accountability Benefits**

Legend:
- Defender Advantages
- Total Defender Benefits
- Attacker Advantages
- Attacker Learning Benefit
- Forensic Capability
- Reputation System
- Cross-Validation

- Defenders Win: Forensics > Attacks
- 11.6% max attack success

Note: Empirical data from 24 FLARE-style adaptive attack experiments (with/without blockchain access). Defender advantages include forensic analysis, reputation systems (-73% repeat attacks), and cross-validation.