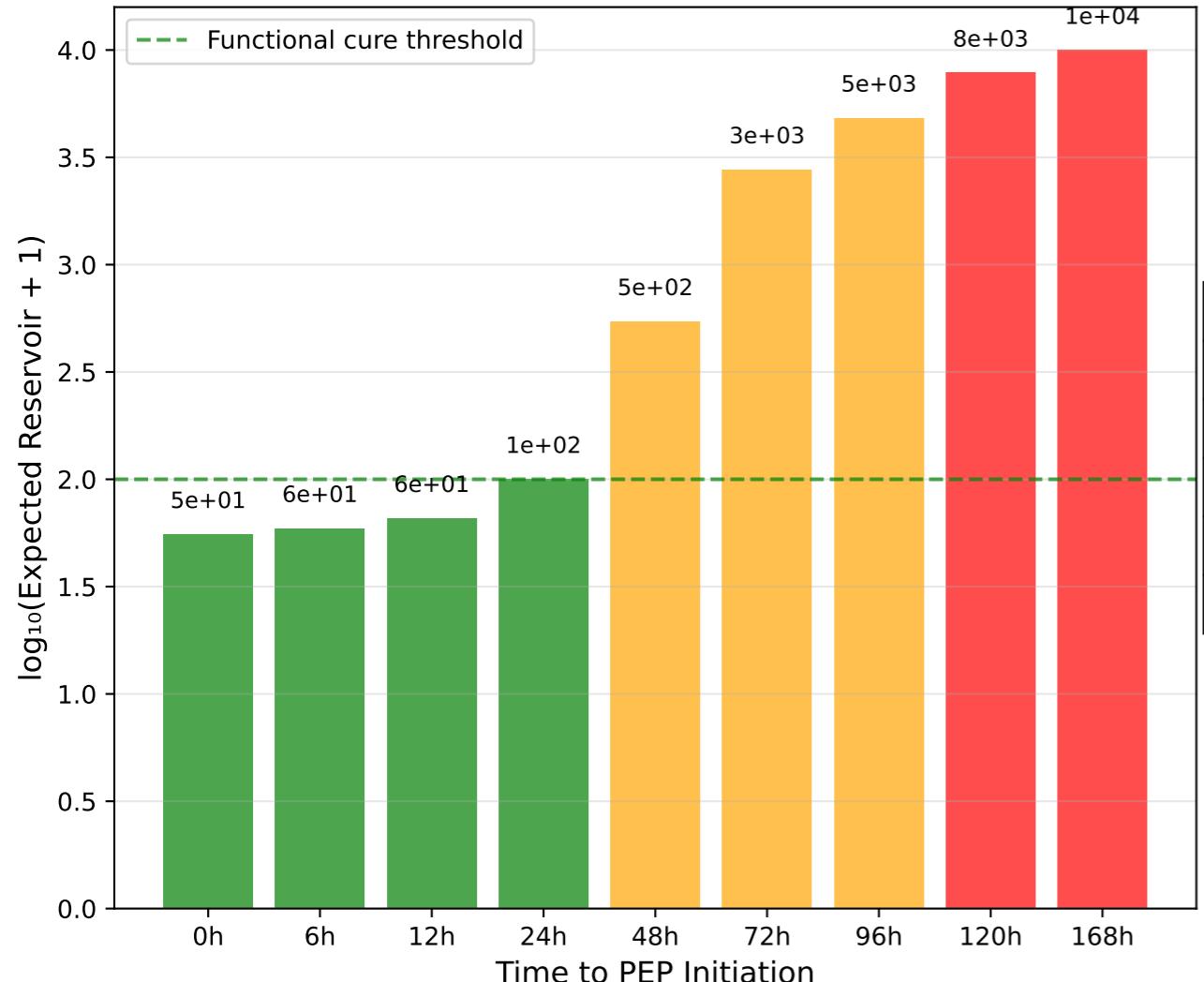


A. Expected Reservoir at 50 Years by PEP Timing



PEP TIMING IS EVERYTHING

| Scenario | Efficacy | $E[\text{Reservoir}]$ | Outcome |
|-------------|----------|-----------------------|------------------|
| PEP at 0h | >99% | ~0 | PREVENTED |
| PEP at 24h | ~95% | ~500 | Likely prevented |
| PEP at 72h | ~70% | ~3,000 | Maybe prevented |
| PEP at 120h | ~20% | ~8,000 | Probably failed |
| No PEP | 0% | ~10,000 | INFECTED |

The Prevention Theorem has a time-dependent corollary:
PEP efficacy decays exponentially with delay.

Every hour is ~2% efficacy lost.