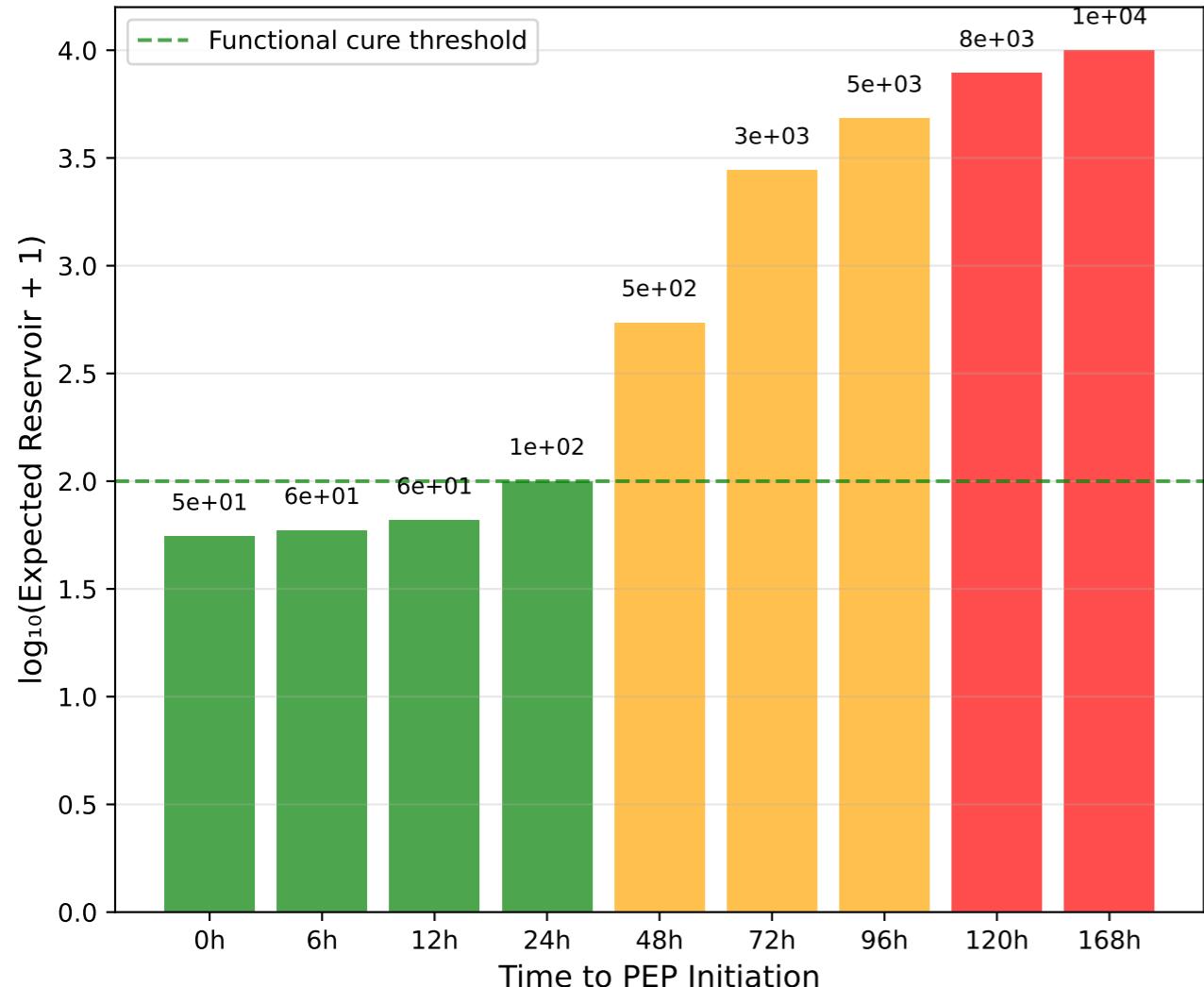


A. Expected Reservoir at 50 Years by PEP Timing



PEP TIMING IS EVERYTHING

Scenario	Efficacy	$E[\text{Reservoir}]$	Outcome
PEP at 0h	>99%	~0	Full Prevention
PEP at 24h	~95%	~500	High Efficacy
PEP at 72h	~70%	~3,000	Moderate Efficacy
PEP at 120h	~20%	~8,000	Low Efficacy
No PEP	0%	~10,000	Infection Established

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

Every hour is ~2% efficacy lost.