

Sample Quantitative Risk Analysis

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Asset and value	Threat	% of asset loss if threat occurs	Estimated frequency of expected threat	Estimated annual loss	Safeguards, counter-measures and annualized cost
Patient health information maintained on server \$5,000,000	Access to information by hacker	1%	56/yr	\$2,800,000	<ol style="list-style-type: none"> 1. Firewall (\$60,000) 2. Intrusion detection (\$250,000) 3. Encryption (\$225,000)
Laptop Computer \$13,000	Theft	100%	2/yr	\$26,000	<ol style="list-style-type: none"> 1. Employee education (\$10,000) 2. Passwords (\$20,000) 3. Encryption (\$20,000)

Assets include information, computer hardware, software, physical property such as building or furniture, and employees, for example.

Threats include natural disasters, power outages, computer viruses, theft, unauthorized disclosure, and human error, for example.