Daily Exercise Solution

Future states:

State	Payoff
S	\$10M
W	\$0

Buyer types and EVs:

Type	Pop	$ ho_{S}$	EV	Value
Н	500	0.02	0.02*\$10M	\$200k
L	9500	0.001	0.001*\$10M	\$10k

Expected cost:

EV = (500/10,000)*\$200k + (9500/10,000)*\$10k

EV = 0.05 * \$200k + 0.95 * \$10k

EV = \$19.5k

Fraction uncovered:

Type	Рор	Sick	Spending
Н	500	.02*500 = 10	10*\$10M = \$100M
L	9500	0.001*9500 = 9.5	9.5*\$10M = \$95M
Total	10000	19.5	\$195M

Uncovered portion, L share of sick individuals:

9.5/19.5 = <mark>0.4872 or 49%</mark>