

Assessing the Costs and Benefits of an Oral Vaccine for Raccoon Rabies: A Possible Model

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A cost-benefit analysis uses the following formula (15):
Threshold costs were calculated by altering vaccine cost so that benefits minus cost, when discounted and summed over time, had an NPV of \$0.

$$\text{Net Present Value (NPV)} = \sum_{t=0}^{t=n} \frac{(\text{Benefits-Costs})_t}{(1+r)^t}$$

where:

t = year, from t = 0, . . . , n
r = discount rate.

Reference

15. Haddix AC, Teutsch SM, Shaffer PA, Dunet DO, eds. Prevention effectiveness: A guide to decision analysis and economic evaluation. New York: Oxford University Press, 1996.