

Activity 1.1.3 Problem Solving Process

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ARD Week 1

Dr. Walter Plowright (1999 World Food Prize Laureate)

Clearly define the problem: In less developed countries vaccines were available but had serious drawbacks. Rinderpest outbreaks through Asia and Africa could decimate up to 90% of a regions herds, losing a lot of money, affecting a key source of protein, and even affecting food crops.

Propose a solution: Dr. Plowright believed he could adopt cell culture techniques used to make the polio vaccine to develop a rinderpest vaccine.

Develop a protocol: Not specified in biography

Conduct experiment: Field tests were conducted from 1956-1963

Communicate results: Used safely in all types of cattle, economic to produce, worked for a lifetime, genetically stable, and no clinical side effects.

Conclusion: Was done so well his protocols were used to develop other livestock vaccines.