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Norwegian Medical  
Products Agency

# Hemoglobinopathies HTA Challenges

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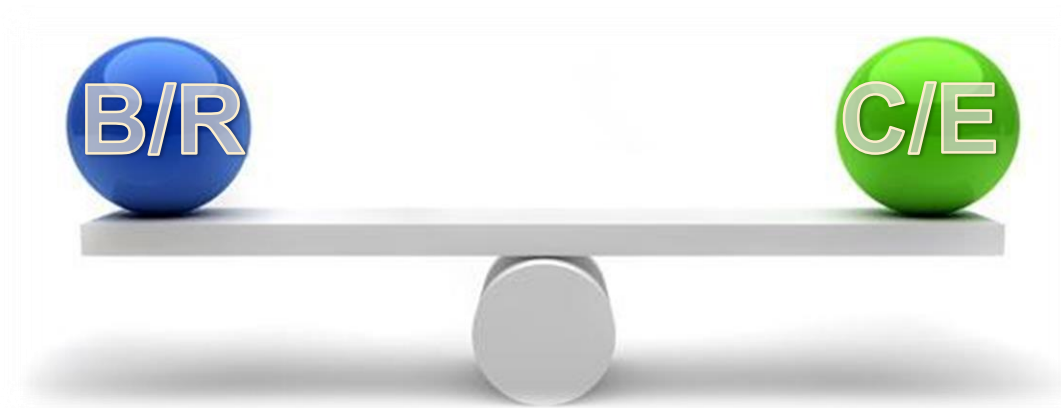
# Disclaimer

The views expressed are those of the presenter and should not be understood or quoted as being made on behalf of:

- Norwegian Medical Products Agency (NOMA)
- The European Medicines Agency (EMA) or its scientific committees
- The HTAR Coordination Group (HTAR CG)

# The Difference between B/R and C/E

- Health economic models predict the future based on available data from different sources

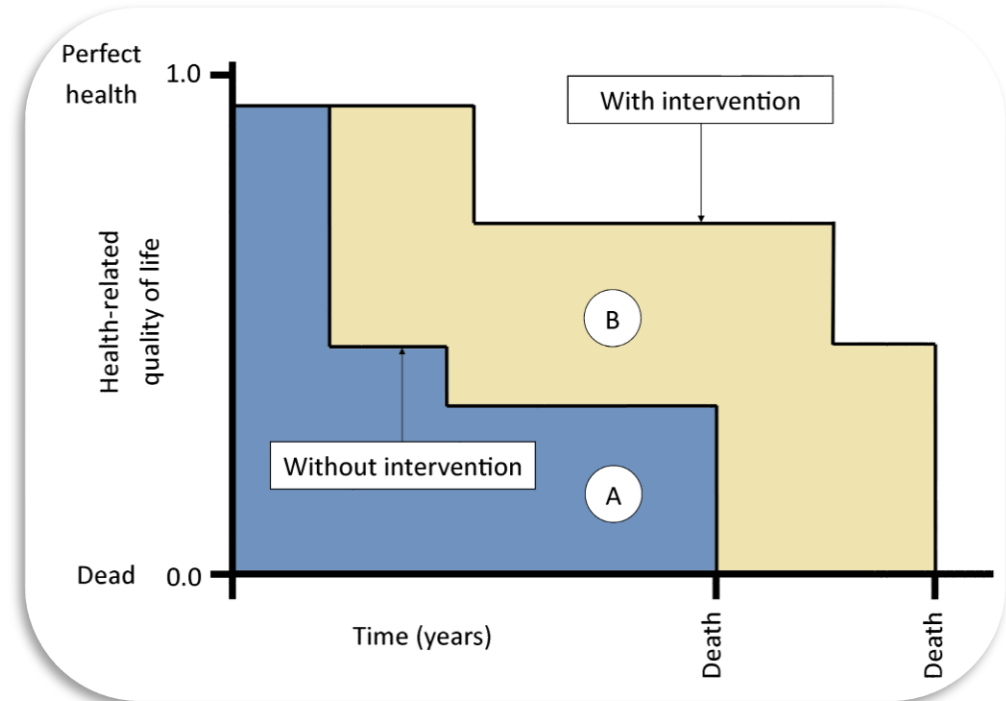


- All models are wrong; some models are useful

George E. P. Box; Norman R. Draper (1987)

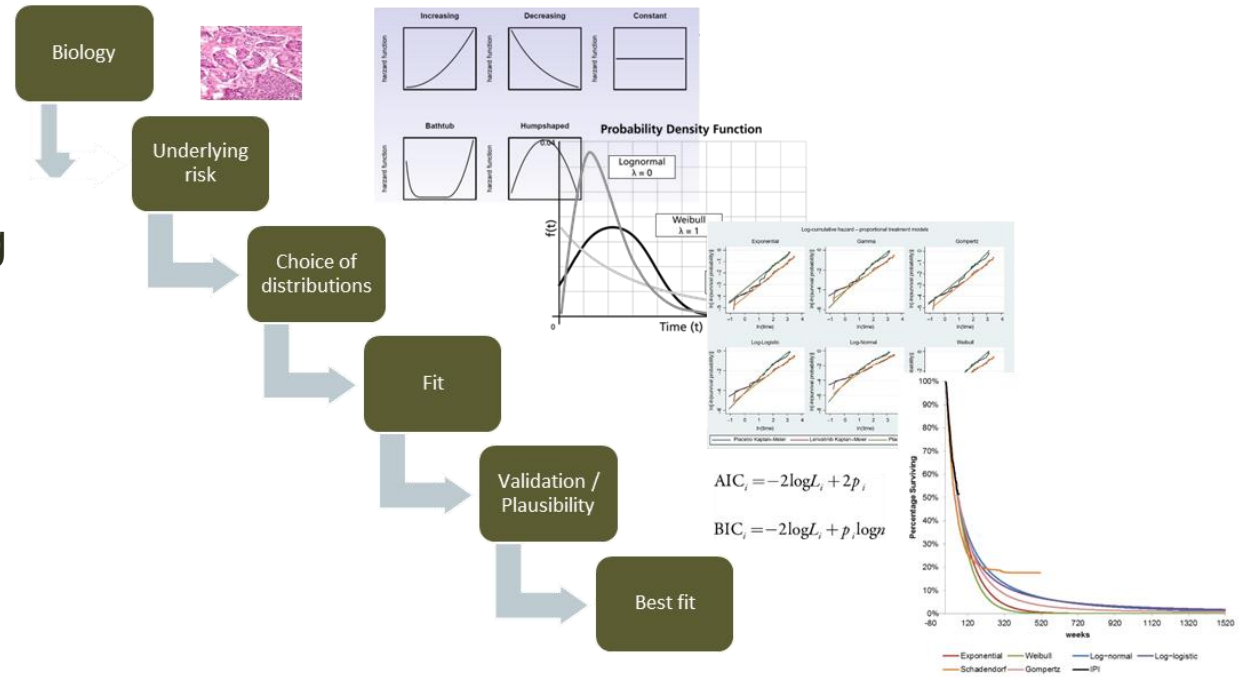
# The principle of QALY's

- Many HTABs do Health Economic assessments based on cost-utility analyses (CUA), not all.
- The quality-adjusted life year (QALY) is a generic measure of disease burden, including both the **quality** and the quantity of life lived. (Wikipedia)



# The principle of QALY's

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- Unless we have a study that would cover the entire length of the natural course of the disease, we need to extrapolate beyond the observation in the trial.



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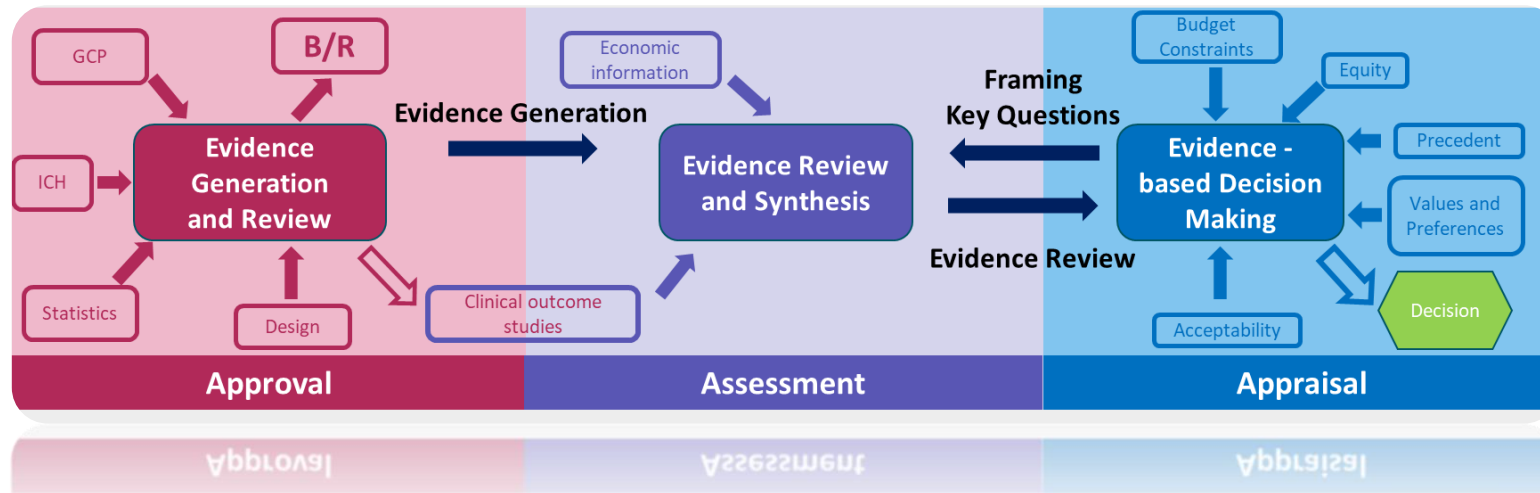
- NoMA does Health Economic assessments based on cost-utility analyses (CUA)
- The quality-adjusted life year (QALY) is a generic measure of disease burden, including both the **quality** and the quantity of life lived. (Wikipedia)
- Unless we have a study that would cover the entire length of the natural course of the disease, we need to extrapolate beyond the observation in the trial.
- We create what is called a counterfactual reality



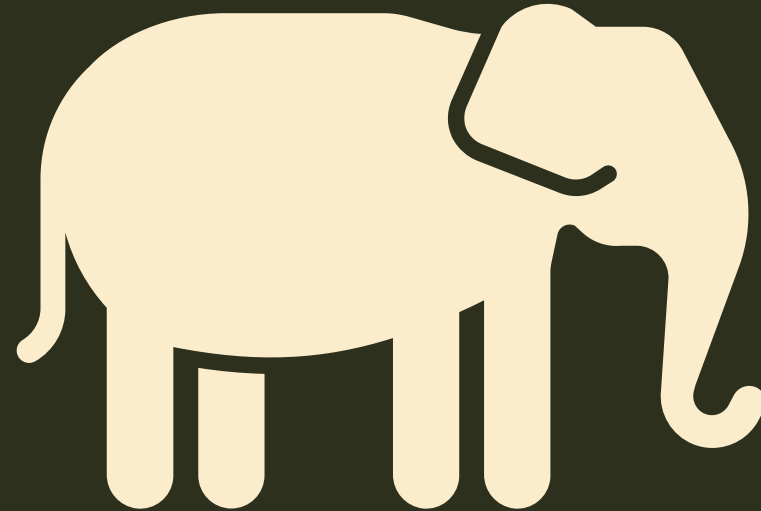
How do you want it - the crystal mumbo jumbo  
or statistical probability?

# Welfare Economics

- A Pareto improvement if it leaves **everyone** in a society better-off (or at least as well-off as they were before) -> assumption is made for the entire society
- A Kaldor–Hicks improvement if those that are made better off could **hypothetically compensate** those that are made **worse off** and lead to a Pareto-improving outcome. -> there are losers!
- Health care systems are too complex to allow identification of the losers -> we make decisions under uncertainty when it comes to the compensation part.

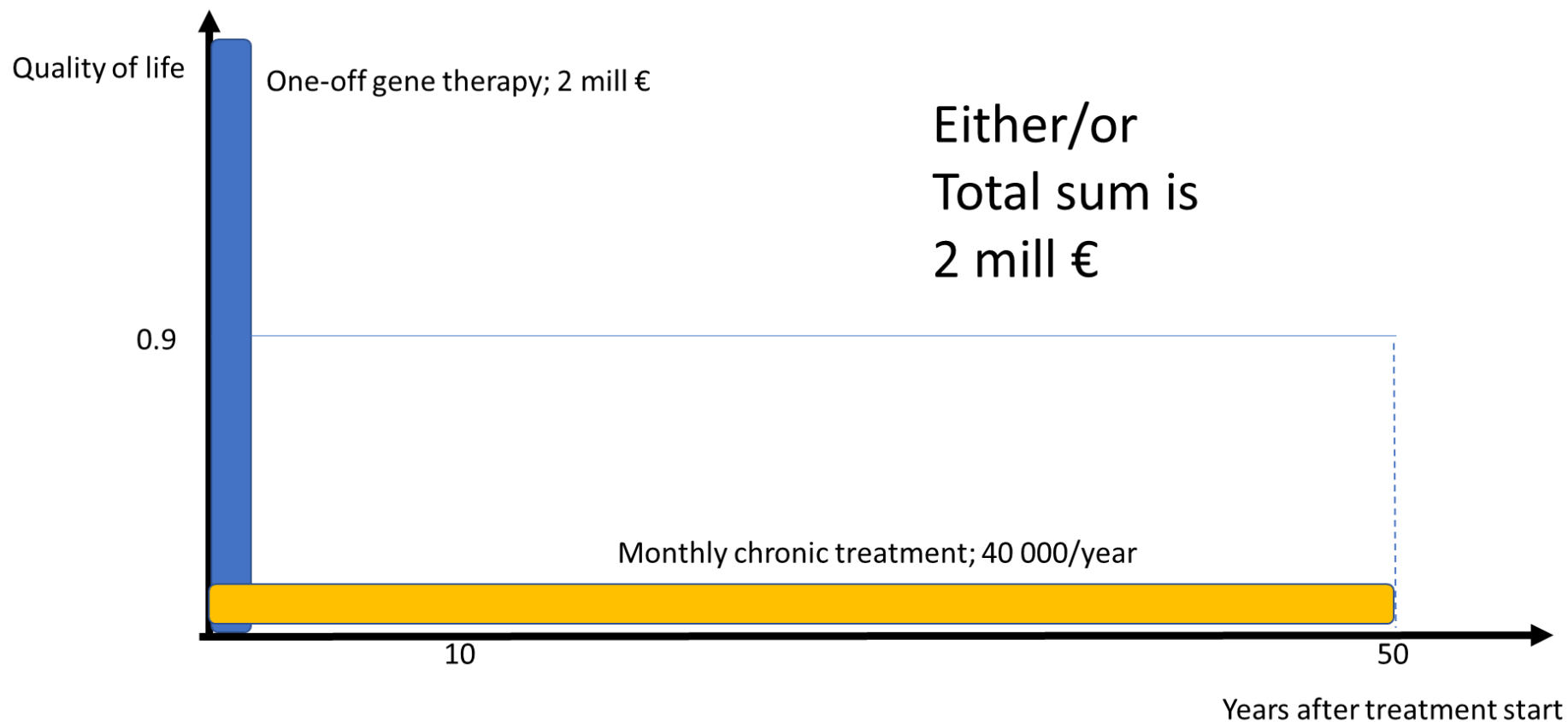


What is the elephant  
in the room then?

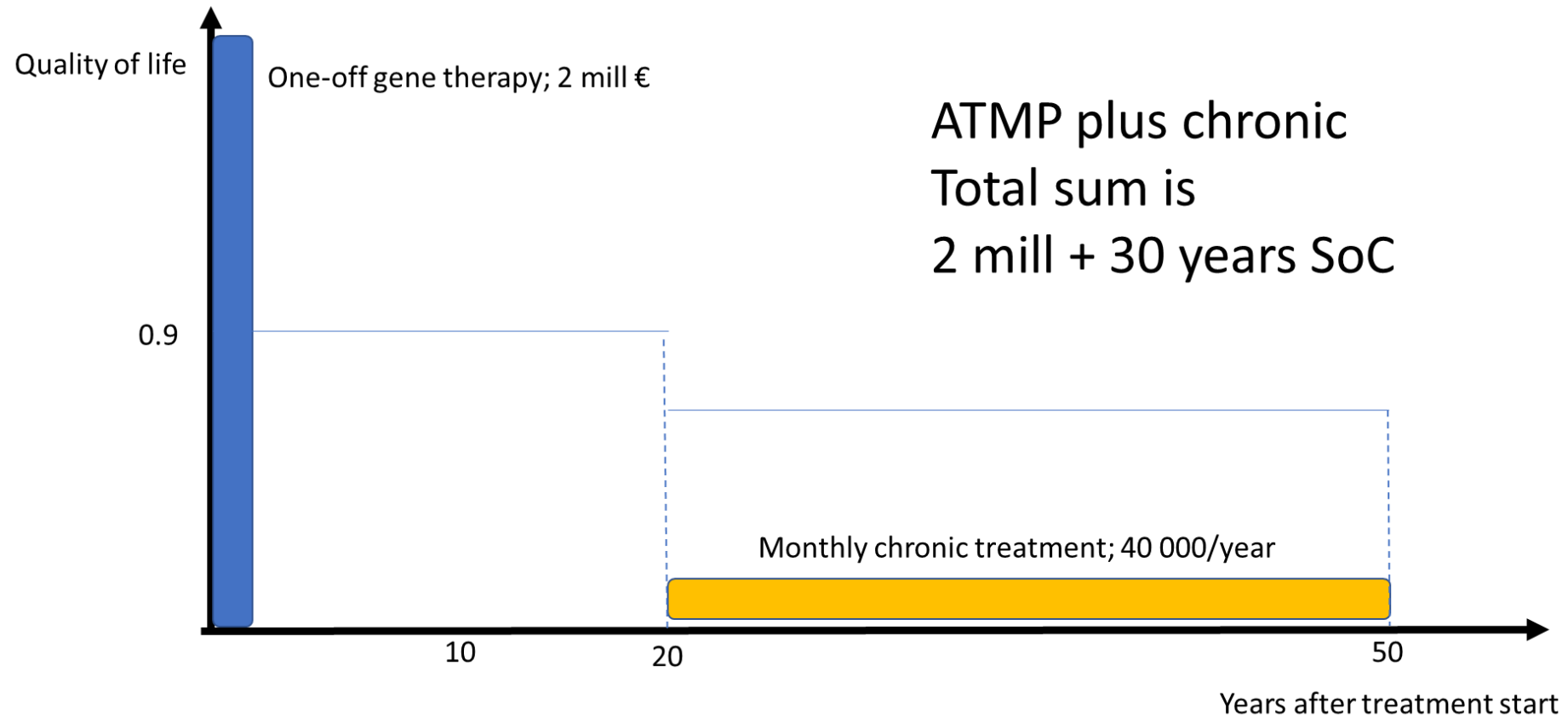




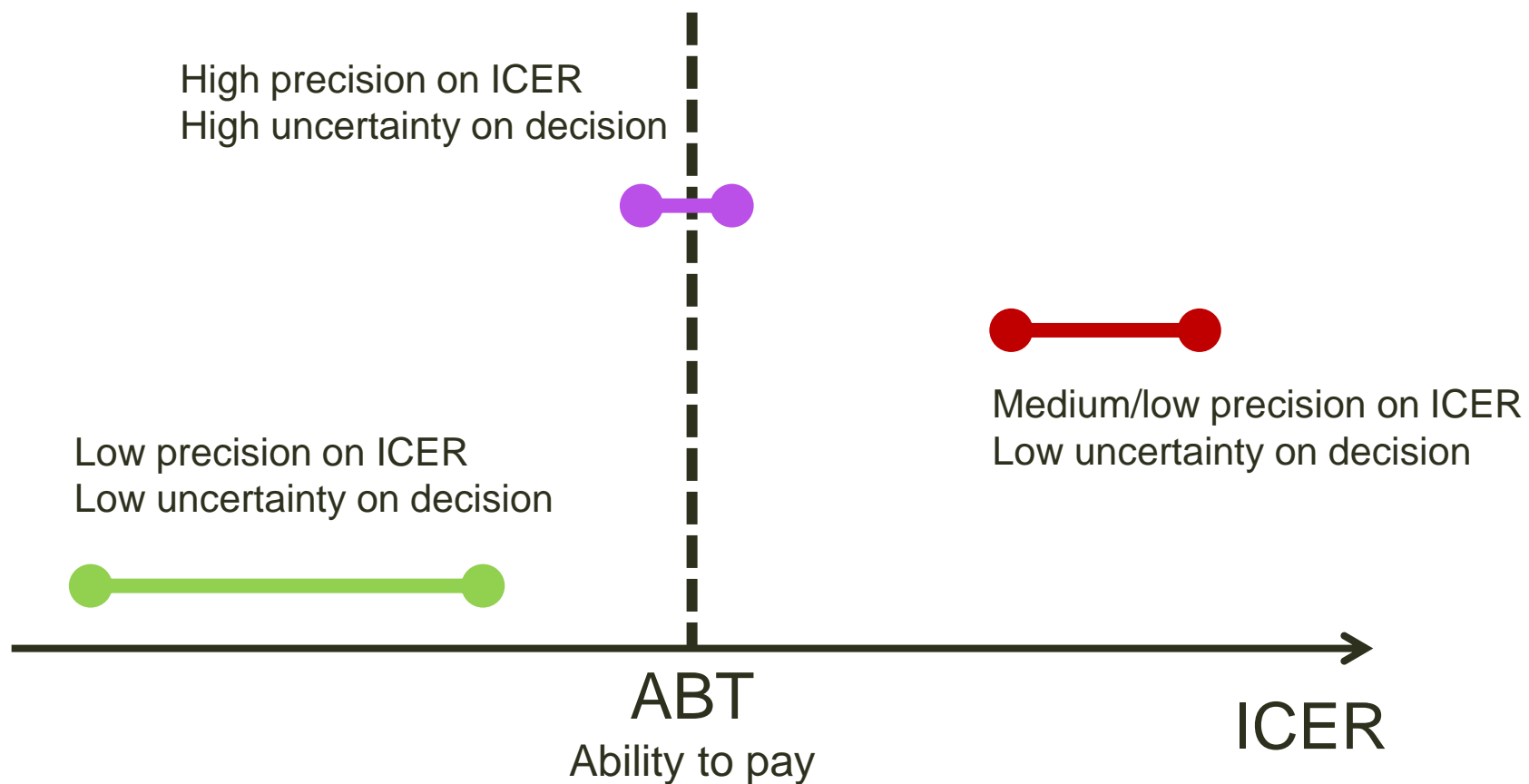
# If one-time is as good as chronic treatment



# But if not, the irreversibility phenomenon kicks in



# Uncertainty of decision is a sum of all uncertainties



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