

# Propositions

## Accompanying the thesis: **Open-Source Modeling and Resource Prioritization in Healthcare**

1. R can be used to efficiently compute and store state-transition model outcomes that capture all relevant model dynamics - *This thesis*
2. The flexibility of R requires clear modeling guidelines and proper coding education to decision modelers in healthcare when used for large scale cost-effectiveness analysis submissions - *This thesis*
3. Access to the source code alone is not sufficient to warrant model credibility - *This thesis*
4. Value of information methods can be used in an iterative way to guide decision making based on rapidly expanding evidence in times of a pandemic - *This thesis*
5. It always seems too early, until it's too late - Ellen Goodman 2017 and this thesis
6. Studies with non-reproducible results can jeopardize scientific progress, waste resources, harm individuals and society, and erode public trust in science. Therefore, replication studies should be conducted more frequently and systematically. This requires a joint effort from funding agencies, scientific journals, institutions and researchers - *KNAW 2018, Replication studies*
7. To maximize the benefit to society, you need to not just do research but do it well - Professor Doug Altman
8. A decluttered environment is associated with lower stress levels - Darby Saxbe and Rena Repetti, 2010
9. Nothing in science has any value to society if it is not communicated - Anne Roe, 1952
10. It is easy to make mistakes with models, it is even easier without - Harvey Fineberg, SMDM 2020
11. Coming together is a beginning, staying together is progress, and working together is success - Henry Ford and Edward Everett Hale

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