



2020 Key Outputs

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2020 Highlight:

Implementation of prognosis reviews within Cochrane is almost completed



Research and development

- [Framework for meta-analysis of prediction model studies with binary and time-to-event outcomes](#) has been published in the journal Statistical Methods in Medical Research
- Co-authored papers on reporting of and methods for primary prognosis studies, including [TRIPOD for abstracts](#) and [guidance for sample size calculations for prediction model development](#)
- Developing guidance for reporting and quality assessment of prediction models developed using Machine Learning techniques. This will result in TRIPOD-ML and PROBAST-ML. As a starting point, we are performing a systematic review aiming to evaluate the reporting quality, the methodological conduct, and the risk of bias of prediction model studies that applied ML techniques for model development and/or validation (PROSPERO CRD42019161764).
- Three Cochrane reviews were published in the past year. Two on prognostic factors ([Aldin et al](#), [Hayden et al](#)) and one on prognostic models ([Kreuzberger et al](#)). They can serve as exemplars for upcoming reviews, regardless of the clinical domain or topic.



Best practice and guidance

- Developed new material to support the implementation of reviews of prognosis studies within Cochrane, e.g. peer review templates for protocols and full reviews, a full workflow from title registration up to publication of the full review, and a FAQ for authors and editors. Continuous updating of TRF, protocol and review template is in place. Example data extraction files and example meta-analysis scripts are open source available. All tools are easily accessible via <https://methods.cochrane.org/prognosis/welcome>



Methods implementation

- Facilitated online courses on systematic reviews of prognosis studies for Cochrane authors.