**Additional file 1. Practical suggestions as reported by participating researchers**

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| **Reliability*** Align with timeline follow-back timeframes [note by the authors: timeline follow-back timeframes is a method that can be used as a clinical and research tool to obtain a variety of quantitative estimates of marijuana, cigarette, and other drug use]
* Predefined rules over what data (e.g. with regard to delay) to accept for statistical analyses
* Assess at least three items for each construct you aim at
* Realize that the reliability differs per variable (depends on its nature)

**Feasibility*** Adding an extra assessment in case of technical problems
* Questionnaire disappears when next pops-up
* Questionnaire appears when respondent plugs in his/her telephone for charging
* Not all items have to be asked equally frequent
* Reduce branching

**Statistics*** Use simulation studies
* Contact a statistician before conducting your study
* Use an e-diary that is triggered in response to an interesting episode of one continuously measured variable
* Aim for consistent answering scales (momentary/retrospective or likert-scale/ continuous)
* Use a combination of momentary and retrospective items
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*Please note that participating researchers were sometimes short and unspecific in their answers*