**SUPPLEMENTARY MATERIAL 3**

Article: *How uncertainty influences lay people’s attitudes and risk perceptions concerning predictive genetic testing and risk communication*

Frontiers in Genetics, section ELSI in Science and Genetics

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*Analysis: Main categories and coding list used in the analysis of focus group transcripts*

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| **Code category** | **Code** | **Code description** |
| **Risk information** | **Benefit\_pro** | Risk information is attributed a certain benefit |
| **Benefit-**\_**contra** | The benefits of risk information are seen critical |
| **Risk\_information\_sharing** | Participants are in favor or against sharing genetic data with third parties / institutions |
| **Risk\_burden** | Risk information negatively affects well-being and quality of life |
| **Risk\_hope** | Risk is associated with confidence; The will to stand up to the risk is expressed |
| **Risk\_responsibility** | Risk information appeals to responsibility in a proactive sense |
| **Motivation** | **Attitude\_planning** | Evaluation of genetic test regarding life planning |
| **Attitude\_lifetime** | Evaluation of a genetic test regarding the burden of the test result and the remaining lifetime |
| **Attitude\_result-dependent** | Ambiguous evaluation depending on yet unknown testing outcome |
| **Condition** | **Condition\_ treatable** | Condition for the decision for a genetic test is the treatability or prevention options of a disease |
| **Condition\_indication** | Condition for the decision for a genetic test is specific evidence (e.g., family history) |
| **Dealing with numbers / probabilities**  | **Include numbers / probabilities** | Statement refers to numbers/ probabilities |
| **Include anumerical risk** | Statement is referring to risk that is not expressed in numbers, but as a possibility that is based on experience or observation. Comparisons, relationships are used and other factors such as age, life situation are included |
| **Lack of interpretability** | Interpretation of risk information overwhelms the participants |
| **Experiences based knowledge** | Statements that rely on own experience or everyday life knowledge  |
| **Uncertainty** | **Aleatory uncertainty** | Statements that refer to the natural unpredictability of future events |
| **Epistemic uncertainty** | Statements that refer to lacking knowledge regarding the accuracy of a risk prediction or its applicability to a case |