

Rule-knowledge among German cyclists

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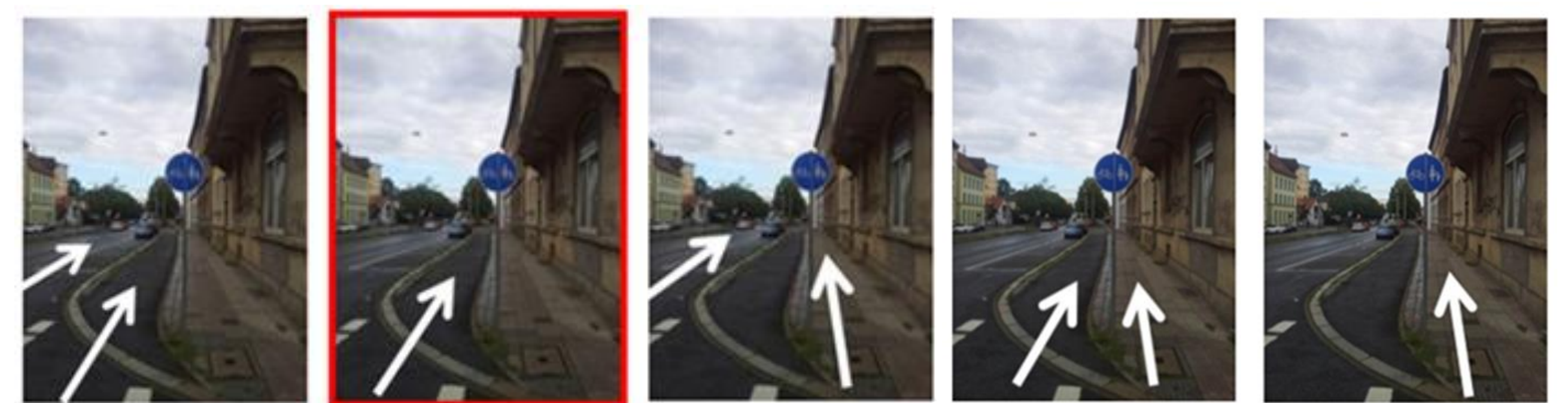
Motivation

- In observations, ca. 50% of cyclists show at least one infringement of traffic regulations (Luber, 2013; Huemer, 2012).
- In interviews, cyclists report not to know about the regulations (Fricke, 2012; Buttersack, 2013).
- There is no „driving licence“ for cyclists in Germany.

Do cyclists *know* their traffic rules?

Methods

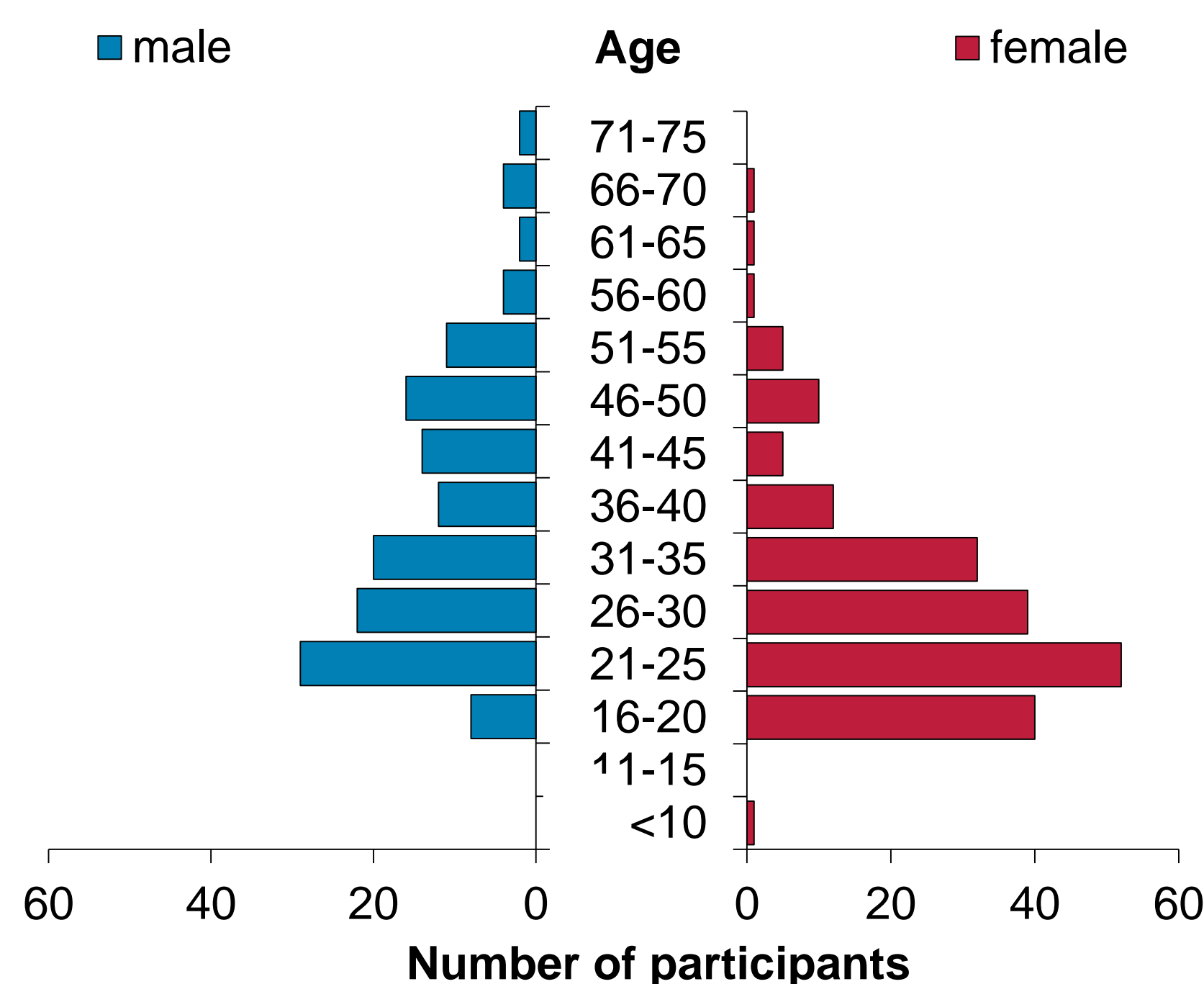
- Online survey (41 questions) as a *multiple choice quiz*
- Quiz-answers according to StVO and StVZO



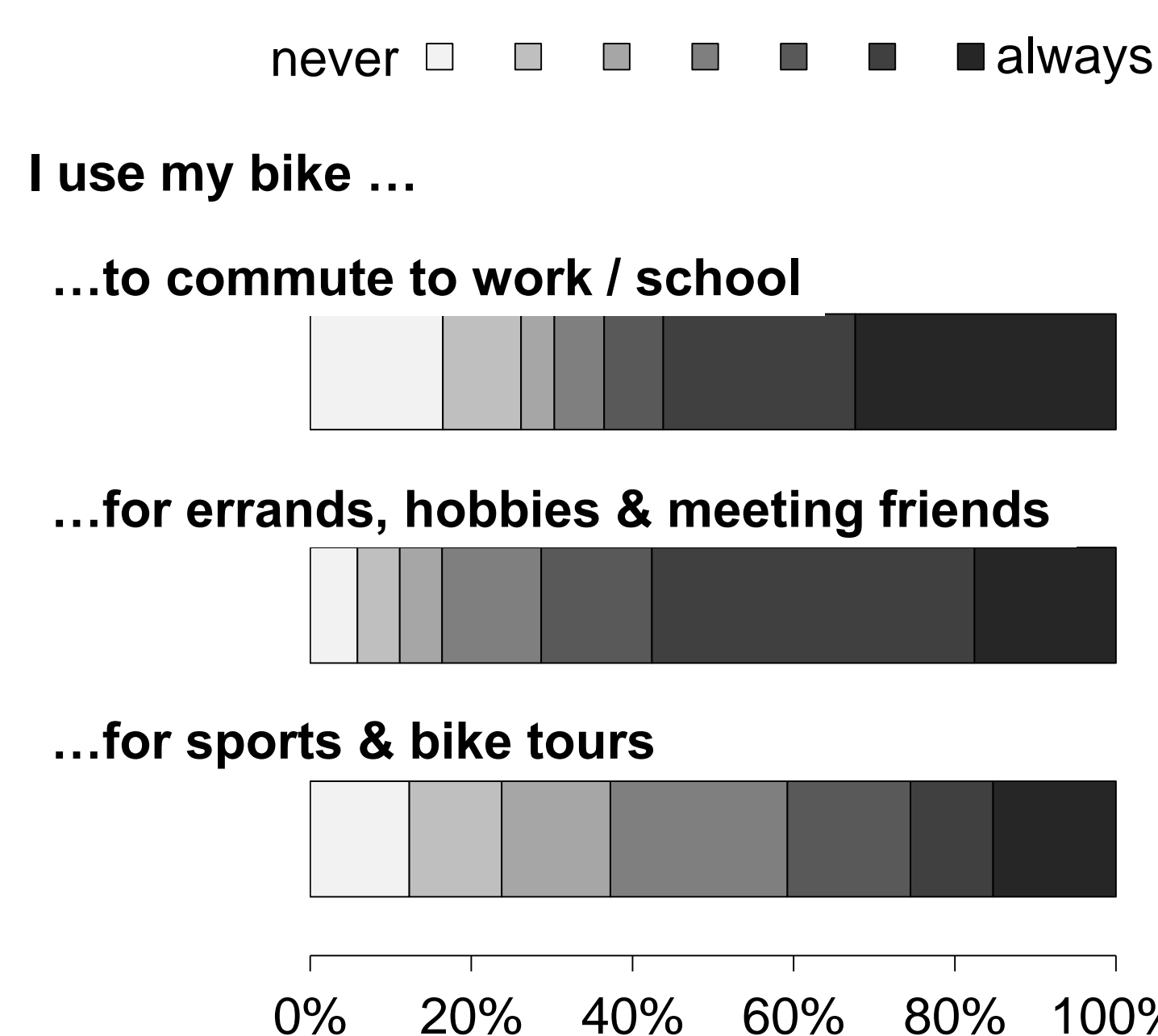
Example question: "Where do you have to ride?"

Results

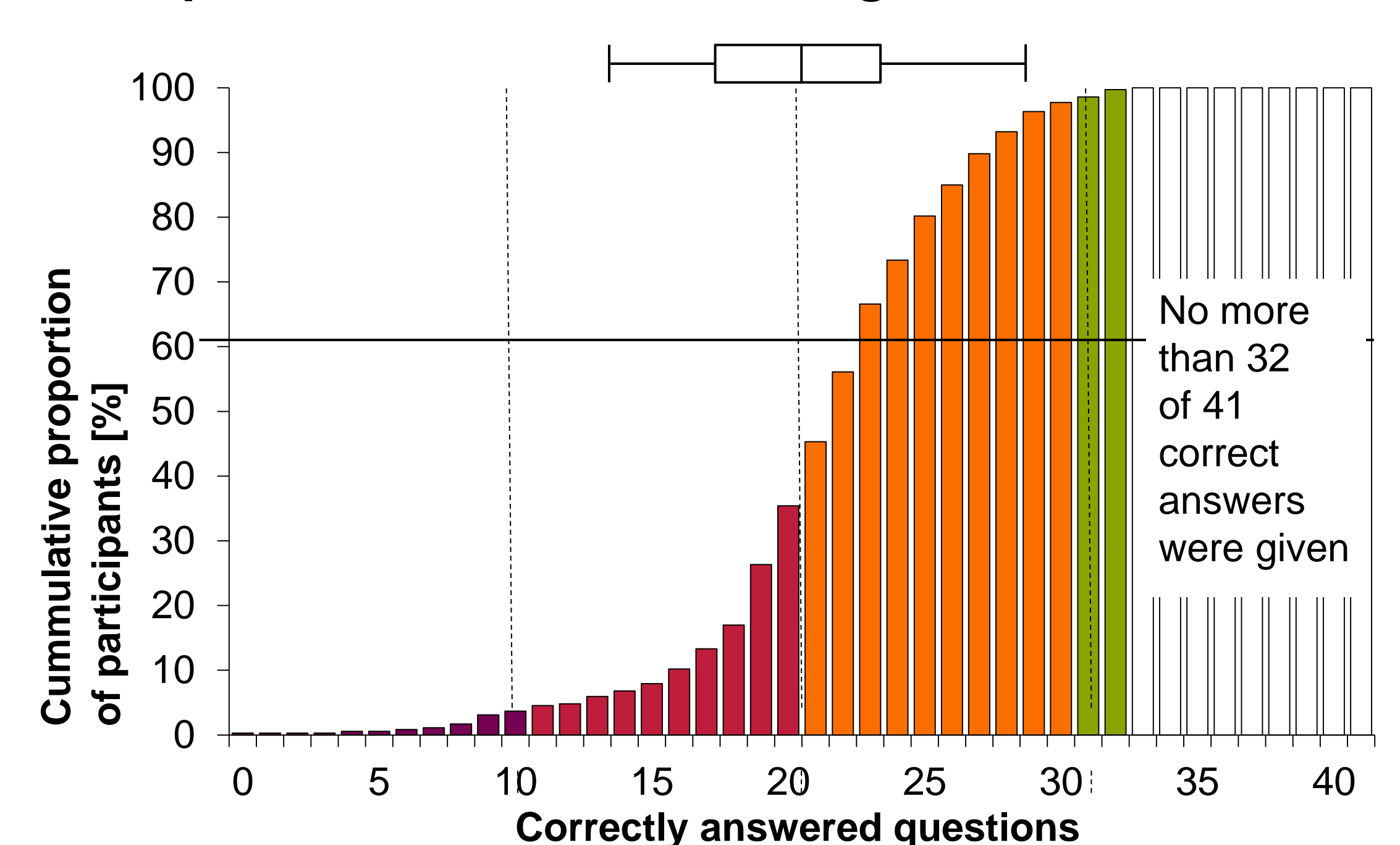
Participants



N=353



Participants' overall rule knowledge



Statistics

- No statistically reliable linkages found between demographics and rule-knowledge
- Graphic analysis of individual knowledge

Proportion of subjects answering question correctly

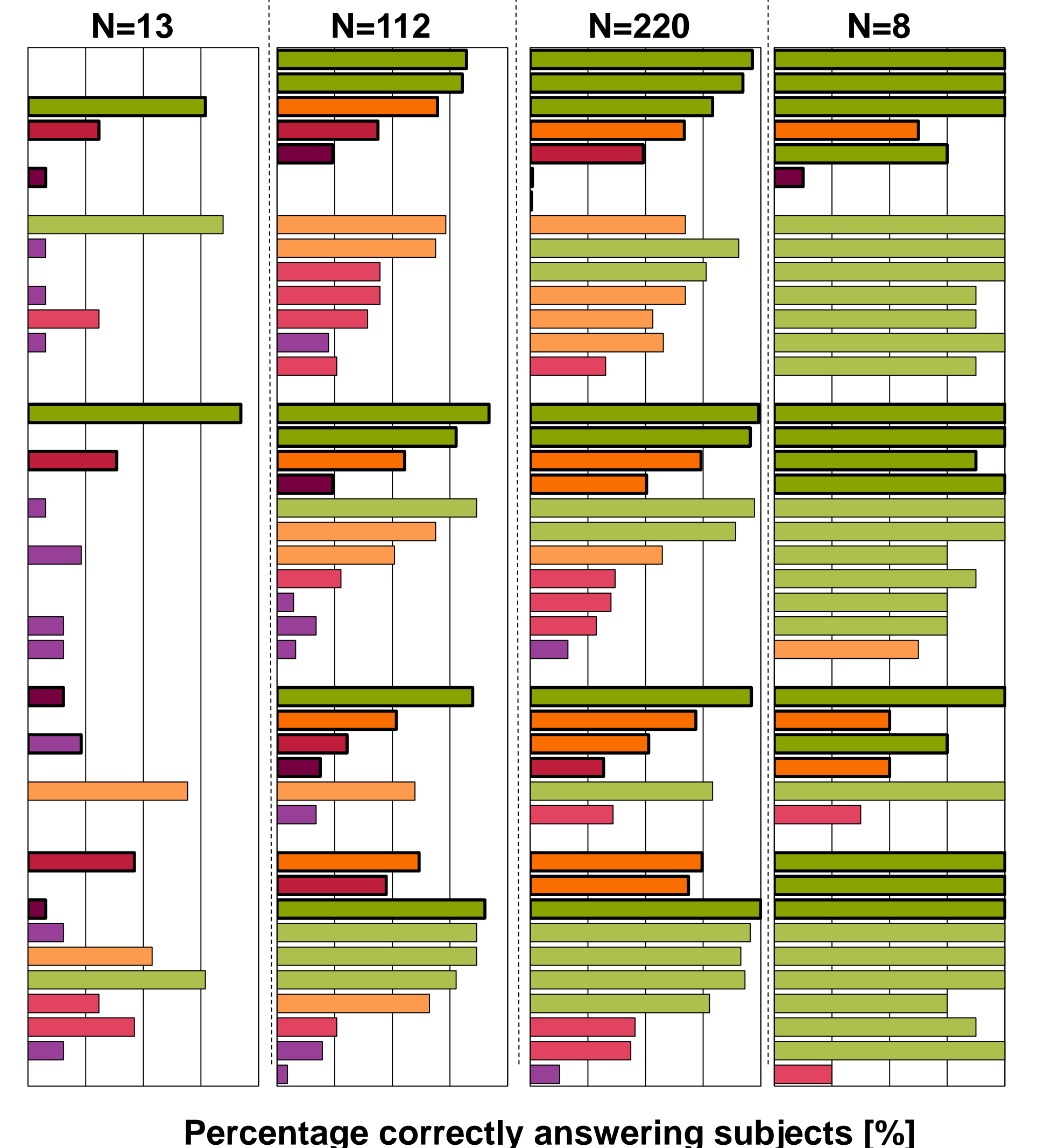
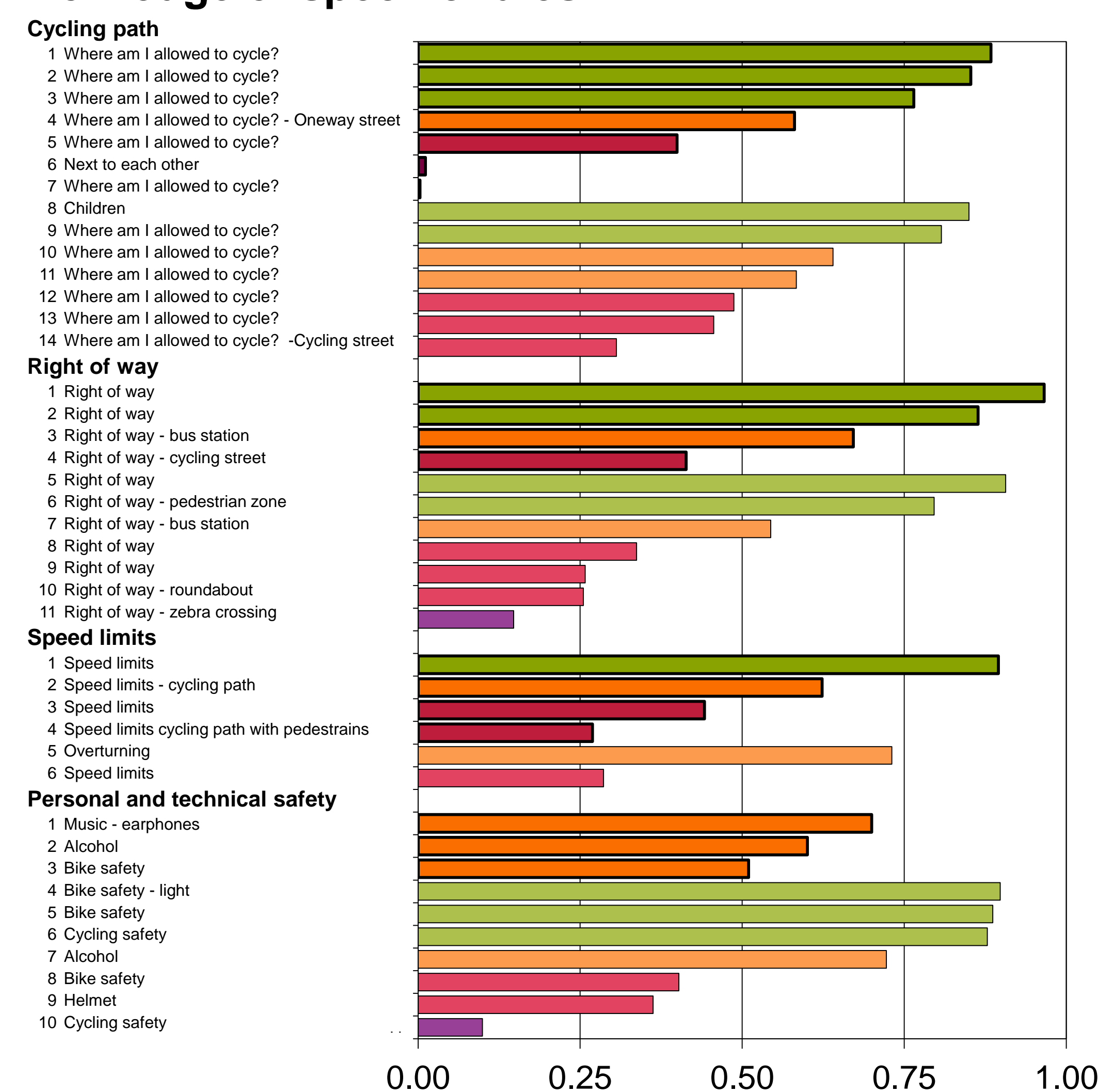
Safety critical question

■ < 25% ■ 25-50% ■ 50-75% ■ > 75%

Other

■ < 25% ■ 25-50% ■ 50-75% ■ > 75%

Knowledge of specific rules



Discussion

- No link between demographics and rule-knowledge
- Knowledge seems to be rule-specific

Next steps

- Further exploration of the links
 - Knowledge – behavior
 - Behavior – accidents

Literature

Buttersack, H. (2013). *Radfahren ohne Licht: Onlinebefragung zu Motiven*. Unpublished Bachelor's Thesis. Institut für Psychologie. Braunschweig.

Fricke, C. (2012). *"Geisterradler" - Gründe für regelwidrige Radwegnutzung im Umfeld der TU Braunschweig*. Unpublished Bachelor's Thesis. Institut für Psychologie. Braunschweig.

Huemer, A.K. & Vollrath, M. (2012). *A case-control study of cyclists' crash risk*. Poster presented at the Human Factors and Ergonomics Society Europe Chapter Conference, Toulouse, France, 10.-12.10.2012.

Luber, L. (2013). *Radfahren ohne Licht: Beobachtungsstudie in Braunschweig*. Unpublished Bachelor's Thesis. Institut für Psychologie. Braunschweig.