

## Appendix

### Interview guide

#### Interview guide for patients

##### Stimulus

Thank you very much for your willingness to participate in our study. We are interested in your experiences with the conversation with your doctor. All experiences and opinions are welcome!

During our conversation, I will ask you a few questions, but mainly listen attentively and take notes to potentially follow up later. You can interrupt or end the conversation at any time.

Our conversation will be recorded, but the data will be completely anonymized and used exclusively for scientific purposes. If you do not wish to answer a question, that's completely fine.

Please think again about the conversation with your doctor. How did you experience the conversation?

#### 1) Conversation Atmosphere, Setting, Shared Decision Making (SDM)

- How did the conversation proceed overall?

Who was present? What was discussed? What information were you given? How long did it last? What was helpful for you? What was challenging?

- How did you perceive the conversation with your doctor?

(Was anything different compared to previous conversations? Did the doctor address your needs and concerns, and if so, how?)

- Did you feel that you were provided with all the necessary information to make an informed decision? (if applicable)

- Family Members: What was particularly helpful/difficult for you about the conversation? (Were there things at the doctor's office or in the surroundings that bothered or distracted you?)

- Were there decisions that needed to be made?

(Were you involved in the decision, and if yes, how? If not, why not? How was the decision about your treatment made? What was the process? Could you express your thoughts and concerns, and if yes/no, to what extent? Did you ask questions, and if yes, what and why?)

## 2) General Questions about the Conversation Process

- What does the perfect doctor-patient conversation look like for you?
- How important is it to you to be involved in your clinical decision-making (brief explanation / informed discussion)? How precisely would you like to be involved? *How do you envision the ideal decision-making process?*
- What is your opinion of the medical staff, or in other words: how do you get along with the medical staff?

*(What does having control over a medical treatment mean to you? Who is should have control over your treatment? Why?)*

- How important is trust in your medical treatment?

*(What needs to be in place for you to have trust in the treatment?)*

- Who is responsible for the course of your treatment and why?
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## 3) Questions about Attitudes and Dealing with Artificial Intelligence

**In your conversation, a (support) tool, a so-called artificial intelligence (AI)-based device , was also used.**

- Did you know that? If yes/no, why/how? How did the doctor discuss this with you?
  - What role did AI play in the conversation?  
*[Did the conversation or the treatment then differ from what you are used to? In what way (not)? Were you told how the AI tool works? If yes, how did you feel about it? How important is it to you, to understand the AI?]*

- How did the treating doctor use AI?  
*(Could you discuss all questions/worries in regarding the AI?)*

- Did AI influence your role in the conversation?

*(If yes, how? If no, why not? What are your expectations regarding the use of AI in patient counseling? If you could choose, would you prefer treatment with or without AI? Why (not)?)*

- How do you feel when you think about the possibility that artificial intelligence could influence your treatment? (E1/2)

*(Does something scare or worry you when you think about the AI's decision? How did you feel when the AI shared your prognosis with you?)*

- Can you once again explain in your own words what the AI is good for in treatment?

- (What do you need to know about the AI, and who should inform you about it? What reasons might you have for not wanting to incorporate the AI into your treatment?)*
- What would be important for you to know regarding AI?  
*(How important is it for you to know which data is used for prognosis? Why? Would you like to see and verify this data? Has this been offered to you? Would/was this important to you?)*
  - In your opinion, did AI affect the doctor's prognosis?  
*(If yes, how?)*
  - Can you please describe how your treatment decisions were made? *[How did it unfold? Were you able to understand and accept the decisions made with the help of AI? Why (or why not)?]*
  - Is there something that would have helped you regarding the use of AI (as decision support) and discussing it? *If yes, what would that be?*
  - Do you feel that you were provided with all the necessary information to make an informed decision?
  - What do you think of the accuracy of AI predictions?  
*(Did you have concerns regarding the prediction? How does it affect you when AI makes decisions?)*
  - Do you think AI handles your data trustworthily?  
*(Why (not)?)*
  - Do you believe that AI acts "neutrally," guided by certain interests, or could also cause harm? (E2)  
*(Could an AI discriminate against certain individuals or be manipulated differently?  
Does this issue matter to you?)*
  - What do you generally think about the inclusion of Artificial Intelligence (AI, brief explanation) in conversations with doctors after kidney transplantation?
  - What would the optimal treatment using AI look like?
  - Should AI be further developed and more integrated into medicine?  
*(Why (not)? Do you believe AI can replace the doctor? Why (not)?)*

- When you now think about the concept of responsibility, does your assessment change with the use of AI? (E2)

*Why (not)?*

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#### **4) Questions about the Support Person (SP)**

- Did you discuss with your family member after the conversation with the doctor?

If yes, what did you talk about? Did you also discuss AI? What exactly did you discuss?

- Could he/she express their questions/worries?

- Did the doctor also address your family member(s)?

- Did your family member(s) help you make a decision?

How would you rate the help? Did it change your relationship with your family member?

// Closing

### 5) Interview guide for Doctors

Good day, my name is X, I am a research assistant in the PRIMA-AI project, in which we investigate how AI affects doctor-patient conversations. Thank you for your willingness to participate in the interview (focus group)!

During our conversation, I will listen attentively and take notes to potentially clarify further questions later. You can interrupt or end the conversation at any time if you wish.

Please remember that our conversation will be recorded, but the data will be pseudonymized and used exclusively for scientific purposes.

Please think about the recent patient conversations in which treatment decisions were made with the help of AI.

- Do you use AI-supported systems for treatment decisions? If yes/no, to what extent and why (not)?
- Do you discuss AI during doctor-patient conversations? If yes/no, to what extent and why?
- What experiences have you had in this regard?
- Can you please describe how you prepare your patients for the results from the AI? (*Do you discuss the predictions/function of the tool with your patients? If yes, why and how? If not, why not?*)
- What role does AI play in the conversation with your patients?

*And what role does it play in treatment decisions? What are your expectations regarding the use of AI in patient counseling?*

- How do you assess the acceptance and rejection of AI among your patients?
- To what extent have you experienced changes in communication with patients since using an AI-assisted system?
- How has AI helped you make better decisions in the best interest of the patient?
- Have you received feedback from patients that led you to change or deepen your opinion about AI-assisted systems? *If yes, what was the feedback and how did it influence your opinion?*
- How important is it for you to understand how AI systems work? (E1/2)
- Do you think it's important to prepare for the AI tool in practice?

*Or is it sufficient to know the basics of how it works? (How did you specifically prepare for the current tool? Have you dealt with any potential patient questions beforehand? Do you understand the basic working process of AI?)*

- What do you need to be successful in working with AI? (T2)
- Is the integration of the AI tool into clinical practice easy? What do your colleagues say about AI?

*What needs to change? (T2) Are there barriers to your work? How can implementation be made easier? What would be the best way to incorporate AI into the treatment process?*

- When you think about AI becoming part of the decision-making, how do you feel about this idea?
- What are your major concerns about using this AI in your daily work?
- Do you have concerns about data privacy and security when using AI-assisted systems?

*(If yes, what are your specific concerns?)*

- How important do you think it is to understand how AI systems work? (E1/2)
- Do you believe that AI systems are ethically justifiable? (brief explanation) (E1/2)
- Should AI also be *held responsible for its statements*, for example, if the wrong therapy decision is made? Could AI also cause harm? (E1/2)
- How do you see the role of AI in future medical care? What should be done differently regarding the use of AI?

// closing